The Tai-Kadai Languages

Edited by Anthony V. N. Diller, Jerold A. Edmondson, Yongxian Luo

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ABBREVIATIONS

LTBA          Linguistics of the Tibeto-Burman Area
HCT           Handbook of Comparative Tai
ICSTLL        International Conference on Sino-Tibetan Languages and Linguistics
PAL 3         Pan Asiatic Linguistics: Proceedings of the Third International Conference
PAL 4         Pan Asiatic Linguistics: Proceedings of the Fourth International Conference
A             agent
ACHV          achievement
ADV           adverbial
AP            adjective phrase
AQ            audience question
ASEMI         Asie de Sud-Est et Monde Insulindien (Bulletin du Centre de Documentation et de Recherche, Centre National de la Recherche Scientifique, Ecole des Hautes Etudes en Sciences Sociales, Paris)
ASP           aspect
AUX           auxiliary
BA            disposal construction in Chinese
BEFEO         Bulletin de l'Ecole Francaise d'Extrême-Orient, Hanoi/Paris
BEI           passive construction in Chinese
BEN           benefactive
BENEF         benefactive
C             consonant
CAU           causative
CAUS          causative
CL            numeral classifier
CLA           classifier
CLF           classifier
CLNK          clause linker
CLS           classifier
CM            commenting on developments in story
COMP          complementizer
CONJ          conjunctive; conjunction
CT            class term
CV            action verb
DEM           demonstrative
Det           determiner
DI            demonstrative and interrogative
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tr>
<td>DIR</td>
<td>directional</td>
</tr>
<tr>
<td>DO</td>
<td>direct object</td>
</tr>
<tr>
<td>DV</td>
<td>directional verb</td>
</tr>
<tr>
<td>EMPH</td>
<td>emphasis/emphatic</td>
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<tr>
<td>EXPR</td>
<td>expressive</td>
</tr>
<tr>
<td>FEM</td>
<td>feminine</td>
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<tr>
<td>FOC</td>
<td>focus</td>
</tr>
<tr>
<td>FW</td>
<td>functional words</td>
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<tr>
<td>GEN</td>
<td>general</td>
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<tr>
<td>GI</td>
<td>greeting and informational exchange</td>
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<tr>
<td>HP</td>
<td>highlighting particle</td>
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<tr>
<td>IND</td>
<td>inductive</td>
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<tr>
<td>INJ</td>
<td>interjection</td>
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<tr>
<td>INT</td>
<td>intensifier</td>
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<tr>
<td>INTERJ</td>
<td>interjection</td>
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<tr>
<td>INTR</td>
<td>intransitive</td>
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<tr>
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<td>indirect object</td>
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<tr>
<td>IP</td>
<td>initial phonemes</td>
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<tr>
<td>IRR</td>
<td>irrealis</td>
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<tr>
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<td>masculine</td>
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<tr>
<td>MOD</td>
<td>modality</td>
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<tr>
<td>MSC</td>
<td>Modern Standard Chinese</td>
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<tr>
<td>MV</td>
<td>modal verb</td>
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<tr>
<td>NEG</td>
<td>negation; negative</td>
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<tr>
<td>NET</td>
<td>noninterventive</td>
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<tr>
<td>NL</td>
<td>non-linguistic instant responses and reactions</td>
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<td>NOM</td>
<td>noun phrase conjunctive</td>
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<td>NP</td>
<td>noun phrase</td>
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<td>NSR</td>
<td>nominalizer</td>
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<tr>
<td>O</td>
<td>object</td>
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<tr>
<td>PAN</td>
<td>proto-Austronesian</td>
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<tr>
<td>PART</td>
<td>particle</td>
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<td>PAT</td>
<td>patient</td>
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<tr>
<td>PCL</td>
<td>particle</td>
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<tr>
<td>PEN</td>
<td>personal experience narrative</td>
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<tr>
<td>PER</td>
<td>person</td>
</tr>
<tr>
<td>PERF</td>
<td>perfective</td>
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<td>perfective</td>
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<tr>
<td>PFX</td>
<td>prefix</td>
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<tr>
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<td>plural</td>
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<tr>
<td>PMP</td>
<td>Proto-Malayo-Polynesian</td>
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<td>possessive</td>
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<tr>
<td>POT</td>
<td>potential</td>
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<tr>
<td>PP</td>
<td>preposition phrase; pragmatic particle</td>
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<tr>
<td>PROG</td>
<td>progressive</td>
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<tr>
<td>PT</td>
<td>Proto-Tai</td>
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<tr>
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<tr>
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<td>verb-particle</td>
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<td>Definition</td>
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<tr>
<td>Q</td>
<td>question</td>
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<tr>
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<td>quantifier phrase</td>
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<tr>
<td>RCP</td>
<td>reciprocal</td>
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<tr>
<td>RDP</td>
<td>reduplication</td>
</tr>
<tr>
<td>RE</td>
<td>reasoning or extensions</td>
</tr>
<tr>
<td>REC</td>
<td>reciprocal</td>
</tr>
<tr>
<td>REL</td>
<td>relative clause; relative marker; relativizer</td>
</tr>
<tr>
<td>RR</td>
<td>rest of the audience’s response</td>
</tr>
<tr>
<td>S</td>
<td>single direct argument of intransitive clause; subject</td>
</tr>
<tr>
<td>SA</td>
<td>speech act</td>
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<tr>
<td>SAP</td>
<td>speech act particle</td>
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<tr>
<td>SFP</td>
<td>sentence-final particle</td>
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<tr>
<td>SG</td>
<td>singular</td>
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<tr>
<td>SLP</td>
<td>sentence linking particle</td>
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<tr>
<td>SPEC</td>
<td>specifier</td>
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<tr>
<td>SUB</td>
<td>supppordinative</td>
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<td>SUFF</td>
<td>suffix</td>
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<tr>
<td>SUP</td>
<td>suppine</td>
</tr>
<tr>
<td>SURF</td>
<td>surface structure</td>
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<tr>
<td>SV</td>
<td>stative verb</td>
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<tr>
<td>SVC</td>
<td>serial-verb construction</td>
</tr>
<tr>
<td>T</td>
<td>tone</td>
</tr>
<tr>
<td>TAM</td>
<td>tense, aspect and modality</td>
</tr>
<tr>
<td>TBU</td>
<td>tone-bearing unit</td>
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<tr>
<td>TOP</td>
<td>topic</td>
</tr>
<tr>
<td>TPC</td>
<td>topic</td>
</tr>
<tr>
<td>V</td>
<td>verb; vowel</td>
</tr>
<tr>
<td>VP</td>
<td>verb phrase</td>
</tr>
<tr>
<td>Y.SIB</td>
<td>younger sibling</td>
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<tr>
<td>1/2/3</td>
<td>1st/2nd/3rd person pronoun</td>
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PART 1

OVERVIEW CHAPTERS
CHAPTER ONE

INTRODUCTION

Anthony Diller

1.1. TAI-KADAI: PROGRESS AND PROSPECTS

This volume attests to several eventful decades in Tai-Kadai research. The recent past has seen new data become available, substantial analyses completed and larger Tai-Kadai patterns coming into clearer focus. These successes are pointing the way to future projects. The editors hope that this volume not only can stand as a record of current progress but also can provide a stimulus for new field studies and generalizations. The latter may apply to the internal structure and relations of varieties within Tai-Kadai and to relationships with other languages and groupings; also to broader questions of theory and practice.

Further fieldwork is a matter of particular urgency. As elsewhere among the world’s major language families, Tai-Kadai’s territory is home to speakers of endangered languages. Concern is great that children of those now speaking many Tai-Kadai varieties are substantially modifying and even abandoning their parents’ language. This volume documents varieties under threat, pointing to how important it is for more work of this kind to be undertaken while there is still time. Required will be well-trained linguistic researchers, motivated local speakers, appropriate institutional assistance and the acquiescence, if not active support, of governments and local officials. In the past two or three decades Tai-Kadai researchers have been fortunate in that policies of states in the region have generally moved in the direction of facilitating greater access to field sites; the profession’s thanks are due to individuals and official units involved in this movement. Gratitude is also due to the funding bodies which have supported Tai-Kadai research. It is hoped that work reported in this volume may encourage others to address these challenges, gain necessary support and pursue further field studies in this critical area.

1.2. ACKNOWLEDGMENTS

Many people and institutions have contributed to the completion of this volume. Gratitude has already been expressed for cooperative support from officials and their units in the Tai-Kadai region; included here in China are the Central University for Nationalities, Beijing, and the Guangxi University for Nationalities. In Thailand, the National Research Council has been helpful. Of course, we owe sincere thanks to the many local language assistants, speakers of Tai-Kadai varieties, whose contributions are the essential basis of analyses presented here.

Themes recurring in this volume have often been points of discussion in a series of stimulating international conferences held in Bangkok. Chulalongkorn, Thammasat and Mahidol Universities have hosted these and thanks are due to Thai colleagues and their linguistics departments for contributing their professional and organizational expertise. The success of these events has helped to bring Tai-Kadai studies to maturity.

Funding agencies have been thanked but double thanks are due. Grants from the Australian Research Council (ARC) have been crucial in bringing this volume together and specifically in enabling work behind chapters 2, 3, 4 and 9. The Research Centre for Linguistic Typology (RCLT) at La Trobe University, Melbourne, provided a most appropriate site for early editorial work. The Centre’s inspiring directors also made possible international travel for initial publication arrangements. RCLT provided specific
support for work behind chapters 1 and 6. Other tasks have been completed with assistance from the Department of Linguistics of the University of Sydney and final editing has relied heavily on the good offices of the Asia Institute of the University of Melbourne.

Contributors are thanked for their patience with production delays and for their efficiency in responding to requests. The same thanks are extended to staff at Routledge-Curzon.

Production has encountered challenges and many have offered help and advice. Special thanks are due Mr Mike Tianqiao Lu, Ms Haiqing Yu and Mr Phichit Roinil. Further acknowledgements appear in individual chapters.

Finally, in gratitude, the writer would like to call to mind inspiring teachers and other senior colleagues who have shared their many insights, among them: Helen Funnell, James W. Poultn, Mary R. Haas, Robert B. Jones, John U. Wulff, James Gair, David K. Wyatt, Fang-Kuei Li, Paul K. Benedict and William J. Gedney.

1.3. ORGANIZATION

In planning selections for this volume, the editors have kept in mind maximum service to the profession and to the likely readership. They have allocated much space to less-described Tai-Kadai varieties, several treated here in detail for the first time. On the other hand, general and comparative themes are included as well.

Chapter 2 following is by Yongxian Luo and can serve as an introduction to the current state of research, debate and speculation as to Tai-Kadai’s ultimate linkages. It also takes a particular stand on the Sino-Tai hypothesis and illustrates how argumentation in the field has been progressing. The chapter should be provocative and we can expect future debate.

Part 2 presents overviews and resources relating to the Tai languages. Thai is the best-described language in the family with many overviews readily available. Rather than offering yet another overview, in chapter 3 the writer selects bibliographic resources and introduces them with commentary, including some impression of how research has developed. Lao is the other national language in the Tai-Kadai grouping but is underrepresented in published research, especially in English. In chapter 4 N. J. Enfield provides a substantial account of Lao verbs and verbal constructions. The extent to which the Lao features he analyzes are found throughout Tai-Kadai suggests a worthwhile direction for future research. Chapter 5 by Jerold A. Edmondson is a survey of Shan and other northern tier Southwestern Tai languages of Myanmar and China. In chapter 6 Stephen Morey describes Tai languages of Assam and includes treatment of their little-known writing system. As for other Southwestern Tai languages, Lue is described in chapter 7 by John F. Hartmann and the Tai dialects of Nghe An, Vietnam, by Michel Ferlus, in chapter 8. Zhuang, a grouping that includes many millions of speakers, spans the Central and Northern branches of Tai and is described in chapter 9 by Yongxian Luo. In chapter 10 phonology of the Northern-branch language Bouyei is outlined by Wil Snyder. Chapter 11, by Wilaiwan Khanittanan, updates the author’s earlier work on Saek, a displaced Northern-branch language with archaic features.

Part 3 is given to some special Tai features often overlooked in standard treatments but of undoubted linguistic interest. Chapter 12 by Amara Prasithrathsint considers four-word expressions, taking Tai Lue as a basis, but suggesting a Tai-wide distribution for the phenomena described. Thomas John Hudak in chapter 13 draws on several Tai languages to produce a linguist’s guide to Tai aesthetics. In chapter 14 David Holm gives readers an illuminating exegesis of what may well be the first Tai writing system, the Old Zhuang script.

Part 4 is a more tightly-focused set, with four chapters dealing with aspects of diachronic change and grammaticalization, topics of particular relevance as linguistic theory confronts languages of the Tai-Kadai type. In chapter 15 Somsonge Burusphat traces a sequential indicator appearing in a range of Southeast Asian languages and speculates as to etymological connections. Pranee Kullavanijaya in chapter 16 gives a diachronic account of how a Thai (and Tai) functional operator has evolved. More synchronic approaches to grammaticalization are taken up in chapter 17 by Shoichi Iwasaki, analyzing bipolar distribution, and in chapter
18, by Kingarn Thepkanjana and Satoshi Uehara, analyzing directional verbs as success markers.

Part 5 is given to the Kam-Sui languages and provides valuable information on little-described varieties. In one of the more substantial chapters (19) of the volume, Tongyin Yang and Jerold A. Edmondson present a groundbreaking and comprehensive account of Kam (Dong), the numerically dominant member of the Kam-Sui group. This is followed in chapter 20 by a sketch of Sui by James Wei and Jerold A. Edmondson. Chapter 21, by Jinfang Li, is the first description of Chadong available for international readers.

Part 6 treats other little-described varieties, several endangered, but critical for understanding the deeper constituency of Tai-Kadai as a whole and for considering its ultimate relationships. The Hlai (or Li) languages of Hainan are described by Weera Ostapirat in chapter 22. The final chapter (23) by Jerold A. Edmondson describes the Kra group (or Geyang; also Kadai in a sense mentioned in the following section).

1.4. TERMINOLOGY AND ITS INTERPRETATIVE NUANCES

Terminology used by those in Tai-Kadai research still shows flux: usage is not yet entirely uniform and complete professional consensus remains elusive. In some cases terminological variation is simply a matter of alternative names, but in other cases particular claims are presupposed or signaled when specific labels are selected. Specific languages may have multiple names, such as Black Tai, alternating with Tai Dam, Tai Noir, etc., and when transplanted in Thailand, as Lao Song Dam or Lao Song. Also, a single label, such as Dai, may subsume what linguistic criteria or speakers themselves might take to be separate languages. Finally some labels, e.g. Red Thai, have been subject of contention (see chapter 8). The editors have not enforced standards in this regard, so readers should keep in mind potential flexibility in usage across chapters. This fluidity applies to transcription systems as well.

By now it is usual for the spelling Thai to cover inclusively normative Standard Thai and related colloquial Central Thai varieties, including the more vernacular form sometimes referred to as Bangkok Thai. The spelling Thai is also used in regional or local variety names within Thailand’s borders such as Southern Thai, Suphanburi Thai, etc. Northern Thai is often called Lanna or Kammueang; Northeastern Thai may be referred to as Isan or local Lao.

Thai in this generally-accepted sense then belongs to the larger Tai family of languages, so spelled, as defined by general professional consensus. Most in the field would accept at least as a point of departure Li’s (1977) classification of Tai languages, which are spoken over a wide somewhat ‘Y-shaped’ area stretching from southern China through northern Southeast Asia and on to the northwest into Assam in northeastern India. The reconstructed parent language at this level is Proto-Tai. Readers need to keep in mind that Northern Tai and Central Tai designate major branches in Li’s Tai family tree, not specific varieties. Languages of these branches are spoken in China and Vietnam. These terms are not to be confused with Northern Thai and Central Thai, which are regional variety names in Thailand belonging to Li’s Southwestern Tai branch.

Tai and its Chinese pinyin equivalent Dai also occur in the names of specific varieties, such as Black Tai, Tai-Aiton, etc. Note also the million-strong Tày language of Vietnam, in Li’s Central Tai branch. This has sometimes been referred to as Tho, but that name is now understood to be objectionable. In Chinese usage, Dai denotes a nationality unit of Yunnan. This combines speakers of what is elsewhere known as Lue, Lù, or Tai-Lue, along with the markedly different Dehong or Tai-Dehong (also know as Chinese Shan or perhaps Nueva, literally ‘northern’ or ‘above’, although that term may also refer to a different variety in the general area). In linguistic practice, Dai has been used in the sense of Lue alone, i.e. in this case excluding Dehong.

One should note that the Thai/Tai distinction sketched above has not always been made in way indicated and that this nomenclature pairing is not satisfactory to all. Some scholars, including Benedict (1975), have used Thai to refer to a wider (Tai) grouping and one sees
designations like Proto-Thai and Austro-Thai in earlier works. In the institutional context in Thailand, and occasionally elsewhere, sometimes Tai (and its corresponding Thai-script spelling, without a final –y symbol) is used to indicate varieties in the language family not spoken in Thailand or spoken there only as the result of recent immigration. In this usage Thai would not then be considered a Tai language.

On the other hand, Gedney, Li and others have preferred to call the standard language of Thailand Siamese rather than Thai, perhaps to reduce potential Thai/Tai confusion, especially among English speakers not comfortable with making a non-English initial unaspirated voiceless initial sound for Tai, which in any event might sound artificial or arcane to outsiders.

Moreover, Lao scholars I have met are not pleased with Lao being regarded as a Tai language. For some, Thai should instead be considered a member of the Lao language family. One or more Ancient Chinese characters for ‘Lao’ may be cited in support of this alternative appellation. Enfield (2002) discusses the critical issues here with clarity.

Tai in the sense Li has used it is now so widely accepted as to be the norm. The Tai language family in turn is taken as a major sub-branch of Kam-Tai within the greater grouping Tai-Kadai. Finally, whether Tai-Kadai is to be regarded as an isolate or whether it might be placed in some more ambitious macro-family with a designation like Sino-Tai or Austro-Tai is still a matter of great interest and current professional debate, as papers in this volume will attest.

Kadai as a term raises problems of its own. At least one Thai scholar has objected to Kadai (Ostapirat 2000, 2004), noting that it seems to mean ‘ladder’ in Thai. Another possibility, equally inappropriate, is that given a voiceless rendition of Kadai’s second syllable, i.e. to sound something like Tai, and given the right vowel-length and tone, Kadai could be mistaken for the Thai or Lao noun ‘rabbit’. Furthermore, as though to complete a tortoise-and-hare scenario, it seems that Kra, Ostapirat’s suggested term to replace Kadai, in Thai actually sounds like a noun referring to a large maritime turtle, Chelonia imbricata. However, in spite of a slow start, Ostapirat’s tortoise entry Kra may yet overtake the Kadai hare and win the terminological race. If so, would Tai-Kadai need to become Tai-Kra (or could we perhaps settle for something less inventive like Tai-Gelao)?

The original rationale for Benedict’s (1942, 1975) invention of Kadai was apparently to group languages of the Hlai (Li) type on Hainan Island together with the Gelao-Laha type in mainland China and Vietnam, but it would now appear that the case is rather weak for recognizing that particular subgrouping as a unified branch (by whatever name). Reinterpretation of Kadai to avoid the subgroup claim is one reasonable approach. Kadai in a new sense may be restricted to languages of the Gelao-Laha group (i.e. Kra or Geyang); an opposite possibility is to use it to denote the entire (Tai-Kadai) grouping.

Readers interested in ramifications of these terminology issues and in associated subgrouping proposals, debates and related diagrams might consult Edmondson and Solnit (1988, 1997); Thurgood (1994); Luo (1997, 2007); Diller (2000); Ostapirat (2000, 2004); Matisoff (2001); Edmondson (2007). These sources can be complemented with chapters in this volume. For convenience, one tentative diagram for reference follows but it should not be considered the final picture.
REFERENCES


CHAPTER TWO

SINO-TAI AND TAI-KADAI: ANOTHER LOOK'

Yongxian Luo

2.1. INTRODUCTION

A key issue in Sino-Tibetan studies is the historical link between Chinese and Tai — whether or not they are genetically related. While there is no question about the status of Tai as a distinct language family (Li 1977), the nature of Sino-Tai relationship is still much debated. Opinions can be divided into three camps: (1) Sino-Tai (De Lacouperie, Maspero, Wulff, Li, Haudricourt, Shafer, Denlinger, Xing, Zhengzhang); (2) Austro-Tai (Schlegel, Benedict); 2 (3) Sino-Tibetan-Austronesian (Sagaart, Reid, Xing). The Sino-Tai hypothesis assumes the membership of Tai under Sino-Tibetan while the Austro-Tai theory argues for a genetic relationship between Tai and Austronesian. The Sino-Tibetan-Austronesian hypothesis proposes a larger phylum that includes Chinese, Tai-Kadai, Miao-Yao, and Austronesian. In addition, there are still others who believe in none of these ideas (Gedney 1976, Thurgood 1994).

Western researchers now generally accept the Austro-Tai theory, but many scholars in China hold the traditional view of Sino-Tai alliance. Some of them consider the Sino-Tai connection to be the result of language shift (Dai and Fu 1995, Luo Meizhen 1992, 1994). Scholars in the field generally postulate the time depth of Tai to be around 2500 years, and place the homeland of the Tai people somewhere in south China’s Guizhou-Guangxi- area (Gedney 1965, Matisoff 1991, Wyatt 1984). Archaeological finds seem to lend support to these arguments. 3 Yet no coherent and systematic account of the history of the Tai people is readily available in early Chinese sources. This is not surprising, as south and southwest China was strange to the early Chinese settlers in the Central Plain. From the fragmented historical records that we can piece together, south China is home to the Bai Yue 百越/百粤 (Hundred Yue), a group of indigenous non-Chinese peoples who inhabited the vast area along the coast as far north as Shandong and south down to the Yangtze basin and west to as far as present-day Sichuan province.

Chinese historical sources indicate that when Qin Shihuang conquered Lingnan in 224 BC, the vast area was inhabited by non-Chinese speaking peoples, some of whom must have been the ancestors of Tai speakers. After Qin and Han dynasties, more systematic accounts were kept of these non-Chinese speaking populations. Barlow (2000a, 2000b) has synthesized these accounts, with an emphasis on the Zhuang people in Guangxi. Several independent studies on this topic have also appeared (Wang 1993, 1998, Xing 1984).

1 An earlier version of this paper was presented at a seminar at the Research Centre for Linguistic Typology of La Trobe University in November 2005. The author wishes to thank the participants for useful feedback. This study is supported by a research grant from the Australian Research Council (DP209445).
2 Matisoff (2001: 297) holds a sceptical view about this and other high-order groupings, while in the same paper (p. 316) he is treating it as a supergroup when talking about the Chinese tonal influence on Tai-Kadai, Hmong-Mien and Vietnamese.
3 For a survey on Yueh Neolithic, see Meacham 1983: 147-148.
The linguistic evidence seems to suggest that the Bai Yue were made up of at least two subgroups: one which spoke Austroasiatic-related languages and another that spoke Tai and Hmong-Mien-related languages (Norman and Mei 1976, Li Jingzhong 1995, Pan 1995, La Polla 2001). This has led to the assumption that the Kam-Tai people were generally a subset of the Bai Yue, a view that is gaining increasing acceptance.

The aim of this chapter is to present an update overview of the issue of Sino-Tai connection. It first offers a critical assessment of the different views of the Sino-Tai link, followed by discussions of current progress. More importantly, this study will reassess Li Fang-Kuei’s 1976 position paper on Sino-Tai. Some of the issues raised in that paper will be addressed, such as shared morphological features and grammatical processes. Special attention will be paid to Li’s comparative method and Benedict’s teleo-reconstruction. Some new findings will be presented. The intention is to shed new light on the issue of the nature of historical relationship between Chinese and Tai.

2.2. THE SINO-TAI HYPOTHESIS: A REVIEW OF DIFFERENT THEORIES

2.2.1. Shared typological features between Chinese and Tai

Whatever their ultimate relationship may turn out to be, Chinese and Tai have the following features in common:

1) They share the same number of phonemic tone classes, commonly referred to as A (level), B (departing), C (rising), and D (those ending in final -p, -t, -k); regular correspondence can be established between Chinese and Tai for each of these tonal classes;
2) They share four classes of initials based on type of articulation, i.e. voiceless, half voiceless, voiced, half-voiced;
3) They share correlations between initials and tones, i.e. different initial consonants go with different tones, and the tones in turn affect the voicing of the initial consonants;
4) They share similar rhyme groups (Chinese she 撷);
5) They share a significant number of lexical items, including a considerable amount of ‘core vocabulary’; 4
6) They share many typological features in various aspects of grammar, including word order, phrase structure, semantic space and syntactic constructions. 5

Some of the above features have been used by Denlinger (1989) as ‘formal proof’ for a Sino-Tai genetic relationship. Particularly important is lexical sharing, which supplies invaluable information for Old Chinese reconstruction. For example, Tai reflexes have been used in the reconstruction of initial clusters for Old Chinese (see discussion in §2.3 and §2.4 below). While some of the above Sino-Tai common traits appear to display areal features (see Matisoff 2001), others are unique to Chinese and Tai. As we shall see below, there is still further evidence that points to a deep Sino-Tai historical connection.

2.2.2. The traditional view on the Sino-Tai link and competing theories

2.2.2.1. De Lacouperie and Wulff

Before the publication of Paul K Benedict’s 1942 article, ‘Tai, Kadai, and Indonesian: a

4 This observation is different from the views held by Benedict (1975) and others (Ostapirat 2005).
5 These include a number of grammaticalised items and functional operators, such as case markers such as 要 yào - Tai ʔau A1 (instrumental, manner); tense and aspect markers 了 liăo (perfective) Tai ʔui 欲 - Tai yaak (irrealis), 作/著 zhù -Tai ʔu (progressive); 过 guò - Tai kwa B1 (past, experiential), and many negative words (Luo 1997: 98-99), among others.
new alignment in Southeast Asia’, it was taken for granted that Tai was a member of the Sino-Tibetan stock. The traditional view of Sino-Tai alliance was based on the fact that Tai shares with Chinese many typological similarities, both in phonology and grammar, along with a substantial number of lexical items.

De Lacouperie (1883) did pioneering work on Sino-Tai genetic relationship. He put forward over 30 cognate words for what he called the Tai-Shan and Kunlunic (Sino-Tibetan) stock. His thesis set a corner stone for the traditional theory on the Sino-Tai.

Wulff (1934) undertook a systematic study on Sino-Tai connection. This impressive work, using the comparative method, proposed a possible genetic relationship between Chinese and Tai on the basis of over 600 carefully worked-out cognate sets. But Wulff’s findings have been interpreted in different ways by scholars. Many researchers, including the present writer, would view them as evidence for a Sino-Tai link, while others, for example, Egerod (1976) and Benedict (1942, 1975), would consider them as evidence for language contact rather than genetic relatedness.

Perhaps the most significant finding of Wulff’s work was his discovery of tonal correspondence between Chinese and Tai. Both Chinese and Tai have three tonal categories in open syllables, conveniently labelled as A, B, and C. Regular correspondence can be established between Chinese and Tai for these tone classes, as in Table 2.2.2.1-1:

<table>
<thead>
<tr>
<th>Chinese tones</th>
<th>Tai tone categories</th>
<th>Thai tones</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ping (p’ing) [level] (unmarked)</td>
<td>A</td>
<td>(unmarked)</td>
</tr>
<tr>
<td>Qu (ch’ü) [departing] (marked by -h)</td>
<td>B</td>
<td>mai eek</td>
</tr>
<tr>
<td>Shang [rising] (marked by -x)</td>
<td>C</td>
<td>mei thoo</td>
</tr>
<tr>
<td>Ru (ju) [entering] (marked by -p -t -k)</td>
<td>D</td>
<td>(unmarked)</td>
</tr>
</tbody>
</table>

Each of these categories is further divided into two allotones, one for high register (A1, B1, C1) and the other for low register (A2, B2, C2). A similar distinction can be observed in syllables with final stop ending (D1, D2). This scheme has been adopted by scholars in the field for comparative work. Xing (1962) expanded these lines of arguments.

2.2.2.2. Li’s position paper on Sino-Tai

Li made his first pronouncement on the Sino-Tai genetic relationship in 1938, but a full position paper did not appear until 1976. With a sample of over 120 Sino-Tai cognates, Li presented some of the most convincing arguments for a genetic link between Chinese and Tai. Included in his database are sets of regular sound correspondences, and a significant number of core vocabulary items, such as body-part terms (blood, head, eye, arm, neck, shin, skin, flesh, leg), terms for nature and environment (sun, fog, hot), kinship terms (father, mother), everyday words (cut, chop, dig, split, soak, cooked/ripe), among others. These were analyzed and discussed in the context of genetic relationship. Tonal irregularities were considered to be an important feature between Chinese and Tai. In addition, partial correspondences were also proposed as cognate candidates. Thus, a link can be made between Chinese 鼓 ‘drum’ (OC *kag, MC kɔ', and MSC gu3) and Tai *klɔg, and between Chinese 胃 ‘stomach’ (OC *dag, MC tɔ', MSC du4) and Tai *dɔŋ C2, and between Chinese 補 ‘to mend’ (OC *pag, MC pɔ', MSC bu3, Proto Tai *fɔŋ A1).

It is important to note that Li was employing the standard comparative method in mining Sino-Tai cognates. His methodology is in stark contrast to Benedict’s tele-reconstruction (see

6 Old Chinese reconstructions are from Li (1971 [1980]); Middle Chinese reconstruction is from Pulleyblank (1991) and Proto-Tai reconstruction is from Li (1977).
Li’s identification of cognacy between Chinese and Tai was based on his profound knowledge of the phonological systems of Chinese and Tai. He was well aware of the differences between the tonal, isolating Chinese/Tai languages and the inflectional, non-tonal Indo-European languages. His working criteria are best exemplified in his *Studies on Archaic Chinese Phonology* (1971) and *A Handbook of Comparative Tai* (1977). His methods have served as a model for Chinese and Tai linguistics, with many followers, Chinese and western.

Li’s position remains influential among Chinese linguistic circles. His paper has raised many important questions, some of which still await to be answered, a point we shall return to shortly in §2.3 and §2.4.

2.2.2.3. *Haudricourt and Manomaivibool*

Haudricourt’s 1974 work appeared as Chapter 29 in the five-part *Introduction to Sino-Tibetan* (1966-1974), edited by Robert Shafer who unequivocally grouped Tai under Sino-Tibetan. With data from 14 Tai dialects, including Siamese, Lao, Shan, Black Tai, White Tai, Tho, Nung, Po-ai, and Wuming, along with data from Sui, Mak, Be and Li, this work represented one of the most serious attempts at the reconstruction of Proto Daique (Daic). Sound correspondences have been carefully worked out for tones, initials, and finals, using the standard method of comparative linguistics. Frequent reference was made to Chinese, with several dozen good Sino-Tai cognates proposed, indicating the author’s agreement with the editor’s view on the genetic affiliation of Tai with Sino-Tibetan. Unfortunately, the work is riddled by too many typographical errors, due to the negligence of the type setter/copy editor.

Manomaivibool (1975) is yet another full-scale study on the Sino-Tai link along the lines of Wulff. This impressive work has postulated over six hundred correspondence sets between Chinese and Thai, some of which were also found in Wulff and Haudricourt. But unlike Wulff and Haudricourt, Manomaivibool examined Thai correspondences by comparing them with Karlgren’s and Li’s reconstructions of Old Chinese and Middle Chinese. The results were revealing: Thai reflexes are found to map in part with Old Chinese (the first half of the first millennium BC) pronunciation and in part with Middle Chinese (6th–11th AD, typically reflected in *Qieyun*) pronunciation. The findings have important ramifications for the reconstruction of Old Chinese, Middle Chinese, and Proto-Tai.

2.2.2.4. *Xing Gongwan: Handbook of Comparative Sino-Tai*

Xing’s *Handbook of Comparative Sino-Tai* (1999) is an impressive work on the topic. With over 900 proposed cognates between Chinese and Tai, the book has significantly expanded the Sino-Tai lexicon along the lines of Li (1976). The overwhelming majority of the cognates are found in Li’s HCT, indicating that over 70% of Proto-Tai lexicon has Chinese links. A significant number of the shared cognates are proposed for the first time, such as Chinese 落 (Old Chinese *phj âm*) ‘rain’, Proto-Tai *fon A1; Chinese 瞳 (OC *phat) ‘blind’, PT *bot D1; Chinese 捅 (OC *m ¿g) ‘hand’, PT *mue; Chinese 嚼 (OC *g ¿g) ‘to bite, gnaw’, PT *kat D1. Also worth noting is the fact that Tai often retains earlier meaning of words or forms which are found in Old Chinese but which are now out of use in modern Chinese, eg. Chinese 元 (OC *pujan) ‘day’, PT *van A2; Chinese 傈 (OC *yek) ‘hungry’, PT *jaak D1; Chinese 叱 (OC *kan) ‘night, evening’, PT *yion A2. For Xing, the existence of words of this kind is testimony to a Sino-Tai genetic relationship.

One is struck by the regular patterns of phonological correspondences Xing has set up for Chinese and Tai. Apart from the comparative method — albeit sometimes a bit loosely applied, Xing also adopts a semantic approach. For him, a deep semantic match can better reveal a deep historical connection. He has summarized three kinds of parallel correspondences between Chinese and Tai: (a) allophones, (b) synonyms, and (c) word families (Xing 1999: 499; see §2.4.3 for more discussion). For instance, Chinese 溺 (OC *tsj âm) ‘soak’, Dai Ya tºum B1 (PT *ºum B1), Chinese 湖 ‘flood’ (OC *dr ¿m), Dai Ya thum A2
While Xing’s method of semantic differentiation has many merits in it, he probably has stretched it a bit too far in places. For this reason, he has been criticized by a number of scholars (Ting 2000, Nie 2002, Mei 2003). Despite this, this work will remain an important source of reference for scholars in the field.

2.2.2.5. Recent works

Very recently, Gong (2002) built on Manomaivibool’s work by reexamining different layers of Sino-Thai cognates — those that correspond to Old Chinese and those that correspond to Middle Chinese. His findings have extended Manomaivibool’s thesis. Ting (2002) reevaluated Li’s 1976 position, citing supporting evidence from recent progress in Chinese historical linguistics, as did Pan (2002), who considered Sino-Tai link in a wider context. Lan (2003), too, was concerned with different strata of Sino-Tai words. Unlike Gong and Manomaivibool, Lan’s focus is on the sound correspondences between Chinese and the Zhuang dialects in South China’s Guangxi province, which is the largest group of Tai speakers in China inhabiting. By comparing Tai forms with Old Chinese and Middle Chinese reconstructions by earlier scholars, he was able to draw a rough picture of the linguistic interaction between Chinese and the Zhuang at different stages in history. Zeng (2004) was tackling a similar issue of the genetic relationship between Chinese and Sui — a member of the Kam-Sui group with which Tai is closely related. Like Manomaivibool, Gong and Lan, she was looking at two types of related words between Chinese and Sui, words that reveal a deeper historical connection and words that point to late contact. The results led her to the belief that Chinese and Sui are genetically related.

At the time of writing, the present writer (forthcoming) has identified some 400 extra putative Sino-Tai cognate words that are not included in Manomaivibool’s work. He (Luo 1997b, 1998) has also discovered patterns of regular sound correspondences between Chinese and Tai in the phonetic series of sibilants and liquids as well as sibilants and velars, which lend further support to the xiesheng contact in Old Chinese as also revealed in some of the characters. The Tai correspondences lend strong support to the idea of existence of a sibilant complex in the proto language. In several papers (Luo 2003, 2004, 2005, 2006), he also looked at Sino-Tai sharing in morphological processes. All this was overlooked in the past. Some of his main findings will be discussed below in §2.3 and §2.4.

2.2.3. Benedict’s Austro-Tai theory and his method of tele-reconstruction

Benedict’s Austro-Thai Studies (1975) was a reaffirmation and expansion of his 1942 paper, which was probably inspired by Schlegel who proposed to separate Tai from Sino-Tibetan. In both works, Benedict vehemently argued for a realignment of Tai-Kadai, first placing it with Indonesian (1942), and later linking it to a larger phylum — Austro-Tai. In his latest theory (1990), Japanese was added to the super stock, forming an even larger alliance.

The Austro-Tai hypothesis has fundamentally challenged the traditional view of the Sino-Tai genetic link. For this reason, it has sparked controversies, and generated heated discussion (see Volume 6 [1976] of Computational Analysis of Asian and African Languages). Authorities have different views on the validity of Benedict’s claims. For example, Egerod (1976) supported and accepted Benedict’s reconstructions while Haudricourt (1976) was somewhat lukewarm in his reaction. On the other hand, Benedict’s approach was strongly criticized by Gedney (1976), who cited evidence from Tai to show that on many occasions Benedict’s reconstructions were inadequate. Even Benedict’s ardent supporter, Matisoff, had some reservations about such ‘megalo-comparison’ (Matisoff 1990: 115) and Benedict himself cheerfully admitted himself to be a ‘lumper’ (Benedict 1990: 169).
One of Benedict’s arguments was that the typological similarities between Chinese and Tai are the result of contact rather than genetic inheritance. Yet it must be pointed out that Benedict’s thesis was constructed on the basis of tele-reconstruction, which was ‘characterized by loose resemblances, semantic leaps and the making up of maximal earlier forms to account for cognate relationship without working out sound correspondences through step-by-step comparison’ (Diller 1998: 22). Controversial as it was, Benedict’s work opened up new horizons in the field. Its significance was still being evaluated and appreciated (Thurgood 1985, 1990, Reid 1988).

2.2.4. Sino-Tibetan-Austronesian and Kadai-Austronesian

2.2.4.1. Sagart’s Sino-Austronesian hypothesis

As mentioned in §2.1, Laurent Sagart was a strong proponent of the Sino-Austronesian hypothesis. In a paper published in 1993, he proposed several dozen putative cognates between Chinese and Austronesian, claiming that the two languages are genetically related. Since Tai was viewed as a member of Sino-Tibetan, naturally it belonged to this Sino-Austronesian stock.

In a recent paper Sagart (2005b) has changed his earlier position to connect Tai with Austronesian rather than with Sino-Tibetan, although he still maintains that Sino-Tibetan and Austronesian are genetically related. In his current view, Tai-Kadai is a subgroup of Austronesian. What makes him change his mind is that ‘one set of words suffices to show that at least some vocabulary is genuinely shared by Tai-Kadai and AN, not as a result of chance’ (2005b: 177). Sagart’s set of Kadai-Austronesian cognates is made up of three lexical items (ibid: 178):

<table>
<thead>
<tr>
<th>PAN</th>
<th>PMP</th>
<th>Tai</th>
<th>Lakkia</th>
</tr>
</thead>
<tbody>
<tr>
<td>die</td>
<td>maCay</td>
<td>matay</td>
<td>t::i⁵</td>
</tr>
<tr>
<td>eye</td>
<td>maCa</td>
<td>mata</td>
<td>ta⁵</td>
</tr>
<tr>
<td>bird</td>
<td>–</td>
<td>manuk</td>
<td>nok⁸</td>
</tr>
</tbody>
</table>

Furthermore, Sagart provides a piece of supporting evidence that there is a reversal in the singular and plural number with the second person pronouns between Proto-Austronesian and Proto-Tai-Kadai:

<table>
<thead>
<tr>
<th></th>
<th>PAN</th>
<th>PKT</th>
</tr>
</thead>
<tbody>
<tr>
<td>2sg</td>
<td>Su</td>
<td>*mou</td>
</tr>
<tr>
<td>2pl</td>
<td>-mu</td>
<td>*sou</td>
</tr>
</tbody>
</table>

On the basis of evidence of this kind, Sagart concludes that ‘Tai-Kadai has its origin in an early AN language called here ‘AAK’. AAK was a daughter language of PAN, and a close relative of PMP.’ (ibid: 180)


2.2.4.2. Kadai-Austronesian

In an impressive paper, Ostapirat (2005) has made what would appear to a convincing case for a genetic link between Kra-Dai (his term for Tai-Kadai) and Austronesian by
gathering new data from the Tai-Kadai languages in China and Vietnam and comparing with Austronesian. 50 carefully selected putative cognate words are cited for Tai-Kadai, of which 20 are on Yahontov’s 35 basic word list, and 42 on Swadesh’s 100 basic word list. Of these 50 Tai-Kadai core lexical items, 26 are found to have Austronesian connection. Among the 26 possible cognate items, 9 are not on the Swadesh’s list.

Ostapirat’s proposed Tai-Kadai-Austronesian etyma are listed below.

<table>
<thead>
<tr>
<th>Gloss</th>
<th>PAN</th>
<th>PKd</th>
</tr>
</thead>
<tbody>
<tr>
<td>eye</td>
<td>maCa</td>
<td>m-ʔa A</td>
</tr>
<tr>
<td>fart</td>
<td>qe(n)tut</td>
<td>C-tot D</td>
</tr>
<tr>
<td>hand</td>
<td>(qa)lima</td>
<td>mja A</td>
</tr>
<tr>
<td>leg</td>
<td>paqa</td>
<td>C-ka A</td>
</tr>
<tr>
<td>shoulder</td>
<td>qabaRa</td>
<td>*m-ba B</td>
</tr>
<tr>
<td>bear (n.)</td>
<td>Cumay</td>
<td>C-me A</td>
</tr>
<tr>
<td>louse (head)</td>
<td>kuCu</td>
<td>C-ʔu A</td>
</tr>
<tr>
<td>sesame</td>
<td>lenja</td>
<td>l-ŋa A</td>
</tr>
<tr>
<td>moon</td>
<td>bulaN</td>
<td>m-djyan A</td>
</tr>
<tr>
<td>black</td>
<td>tidem</td>
<td>hl/dsm A</td>
</tr>
<tr>
<td>eat</td>
<td>kaen</td>
<td>kan A</td>
</tr>
<tr>
<td>grandmother</td>
<td>aya</td>
<td>ja C</td>
</tr>
<tr>
<td>1</td>
<td>aku</td>
<td>ku A</td>
</tr>
<tr>
<td>excrement</td>
<td>Caqi</td>
<td>kai C</td>
</tr>
<tr>
<td>grease</td>
<td>SimaR</td>
<td>mal</td>
</tr>
<tr>
<td>head</td>
<td>qulu</td>
<td>krai B</td>
</tr>
<tr>
<td>nose</td>
<td>ijun</td>
<td>ʔen</td>
</tr>
<tr>
<td>tooth</td>
<td>nipen</td>
<td>l-ʔen</td>
</tr>
<tr>
<td>bird</td>
<td>majuk</td>
<td>ʔok D</td>
</tr>
<tr>
<td>leaf</td>
<td>(?abag)</td>
<td>Hlai beu</td>
</tr>
<tr>
<td>fire</td>
<td>Sapuy</td>
<td>pui A</td>
</tr>
<tr>
<td>water</td>
<td>daNum</td>
<td>ʔu C</td>
</tr>
<tr>
<td>live, raw</td>
<td>qulip</td>
<td>(k-)ʔep D</td>
</tr>
<tr>
<td>child</td>
<td>aNak</td>
<td>lak D</td>
</tr>
<tr>
<td>this</td>
<td>i-ni</td>
<td>ʔ-ni C/B</td>
</tr>
<tr>
<td>you</td>
<td>kamu</td>
<td>mə A/B</td>
</tr>
</tbody>
</table>

Having established the lexical correspondence, Ostapirat goes on to discuss Kadai tones in Austronesian roots. Following the theories of tonogenesis by Haudricourt and others, he conjectures that Kadai tones might have some correlations with Austronesian syllable types. A comparison between Sagart’s list and Ostapirat’s shows that the correspondences belong to different sets of vocabulary items. A question may now be asked: What is the nature of these lexical items? What can be said about the status of such lexical items? To what extent do they reflect the real picture of genetic relationship? How should we interpret them? In the sections below we shall look at more evidence from the Tai side.

7 Sagart (1993) also postulates over 200 possible cognate words between Chinese and Austronesian, including body part terms like ‘palm of the hand, sole of the foot’ PAn *Da(m)pa, Chinese 䎫 [GSR 102] OC *phag, terms for nature and environments; ‘open expanse of land or water’ PAn *bawaŋ, Chinese 汾 [GSR 707e] *gwaŋ ‘lake, pool’; abstract concepts like ‘to oppose’ PAn *baŋkal, Chinese 奮 [GSR 139ed] *kan or *k-ʔ-an ‘treacherous; disobey; violate’, among others. Some of Ostapirat’s items are also in Sagart’s list, eg. ‘black’, ‘sesame’, ‘to eat’.
2.3. THE ROLE OF TAI IN OLD CHINESE RECONSTRUCTION

Whatever the ultimate relationship between Tai and Chinese may eventually turn out to be, researchers all agree that Tai plays an important role in Old Chinese reconstruction. Scholars in the field are constantly citing Tai materials as supporting evidence (Nishida 1960, Haudricourt 1956, 1974, Li 1970, Benedict 1976, Bodman 1980, Baxter 1992). Indeed, the significance of Tai in OC reconstruction cannot be overestimated, as shall be seen below.

2.3.1. Initial clusters in OC as retained in Tai

It is generally believed that a number of initial clusters should be reconstructed for Old Chinese (Karlgren, Li, Gong, Baxter). The argument behind this is that in Chinese orthography, there are a significant number of xiesheng characters where alternations of stop initials (p, b, t, d, k, g) and liquid /l/ are most common. However, almost no modern Chinese dialect has provided any diachronic link. Much to the comparativists’ delight, Tai supplies valuable information.

One of most frequently-cited examples is the word for ‘indigo’ in Tai. The Chinese cognate of this word, now pronounced with a liquid initial /l/ as 藍 laan in modern Chinese, is orthographically associated with a phonetic series 监, with a velar /k/. One would expect to find a velar cluster of some sort (*kl/r- or *gl/r-) in the modern dialects. Yet no modern Chinese dialects are found to retain such an initial. However, many Tai dialects have graam for this item for which Li has proposed a proto cluster *gr- for Tai, thus attesting the existence of the velar cluster in the proto language.

Another example is the reconstruction of labial clusters *pl-, *bl- for Old Chinese. Chinese orthography also suggests that words like 变 ‘change’ (OC, MC MSC biàn) must have derived from an initial cluster involving a labial stop /p/ and a liquid /l/, as the character has the phonetic element 聞 ‘luan’, pointing to a liquid initial. Kalrgren (1957: 67) has proposed *plian (GSR 178o) for this word. Again no modern Chinese dialects are found to preserve initial *pl-. Much to the comparativist’s delight, many Tai dialects have reflexes containing initial /pl-/, for which Li has reconstructed a labial cluster *pl- for Proto-Tai. The Tai form is undoubtedly related to Chinese.

Norman and Mei (1971) observe that in the Chinese Min dialect, there exist a group of words for which a proto *s- cluster may be proposed. Significantly, Tai again supplies supporting evidence, which points to a deep connection between Chinese and Tai, for which Luo (1997a, b) has proposed a sibilant complex for Sino-Tai (see §2.4.1).

2.3.2. Retention of bilabial initials which have developed into labial-dentals in Modern Chinese

In their admirable studies of Old Chinese phonology, the great Qing scholars have made some important discoveries about the phonological system of Old Chinese. One such discovery was that labial-dental initials were lacking in Old Chinese. Reflexes in some modern Chinese dialects such as Cantonese provide supporting evidence. Significantly, Tai again supplies evidence, which points to a deep connection between Chinese and Tai, for which Luo (1997a, b) has proposed a sibilant complex for Sino-Tai (see §2.4.1).

<table>
<thead>
<tr>
<th>Gloss</th>
<th>Chrt</th>
<th>Pinyin</th>
<th>GSR</th>
<th>OC</th>
<th>MC</th>
<th>Thai</th>
<th>DH</th>
<th>LM</th>
<th>Yay</th>
<th>FS</th>
<th>HCT</th>
</tr>
</thead>
<tbody>
<tr>
<td>cooking</td>
<td>釜</td>
<td>fù</td>
<td>102f</td>
<td>bjag’</td>
<td>bu₉</td>
<td>moo C1</td>
<td>mo</td>
<td>C1</td>
<td>moo</td>
<td>C1</td>
<td>mo</td>
</tr>
</tbody>
</table>
The development of labial sounds into labial-dentals was a feature of late Middle Chinese. The retention of labial initials in Tai indicates a deep historical connection between the two languages.

2.3.3. The reconstruction of final -g for OC: Some supporting evidence

A key feature in Li’s Old Chinese reconstruction is that of the final *-g for a group of rhymes that are represented with open-syllables in Middle Chinese. In Li’s system, we find codas like *-ag, *-ig, *-ng, and *-ug, with no open syllables in Old Chinese except the *-ar (see below). This has been criticized by a number of scholars (Wang 1985) for being typologically implausible and unusual. However, Li must have some reasons to believe that codas of this kind must have existed in early history. The following examples were cited by him (1976: 41):

<table>
<thead>
<tr>
<th>Gloss</th>
<th>Chr</th>
<th>Pinyin</th>
<th>GSR</th>
<th>OC</th>
<th>MC</th>
<th>Thai</th>
<th>DH</th>
<th>LM</th>
<th>Yay</th>
<th>FS</th>
<th>HCT</th>
</tr>
</thead>
<tbody>
<tr>
<td>fog, mist</td>
<td>雾</td>
<td>wù</td>
<td>1109</td>
<td>mjg</td>
<td>h</td>
<td>muòh</td>
<td>mok D1</td>
<td>mok D1</td>
<td>mook D1</td>
<td>mook D1</td>
<td>*hmok D1</td>
</tr>
<tr>
<td>hat, cap</td>
<td>帽</td>
<td>mào</td>
<td>1062</td>
<td>mg</td>
<td>w</td>
<td>mawh</td>
<td>mawh D1</td>
<td>WT</td>
<td>mok D1</td>
<td>muuk D1</td>
<td>–</td>
</tr>
<tr>
<td>skin, bark</td>
<td>肌</td>
<td>fů</td>
<td>69g</td>
<td>pli</td>
<td>ough</td>
<td>può</td>
<td>pliak D1</td>
<td>pök D1</td>
<td>puuk D1</td>
<td>pyaak D1</td>
<td>*pliak D1</td>
</tr>
<tr>
<td>forehead</td>
<td>额</td>
<td>lú</td>
<td>69p</td>
<td>blag</td>
<td>l</td>
<td>phaaak D1</td>
<td>phaaak D1</td>
<td>phaaak D1</td>
<td>pyaak D1</td>
<td>pjaak D1</td>
<td></td>
</tr>
</tbody>
</table>

The first and the second examples are in the traditional Chinese 候部 and 幽部 respectively, and the last two examples in the 鱼部. In our data, many more examples of this type are found in Tai, lending support to Li’s reconstructions.

<table>
<thead>
<tr>
<th>Gloss</th>
<th>Chr</th>
<th>Pinyin</th>
<th>GSR</th>
<th>OC</th>
<th>MC</th>
<th>Thai</th>
<th>DH</th>
<th>LM</th>
<th>Yay</th>
<th>FS</th>
<th>HCT</th>
</tr>
</thead>
<tbody>
<tr>
<td>place, region</td>
<td>處</td>
<td>chù</td>
<td>85a</td>
<td>thjag</td>
<td>te^io^h</td>
<td>thïak D2L</td>
<td>–</td>
<td>–</td>
<td>tuuk D2L</td>
<td>tuuk D2L</td>
<td>*dïek D2L</td>
</tr>
<tr>
<td>child</td>
<td>子</td>
<td>zǐ</td>
<td>964a</td>
<td>tsjag</td>
<td>tsi/tsi</td>
<td>tuuk D2L</td>
<td>luk D2</td>
<td>lok D2</td>
<td>luk D2</td>
<td>luk D2</td>
<td>*lïuk D2L</td>
</tr>
<tr>
<td>base, foundation</td>
<td>基</td>
<td>jí</td>
<td>952g</td>
<td>kąg</td>
<td>ki/ki</td>
<td>kok D1S</td>
<td>kok D1S</td>
<td>kuk D1S</td>
<td>kok D1S</td>
<td>kok D1S</td>
<td>*kok D1S</td>
</tr>
<tr>
<td>carry on shoulder</td>
<td>负</td>
<td>fũ</td>
<td>1000a</td>
<td>bjag</td>
<td>buw’</td>
<td>bek D1L</td>
<td>mek D1</td>
<td>meek D1L</td>
<td>–</td>
<td>–</td>
<td>*bëek D1L</td>
</tr>
</tbody>
</table>
These examples show that Li’s proposed reconstructions are not groundless speculations.

2.3.4. Unique correspondences: The case of ‘five’, ‘goose’, ‘gill’, ‘six’

In his 1976 paper, Li raised a question which has not been seriously addressed until quite recently (Ting 2002). Li’s question has to do with a unique sound correspondence between Chinese and Tai in words like ‘five’, ‘six’, ‘goose’, and ‘fish gill’. These lexical items take the velar nasal *ŋ- in OC, where Tai correspondences show a laryngeal fricative *h: ‘goose’ OC *ŋaʊn, PT *ŋaan B1, ‘five’ OC *ŋa C, PT *ŋa C1, and ‘gill’ Chinese *ŋaʊk, PT *ŋaʊk.9 To date no Chinese dialects have been found to display correspondences of this kind. Similarly, ‘six’ is reconstructed as *ljok in OC with a liquid initial. In Tai it shows a laryngeal fricative in Thai as hok D1, and a liquid lŋk in Po-ai, reconstructed as *xrok D1 in HCT. These types of sound correspondences are not found in loan words. They are cited by Li as solid evidence in support of Sino-Tai link.

2.3.5. Shared innovation: Finals *-l and *-r

Among the unsettling questions in Old Chinese reconstruction, the reconstruction of finals *-l and *-r is perhaps the most controversial. If these sounds once existed in history, one may expect to find some traces among the modern dialects. But so far, no reflexes among the numerous modern Chinese dialects are found to exhibit traces of these elements.

Two issues are involved here. The first has to do with the development of the traditional ge rhymes 歌部 which was reconstructed as *-ar by Li Fang-Kuei (1971). Karlgren also reconstructed part of the ge rhymes as *-ar in GSR. The second issue has to do with the reconstruction of final *-r for Old Chinese.

2.3.5.1. The ge rhymes and *-l

Li’s reconstruction of *-ar for the ge rhymes is accepted by Gong (1993) and Pan (2007), who slightly revised it into *-al. Baxter (1993) proposed *-ei for this rhyme on the basis of reflexes from a number of modern dialects as well as Sino-Vietnamese and Sino-Korean forms. Baxter’s reconstruction is questioned by Pan (2000, 2007), who believes that it fails to account for the final -i since there were already rhymes that had been reconstructed as such for Old Chinese. For Pan, Li’s reconstruction has more explanatory power in that it can elegantly explain -i as lenition of *-l.

If Pan’s hypothesis of final *-l lenition is correct, Tai supplies additional evidence. In Tai, a significant number of cognate words with final -i correspond to the traditional 歌 rhyme for Old Chinese. The following examples illustrate:

---

8 Not included in HCT.
9 The majority of Tai dialects take the laryngeal /h/ for this item, except Siamese and Po-ai, which side with Chinese in taking /ŋ-/.
These are not confined to the traditional -ar rhyme. Luo (2006a, 2006b) offers over a dozen more Tai examples that are proposed to be related to several other rhymes in Old Chinese. The forms invariably take final -i in Tai, which cannot be treated as chance occurrence.

2.3.5.2. OC final *-r and Saek -l

From xieszeng contact and internal evidence, along with early Sanskrit and Sino-Japanese pronunciations, Pan (2007) postulates a final *-r for Old Chinese, which has developed into -n in the modern dialects.

It is well-known that Saek, a displaced Northern Tai language now spoken in Nakhon Phanom in Thailand, has preserved an archaic final -l. It is worth noting that this final -l is found to correspond to final -n in other Tai dialects. Final -l also occurs in Laha, a member of the Geyang group within Kadai. Characteristically, a significant number of words taking final -l in Saek are found to correspond to the traditional Chinese 元部 (-an) and 文部 (-an) rhymes.

Saek words corresponding to the traditional Chinese *-an rhymes include:

<table>
<thead>
<tr>
<th>Saek</th>
<th>Thai</th>
<th>Fengshan</th>
<th>HCT</th>
<th>Gloss</th>
<th>Chrt</th>
<th>GSR</th>
<th>OC</th>
<th>MC</th>
</tr>
</thead>
<tbody>
<tr>
<td>saal1</td>
<td>saan A1</td>
<td>saanA1</td>
<td>*san A1</td>
<td>fine grain</td>
<td>Tsan</td>
<td>154b</td>
<td>tsn</td>
<td>anh</td>
</tr>
<tr>
<td>khial4</td>
<td>hoon A1</td>
<td>-</td>
<td>*hoon A1</td>
<td>cock’s comb</td>
<td>kwan</td>
<td>160a</td>
<td>kwan</td>
<td>h</td>
</tr>
<tr>
<td>tlel1</td>
<td>kron A1</td>
<td>tsen A1</td>
<td>*kruun A1</td>
<td>snore</td>
<td>139</td>
<td>han</td>
<td>xan</td>
<td></td>
</tr>
<tr>
<td>yual6</td>
<td>yuoon B2</td>
<td>jian B2</td>
<td>*juoon B2</td>
<td>pass, extend</td>
<td>203a</td>
<td>rjan</td>
<td>jian</td>
<td></td>
</tr>
<tr>
<td>nsool2</td>
<td>noon A1</td>
<td>noon A1</td>
<td>*hnoon A1</td>
<td>worm</td>
<td>208c</td>
<td>nwan'</td>
<td>nwan'</td>
<td></td>
</tr>
<tr>
<td>sel3</td>
<td>sen C1</td>
<td>专人 C1</td>
<td>(*sen C1)</td>
<td>tread, CLF.</td>
<td>155r</td>
<td>sjan</td>
<td>sian</td>
<td>h</td>
</tr>
<tr>
<td>sel6</td>
<td>san B1</td>
<td>专人 B1</td>
<td>*san B1</td>
<td>tremble</td>
<td>148s</td>
<td>tjanh</td>
<td>tchian</td>
<td>h</td>
</tr>
</tbody>
</table>

---

10 Not included in HCT. Reconstructed by Luo (1997: 244).
11 Not found in HCT. Reconstructed by Luo (1997: 105).
The following are Saek correspondences in OC *-ən rhymes.

<table>
<thead>
<tr>
<th>Saek</th>
<th>Thai</th>
<th>Fengshan</th>
<th>HCT</th>
<th>Gloss</th>
<th>Chrt</th>
<th>GSR</th>
<th>OC</th>
<th>MC</th>
</tr>
</thead>
<tbody>
<tr>
<td>yal^4</td>
<td>khanA1</td>
<td>hanA2</td>
<td>* yan A2</td>
<td>dike</td>
<td>堡</td>
<td>416h</td>
<td>njən</td>
<td>njin</td>
</tr>
<tr>
<td>buñ^3</td>
<td>?bin</td>
<td>?bin</td>
<td>*?bin A1</td>
<td>fly, v.</td>
<td>搏</td>
<td>471e</td>
<td>pʃən</td>
<td>pʰun</td>
</tr>
<tr>
<td>vult^4</td>
<td>fumuN A2</td>
<td>fun A2</td>
<td>*vumuN A2</td>
<td>burn</td>
<td>焚</td>
<td>474a</td>
<td>bʃən</td>
<td>bun</td>
</tr>
<tr>
<td>mul^4</td>
<td>Lao munB2</td>
<td>muen B2</td>
<td>(*umuN B2)</td>
<td>powder</td>
<td>粉</td>
<td>471d</td>
<td>pʃən’</td>
<td>pun’</td>
</tr>
<tr>
<td>sos^1</td>
<td>soOnA1</td>
<td>əoOnA1</td>
<td>*son A1</td>
<td>teach</td>
<td>训</td>
<td>422d</td>
<td>hwʃən</td>
<td>xun^b</td>
</tr>
</tbody>
</table>

Wider connections can be sought with Tibeto-Burman (Matisoff 2003: 383ff) for final *-r for Proto Sino-Tibetan.

### 2.4. PROGRESS AND NEW FINDINGS

#### 2.4.1. The sibilant complex

Sibilant clusters have been reconstructed for Old Chinese and Sino-Tibetan by scholars working in the field. In Li’s reconstruction of Proto-Tai, consonant clusters have been reconstructed for labials (*pl/r, *phl/r, *vl/r, etc.), dentals (*tl/r, *dl/r, *thl/r, etc.) and velars (*kl/r, *khl/r, *xr, etc.), but no sibilants clusters are proposed by Li.

There is strong evidence that suggests sibilant clusters may have existed in Proto-Tai. A number of consonant clusters have been proposed by Luo (1998) as additions to Li’s PT phonemic inventory (*sl-, *sr-, *zl-, etc.). More importantly, regular correspondences can be set up between Chinese and Tai for sibilants and liquids, with several dozen correspondence sets. The sibilant complex points to a deep historical connection between the two languages. Parallel development has been reported from the northern Min dialect of Chinese which displays traces of sibilant clusters (Mei and Norman 1971).

Apart from sibilant + liquid clusters, a parallel sibilant + velar cluster (*sk-, *zg-, etc.) is also found for Chinese and Tai. Luo (1997b) has presented evidence from the Tai side supporting his argument. Some of his Chinese comparisons were used by Li and Benedict in their reconstruction of Old Chinese and Sino-Tibetan, such as ‘smell’, ‘needle’, and ‘feces’.

#### 2.4.2. The issue of basic vocabulary

One of Benedict’s main arguments to keep Tai apart from Sino-Tibetan is that in the area of core vocabulary, the two languages have little in common. The shared lexical items, he argues, are mainly trade terms, numerals and the like, which seem more likely to be loan words. Our data shows that this is not the case. A look at the Proto-Tai lexicon reveals that Tai shares with Chinese quite a large number of basic lexical items, including a sizeable number of body-part terms. Luo (2000) has postulated nearly 70 putative cognates between Chinese and Tai in this lexical field by synthesizing previous works by Wulff, Li and Xing, significantly expanding their inventory. For example:

<table>
<thead>
<tr>
<th>Gloss</th>
<th>Chrt</th>
<th>PY</th>
<th>GSR</th>
<th>OC</th>
<th>MC</th>
<th>Siamese</th>
<th>Yay</th>
<th>HCT</th>
</tr>
</thead>
<tbody>
<tr>
<td>head</td>
<td>首</td>
<td>shǒu</td>
<td>1102a</td>
<td>skhjagwx</td>
<td>çuw’</td>
<td>khlaw C1</td>
<td>caw C1</td>
<td>*klau C1</td>
</tr>
<tr>
<td>ear</td>
<td>耳</td>
<td>ěr</td>
<td>981a</td>
<td>ɲəg’</td>
<td>ɲi/pi</td>
<td>hu A1</td>
<td>ruua A2</td>
<td>*xruxa</td>
</tr>
<tr>
<td>neck, throat</td>
<td>喉</td>
<td>hou</td>
<td>113f</td>
<td>ɣug</td>
<td>ɣaw</td>
<td>khɔɔ A2</td>
<td>ho A2</td>
<td>*ɣɔ A2</td>
</tr>
<tr>
<td>bone</td>
<td>骨</td>
<td>ɡé</td>
<td>766c’</td>
<td>krak</td>
<td>kaijk, kɛːʃk’</td>
<td>duuk D1</td>
<td>dok D1</td>
<td>*ʔdl/ruok D1</td>
</tr>
<tr>
<td>flesh</td>
<td>肉</td>
<td>rōu</td>
<td>1033a</td>
<td>njakwh</td>
<td>ɲuuk</td>
<td>nia C2</td>
<td>no B2</td>
<td>*nǐa C/B2</td>
</tr>
</tbody>
</table>
One may feel rather reluctant to say that words of this kind are entirely loans, as they are rather stable and are generally resistant to borrowing. If such words were excluded from the Proto-Tai lexicon, more than one third of the Proto-Tai etyma would have to go.

In addition to body-part terms, quite a significant number of basic words are found in early Chinese sources, with good correspondences in Tai. The following examples illustrate:

<table>
<thead>
<tr>
<th>Gloss</th>
<th>Chrt</th>
<th>PY</th>
<th>GSR</th>
<th>OC</th>
<th>MC</th>
<th>Siamese</th>
<th>Yay</th>
<th>PT</th>
</tr>
</thead>
<tbody>
<tr>
<td>bird</td>
<td>雉</td>
<td>luò</td>
<td>766g</td>
<td>lak</td>
<td>lak</td>
<td>nok D2</td>
<td>nok D2</td>
<td>*nllok D2</td>
</tr>
<tr>
<td>black</td>
<td>黒</td>
<td>dàn</td>
<td>658n</td>
<td>tamʰ</td>
<td>ʈʰ/ʈʰ</td>
<td>dam A1</td>
<td>dam A1</td>
<td>*ʔdam A1</td>
</tr>
<tr>
<td>white</td>
<td>雪</td>
<td>hào</td>
<td>1139h</td>
<td>ɡəkwh</td>
<td>ɣəw’</td>
<td>khaaw A1</td>
<td>haaw A1</td>
<td>*xaau A1</td>
</tr>
<tr>
<td>dark purple</td>
<td>紫</td>
<td>ɡàn</td>
<td>606k</td>
<td>kam</td>
<td>ɡam’/kam’</td>
<td>kلام B1</td>
<td>cam B1</td>
<td>*kلام B1</td>
</tr>
<tr>
<td>axe</td>
<td>斧</td>
<td>jīn</td>
<td>443a</td>
<td>kjən</td>
<td>kin</td>
<td>kʰwaan A1</td>
<td>vaan A1</td>
<td>*kʰwaan A1</td>
</tr>
</tbody>
</table>

An interesting thing about these words is that none of them are used in modern standard Chinese in their sense except in certain compounds like hào yuè ‘the bright moon’, found primarily in literary language, indicating that they are residues of early usage. Although the same concepts are now represented in different forms in modern Chinese (particularly the colour terms), the connections between the forms are recognizable. Some of these are obviously the original forms of the concepts designated, such as ‘axe’, the graphic for which, 斧 jǐng, apparently a drawing of an axe, was found in oracle bone inscriptions, indicating its antiquity. This graphic serves as the semantic part of current form, 斧 jǐng, a form of much later appearance with a different phonetic shape.

Luo (2002, 2004, 2005, 2007, in preparation) has presented an array of basic vocabulary items from everyday words, which has expanded previous works.

2.4.3. Morphological and orthographical evidence

Although consonant and vowel variations as a mechanism of morphological processes are a well-known phenomenon in Chinese and Sino-Tibetan (Karlgren 1933 Matisoff 1978, 1985), comparative work is scarce between Chinese and Tai. A pioneering work was undertaken by Li in 1978 in which he dealt with a parallel morphological processes between Tai and Chinese in the word group ‘bent/crooked’ and ‘dig’, where he made the following remarks:

The genetic relation of Tai and Chinese needs serious study. The general impression that the phonological structure of these two languages is similar may be considered as an areal phenomenon, but is not necessarily so. The resemblance in vocabulary may be due to loans from one language to the other, but it is hard to prove. The grammatical process of alternating initials may turn out to be an important factor to decide the relationship of Tai and Chinese. (Emphasis added)

Li Fang-Kuei (1978: 406)

12 As an exception, Dong et al. (1984) uses the notion of word families to argue for a genetic relationship between Chinese and Kam-Tai.
Drawing attention to the complexities of the issue of the Sino-Tai link, Li was calling for an in-depth investigation into the phonological and lexical structures of the two languages, proposing morphological processes as a criterion for determining the nature of Sino-Tai historical relationship. By discussing two cognate sets across Tai dialects and comparing them with Chinese, Li has presented evidence for a deep historical connection between these two languages.

In several recent papers (Luo 2002, 2003, 2004, 2005), the present writer has presented further evidence of sharing of morphological processes between Chinese and Tai. Some examples are given below for illustration.

2.4.3.1. ‘Soak’ ~ ‘ooze’ ~ ‘wet’ ~ ‘sink’ ~ ‘submerge’

This group of words are typically represented by sibilant/dental + V + m.

<table>
<thead>
<tr>
<th>Gloss</th>
<th>Chrt</th>
<th>Pinyin</th>
<th>GSR</th>
<th>OC</th>
<th>MC</th>
<th>Thai</th>
<th>DH</th>
<th>LM</th>
<th>Yay</th>
<th>FS</th>
<th>HCT</th>
</tr>
</thead>
<tbody>
<tr>
<td>to soak</td>
<td>浸</td>
<td>jín</td>
<td>661m</td>
<td>tsjəm</td>
<td>triam</td>
<td>tɕim ʼ</td>
<td>tsim</td>
<td>tɕim</td>
<td>sam</td>
<td>chum</td>
<td>sum</td>
</tr>
<tr>
<td>moisten, wet</td>
<td>滲</td>
<td>zhān</td>
<td>618c</td>
<td>tjam</td>
<td>triam</td>
<td>chum</td>
<td>yam</td>
<td>sam</td>
<td>chum</td>
<td>sum</td>
<td>*tɕim ʼ</td>
</tr>
<tr>
<td>dip into</td>
<td>沾</td>
<td>qín</td>
<td>763</td>
<td>tʃəm*</td>
<td>tʃim</td>
<td>tɕim ʼ</td>
<td>tsam</td>
<td>cam</td>
<td>sam</td>
<td>*tɕam ʼ</td>
<td></td>
</tr>
<tr>
<td>sink</td>
<td>沉</td>
<td>chén</td>
<td>656b-d</td>
<td>dzjəm</td>
<td>drim</td>
<td>tɕim ʼ</td>
<td>tsam</td>
<td>cam</td>
<td>cham</td>
<td>sam</td>
<td>*tɕam ʼ</td>
</tr>
<tr>
<td>submerge</td>
<td>滅</td>
<td>qián</td>
<td>660n</td>
<td>dzjəm</td>
<td>dziam</td>
<td>dam</td>
<td>lam</td>
<td>dam</td>
<td>*dam</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

As the above examples show, alternations of historically voiceless vs. voiced initials and tones occur between transitive and intransitive verbs (‘soak’ vs. ‘moisten’; ‘dip into’ vs. ‘sink’, ‘submerge’) for both Chinese and Tai, suggesting the existence of an active morphological process in the proto language.

2.4.3.2. ‘Chop’, ‘cut down’, ‘cut open’, ‘separate, divide’, ‘slash’

This word family prototypically takes a dental + V + t/n for both Chinese and Tai.

<table>
<thead>
<tr>
<th>Gloss</th>
<th>Chrt</th>
<th>Pinyin</th>
<th>GSR</th>
<th>OC</th>
<th>MC</th>
<th>Thai</th>
<th>DH</th>
<th>LM</th>
<th>Yay</th>
<th>FS</th>
<th>HCT</th>
</tr>
</thead>
<tbody>
<tr>
<td>cut fine</td>
<td>朿</td>
<td>tuán</td>
<td>231c</td>
<td>duan</td>
<td>duan</td>
<td>ʈøn</td>
<td>tøn</td>
<td>atoon</td>
<td>tøn</td>
<td>tøn</td>
<td>*tøn</td>
</tr>
<tr>
<td>length section</td>
<td>朿</td>
<td>duán</td>
<td>172a</td>
<td>duanh</td>
<td>duan</td>
<td>ʈøn ʼ</td>
<td>tøn</td>
<td>ton</td>
<td>ton</td>
<td>ton</td>
<td>*tøn ʼ</td>
</tr>
<tr>
<td>cut off</td>
<td>断</td>
<td>duán</td>
<td>170a</td>
<td>duanh</td>
<td>duan</td>
<td>ʈøn ʼ</td>
<td>tøn</td>
<td>ton</td>
<td>ton</td>
<td>ton</td>
<td>*tøn ʼ</td>
</tr>
<tr>
<td>prune</td>
<td>剪</td>
<td>duān</td>
<td>168e</td>
<td>tuan</td>
<td>tuan</td>
<td>ʈøn</td>
<td>tøn</td>
<td>ton</td>
<td>taan</td>
<td>*taan</td>
<td></td>
</tr>
<tr>
<td>short</td>
<td>短</td>
<td>duān</td>
<td>169a</td>
<td>tuanx</td>
<td>tuan</td>
<td>ʈøn ʼ</td>
<td>tøn</td>
<td>tæn</td>
<td>tan</td>
<td>tæn</td>
<td>*tæn</td>
</tr>
<tr>
<td>cut off</td>
<td>陃</td>
<td>duō</td>
<td>295g</td>
<td>truat</td>
<td>twat</td>
<td>tat</td>
<td>tat</td>
<td>tat</td>
<td>tat</td>
<td>tat</td>
<td>*tat</td>
</tr>
</tbody>
</table>

Similarly, we see alternations of initials and tones between verbs and nouns, and between action verbs (cut fine, section, cut off) and adjectival verbs (pruned, short). The variations in finals in Tai ( sockaddr 〈 ə ~ ə ~ i 〉) perhaps point to the effects of lexical diffusion.

2.4.3.3. ‘Wide’ ~ ‘Vast’ ~ ‘Open’

This group of words takes a (labio-)velar initial plus final -aŋ for both Chinese and Tai.
The above examples again show regular correspondences in initials and tones between Chinese and Tai. More significantly still, orthography also plays an important role for the Chinese forms which are in the same xiesheng series sharing the phonetic element, 黄，which typically takes a labio-velar initial and a final -a(a). Examples of this kind supply solid evidence for shared morphological derivations between Chinese and Tai. Indeed such structural sharing cannot be easily explained as the results of contact or chance occurrence. If Li Fang-Kuei is right about the postulating morphological processes as an important criterion for genetic relationship, then the above examples supply strong evidence towards understanding the nature of the historical relationship between Chinese and Tai.

2.5. SUMMARY

Tai represents one aspect of the vast historical drama in ST. It is significant to note that the number of shared items between Chinese and Tai is far greater than between Tai and other languages in the surrounding regions such as Miao-Yao and Tibeto-Burman, indicating a close link between the two languages.

Tai and Chinese have been intermingling for centuries. Whatever the ultimate relationship between Chinese and Tai may turn out to be, Tai reflexes provide an invaluable source of information for the reconstruction of Old Chinese. They complement the vast sources of Chinese dialect data now available. They throw new light on our understanding of the linguistic situation in southern China and the surrounding areas.

Throughout this chapter, no attempts have been made to distinguish between loans from cognate words. Surely, no language is immune to loans. While some of the above-discussed comparanda will eventually prove to be loans, it would be unwise to attribute all of them to loan contact. It is sober to realize that it is often exceedingly difficult to distinguish early loans from inherited items. As Li has pointed out: ‘We have as yet… no criteria to judge what are loans and what are not.’ (1976: 48) A mechanism to separate loans from inherited words is yet to be worked out. More empirical work needs to be carried out before this issue can be resolved.

The following findings can be summarized for this chapter:

1. There is a significantly large number of shared vocabulary items between Chinese and Tai. Contrary to the claims by some earlier scholars, Chinese and Tai share extensively in basic vocabulary. Many of the shared vocabulary items are included in the Proto-Tai lexicon, which cannot be regarded entirely as loans;

The Yay form means ‘village (larger than baan6)’ (Gedney 1991: 198); the Fengshan form means ‘open space in a village; courtyard’.
(2) Derivational morphology is a common feature between Chinese and Tai. It lends strong support to the assumption of a deep historical connection between Chinese and Tai;
(3) The linguistic evidence presented above seems to suggest that the Sino-Tai relationship is a lot deeper than previously thought;
(4) A number of the lexical items in Tai appear to have look-alikes in Austronesian, the nature of which remains to be further examined;
(5) Despite the progress made, the nature of the historical relationship between Chinese and Kam-Tai still remains open.

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PART 2

TAI LANGUAGES: OVERVIEWS AND RESOURCES
CHAPTER THREE

RESOURCES FOR THAI LANGUAGE RESEARCH

Anthony Diller

3.1. INTRODUCTION

3.1.1. Scope

Thai is spoken, at least as a second variety, by well over half of the total of 80 or 90 million speakers of Tai-Kadai languages. In some respects it reflects features of the greater grouping as a whole, but in other ways it is exceptional. Thai is also by far the most thoroughly described member of the group, with accounts going back several centuries. The purpose of this chapter is to call attention to some five hundred studies of Thai grammar and other aspects of the language. This is no means a comprehensive linguistic bibliography, which would need several times as many entries. Studies are selected here because they are representative of ongoing research and because they are useful in providing readers with further bibliography. Some attention is also given to how Thai linguistic research and its subfields have developed historically, including how studies cited relate to broader professional background issues, which also may shift diachronically.

Omitted below are many studies of merit, especially those in languages other than English. In particular, books, theses and journal articles written in Thai have generally not been included even though they contain innovative and revealing linguistic research on the language. Those seriously interested in Thai and in other Tai-Kadai languages will surely need to spend time in Thai university libraries and elsewhere where these illuminating materials are accessible.

The main focus here is on Thai; only a sample of work on Tai, Kam-Tai and Tai-Kadai is included. For further references on the wider family at its different levels, see other chapters in this volume and Huffman (1986a); anthologies edited by Gething, et al. (1976); by Khunying Suriya Ratanakul, et al. (1985, 1998); by Edmondson and Solnit (1988, 1997); and works of Morev (1991); Edmondson (2007); Luo (1997, 2007); Diller (2000); Ostapirat (2000, 2004); Thurgood (2007a). Only selected earlier works of Li, Haudricourt, Gedney, and other pioneers in the field are mentioned here; see Huffman (1986a) for fuller listings.

Thai authors are cited below by family (last) name, with some reluctance. Apologies are due to those who prefer given (first) name citation. As a statistical tendency, last-name citation has been the majority practice among Thai scholars writing for an international linguistics audience, so that is followed here. Such practice is also the norm in scientific and medical writing. Beware however that this contrasts with the humanities where Thai authorities are frequently cited and indexed by given name, a format also followed by many libraries, by Huffman (1986a), and in some other reference works.

Where relevant, several works are mentioned in more than one subsection below for convenience of readers with specific interests. Apologies to readers who find this repetition tedious.

3.1.2. Bibliographies and anthologies

The comprehensive indexical bibliography of Huffman (1986a) includes many works not mentioned here. Bibliographies of Kullavanijaya and Vongvipanond (1984) and of Burusphat (2002) are also of utility.

Many useful papers appear in anthologies and conference proceedings. Of great value and
convenience to Thai linguists are collections of papers presented to conferences of the Southeast Linguistics Society (SEALS) and to symposia in the Pan-Asiatic Linguistics series (PAL; see Luksaneeyanawin, et al., 1992; Premsrirat, et al., 1996) and similar symposia (Bamroongraks, et al., 1988). Other anthologies with a strong Thai grammar focus are edited by Bickner, et al. (1986); Abramson (1997); Tingsabadh and Abramson (2001); Harris, Burusphat and Harris (2007). For earlier anthologies, see Huffman (1986a). There is also treatment of Thai in sources where focus is more broadly Tai-Kadai or Southeast Asian (e.g. Ratanakul, Thomas and Premsrirat 1985).

Ongoing resources to keep in mind are the journals *Mon-Khmer Studies*, *Crossroads*, *Linguistics of the Tibeto-Burman Area*, *Journal of the Siam Society* and *Tai Culture*, as well as publications shown on the website of *Pacific Linguistics*. Journals produced in the Thai university context publish linguistic studies of quality in Thai and occasionally in English, among them: *Journal of Language and Linguistics, Science of Language Papers, Journal of Language and Culture*.

### 3.1.3. Grammars and overviews

A cogent reason to reign in representation of Thai in this volume is the recent publication by Iwasaki and Ingkaphirom (2005) of a splendid reference grammar of the language. Questions linguists may have about the language’s structures and functions will be answered and discussed in this comprehensive and well-indexed volume, with its many examples taken from naturally-occurring speech.

To place Thai grammar in its wider Tai context, I am aware of only one extensive comparative grammar of the Tai languages: the Russian work of Morev (1991). This is a work of insight, fine scholarship and includes an impressive bibliography of Russian sources. Perhaps subsequent research, including that reported in this volume, will stimulate updated comparative Tai or Tai-Kadai grammars.

The earlier reference grammar of Noss (1964), a standard for decades, retains its value with excellent examples and a good index, but today’s readers may need some patience in matters of terminology and orientation. Panupong (1970), developing an initiating/non-initiating distinction, presents an impressive study both of sentence-level syntax and of inter-sentence relations. Her study remains an important milestone for those pursuing structurally-defined relationships. In a rather different linguistic tradition, the Thai grammar (in Russian) of Morev, Plam and Fomicheva (1961) is an earlier landmark analysis also worthy of study. Among grammars written in Thai, my favorite remains Bandhumedha (1979), full of fresh ideas.

For the general reader more comfortable with categories of traditional grammar, a range of pedagogical grammars is available, among which Smyth (2002) is particularly informative, clear and dependable. For a more philological, historical and anthropological account of Thai, consult Anuman Rajadhon (1961, 1981).

For overviews, Haas (1969b) and Li (1974) present concise encyclopedic articles of admirable compactness and lucidity. For more specialized summaries, see Gedney (1967), reviewing Thai research up to that date. More recent overviews, covering the basics of phonology and syntax, include those of Hudak (1987), Bickner (1994), and Diller (2004). Premsrirat (2006) presents a useful sociolinguistic summary.

### 3.2. PHONETICS, PHONOLOGY AND ORTHOGRAPHY

#### 3.2.1. Distinctive units

The consensus of many authorities would admit the following distinctive (phonemic) units in Thai, although transcription systems vary and individual scholars might have alternative views. Prevoiced and lax stops: b, d; voiceless, unaspirated and tense stops: p, t, c, k (‘tense’ here perhaps implying also a simultaneous glottal and oral release; c being alveopalatal and affricated); voiceless aspirated stops: ph, th, ch, kh (ch affricated); nasals: m, n, ng [ŋ]; fricatives and aspiirates: f, s, h; liquids: r, l (distinguished rather tenuously, with sociolinguistic
tendencies towards merger and overcorrection); semivowels w, y [j]. The majority, but not all, scholars in the field admit glottal stop to the consonant inventory but some opt for an analysis in which it becomes predictable; it is generally not shown in the transcription used here. Some consonants show a range of articulations, e.g. as sociolinguistically conditioned. Several initial clusters with second component -r, -l, or -w are permitted but are often simplified in less educated or less careful colloquial speech.

Only voiceless unaspirated stops -p, -t, -k, glottal stop, nasals and semivowels occur in final position. In some systems, final semivowel equivalents are indicated by vocalic diphthongs: [kay] ‘chicken’ may appear as [kaj] or [kai]. The final stops are unreleased, lacking the tense quality of initial p-, t-, k-. The widely-used Haas transcription represents stop finals as -b, -d, -g, but Abramson’s (1972) instrumental studies do not show voicing. Loanwords increasingly introduce finals like -s, -f, etc.

For vowels, nine come in short-long pairs: i i:, u u:, e e:, oe, oe: (mid central or slightly back unrounded [ə] or [ɐ]); o, o>; ae, ae:, a, a:, and o’ o’: (low back unrounded [ɔ]); three diphthongs ia, u’a and ua occur as phonologically long, with short variants found in a few exclamations or in other marginal vocabulary items. Long vowels can occur finally, as can short vowels plus glottal stop.

The five tones are usually described as mid (33), low (11), falling (52), high (45, 55 or 454) and rising (24). For most speakers, the high tone includes glottal constriction, more salient when vowel is long. (Tone is indicated here in superscripts of these paired numbers, in most cases with lexical rather than phonetic values, e.g. X45 represents a contrastive high tone, regardless of its real pitch characteristics; unmarked syllables have so-called neutral tone.)

The preceding phonemic inventory is shown in a romanization differing only in minor respects from the semi-official system prescribed by the Thai Royal Institute. Other systems are encountered, but most approach a one-to-one correspondence with the semi-official system sketched above, including that of Haas (1964, 1969b). Workers in the field soon become used to variation in transcription systems, often merely a matter of symbols used but occasionally indicating more substantial claims as to phonetic detail. More on the phonetic nature of these units and how they are represented follows below.

For general discussion of the Thai inventory, see Tingsabadh and Abramson (1993a, b) and the recent grammars and encyclopedic reviews mentioned above.

Of historical interest is Bradley (1911), apparently the first instrumental analysis of the five Thai phonemic tones, although tones were noted much earlier: La Loubère (1691) counted six. Abramson (1962) marks the professional dawn of modern instrumental research in Thai acoustic phonetics and work of the highest quality by Abramson and colleagues has extended over nearly half a century.

3.2.2. Phonological approaches and overviews

For an overview of studies of Thai phonology up to the mid 1980s, see Rischel (1984). Over several decades, work of L-Thongkum, Lukaneeyawin, Sutadarat, and other Thai colleagues has contributed significantly to progress in Thai phonetics and phonology and those researching these topics would surely need to attend to the full range of their work. Original phonological approaches are developed in these publications, e.g. Lukaneeyawin (1992) explains ‘three-dimensional phonology’. Note also Erikson’s and Gandour’s phonological contributions. Gandour’s work, together with colleagues, spans several decades and constitutes the principal body of neurolinguistic research analyzing how Thai language ability is affected under aphasic or other degenerative neurological conditions.

Redundancy rules constrain tone by patterns of vowel length and whether or not a syllable ends in a stop (referred to as ‘closed’ or ‘open’, or in more picturesque Thai-derived terms as ‘dead’ or ‘alive’). Closed syllables occur only with low, falling and high tones. There are also some sandhi-like rules, e.g. tones shift from the values above in fast speech, with some rising tones becoming high; the long vowels in first syllables of certain compounds are shortened. Example: [kha:ng-lang] ‘behind’, spelling pronunciation; cp. [khang-lang], normal speech. Such rules and debate over some points in the preceding summary are considered in
the classic study of Henderson (1949) and in Lodge (1986); also in work of many authorities noted below.

### 3.2.3. Consonants, vowels and tones

Work of Jimmy G. Harris (e.g. 1972, 1987, 2007) in articulatory phonetics analyzes specifics of the Thai sound system. Exact places and manners of articulation, e.g. of the units transcribed here as [d], [t], [th], [c] and [ch], are established through palatography. Harris provides useful comparisons with other languages and shows how identification of Thai phonetic phenomena has been oversimplified. In an earlier study, Brown (1962, 1965) also makes challenging observations regarding Thai consonant articulations, emphasizing complex articulations and their tonal effects.

Vowels and questions of vowel length are studied from various perspectives in works by Brown, L-Thongkum, Hartmann, Roengpitya, Svastikula and Tuntavatikul. Onsuwan (2000) inspects the stop/vowel interface. Abramson (2001) considers the stability of distinctive vowel length. For pharyngealization, see Henderson (1987); for nasalization, see Beddor, et al., (1999); for states of the glottis such as prephonation and unprephonation, see work of J.G. Harris. Diachronic studies of vowel development are mentioned in 4.5.

Tone and in particular how tone interacts with other phonological elements has stimulated much research in Thai phonetics and phonology. While most authorities concur that citation forms in Thai show five lexical tones, they are also aware that citation values shift in various contexts, leading to different phonological perspectives. In an early study, Leben (1971) argued for a segmental approach to Thai tone. Yip (1982) counters this with a laryngeal tier analysis. An autosegmental approach is outlined by Hoonchamlong (1990). A general overview of Thai tonal issues is given by Erickson (1976), emphasising physiology and by Intrarot (2001), emphasising acoustics; see also Gandour (1976); Robertson (1982). Tone and vowel length are considered by Gandour (1977, 1984), and in a wider comparative context by L-Thongkum and Teeranon and Intajamornrak (2007). Tuntavatikul (1993) studies how consonant onset affects tonal parameters; see also L-Thongkum (1992). Gandour, Potisuk and Harper (1996) discuss stress and vowel length. For tonogenesis, see section 3.4.6.


Closely related is how tone, vowel-length and other properties are manifested in speech-act particles, interjections and the like. Perhaps belonging here too is Cooke’s (1992) discussion regarding a possible sixth tone in Thai. Do these items show phonological properties somewhat different from other lexical material? Chuengkongchoo (1956) is among the earliest studies; Peyasantiwong (1979, 1981, 1986) further develops the analysis; also Lodge (1986). For conjunctions and linker syllables, consult Bee (1975). Chainianee’s (1994) study of filled hesitation pauses breaks new ground in a related area.

### 3.2.4. Psycholinguistics and phonology; phonesthesia

Psycholinguistic investigations of tone include work of Abramson (1971) on whispered Thai and of Van Lanker and Fromkin (1978), who report different neural processing for contrastive speech tone and non-lexical musical tone. Psycholinguistic implications of the range publications of Gandour and colleagues deserve attention.

Perception studies using experimental protocols have often involved comparative as well as psycholinguistic issues. Wayland and Guion (2003) investigate tonal perception among native and non-native speakers. For consonant perception, including voicing issues, see the

General longitudinal and acquisitional studies include Tuaycharoen (1977, 1979) and Imsri and Idsardi (2003). Bilingual acquisition is the topic of Sarawit (1976).

Direct sound-meaning relationships, including sound symbolism, phonesthesias and quasi-morphological or morphophonemic functions of phonological material are the topic of studies by Henderson (1965), Kam (1980) and Chamberlain (1992). These processes seem to be of more importance for Thai than for English, etc., and merit further study.

3.2.5. Orthography and Romanization

For the Thai writing system, Haas (1956), the first complete description in English, remains a useful resource. Danvivathana (1987) presents the system in all of its detail along with historical treatment of how letter shapes and inventories have altered over the centuries. For those simply seeking a practical introduction to Thai orthography, Iwasaki and Ingkapirom (2005) and Smyth (2002) can be recommended, and many pedagogical manuals, CD-ROMs, etc., are available. The encyclopedia entries cited above also contain overviews.

A compact summary of current symbols and basic principles, along with Lao comparisons, can also be found in Diller (1996a). This study includes a historical sound-change rationale for what may seem today like arbitrary and complex system of rules. For more on orthography and diachronic sound change, see section 3.4.6.

Given that the Thai writing system is not only practically efficient but also a longstanding component in the Thai sense of national identity, alternatives have never posed a real threat (Anuman Rajadhon 1961, 1981; Aeosrivongse 1984; Diller 1993, 2002). True, Kings Rama IV and Rama VI each came up with a reformed writing system and a change to romanization was tentatively considered just after political changes of 1932, yet these were never popular options. A few putative simplifications in Thai spelling decreed during the regime of the 1940’s were quickly undone and forgotten (Hudak 1986).

King Rama VI (Vajiravudh, r. 1910-1925) proposed different transcription systems for native words and Indic loans in Thai, his own name, pronounced [wachi^rawut^], providing a good example of the latter type. Thai family names are often romanized this way: through transliterating etymological Sanskrit letter values rather than indicating modern sounds. Owners of Indic-component Thai names of this category have reported to me hesitancy to change romanization for a surname that was royally granted both in Thai form and also as romanized in the King’s etymological-Sanskrit transcription system. Inconsistent application of this two-fold system also accounts for frequently seen toponym pairs like Dhonburi, Thonburi; Ubol, Ubon, etc. (Ronakiat 2007). For more on romanization and transcriptions, including disparagement of the Haas system and apparently phonetics in general, see Prince Dhaninivat (1970).

3.3. SYNTAX AND SEMANTICS

3.3.1. Syntactic typology

Many, but far from all, authorities in the field would concur in a general way with the following first-approximation sketch. Most (including the writer) would also offer qualifications, counter-examples, definitional quandaries and further debate, as is clear from following entries. As to commonly-cited typological parameters, Thai characteristics include basic transitive syntactic order [S + V-trans + O], in more semantic frameworks represented as AVO, and most frequent intransitive order [S + V-intrans]. [V-intrans + S] occurs also occurs in presentational or existential contexts as mentioned below. Understood noun phrases are widely unstated and construed (i.e. are subject to zero anaphora or deletion, etc., depending on analytic framework) and topicalized orders are common. Taken together, these factors give
rise to a number of alternative pragmatically- or functionally-determined surface orders in actual discourse.

Nominal modification order in Thai strongly accords with the inherited Tai pattern [nominal head] + [modifier], with possessives and relative clauses also following head nouns. Interestingly, Indic compounds have introduced a contrasting [modifier] + [nominal head] ordering. Some commercial and institutional NP names use the Indic order: compare Chulalongkorn-mahawithayalay (Indic compound) and Mahawithayalay Thammasat (as though Tai/Thai noun phrase, although components are both Indic); Ao-Thai Gas [a:w11 thay33 kae:s45], ‘Gulf-of-Thailand Gas’, Indic compounding order for the whole NP, but components are etymologically Thai and English; the ‘Gulf-of-Thailand’ subcomponent shows Thai/Tai head-modifier order. (This issue is now strictly academic, given Caltex’s acquisition.)

Prepositions precede their nominals. Many auxiliaries precede their main verb, but others follow. Positioning of lexical items with semantic functions of auxiliaries in English, or at least with translational similarities, is not clear-cut. Sometimes reinforcing correlative auxiliary components are found on both sides of a verb complex, e.g. the progressive aspect sequence [kam33 lang33] X [yu: 11] ‘to be in process of Xing’ (Kulavannijaya and Bisang, 2004); the deontic sequence [sa:24 ma:t52] X [day52] ‘to be able to X’.

Morphosyntactically, as a tonal language with many typically isolating features, Thai retains a core of basic monosyllabic Tai words. However, in the current lexicon this inherited base is statistically overwhelmed by vocabulary from other sources, often polysyllabic with tonally attenuated or perhaps ‘neutral’ reduced syllables. Some prefixal syllables show at least a weak semantic content: [ma-] codes a set of fruit-bearing flora such as [ma-muang52] ‘mango’ and [ma-phra:w45] ‘coconut’. This is transparently compound reduction: [ma:k11], now ‘areca nut’, originally had a wider ‘fruit’ meaning. Compounding of several types is active and common; some sandhi phenomena apply to compounding. Moderate use is made of full and partial repetition. Derivational processes of several types are mentioned below but no use whatsoever is made of obligatory inflectional morphology to indicate tense, aspect, transitivity, specificity or number. These either are coded lexically, understood from context, or left vague.

Nominal word classes accepted by most scholars are common and proper nouns, including a copious supply of titles and epithets, shading into pronouns; also in the nominal class or else in classes of their own are classifiers, number words (i.e. lexical numerals), and deictics. As modifiers follow head nouns prolifically and endomorphically, rather large noun phrases can be built up. A few nouns are homonymous with verbs, mainly instrumentals as in other languages: [thay24] ‘a plow; to plow’; [prae:ng33] ‘a brush; to brush’.

Open verbal classes are more controversial. For the protracted debate regarding adjectives and/or adjectival verbs, see section 3.3.6. Progressive grammaticalization is at the bottom of several definitional quandaries: this process not only moves full verbs into preverbal and postverbal auxiliary subclasses, but also into preposition-like coversbs marking semantic case for following nominals. These construction types impinge on wider serial verb patterns (3.6). Closed functional classes widely recognized include prepositions (but challenged by Warotamasikkhadit 1988; see also Indrambarya 1994), conjunctions, intensifiers and quantifiers, speech-act and polite particles and interjections. Whether or not one or more additional adverb classes might be needed depends on how generously one defines other classes or on which tests are applied.

Syntactic overviews are presented in the encyclopedic articles mentioned above, with issues developed at greater length in other sources cited. For those interested in how syntactic constructions function in actual speech, an excellent place to go first is Iwasaki and Ingkaphirom (2005). Mention should be made also of many fine theses and other studies in Thai not considered here that describe individual constructions with great insight.

### 3.3.2. History of Thai syntactic research

Historically, interest in Thai syntactic issues by outsiders is of long standing and in varied frameworks. Progress in understanding the nature of Thai can be traced from the brief but
valuable sketch and translated lexical lists of La Loubère (1691), a diplomat-trader, through to the first explicit grammar in English by James Low (1828), an East India Company trader-cartographer. He began by informing readers that Thai has ‘no grammar’ (meaning inflectional morphology?) but then went on to treat parts of speech with understanding. His book is a technical as well as linguistic milestone: it was printed using the first moveable-type Thai printing-press font, developed by Ann Judson and her missionary colleagues (Winship 1986). Unfortunately the text was replete with myriad typographic errors. Noteworthy here is Smyth (2001), who outlines the early study of Thai by outsiders and provides a useful bibliography and discussion of the early grammars.

A substantial grammar was produced by another missionary, Bishop D. J. B. Pallegoix (1850). He projected the full panoply of Latinate categories onto Thai, including even the future perfect tense. Pallegoix’s Latin-Siamese-French-English lexicon, with Thai script and a credible romanization, was an impressive tour de force. More importantly, as I suspect, Pallegoix’s scholarly friendship and intellectual exchanges with the Buddhist monk Prince Mongkut were influential in promoting the sentiments leading to a vision of Thai as the standard normative language such as we know it today (Diller 2001a). After Mongkut’s coronation in 1851 he was subsequently known as King Rama IV. He turned his attention to language reform and to ‘correct’ Thai, apparently the first time a monarch had pursued normative linguistic interests at that level of detail. He focused not only to lexical issues but even on syntactic minutiae normally of concern only to linguists, such as prescription of different classifier constructions (elephants and horses were to be counted directly, without an idiosyncratic classifier [tua\textsuperscript{33}] ‘lit. ‘body’, since these animals were considered higher in dignity than others). Khanittanan (1987a, b) considers linguistic features in royal writing as they evolved, complemented by the more socio-historical study of Aesrivongse (1984, in Thai), whose insights are behind Diller (1993, 2001a).

Pedagogical grammars and readers, too many to enumerate here, contain insightful discussions of specific constructions and exemplify them in context as well. Especially dependable earlier sources informed by linguistics include Haas (1945); Brown (1967); Anthony, French and Warotamasikkhadit (1967); Jones, Mendiones and Reynolds (1969), Yates and Tryon (1970); Kuo (1982). Landmark syntactic analyses written by those with native-speaker intuitions and reasonably comprehensive in scope include the formidable, influential and abstruse normative grammar of Upakit-Silapasan (1939, in Thai); Warotamasakkhadit (1963), the first grammar written in a generative framework; Panupong’s (1970) inter-sentence study mentioned above; Pankhuenkhat (1978) and Bandhumedha (1979, in Thai), well-organized and full of insights.

3.3.3. Theoretical perspectives in syntax

Approaches to Thai syntax have included most of the familiar linguistic frameworks of the mid- to late-20\textsuperscript{th}-century: traditional, structuralist, tagmemic, generative, functional and more discourse-oriented studies. Upakit-Silapasan (1939, in Thai), mentioned above, presents essentially a traditional analysis employing familiar Western Classical grammatical categories, but disguised by neo-Indic nomenclature and making use of several authentically Indic notions, especially karaka (semantic deep case) theory. In methodology, Noss (1964) and Panupong (1970) pursue the substitution-frame methodology standard for structural linguistics of their period and are both convincing examples of that approach. As noted above, generative work begins with Warotamasakkhadit (1963) and continues on, as that framework advances, through representative post-Aspects productions such as Bandhumedha (1976) and Surinramont (1979) on deletion, Warotamasakkhadit (1979) on topicalization, Rodman (1977), on coordinating constraints and Wongbiasaj (1980), on movement transformations. Bounding and subjacency are covered by Panpothong (2001). For generative semantics, Stine (1968), on the instrumental case, is a good early example.

Deletion or nominal omission has frequently been a focus of theoretical treatment. As noted above, in terms of the patterns S + Vintrans and S + Vtrans + O, noun phrases S and O are often construed from context. Nominal omission applies to compounding processes as
well. In some conventional expressions, head nouns in compounds are optionally or regularly missing: [kho: 24-tha:n 33] ‘request alms’, but also ‘beggar’ with head noun [khon 33] ‘person’ missing. Note also noodle, rice dishes and other culinary productions, e.g. [phat 11-thay 33] ‘Thai-style fried (noodles)’; [phat 11-kaphraw 33 mu: 24] ‘(rice topped with) basil-fried pork’, possibly giving rise by analogical formation to [maek 45-kaphraw 33 mu: 24] ‘McDonald’s-style bunned patty with) basil pork’. However, after true prepositions, which are few in the language, nominals resist deletion. Verb-derived covers also sometimes reject deletion of following nominal, sometimes not, providing a test for degree of grammaticalization. There are important constraints too, some sentence-internal and some sensitive to macro issues of discourse organization. These are considered with particular insight and cogency by Grima (1978, 1986). For taking missing nominals as empty categories as they were construed in the frameworks of the 1980’s, see Lehman and Pingkarawat (1985), Cole (1987), Kobsiriphat (1988) and Pingkarawat (1989). In the post-Government- and-Binding framework, see Hoonchamlong (1991) and Laksinaking (1991) on anaphora. Outsiders may be astonished that grammaticality judgments underpinning generative work of this type are not infrequently contested by native speakers themselves, a topic examined ethnolinguistically by Diller and Khanittanan (2002).

Numerous additional frameworks have been used. Under the institutional aegis of the University of Hawaii’s East-West Center, work making reference to case grammar and to the specific format ‘lexicase’ (see Starosta 2001), includes Kullavanijaya (1974), on word classes; Savetamalya (2001); Clark (1978), with comparisons to Vietnamese covers; and Clark and Prasithrathsint (1985), on synchronic lexical derivation. Deep case, that is semantic role relationships rather than those derived from surface syntax, informs the approach of Lekawatana (1970) and also of Vichulata (1978), who also develops a stratificational analysis. Tagmemic work includes Patamapongse (1971); Phinit-Akson (1972); Punyodyana (1976). Deepadung (1989) exemplifies residential grammar. For Montague grammar, consult Godden (1981). Diller (1997) wonders whether ‘subject’ is needed in Thai syntax, referring to role and reference grammar. Schiller (1992) produces an autolexical analysis, a framework also used in Wong-Opasi’s (1994) treatment of compounding.

### 3.3.4. Compounding, nominalization and morphological processes

Compounding and questions of complex word formation are treated by Gehr (1951); Fasold (1968); Osipov (1969); Warotamasintop (1975); Vongvipanond (1992); Witayasakpan (1992); Kullavanijaya (1992); Manomaivibool (2000). L-Thongkum (1994) presents a comparative Tai-Kadai study. Vongvipanond (1992) treats doublets with components of related meaning, a type widespread in the Thai lexicon. See also Wong-Opasi (1994), noted above. The astonishingly large set of compounds relating to emotions and personal attributes with component [cay 35] ‘heart, mind’ have attracted much syntactic, semantic and anthropological interest; see the comparative Southeast Asian survey of Matisoff (1986). For Thai data analysed in various ways, see Lee (1987); Diller and Juntanamalaga (1990); Moore (1992). Another common compound type has a component meaning ‘head’, which Juntanamalaga (1992) convincingly relates to kinesic tabu beliefs relating to heads and feet. Thai nominalization is similar to compounding in some respects. Prasithrathsint (1996), (1997), (2006), (2007) presents a compelling set of diachronic and comparative analyses covering this topic. Some compounding heads referring to people such as [nak 45], [cha:w 33] and [phu: 52] are in effect bound morphemes. [khon 33], another ‘person’ word, functions as a common noun but also as a generic compounding head and as classifier. Other classifiers do so as well.

Quasi-morphological derivational processes involving vowel ablaut, tonal variation and even some consonantal intercalation is sometimes referred to as elaboration and can be found throughout Southeast Asia, surveyed by Henderson (1967), Nacaskul (1976) and Williams (1991). For Thai, Haas (1964) provides many further examples. An early brief analysis of this material along with more straight-forward reduplication is given by Haas (1942). Sookgasem (1997) provides a valuable expansion of reduplication types with discussion of theoretical
ramifications. Various patterns of semi-repetition (elaboration or echo-syllables) not only account for common lexical forms but also, for many speakers, show all the signs of active derivation processes. Some patterns of vowel and tone alternation are used to supply vibrancy and emotive wit to informal spoken language. Kullavanijaya (1997) shows how some of these processes are used in intensifying. The deictic system too shows some quasi-morphological paradigmaticity, discussed in Henderson (1967). Iwasaki (2004) shows how topic-marking particles have been derived from such forms. Diller and Juntanamalaga (1988) speculate as to how the current deictic system may be the residue of diachronic reorganization.

Traditional Thai grammatical study (e.g. Upakit-silapasan 1939; Anuman Rajadhon 1981) makes much of morphological processes affecting Indic loanwords borrowed into Thai. Some changes, such as deletion of many Indic final syllables, are simply a matter of assimilation to the Thai phonological system. Other changes, such as those in morphological recombination of Indic roots to create Thai neologisms, may show prefixation, assimilation, etc., that reflect processes in the Indic donor systems. Pali-Sanskrit terminology such as [sama:t11] ‘samasa compound’, [son24thi45] ‘sandhi compound’, may be used and are even sometimes applied to compounds non-Indic in provenance. See Gedney (1947); Wan Waithayakorn (1970); Prasithrathsint (1994).

3.3.5. Nominal substitutes and classifiers

Pronouns and nominal substitutes immediately lead into sociolinguistics, as the forms in question are generally more sensitive to such constraints than they are to the more usual pronominal properties of number and even person. The definitional borderline between pronouns, conventionalized epithet-substitutes and ordinary common nouns has been drawn in various ways. Also, classifiers (below) are part of the story as they have anaphoric functions and show other pronominal traits as well. Early studies of note include Cooke (1965), which also compares Vietnamese and Burmese data using distinctive features; Campbell (1969), a useful comprehensive orientation; Palakornkul (1972, 1975) emphasizing sociolinguistic usage; Hatton (1973, 1978), discussing translation; Strecker (1980); Sugamoto (1989). Truwichien (1980) discusses the important topic of address avoidance with great insight, while her longer study (1985) impressively integrates relevant socio-cultural matters. Gething (1986) discusses similar issues. Hatton (1978) and Hoonchamlong (1992) elucidate differences between male- and female-speaker first-person forms and usage. This topic is further developed by Diller and Chirasombutti (2000), who suggest that Thai women are required by the prevailing linguistic system to ‘place themselves’ through self-reference selections in a more finely-determined social space than that required of male speakers. Chirasombutti (1995) provides further detail and a comparison with Japanese. Wijeyewardene’s (1968) contribution at the tabu end of this field is of great anthropological interest.

Hinds (1988) presents a lucid analysis of reflexives, including discourse-based examples. His argument sounds a note of caution for researchers quick to assume that anaphoric properties of reflexives in Thai such as [tua 33], [e:ng 33] and [tua 33:e:ng 33] equate formally to English translational counterparts. Namthammachat (1975) and most theses written in generative frameworks also treat these issues.

Classifiers can claim a respectable store of professional literature. Most classifiers are derived from homonymic common nouns like [tua 33] ‘body’; a few are from verbs, e.g. [phu:k11] ‘to tie’, as a verb; ‘bundle’ as a classifier for monastic manuscripts. They constitute nearly an open (sub)class, especially if combined with generics like [ya:ng 11] ‘kind, sort’ and measure words, both formal, like [ki 33lo:33] ‘kilometer; kilogram’, and conventional, like [kae:w52] ‘(drinking) glass’, as used in a measuring context. These types share many classifier patterns. For many common nouns, classifiers are required in counting expressions, where regular order is [head noun] + [number word] + [classifier]: [no’:ng 45 so’:ng 24 khon 33] [younger-sibling two classifier] ‘two younger siblings’. Classifiers are also used to suggest definiteness, especially with deictics in the pattern [head noun] + [classifier] + [deictic], but other modifiers can occur in the [deictic] position if they are used to specify, especially
contrastively. The counting and definiteness patterns can be combined. In these patterns and elsewhere in the language, head nouns are frequently ‘missing’: they are construed from discourse context, giving syntacticians room to theorize as to zero anaphora, deletion, empty categories, etc.

Idiosyncratic classifiers are most strongly required for counting items that are discrete, concrete, and part of Thai cultural life. Two or three dozen are used quite commonly in informal conversation, but many more are recognized: McFarland (1944) gives a list of 82; however, it takes the Thai Royal Institute (Ratchabanditsathan 1995) many more than that and a booklet of 128 pages to prescribe the complete system. As items become more abstract or obscure they tend either to be counted with a general classifier [an\textsuperscript{33}3], or counted directly with no overt classifier, or else with a ‘repeater’ construction where a single lexical form occurs in the pattern [head noun] + [numeral] + [classifier] both as head noun and as classifier. A few concrete items, such as several body parts, are also counted in this manner. The system is far from rigid, showing individual and sociolinguistic variation, bureaucratic prescription as above, late acquisition (some items typically learned at school), and, as noted above, diachronic instability both as to the forms used and as to what each classifies (e.g. [tua\textsuperscript{33}]3, originally for animates with bodies, is now on the rise).

Haas (1942, 1978) was perhaps the pioneer in their analysis along modern linguistic lines and her study remains an admirably concise overview, keeping in mind the passing of time. As a great help both to language learners and to researchers, her dictionary (1964) specifies one or more classifiers for virtually every noun, including indication of those that use the ‘repeater’ construction. Hiranburana (1978) concentrates on a hierarchical semantic classification, with Placzek (1984, 1985, 1992) providing more detailed studies of this type, with interest in perceptual salience. Plam (1974) supplies a treatment both semantic and syntactic, as do Kölver (1979) and Hundius and Kölver (1983); see also Zhang (1992). Kookiattikoon (2001) looks in depth at their syntax.


For comparative classifier studies, see section 3.4.4.

3.3.6. Verbs, transitivity, predicate constructions and grammaticalization

Thai verbs are a robust class but should a separate class of adjective be recognized? There are good reasons to take adjectives as a subclass of verbs, following Gedney (1947), Haas (1964), Panupong (1970), Hudak (1987) and others who subcategorize these items as a type of verb, perhaps ‘adjectival verb’. Such forms do not require (or even admit, in most cases) a copula such as [pen\textsuperscript{33}3] or [khu: 33\textsuperscript{3}] ‘to be’ to form complete predicates and they interact with auxiliaries, negatives and question/answer patterns mainly in the way full verbs do. But good arguments to the contrary have been advanced too, variously invoking comparative constructions, the ability to occur with certain prefixal formative, semantic effects of repetition, etc. See Noss (1964); Prapa (1996), Smyth (2002), Iwasaki and Ingkaphirom (2005) and Thai traditional grammar. These authorities, it would seem, would need to acknowledge that complete Thai sentences could lack overt verbs. Nominalizing formative [ka:n\textsuperscript{33}3-] for verbs and [khwa:m\textsuperscript{33}3-] have been often been used to distinguish these categories but a number of verbs with cognitive-emotive meanings like ‘understand’, ‘detest’, etc. accept both prefixals equally well. To call adjectival verbs ‘stative verbs’ has been one attack, but one might well wish to call verbs like [yu:11\textsuperscript{11}] ‘to be located’ stative verbs as well and these fail most of the putative adjective tests.

As though to make tightly defining verbs yet more onerous, Thai main verbs are difficult to distinguish absolutely from forms one might wish to take as auxiliaries: markers of timing,
aspect and modality. In serial coverb constructions they intrude on prepositions.

As noted, Thai verbs show no formal marking as to transitivity, nor do they overtly indicate finite-nonfinite status. The ability of nominals to be deleted or not to occur overtly presents a moderate challenge to transitivity analysis, but most authorities concur that many lexical verbs are basically in a transitive class, a few like [hay^{32}] ‘to give’ in a ditransitive one, many more are intransitive and still others alternate in potential transitivity status, perhaps along with other minor semantic effects. Landmark studies of verb classes include Noss (1964), Panupong (1970) and Sindhavananda (1970). More recent discussions are by Sriphen (1982) and Thepkanjana (1992), who develops the useful notion of a transitivity continuum, taking account of verb semantics. Savetamalya (1992), emphasising patient subjects, discusses transitivity using a case-grammar approach. Negation of predicates and elsewhere is considered by Kanasut-Roengpitya (1974) and Lagasanaging (1992).

Semantics and pragmatics interact in transitivity issues. Panupong (1978) and Diller (1997) wonder about how best to analyze single verb forms exhibiting alternating transitivity. Part of the question must include pragmatics: in a rather common construction type, topocalized undergoer or patient/theme object occurs without overt agentive subject: O-undergoer (S-agent) V-trans. Does this merge in a gradient way with S-theme V-intrans? Perhaps related to this problem is a small class of high-frequency verbs such as [mi^{35}] ‘to have; there is/are’ and [koe:t^{11}] ‘to be born; to happen’. Here a single form appears to have both a transitive use and also to occur intransitively in a pattern of V + S when showing existential or presentative meanings. Sookgasem (1992) clarifies the issues, also considered in the lexicease system by Indrambarya (1996).

This leads to the question of marked passive or pseudo-passive constructions, well-researched topic of long-standing interest (Bergen 1875). Prasithrathsint (1988) documents substantial diachronic change in a range of passive-like constructions. A common issue in the current language involves a verb [thu:k^{11}] ‘to come in contact with, touch’. This is widely recognized with a shifted, generalized meaning more like ‘to undergo, suffer’ and with the function of an adversative passive: [mac:wei^{33}] thu:k^{11} ma:^{24} kat^{11} [cat undergo dog bite] ‘the cat was bitten by the dog’. In this construction, the form [thu:k^{11}] retains nearly all of the formal syntactic collocational properties of a main verb, if not quite retaining normal verb semantics. This has lead some authorities to resist labelling the construction as ‘passive’ per se, as argued forcefully and entertainingly by Noss (1972b), holding that using ‘passive’ here would be too much of an imposition of Western grammatical conceptions. (Is it churlish to observe that Noss registers no similar problem with ‘subject’ and other Western category labels, which his grammar liberally utilizes?)

In any event, as Khanittanan (1979), Prasithrathsint (1988) and others have maintained, the construction has been widely used to translate English and other Western-language passives. Perhaps partly because of resulting translation genres, usage of the [thu:k^{11}] construction is assuredly becoming used in less adversative contexts, especially in Thai technical discourse (‘the metal was dissolved in acid’) and among middle-class speakers (‘I was invited by him to the party’). This recalls Prasithrathsint’s (1988) demonstration that earlier Thai ‘passive’ constructions have been moderately changeable. A syntactically similar, but less common, form [do:n^{33}] ‘to be hit by’ is more stable in its adversative semantics. The (pseudo-)passive problem is treated structurally and functionally in several doctoral theses and in briefer works, among them: Filbeck (1973a); Lekawatana (1975); Thanyarat (1983); Wongbisaj (1979b) in a generative framework and Savetamalya (2001) in a lexicease one. Morev (1996) investigates these matters from the perspective of diathesis, which includes consideration of causatives and other transitivity-shifting issues. Gero (1977) and Gsell (1979) are concerned with a similar range of issues.

Serial verb constructions, directionals and causatives have been the focus of much syntactic research. The preceding discussion indicates that the pseudo-passive markers mentioned above have many properties of verbs; as such they may be implicated in the wider phenomenon of serial verb constructions. Definitions have varied but many take this type of construction to consist of two or more verbs or verbal predicates strung together without overt
marking of coordination or subordination. In many instances, or in all if so defined, at least one nominal argument is shared, such as subject/agent or object/patient. Usually at least one such nominal is understood, i.e. is an empty category or zero anaphor. Crucial here also is the observation that along with many other serializing languages Thai lacks morphological marking distinguishing finite from non-finite. Also, to assume that the first verb in sequence were in all cases the dominant one leads to quandaries. Constructions of this type are a Southeast and East Asian areal feature, as documented by Clark (1978, 1992) and Clark and Prasithrathsint (1985) in a lexicase framework. Bisang (1996), with grammatization and ‘great attractors’ in mind, analyzes Thai examples in this wider context too, as does Post (2007). Analyses reveal both broad similarities and specific differences with comparable data in nearby languages.

Needleman (1973a) is among the first studies in which a formal post-Aspects generative framework confronts the challenge of the seemingly flat multi-verb structures of Thai verb serialization, followed by Filbeck (1975), Vis (1978) and Sereechareonsatit (1984). Thepkanjana (1986) should be credited, it seems to me, with a notable advance by turning attention to specific semantic subclasses of verbs as a constraint in how longer complexes are contextually built up and strung together, a direction developed by Chuwicha (1993) and in other work. Somewhat similar in orientation, but using the lexicase apparatus with robust use of synchronic derivation, Clark and Prasithrathsint (1985) offer an analysis of verb forms showing context-sensitive differences in sense or structural properties. Working in the same basic framework, Wilawan (1992, 1993) goes on more radically to supply an argument rejecting the ‘serial verb’ characterization entirely and taking the relevant constructions to be coordinate or subordinate clauses within a system of sentence adjuncts. For more consideration of these matters, further references and a scheme based on symmetrical/asymmetrical properties of these constructions, see Diller (2006a), which also mentions properties of shared arguments, negation, modality and timing.

The verbs [pay33] ‘to go’ and [ma:33] ‘to come’ and similar verbs of motion enter into serial constructions of great frequency, mixing directional, temporal, aspectual and evaluative nuances in intriguing ways that have stimulated much study. These forms are considered in many of the sources cited above, but studies focus on them specifically as well. Gandour (1978a) associates ‘come’ and ‘go’ with deictic properties, with Treerat (1990) going on to come (!) to grips with how syntax, predicate semantics and discourse context interact. Temporal-aspectual functions of [pay33] offer a particular challenge, with interpretations of timing sometimes suggesting past completive, sometimes future continuative. [khaw52] ‘to enter’, hence inchoative, and some other directionals contribute to the topic as well. Bickner (1985) and Rangkupan (2001) analyze usage of directionals as it indicates psychological perspective in narrative and in other contexts.

The verb [hay52] ‘to give’ in serial constructions promotes a different polysemous complex involving notions like benefactive, causative and complementizer of controlled action. Areal considerations are again relevant; see comparative analyses by Hermann (1979); Pooisrakit (Poo-israkij 1995), Iwasaki and Yap (1998); Post (2007). Vichit-Vadakan (1976) notes differences in intended versus inadvertent causality in constructions with [hay52], [tham33] ‘to do’ and the compound [tham33hay52]. Other studies are by Kumlert (1976), Khamsaen (1978), Indrambarya (1992), with Warotamasikkhadit (1994) offering questions as to prevailing terminology. Grima (1978), while not limited to [hay52] constructions, presents an especially cogent discussion of the associated types of zero anaphora. See also chapter 17.

Temporal-aspectual information may be marked by the use of directionals to indicate temporal-aspectual nuances is mentioned above. Other marking of this type, along with modality, can usually be traced back to main-verb sources too, although such verbs may or may not still be in active usage. A problem encountered by those attempting to establish a fixed linear order for lexical forms in auxiliary constructions, e.g. Anthony (1964), Dellinger (1975), is that many of the dozen or more commonly used forms can function in different surface positions with slightly different meanings and collocational dynamics; see critique of Warotamasikkhadit (1979). Thus the form [a:t11] can function epistemically as ‘apt to, likely
to’ but also deontically as ‘able, capable of’. The epistemic position is more peripheral, preceding positions of irrealis marker [ca11] and negative [may25], with the deontic alternate closer to the verbal core and following positions of such formatives. The favored structuralist solution has been to expand the lexicon: Noss (1964) distinguishes two [at11] homonyms in different form classes.

Kimsuvan (1992) considers alternations with [yu:11] ‘be located; be happening; at’. This form along with others has been investigated in detail by Kullavanijaya and Bisang (2004) in a selection-theory approach. Similar syntactic and semantic alternations apply to several other forms. [day52] ‘can’ (and many further possible glosses) is notorious, with functions ranging widely over the epistemic, deontic and temporal-aspectual semantic territory. Enfield (this volume) has given much attention to the counterpart of this form in Lao and much of what he describes in this volume for the Lao would apply to Thai as well. Other approaches involve linkage of semantics to various treatments of phrase structure, an especially well-designed analysis being that of Sookgasem (1990) in Head-driven Phrase Structure Grammar. See also studies of Kanchanawan (1978), with interest in machine translation; Ekniyom (1979), using internal reconstruction; and theses of Kullavanijaya (1968); Scovel (1970); Boonyapatipark (1983). Howard (2000) and Koenig and Muansuwan (2000) inspect perfectivity in detail, e.g. use of the form [lae:w45], originally a verb ‘to finish’.

Much of the above discussion relates in one way or another to grammaticalization paths, especially to situations where diachronically prior constructions and senses coexist in the current language along with their evolved alternates, with little or no phonological indication of difference. Enfield (2006) presents a cogent discussion of grammaticalization issues relating to Lao, in most cases with direct application to Thai as well. Not only verbs and derived auxiliaries are at issue, but also other paths like [verb – coverb – preposition], cp. [ca:k11] ‘to leave (now very restricted); from’ or [noun – preposition], cp. [lang24] ‘back (body part noun); in back of (as though preposition or adverb)*, with yet another function being classifier for houses. For more on what is essentially grammaticalization, if not explicitly so identified, see work of Clark (from 1978 onwards), Jagacinski (1991), Juntanamalaga and Diller (1992), Bisang (1996), Diller (2001b). Iwasaki (2004) considers the grammaticalization of topic-marking form [ma52]. See Part Four of this volume.

3.3.7. Other parts of speech and constructions

Questions are taken up in work by Kullavanijaya (1980) and Santaputra (1984). A common yes-no question type is coded by a final particle written as though [may25] but usually pronounced [may45]; the ultimate diachronic source is undoubtedly the preverbal negator [may42]. This and other final particles with various speech-act, politeness and discourse functions are analyzed in a number of studies, Cooke (1989) providing a comprehensive orientation, with other studies by Bhamoraput (1972), Peyasantiwong (1981), Kendall, Yoon and Hye-Suk (1986), Horie (Ingkapihrom) and Iwasaki (1996). Phonological reduction of these forms is studied by Peyasantiwong (1979). Bandhumedha (1979) presents a convenient grouping of families of particles and perceptive analyses of functions. For specific treatments, see Cooke (1979) for the [si45] set and Neill’s (1989) narrative-based analysis of [na45] and [chay52 may45]. Diller and Juntanamalaga (1992) take up the [oe:y24] set. Strings of particles can occur together. Whether such forms are subject to ordering rules is considered by Warotamasikkhadit (1975) and Prasitrathisint (1974).

Conjunctions are considered by Thomas (1979) and by Clark (1994), who presents a comparative study and argument for a topicalizing function. Jagacinski (1991) takes up complementizer [wa:24] and other complement types. For relative clauses and factitive noun clauses marked by formative [thi:52], see Ekniyom (1971); Suktrakul (1975); Sornhiran (1978); Kuno and Wongkhomthong (1981b); Savetamalya (1996) and, for a convincing diachronic analysis, Kullavanijaya, this volume. Comrie (1996) treats clauses of this type comparatively with particular attention to Japanese. Morev (1994) describes possessive constructions. For reciprocals, Bee (1972) comes to grips with the poly-functional [kan33], variously a reciprocal, gathered-plural marker and male first-person pronominal form.
Constructions and their functions of sentences with copular forms or equatives [pen$^{33}$] and [khu$^{33}$] are taken up by Kuno and Wongkhomthong (1980, 1981a). As part of the wider picture, Warotamasikkhadit (1969, 1976a) treats other idiosyncrasies of the verb [pen$^{33}$] along with verbless sentences.

A postverbal nominal in a construction that might seem SVO superficially on inspection might not be a typical O-type patient semantically: it might turn out to have a locative, manner or instrumental function. Instrumental constructions are described by Warotamasikkhadit (1986). The postverbal position can also accommodate affected body-part terms, e.g. in pain expressions. These introduce the issue of how pain is represented and how this affects construction choice, as discussed by Diller (1980) and by Iwasaki (2002); also in a more comparative anthropological mode by Fabrega and Tyma (1976).

Quantification is taken up by Stine (1981). Whatever the theoretical approach, there can be little doubt that Thai quantificational phrases are prone to occur at the end of predicates, even if this means splitting an earlier noun phrase. Wongbiasaj (1979a) considers this type under quantifier floating. In a related area, Haas (1946) and Kullavanijaya (1997) give examples of a range of intensifying techniques, several of which involve final position as well.

3.3.8. Discourse, conversation and sociolinguistically-based studies

Not a few of the studies cited above consider units greater than single sentences, among them Panupong (1970), Grima (1986) and Hinds (1988b). Iwasaki and Ingapirom (2005), and in their other work, frequently rely on conversation-based examples and cogently take such wider contexts into account. Thomas (1988) argues that Thai grammar needs to recognize the language as ‘paragraph-efficient’ rather than as based on rules confined to single clauses, with Vongvipanond (1988) arguing for two types of linkage devices: ‘macro-cohesive’ and ‘micro-cohesive’.


1986 was an especially fruitful year for dissertations devoted to Thai discourse by native speakers. Burusphat (1986) presents a comprehensive discourse analysis based on narrative folklore, with texts presented in a convenient appendix, fully transcribed, glossed and translated. Chanawangsa (1986) studies cohesion from several perspectives, while Chodchoey (1986) uses transcribed materials to uncover strategies in oral discourse.

Conversational Analysis (CA) refers to micro-analysis of discourse along sociological lines, including special attention to pauses, repetitions, self-corrections, kinesics, etc., usually ignored in other frameworks. Moerman (1988) presents stunning examples of the insights that this style of analysis can reveal. An extra dimension of complexity in his study is the combination of Northern Thai, Lue and Central Thai in the text material, which is presented in meticulous oral transcriptions. Bilmes (1992) makes similar points. Turn-taking and speaker overlap is of interest in these studies, with Hinds (1988) providing a provocative parallel between Thai driving behavior and informal conversational interaction. While filled pauses are also of interest in CA, Chaimanee (1996) instead devotes attention to them in a comparative study of native and non-native speakers’ hesitations.

Khanittanan (1987a, 1987b, 1988b) uncovers diachronic trends in discourse genre and makes a compelling case for the evolution of a more ‘autonomous’ and abstract type of Thai, partly as the result of different communicative needs arising from modernizing social trends. This genre is less tied to traditional constraints of immediate interpersonal communication, apt to use abstract nominalizations and to make nominal material explicit. In a similar vein, differences between spoken and written discourse are clarified by Chodchoey (1988). Person (1996) turns attention to specialized genre: oral sermons of a Buddhist monk.

For Thai-Japanese comparisons, see Ruetaivan’s (1999) study on how motion events are represented in narrative discourse.

3.3.9. Semantics and lexical fields

Several of the syntactic studies already cited show a strong semantic focus. The distinctive feature framework is used by Cooke (1965) in his comparative study of pronominal reference. Hiranburana (1978) develops a related hierarchical-taxonomy approach to classifying Thai classifiers, with several works of Placzek (e.g. 1992) producing a more finely-tuned analysis with particular semantic attention to shape. Gething (1986) discusses the extent to which distinctive features relate to cultural matters. As mentioned above, Thepkanjana’s work (e.g. 1986) is notable for uncovering how semantics of verb classes can constrain the makeup of serial verb constructions.

Compounding has attracted semantic attention. The studies cited with regard to compounding [cay33] ‘heart, mind’ to yield emotional terminology treat semantics as well as syntax. Juntanamalaga’s (1992) study classifies the cluster of meanings associated with [hua24] ‘head’ as it occurs in compounds. Vongvipanond (1992a) presents a substantial semantic and syntactic analysis of compounds where component parts are synonyms.

Additional studies link meaning with syntactic constructions in specific semantic fields. As mentioned, Thai pain terms are described in a comparative context by Fabrega and Tyma (1976) and by Diller (1980), who points to interesting syntactic features of these constructions. Their syntactic analysis is substantially advanced by Iwasaki (2002). A similar topic, traditional Thai disease terminology, is developed in a more ethnographic study by Bamber (1987). Still relating to physiology but in a cheerier subfield, Reed (1976) produces a semantic analysis of Thai gastronomic terms.

Representative thesis-length treatments of semantic topics include Gething (1972) and Terayannont (1988). Varied approaches are attested. Gething (1968, 1972) develops a structural redundancy methodology which he applies to analysis of nominals. His later work (1975, 1979) treats the semantics of locatives and other expressions with comparative reference to Lao. Diller (1994), in a comparative volume, attempts to address issues raised in the ‘semantic primitives’ enterprise. Folk taxonomy is the focus of studies by Simmonds (1978) and by Stott (1978), describing vernacular forest nomenclature. Historical semantics is taken up by Khanittanan and Placzek (1982), who trace how inherited Tai ‘psychic’ vocabulary, such as [khwan24] ‘(roughly) psyche, spirit’, has undergone semantic readjustment with the introduction of Indic loans such as [win33ya:n33] ‘(roughly) soul’. Another historical study of anthropological interest is that of Gething (1977).

Toponyms as a reflection of culture, social organization and environment are treated in impressive studies of Hartmann (2007) and Prasitrathsint (2007b). These link names of villages and other geographical units in Thailand to the wider Tai context, along with consideration of the Southeast Asian ecosystem and socio-political factors.

Kinship: of anthropological merit and impact are studies of Thai kinship terms and their extended usages. Gething (1986a) discusses distinctive features organizing Thai kinship and occupational terms. In a more extended study, Prasitrathsint (2001) presents a componential analysis of the complex system with useful comparative references. For diachronic/comparative development, one could consult also Black Tai (Fippinger, 1971) and check Strecker’s (1980, 1984) Proto-Tai reconstructions. Formative studies are by Benedict (1943, 1945), with Chinese comparisons. Also of interest to anthropologists is the fact that Thai speakers appear to enjoy ‘disrupting’ their lexically normative kinship system in
manner exotic (to outsider anthropologists, at least): parental terms [pho:] ‘father’ and [mae:] ‘mother’ are used by parents (among others) in referring to or addressing their children: thus, one calls one’s daughter ‘mother’; but the daughter may call her mother [mae:] too. Also, these terms may precede children’s given names or nicknames in the manner of a title. There is yet more: sibling terms are the widely used in address and reference among spouses; see Haas (1969).

3.4. SOCIOLINGUISTIC, COMPARATIVE AND HISTORICAL STUDIES

3.4.1. Sociolinguistic perspectives on Thailand

Studies cited above dealing with pronouns, kinship terms, speech-act particles and discourse are especially likely to be of interest to sociolinguists. In this subsection we note more general descriptions of the rather complex setting in Thailand important in understanding communicative functions of Central Thai in their social setting. For those requiring an overview of Thailand’s sociolinguistic situation, Premsrirat (2006) is recommended. The issue of International Journal of the Sociology of Language 186 (2007), devoted to Thai sociolinguistics, includes range of current work, some mentioned below. For those interested in the development of the subfield of Thai sociolinguistics, comparisons could be made with the sociolinguistic review of Debyasuvarn (1973) and also with an issue of the journal Language Sciences 10 (1988), devoted to papers on Thai sociolinguistics of that era. Roop’s (1969) earlier study of language diversity remains useful for perspective.

Beebe (1975, 1976, 1981) presents an impressive set of Labovian studies correlating articulatory alternatives with variables like occupation, age and gender. There is also treatment of these issues a language-learning context by Brown (1967), who usefully distinguishes colloquial ‘Bangkok Thai’ from the standard language; the former variety shows cluster simplification, substitution of \(/l/\) for \(/r/\), etc.

Multilingualism and language hierarchy in Thailand is the theme of the impressive and informative survey of Smalley (1994), expanding his (1988) introduction. For Smalley, Thailand’s local dialects and minority languages are part of a hierarchical structure with standard Central Thai at the top. Speakers tend to become bilingual or multilingual in varieties positioned over them in the hierarchical model. Following from Smalley’s observations, investigators find that local dialects of the Tai family in Thailand are by now most frequently components in speakers’ bidialectal (or multilingual) competence: outside of the Central-speaking area virtually all speakers with basic public schooling have at least a functionally passive competence in Central Thai, although active competence and most daily-life communication may be in a local variety. These local varieties are not infrequently mixed with or influenced by the standard language. Chamberlain (1972) and Khanittanan (1973) describe tonal influence of the standard language on Northeastern or Lao varieties. Diller (1979) investigates how tones and segments in Southern and Central Thai are systematically combined in sociolinguistically salient ways. In particular, hybridization is described whereby Southern Thai tones are articulated for what is otherwise Central Thai. This can apply even to the standardized written form. For the north, the interplay of Kam-mueang (Northern Thai), Lue and Central Thai in their sociological context is amply elucidated and documented by Moerman (1965, 1988) in a closely-focused conversational-analysis framework. Similarly, but in a different framework, Premsrirat’s (2007) study of endangered languages in Thailand calls attention to this urgent line of research, recalling Bradley’s (1992) discussion of the disappearance of Ungong. Morita (2003, 2007) studies the important question of assimilation and language shift among Sino-Thai speakers; her bibliographies are a useful resource for those interested in this issue. From another quarter, Chunsuvimol (1980) considers communicative networks of Thai workers in Singapore.

Dialectology studies of local and regional varieties in Thailand are too numerous to be listed here: many are catalogued and described by Tingsabadh (1984), with leading studies discussed in Smalley (1994). Many fine theses completed in Thai universities describe
individual local varieties. Brown (1962) and Hartmann (1980) treat issues of subgrouping. These works and sources mentioned therein can be consulted for Kam-mueang (Northern Thai), Southern Thai and so-called Isan Thai (essentially Lao varieties spoken in Thailand). Chantavibulya (Panupong) (1959) appears to be the first detailed linguistic description of a local dialect (Songkhla, Southern Thai). For comparative reference, a remarkable nearby Southern tonal system is acoustically and physiologically analysed by Rose (1997).

Central Thailand is far from uniform in local speech. For the central-west area, Suphanburi Thai is described by Tingsabadh (1988, 1992), who makes the intriguing and methodologically challenging observation that speakers of this variety really cannot cite their local forms in isolation. Court (1972) describes the unusual tonal system of Traat.

Early landmark comparisons with focus on tone compare varieties within Thailand, and sometimes beyond: Haas (1958); Egerod (1961); Jones (1965). Brown (1962, 1965) is the first book-length work to cover the entire country in detail. It establishes a convenient visual display for comparing tonal systems and remains a valuable dialectology resource. Many later works describe new varieties or provide further analyses, e.g. Strecker (1979); see Tingsabadh (1984).

Sociolinguistic and political commentary on Thai as a standard national language is provided by Aesrivongse (1984, in Thai), whose viewpoint is summarized and extended by Diller (1988, 1991).

3.4.2. Registers, polite speech and special styles


Native speakers of Thai find it easy to characterize samples from written and spoken registers in evaluative terms like [supha:p 52] ‘polite’ or its opposite. In effect this presupposes a diglossic arrangement which includes the distinguishing of lexical pairs that can be described as ‘higher’ and ‘lower’ in terms of speech-level, although the relationship among resulting registers is far from a simple binary one. Diller (1985, 1993) suggests that both lexical and syntactic evaluations contribute to this continuum, but it should not be concluded that written Thai always shows ‘high’ selections and spoken Thai ‘low’ ones. Sometimes written Thai opts for ‘lower’ expressions as in journalism: Khanittanan (1994, 2007) shows how styles are manipulated for effects in different segments of news presentation; see also Srinarawat’s (2007) informative work on political slang, another use of ‘lower’ expressions for effect.

Politeness markers and similar indicators of interpersonal dynamics are ubiquitous and especially salient in colloquial Thai. These categories are coded by various means: most obviously by address and reference forms and by final particles such as polite final particles [kha45], [kha52] (female speaker) and [khrap45] (male speaker) and the less polite [ha45], [wa45], etc., (Bandhumedha, 1979; Peyasaniwong 1981; Cooke 1989), but also by various lexical options along the high-low continuum mentioned above. This continuum generally reflects ascribed deference as well as formality. But the system is complex. Lexical selections in formal Thai cannot be taken as necessarily indicative of marking interpersonal deference, e.g. in formal sources high-status and low-status males alike may be referred to as [na:y33 X]: ‘Mr. X’, [na:y33 thak45sin24] ‘Mr Thaksin’ (a former Prime Minister); [na:y33 dae:ng33] ‘Mr Daeng’ (an unemployed unskilled manual worker). Compare more colloquial Thai: [na:y33 X] seems less deferential than [khun33 X] ‘Mr. X’ (lit. ‘honorable X’). Note that [khun33 X] is uncommon in formal Thai, e.g. in official reports, etc. Even syntactic choices are implicated in this complex. Khanittanan (1988a) elucidates strategies and issues with great insight, as do Kummer (1992) and Bilmes (2002), while Deephuengton (1992) turns to disagreement strategies. Work of Moerman, Hinds and Iwasaki keep such factors in mind as well.
Thai is remarkable for special registers relating to institutions of royalty and monkhood, although the lexical makeup of these registers shares many selections with the ‘high’ or ‘polite’ [supha:p] level mentioned above. Particularly given the impact of broadcast media, most Thai speakers are at least passively familiar with the hundreds of lexical substitutions these registers prescribe, if not always able to control them actively. Haas (1951) and Jones (1971) lay out the complexity of the system, especially as regards degrees of deference ascribed to ranks of royal persons. Gedney (1961) provides a convenient outline of these registers, while Kanasut-Roengpitya (1973) documents them in greater detail. Diller (2006b) also gives a sketch of ‘royal Thai’ calling attention to some of its derivational processes and suggesting that functionally it shows some parallels with special avoidance genres in other languages.

Poetic Thai and other literary genres have their own special vocabulary and syntax and show points of contact with the type of language used with royalty and the monkhood. Also, the formal metrical requirements of traditional poetry provide a number of clues both as to abstract phonology and as to how Thai may have developed diachronically. Linguists undertaking work of this type include Warotamaskkhadit (1968a); Bickner (1981, 1992); Chittasophon (1984); Gedney (1980, 1989b); Hartmann (1989); Hudak (1990 and this volume).

3.4.3. Loans, contact and bilingualism

General contact issues are introduced in traditional philological studies, see Anuman Rajadhon (1961, 1981). A linguistic orientation is taken by Warie (1973, 1979). Sometimes overlooked is the importance of foreign language education as an aspect of contact, considered by Chirasombutti (2007).

In the preceding section, lexical items of the higher diglossic registers were noted. These in general are etymologically not inherited Tai vocabulary but are loans introduced over many centuries. Perhaps the most concentrated and conspicuous loan element in Thai is vocabulary from Indic languages Pali and Sanskrit. Gedney (1947), in a work still of great value, presents a formal analysis and catalogue of many hundreds of words of this sort, mainly nouns and verbs. Historically, Indic vocabulary in Thai can be classified into two types: (i) traditional loans, accepted into Thai from the thirteenth to nineteenth centuries; and (ii) coined neologisms created in the twentieth centuries through official institutional action. There are hundreds of both types in current use and distinguishing them is often not a simple matter. Type (i) were typically introduced in pre-modern times through Khmer or Mon intermediaries, subject to assimilation processes in those languages first, or else from Pali Buddhist sources, i.e., terms originally used in religious contexts came be used more generally. Most of these loans are transparent in provenance, but not all. Harris (2007b) convincingly shows how Mon or Khmer mediated Sanskrit marica ‘hot (capiscum) pepper’, borrowed into Thai with sound changes, resulting now in [phrik].

Type (ii) loans were created by literary and technical authorities in an environment of modernization requiring lexical enrichment, but coupled with nationalistic or esthetic sensibilities disparaging direct loans from English or other Western languages. The solution was to code the Western-based concepts with neologisms constructed from Indic (mainly Sanskrit) morphemes. The neo-Indic forms created also conformed analogically to various assimilated prototypes already established through type (i) forms; for example, there was no attempt to pronounce neo-Sanskrit material the way it would be pronounced in India. Sometimes shifts have occurred in the designated semantics of type (ii) items, especially those of the 1920s or 1930s. Wan Waithayakorn (1970), one of the key figures in the coinage process, and Prasithrathsint (1994) discuss the specifics of how these (ii) items were introduced. See also Court (1984).

Austroasiatic, Austronesian and Sino-Tibetan language families have contributed many vocabulary items to Thai at different diachronic periods. Relatively recent loans from Khmer, Malay and southern Chinese varieties like Taeciw are often transparent, while earlier strata feel to Thai speakers like authentic Thai vocabulary and require linguistic scholarship to
deduce provenance. Careful analysis and correct differentiation of diachronic strata from various sources of vocabulary now used in Thai can be considered still in the infancy stage. Surely however such studies are a precondition for convincing discussions of remote or ultimate Tai and Tai-Kadai relationships, be they genetic or some form of contact, if that distinction can indeed be maintained.

Contact with Khmer and other Austroasiatic languages is a topic pursued by Khanittanan (2001) and Diller (2002), who both argue for an early period of substantial Thai-Khmer bilingualism. Evidence for this claim lies in the sweep and magnitude of Thai vocabulary that is Khmer-derived (Varasararin 1984). While some occurs at the higher speech-levels, much is basic and currently in every-day usage: [camu:k] ‘nose’; [tapho:k] ‘hip’; [khu’:33] ‘to be (equivalent)’; [dœ:n] ‘to walk’; [koe:t 11] ‘be born’; [set 11] ‘to finish’. More tellingly: a number of auxiliaries, conjunctions, prepositions and other grammatical formatives are clearly of Khmer or Mon-Khmer provenance, as is the disyllabic lexical pattern, seen in ‘nose’ above, now so thoroughly incorporated into Thai that it seems native.

Turning to Austronesian, Suthiwan (1992) focuses on Malay loans into Central Thai. She is able to show several different diachronic strata on the basis of tone assignment and stop devoicing. One Ayudhya-era level is associated with a Thai court adaptation of the Javanese and Malay Panji tales and many of the loans are literary in character, but other strata have toponyms, names of fruits, etc., that are in common usage. Suthiwan also considers Malay loans into Southern Thai, as does Court (1975), who includes insightful diachronic deductions and discussion. More contentious are the earlier levels still. Schlegel (1902) advanced the hypothesis, revived and enhanced (?) by Benedict (1942, 1975, etc.), that Proto-Tai vocabulary shows enough plausible Austronesian cognates to support a standard genetic (hence Austro-Tai) relationship. This topic is pursued in detail elsewhere, whether pro, con or prevaricating: (e.g., Gedney 1976; Diffloth 1977; Reid 1984; Hartmann 1986b; Matisoff 1990); Thurgood (1994); Diller 2000; Ostapirat 2004).

Another important contact domain concerns Chinese relationships, again a matter of contention. Work of Egerod (1957, 1959b), Manomaivibool (1975, 1976, 2000), Li (1976) and Luo (2000; also this volume and sources mentioned therein) suggest that there are very early, if not genetically inherited, strata of Chinese in the Tai (and Tai-Kadai) languages. Manomaivibool (1976) carefully differentiates early strata, e.g. [plu’ak] ‘peel; bark’ versus [phiw] ‘skin’, which she takes to be from the same Chinese lexical source 皮, but reflecting different stages. Luo shows the magnitude, basic nature, semantic spread and emphasizes regular correspondence patterns of many items involved. Thurgood (2007a), on the other hand, calls attention to an irregularly-corresponding lexical group taken by Gedney (1979) as evidence for a new set of Proto-Tai initials. Thurgood suggests rather that the items in question represent Chinese loans of various strata, hence the irregularity. This problem is perhaps indicative of more general methodological tensions attending Chinese-Tai (or Tai-Kadai) diachronic research. Whatever the nature of the ultimate Sino-Tibetan relationship, vocabulary of early eras (e.g. terms for numbers, body parts, basic verbs, etc., on at least the Proto-Tai level) is not to be confused with much more recent southern Chinese (mainly Swatow/Taeiw) loans into Central Thai (Egerod 1959a). Unlike the earlier vocabulary, later items are felt by speakers of Thai to be ‘Chinese’ and sometimes even have phonological properties that effectively mark them as such (e.g., unaspirated initial stops in items with high or rising tones, precluded as a regular possibility for inherited Tai vocabulary). Such vocabulary refers especially to foods, cooking processes, business terms and other transparently Chinese cultural concepts, but also to some pronouns now commonly heard in Thai speech, at least on Bangkok streets. Of relevance here are Morita’s (2007) work on Chinese-Thai assimilation and Srinarawat’s (1988) on language use of Chinese-background speakers in Bangkok. These are interesting to contrast with Huang’s (2007) study of Zhuang-Chinese assimilation.

Portuguese, Persian, Arabic and other languages recalling Indian Ocean pre-modern commerce have brought into Thai designations for grapes, cabbage, roses, soap and other cultural items; see Harris (2007a, 2007b).
English has had a moderate to heavy impact on Thai, explored sociolinguistically by Khanittanan (1979), Nacaskul (1979) and by Chutisilp (1984). Work on the development of the so-called adversative passive marked by [thu:k11] ‘to undergo’ often notes the use (or misuse) of the construction in translating English passives (e.g. Prasithrathsint 1988; Diller 1993). Lexically, of historical interest is the fact that many English loans like [sathe:33chan52] ‘station’, commonly used in the nineteenth century, were replaced by Sanskrit neologisms in the early twentieth century, such [satha:24ni:33]. In this case, the Indic neologism even recalls the form of the English prototype as well as its etymological connections (note Proto-Indo-European sta: ‘stand’, appearing in both the Sanskrit and English forms). In a sense then hundreds of such Sanskrit neologisms are an attempt to represent English concepts semantically but through portraying them in neo-Indic phonological guise. This is more in keeping with early twentieth-century nationalistic and literary sensibilities than would have been the simple inclusion of barely assimilated English forms. Nonetheless, sensibilities shift and recent decades have not avoided a substantial influx of direct English borrowing (Senawong 1992). A torrent of such loans now imubes ‘pop’ culture, teen slang, sports reporting and technology. Commercial establishments like tailor shops frequently display transliterated English names. Human nicknames like ‘Nut’, ‘Golf’ and ‘Bird’ are analyzed by Nacaskul (1987), who clarifies the phonology of such loans; even dogs get English names. The humanities and law, on the other hand, tend to eschew direct English borrowing and such loans are regularly absent from proclamations, constitutions, etc. For the English-to-neoIndic process, see Wan Waithayakorn (1970); Prasithrathsint (1994). Gandour (1979) and Bickner (1986b) discuss the complicated issue of how tone is assigned to English loans. Thai-English bilingualism is studied by Cefola (1981) and by Davis and Schoknecht (1994). Psycholinguistic studies of Burnham, et al. (1992) are of relevance here as well. In reverse, Cohen (1987) provides an entertaining look at expatriate foreigners’ acquisition (or not) of Thai in Bangkok.

### 3.4.4. Comparative studies

Several studies compare standard Central Thai with other Tai varieties of Thailand, some with focus on attitudinal factors: Northern (Lanna) Thai (Pankhuenkhait 1976; Nokaeo 1989); Yong (Davies 1979); Northeastern Thai (Palikupt 1983).

Comparisons with Khmer (Cambodian) include focus on predicates by Martini (1956, 1957); descriptions of remarkable syntactic parallelism by Nacaskul (1971) and by Huffman (1973); study of complement constructions by Poo-israkij (1995); and diachronic lexical analysis Varasarin (1984). Khanittanan (2001) and Diller (2003) develop diachronic proposals related to these comparative studies.

Comparative classifier studies are instructive in several ways. Jones (1970) presents a landmark survey of Southeast systems. It establishes areal patterning of classifier syntax, especially among Tai languages: classifiers follow their head noun as in Thai to the west and south, but precede it, as in Tai varieties like Nung or Zhuang to the east and north. (As for an isogloss, a leading Black Tai linguist, the late Cam Trong, told me that both patterns are used in his language for different purposes. In fact, most speakers of Central Thai admit some flexibility in special contexts, such as the regular [phi: 42-no’:ng45 so’:ng24 khon33] ‘two siblings’ as compared to the more restricted [so’:ng24 khon33 phi: 52-no’:ng45] ‘both of them, the siblings’. As for particular lexical items, work of Jacob (1965) indicates that Khmer has supplied Thai with several classifiers and vice-versa. Conklin (1981) is a comparative study encompassing Tai (including Thai) and Austronesian classifiers. In a cross-language survey of classifiers and language standardization, Barz and Diller (1985) examine evaluative and normative feelings about classifiers, found to differ across Indo-Aryan and Southeast Asian languages. For Thai especially, sociolinguistic constraints are fine-tuned and crucial in many Thai classifier selections, as established by Juntanamalaga (1988). Thai is placed in a comparative Tai context by Burusphat (2007), who presents a comprehensive treatment of animate classifiers; see also Morev (2000).


Thai-English comparisons often have an applied-linguistics focus. Pioneering studies include Kruatrachue (1960) on phonology and Chaiyaratana (1961) on syntax. A sample of others includes studies on pronominalization, considered by Chomaitong (1976); on definiteness, by Lamchote (1971); on aspect, by Noochoochoai (1978); and on intonation, by Kanchanathat (1977). For applied studies featuring error analysis, translation problems or difficulties Thai speakers have with specific features of English, representative studies are by Ariyapitipun (1988), Meemeskul-Martin (1984), Palmer (1969), Richards (1968), Schmidt (1988), Suwattee (1981), and by Van Syoc (1964).

3.4.5. Historical and philological studies

Diachronic sources relating to Tai family and to Tai-Kadai are mentioned in section 1.1. This and the next subsection mainly mention works with a focus specifically on (standard and/or Central) Thai, or else the language of Sukhothai; however, controversial hypotheses tracing how Central Thai has developed over the past seven centuries depend crucially on comparative-historical Tai background to provide plausible starting points for presumed Thai-internal diachronic changes. These hypotheses also refer to orthographic history. Even though some may devalue study of written sources as being institutionally ‘philology’ rather than linguistics, I see no good reasons to disregard orthographic evidence when trying to unravel Thai diachronic sound change.

See Anuman Rajadhon (1961, 1981), Hartmann (1986a), Court (1996) and Diller (1996b 2001a) for historical hypotheses as to how Indic-based orthographies and literary culture, including Thai writing, have developed and spread in the Southeast Asian context. The inventor(s) of Thai writing certainly had Khmer orthography in mind, and perhaps Mon, but significant innovations were introduced as well. These included tone-marking, horizontal rather than vertical representation of clusters, phasing out of redundant vowel-initial graphemes and the creation of new segmental symbols as needed. The latter were usually accomplished through modifications made to existing Khmer-type letters representing similar sounds; thus a new [f] symbol was an enhancement of a given [ph] letter. The impression is strong that the original impetus for Sukhothai script involved great care and attention to Tai sound-system detail along with a semiotic attempt to represent perceived phonetic closeness through graphical similarity. Result: diachronic linguists should take this orthography seriously.

Although it is clear that Thai orthography in general can be traced back to South Indic scripts, intermediate points are still professionally debated. The tradition that Thai writing originated in the reign of King Ramkhaeng of Sukhothai (r. approx. 1279-1298) has been challenged but to date no material evidence of a different origin has been adduced. Also, the historical relations of Thai and Lao scripts are somewhat contentious, although existing material evidence strongly indicates that a Sukhothai-type script had spread east to Lao-speaking areas by the early sixteenth century and constituted the prototype for standard Lao writing. Mon writing, on the other hand, was the basis for Lanna (Northern Thai) script, currently under resuscitation, also known to the east as tham (i.e. ‘dharma script’, as it was used for Buddhist texts). Discussion and further sources are included in Danvivathana (1987).
and in Diller (1996a). Hudak (1986) describes official simplifications in Thai spelling during the 1940’s, later rescinded.

For those with interest in how lexical, syntactic and semantic aspects of the Thai language has evolved since the Sukhothai era of about seven centuries ago, a good place to start is with the commentaries and texts of Na Nagara and Griswold (1992). They present and discuss key literary sources of the Sukhothai period, although their perspectives are mainly philological and historical. A difficulty encountered in some philological work is the tendency to assume that Sukhothai texts are a direct reflection of earlier stages of Central Thai, or even coincide phonetically with modern Thai, whereas Sukhothai Thai probably stood in a less direct line with it. Note that Brown, 1962, 1965, considers Southern Thai varieties to be the more direct descendants of Sukhothai Thai. To their credit, Na Nagara and Griswold (1992) frequently cite cognate material from non-Central dialects. Weroha (1992) too provides comparisons with local varieties. Mikami (1984) summarizers other features of Thai of the early period, while Bamroograks (1987) makes significant progress in understanding Sukhothai discourse patterns. Prasithrathsint (2007), in a convincing comparative and diachronic study of nominalization, shows that at least the type with prefixal [khwa:m^2^-] ‘matter (of...);’ was present in the language of Sukhothai, with nominalization on the increase in succeeding centuries.

For the complex diachronic development of the pronominal system, Strecker’s (1984) treatment of Proto-Tai pronouns is a good place to start, with dialect studies such as Filbeck (1973b) useful to keep in mind. Studies like these indicate that the Thai system is the result of substantial diachronic shifting and innovation. Iamchinda (1992, in Thai) is a seven-hundred year survey covering the period over which written data on pronouns are available.

Jones (1971) makes accessible King Chulalongkorn’s important essay on Thai titles and ranks, a study nicely complemented by Tingsabadh and Prasithrathsint (1986, in Thai), who analyze the use of address terms over some two centuries.

Etymology, areal contact and comparative-historical semantic shifting are insightfully treated by Matisoff (1986, 1992), who analyzes kinship terms and analogues of Thai ‘heart/mind’ compounds in [cay^33]. These are considered in the wider Southeast Asian context, however issues are raised that need to be kept in mind when focusing on semantic shifts more specifically in Thai. An especially noteworthy study of the latter type is that of Khanittanan and Placzek (1982), who show how the inherited item [khwan^24] ‘spirit, soul’ underwent semantic reorganization when an Indic term [win^33ya:n^33] with similar meaning was introduced in Buddhist contexts. For more on etymology, see Burnay and Coedès (1920); Li (1956, 1971, 1977); Anuman Rajadhon (1961, 1981); and Thai-language sources such as Na Nakhon (1973).

Turning to diachronic phonology and phonetics regarding segmentals, we can surmise that the vowel system of Central Thai is an area where Khmer comparisons are merited, but inscriptive Khmer is not without its own interpretive challenges (Jacob 1965, etc.). Tai-internal accounts of earlier vowel inventories and of how they have evolved into the current Central Thai system have led to divergent proposals, especially regarding vowel-length (Sarawit 1973; Hartmann 1976b; Li 1977; Brown 1979; Strecker 1983; Luksaneeyanawin 1992). In any event, Sukhothai orthographic vowel distinctions show affinities both with Angkorian inscriptive Khmer and also with modern Thai, even though the varieties may not be in direct linear relationship. Dhananjayananda (1997) calls attention to one difference: what is now the [e]/[e:] distinction is not marked until the seventeenth century. The same general picture perhaps applies to long-short distinctions in low front and back vowels [ae] and [o’] as well. But does this mean that the distinctions were pronounced earlier but not marked in text until later, or that new contrastive articulations originated subsequently as well? Diachronic aspects of [ay] and [aw] sequences are elucidated in work of Bickner (1992). Finally, as L-Thongkum, Teeranon and Intajomrarrak (2007) have convincingly established, diachronic consideration of vowel length change and of tonogenesis, considered below, must be considered as intertwined issues.
Work on Thai syntactic shifts has been less controversial but has a potential contribution to make to typological studies. Analyses of Sukhothai discourse by Bamroograks (1987) and Prasithrathsint (2007) have been mentioned. Grammaticalization, mentioned in 3.6 above, has been an important process in Thai diachronic syntax but I am not aware of a comprehensive text-based study organizing just how all relevant changes have occurred historically. Khanittanan (1987a, 1987b, 1988b) and Prasithrathsint (1988, 1996) have produced leading work in establishing how syntactic patterns of written Thai have shifted in the past two centuries or so, whether qualitatively or quantitatively. Prasithrathsint has traced in great detail the increase of passive-like constructions and nominalizations in written sources. Khanittanan, using a succession of royal prose compositions, identifies a number of features that characterized evolving prose writing of the mid-nineteenth century: zero anaphora of understood subjects; topic-initial sentences; paratactic constructions rather than marking with overt conjunctions; lists with quantifiers in final position. These generally reflect features today associated with spoken Thai (Messenger 1980; Chodchoey 1988; Hinds 1988a).

Over time, a new style of formal written Thai has taken shape, characterized by denser nominalization, clausal embedding and other types of subordination and more overt specification of nominals, rather than leaving zero anaphors to be construed. This has coincided with increased normative interest in specifying what is ‘correct’ Thai (Diller 1993, 2001a). Lexical selections also play a role here, with higher diglossic choices and technical Indic vocabulary characteristic (Wan Waithayakorn 1970; Prasithrathsint 1994). Resulting in what Khanittanan (1988b) refers to as a more ‘autonomous’ style, discourse of this type is comparatively depersonalized and even aloof from Thai interpersonal social dynamics. ‘Autonomous’ Thai does not encode a range of interpersonal communicative factors the way the lower colloquial style typically does with particles, finely calibrated address-reference selections and other choices. This style of written Thai is currently maintained, but as mentioned in subsection 3.4.2 above, written Thai genres also admit a more colloquial type of Thai as well.

Contrasts between these written styles are sometimes manipulated for special effects, such as to produce eye-catching journalistic headlines in a lower more oral style, while providing ‘serious’ content reporting in the higher more autonomous style (Khanittanan 2007). Also, some Thai authors are adroit in exploiting the difference through stark contrasts in descriptive passages versus dialogue; Chat Kopchitti would be an example. On the other hand, many educated Thai speakers (academics in particular) can, when occasion requires it, produce a spontaneous type of oral discourse showing many features of the higher written style. A methodological consequence of this syntactic vibrancy seems to be that native Thai speakers may disagree with each other as to grammaticality judgments (Diller and Khanittanan 2002). One can hope that future scholarship will contribute to more understanding of these interacting oral and written genres and of their role in the constitution of Thai linguistic competence.

3.4.6. Tonogenesis and its quandaries

In diachronic phonology, one area where an understanding of Tai-wide issues impinges crucially on the more parochial history of Central Thai concerns tonal development. Also, since some of the crucial evidence generally accepted for sound changes is from written texts, matters of orthographic interpretation and development become involved as well.

The Thai writing system has been subject to diachronic phonology in some ways and resistant to it in others. Methodologically, it has been taken as important tool in uncovering and analyzing sound changes relating to tone, thus meriting linguistic concern. Most authorities posit an original (or Proto-Tai) system of three tones for open syllables and limited tonal options for stopped syllables; in general, they took one of the open tones (Li 1977). A sweeping devoicing process is thought to have subsequently occurred affecting voiced obstruents, along with loss of aspiration in formerly aspirated sonorants. For Thai (and Lao), the devoiced stops further acquired aspiration. Lexical items with the newly-arising initials were kept from merger by consonant-induced allophonic tonal distinctions, which then
became phonemic. That is, the new unaspirated fully-voiced sonorants (e.g. /m/ < *hm) and aspirated voiceless obstruents (e.g. /ph/ < *b) did not produce homophonic lexical mergers with vocabulary items with the original unaspirated sonorants (e.g. /m/ < *m) and aspirated stops (e.g. /ph/ < *ph). This complex shift is thought to have occurred after the codification of (Sukhothai) Thai writing, probably in the fourteenth and fifteenth centuries.

Some evidence for this change consists in spelling variation during the period and in environmental loans introduced before the change took place, such as Malay durian, sago, becoming Thai [thu45 rian33], [sa24 khu33] (Suthiwan 1992). Further evidence is the fact that Thai (following Sukhothai) orthography regularly represents the shifted sonorants with a digraph headed by (now) silent initial h- symbol, e.g. as hm, hn, hl; hence [luang24] ‘large, grand’, written as though kluang to reflect the aspirated sonorant initial of the thirteenth century. If the initial sound had been a simple voiced sonorant or something else at the time, it is difficult to explain why that particular digraph was selected for the relevant vocabulary. To clinch the argument, there are also some early Thai loans into nearby Austroasiatic languages that preserve pre-shift initials like /hm/ (Gedney 1965).

In this scenario, the effect was to bifurcate the original tonal system. For Central Thai, devoicing was accompanied not only by aspiration of relevant stops but also by other sound changes in which phonation type of initial consonant affected tone. New tonal mergers took place as well. The result is the three classes of letters referred to as ‘high’, ‘mid’, and ‘low’, with different tonal effects. Central Thai happens to have remerged in such a way as to distinguish five phonemic tones. Since the Thai writing system is widely considered to reflect the situation before these major shifts, interpreting its present complexity is in effect a matter of taking into account the results of the complex diachronic sound changes. It also means that the Thai and Lao writing systems are abstract in the sense that they can be interpreted in various ways to accommodate tonal systems of local dialects in Thailand and Laos, a fact with consequences for literacy policy.

A consequence of the changes sketched above is that in the first instance (the Sukhothai period) Thai tone markers [may45 e:k11] and [mai45 tho:33] would have had direct phonetic interpretations, whereas after the changes, their interpretation would become phonologically abstract leading to the variable values the markers now exhibit with different groups of consonants. The remaining two tone markers were added after the shifts mentioned above were complete, as can in fact be detected from their restricted distribution, although the physical shape of markers has been subject to shifting (the former cross symbol used for [mai45 tho:33] is now used for [mai45 cat11 awaa33]). Speculations as to the origin of the tone markers and how their interpretation must have shifted are offered in Diller (1996b), who considers Sanskrit chanting marks. Further perspectives range from the earlier work of Brown (1962), Jones (1965, 1966) and recent observations of L-Thongkum, Teeranon and Intajamornrak (2007).

A complication in the preceding model has been known for years, e.g. as discussed by Gedney (1947, sections 175-177), Brown (1965, section 2.3) and others. Not directly accounted for in the tonogenesis-devoicing process sketched above are Indic-provenance items like [bun33] ‘merit’, ultimately from Pali puñña. These items would seem to imply a voicing process for stops p > b and t > d (but not c > j or k > g). Note that this would work in opposition to the devoicing changes described above. If voicing for ‘merit’, etc., had originally occurred beforehand in an intermediate language like Old Khmer, why then was ‘merit’ not caught up in post-Sukhothai tonogenetic devoicing? On the other hand, if it was still pronounced with initial p- in Sukhothai times, why is it [bun33] today, while inherited Tai vocabulary like [pa11] ‘jungle’ does not show the same change? Solutions to this have differed. Maybe puñña had been previously assimilated in Old Khmer with a preglottalized initial such as [bunA] and it was this that was adopted by Sukhothai (bilingual?) speakers, treating it as having the same initial [b] as in Tai words like [ba:nC] ‘village’. This escapes the problem for Thai by casting it back onto Old Khmer (why did the Khmers treat Indic p- this way?). The case seems not to be closed.
Many have contributed to the development of the tonogenetic line of research, from earlier scholars such as Bastian (1868), Bradley (1909a, 1909b) and Burnay (1927) on to professional publications more linguistic in orientation of Haudricourt, Gedney, Jones, Li and others. Brown (1962, 1995, 1975), Erikson (1975), Rischel (1984), L-Thongkum (1997), Thurgood (2007b), and L-Thongkum, Teeranon and Intajamornrak (2007) and sources therein present detailed articulatory hypotheses concerning tonogenesis. Anivan (1988) considers phonetic shifts in Central Thai tones in more recent times after establishment of the basic tonogenetic patterns.

Gedney (1985) discusses the vexed question of timing for the main tonogenetic changes. Loan-word evidence from Malay (Suthiwan 1992) was mentioned above for taking the Ayudhya-era fourteenth and fifteenth centuries as the period of changes for Thai. (Malay contact is more convincing for this line of argument than similar indications in Pali and Sanskrit loans, as at earlier stages the latter have come into Thai second-hand through Khmer or Mon, raising extra diachronic possibilities.) If this timing hypothesis is indeed the case, then a troublesome methodological issue arises. The majority of Tai varieties would need to have shared the same basic devoicing and tonogenetic sound changes: a great phonological upheaval over a wide and disparate area in a short a time. Only a few rather isolated varieties of the Sino-Vietnamese frontier area are reported as having escaped systematic devoicing (Haudricourt 1949; Ross 1996; L-Thongkum 1997). Zhuang dialects far removed in time, place and social dynamics from Central Thai would have had to undergo similar shifts. Following a normal application of the Comparative Method, without considering orthographic or loan evidence, one would need to project the changes much further back in time than the fourteenth century (see Jones 1965, 1966; Gedney 1985). Here indeed is an instance where the proto-Tai reconstructions that are accepted are of paramount importance in establishing how (Central) Thai has changed since the Sukhothai period. Is the Sukhothai starting-point positioned before or after the sweeping changes?

To make matters more complex, some, but by no means all, nearby Austroasiatic languages with classical writing systems or relevant evidence of other sorts appear to exhibit similar devoicing shifts, some involving vowel-related and/or phonation-related register phenomena. This includes Khmer, certainly critical in Thai’s linguistic history. Further consideration of these sound-change issues is clearly merited. General consideration of the substantial Austroasiatic, and specifically Khmer, impact on Thai has been mentioned: see Nacaskul (1971), Huffman (1973), Varasarin (1984), L-Thongkum (1992), Khanittanan (2001) and Diller (2002). See also chapter 7.

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CHAPTER FOUR

VERBS AND MULTI-VERB CONSTRUCTIONS IN LAO

N. J. Enfield

4.1. INTRODUCTION

The following Lao sentence shows six verbs in a row, in a single prosodically integrated unit, with no inflection or explicit marking of the grammatical relationship between them.1

(1) caw⁴ lòòng² mèè⁴ qaw³ paj³ hêt¹ kin³ beng¹
  2SG try.out PCL take go make eat look

‘You go ahead and take (them) and try cooking (them)!’ (38.12)

This sentence – the words of a merchant giving a sales pitch for her sausages – is no mere ‘string of verbs’. Such sequences in Lao can be analysed in terms of nested (usually binary) relationships. In example (1), a left-headed complement-taking adverbial lòòng² ‘try out’ combines with a right-marking adverbial beng¹ ‘look’ in bracketing a complex verb phrase consisting of a ‘disposal’ construction expressing focus on manipulation of an object (with the combination qaw³-hêt¹ ‘take (and) do/make’), incorporating paj³ ‘go’ as an inner directional particle, in a purposive clause chain with kin³ ‘eat’. The surface string of six contiguous verbs in (1) is highly structured, yet there is little if any surface indication of such structure in the language.

As in the grammar of Tai languages generally, almost every problem in Lao clausal grammar demands an understanding of the range of possible relationships between verbs or verb phrases in unmarked sequences. Tai languages are strongly isolating, and provide little overt marking of the grammatical associations between words in syntactic combinations. The aim of this chapter is to portray the kind of grammatical structure one finds at the heart of a typical Tai language, by describing the wide and varied range of structures which may underlie any given ‘V₁-V₂’ sequence in one sample language, namely, Lao.² The structures vary in a number of ways, including the specific semantic relation between verbs, and the status as ‘head’ of either V₁, V₂, both, or neither. A range of grammatical and semantic tests can help to establish the range of covert categories.

Table 4.1-1 lists a range of distinct grammatical relationships underlying unmarked V₁-V₂ sequences. Each of the constructions is discussed in this chapter. Each of the strings in the ‘Example’ column is a possible independent surface utterance, with the meaning given in the ‘Meaning’ column.

The chapter is structured as follows. I begin in Section 4.2 with some observations about the defining properties of verbs in Lao along with a semantic sub-classification of verbs. In Section 4.3, I turn to problems in argument structure, and conditions for variation in surface realization of arguments. There is heavy use of argument ellipsis as well as movement, both

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1 See appendix for information on the language and the source of text examples, along with a list of abbreviations used in interlinear glosses.

2 I use ‘V₁-V₂’ to refer to such sequences generally, and I intend for ‘V’ to be vague as to the distinction between ‘verb’ and ‘verb phrase’.
TABLE 4.1-1: SOME V1-V2 SEQUENCES WITH DIFFERENT UNDERLYING STRUCTURES

<table>
<thead>
<tr>
<th>Construction</th>
<th>Example</th>
<th>Gloss</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-V asp-mod marking</td>
<td>kheej² paj³</td>
<td>‘accustomed’</td>
<td>‘(S/he) has (ever) been/gone.’</td>
</tr>
<tr>
<td>Post-V asp-mod marking</td>
<td>paj³ lèew⁴</td>
<td>‘go’ ‘finish’</td>
<td>‘(S/he) has gone.’</td>
</tr>
<tr>
<td>‘Despatch’ 3-place constr.</td>
<td>qaw³ haj⁵</td>
<td>‘take’ ‘give’</td>
<td>‘(S/he) gave (it) to (him/her).’</td>
</tr>
<tr>
<td>‘Disposal’ constr.</td>
<td>qaw³ thim⁵</td>
<td>‘take’ ‘discard’</td>
<td>‘(S/he) threw (it) out.’</td>
</tr>
<tr>
<td>Complex motion</td>
<td>long² paj³</td>
<td>‘descend’ ‘go’</td>
<td>‘(S/he) went down.’</td>
</tr>
<tr>
<td>Rsltv, simple, same-subj</td>
<td>tok² taaj³</td>
<td>‘fall’ ‘die’</td>
<td>‘(S/he) fell and died.’</td>
</tr>
<tr>
<td>Rsltv, simple, diff-subj</td>
<td>nìng² taaj³</td>
<td>‘shoot’ ‘die’</td>
<td>‘(S/he) shot (it) dead.’</td>
</tr>
<tr>
<td>Advbl compl., r-head stv.</td>
<td>kin’ këng¹</td>
<td>‘eat’ ‘adept’</td>
<td>‘(S/he)’s good at eating.’</td>
</tr>
<tr>
<td>Advbl compl., r-head actv</td>
<td>nang² lin⁵</td>
<td>‘sit’ ‘play’</td>
<td>‘(S/he)’s sitting for fun.’</td>
</tr>
<tr>
<td>Advbl compl. l-head</td>
<td>faaw⁴ khian³</td>
<td>‘hurry’ ‘write’</td>
<td>‘(S/he) wrote (it) in a hurry.’</td>
</tr>
<tr>
<td>Advbl compd., l-marking</td>
<td>lak¹ kin³</td>
<td>‘steal’ ‘eat’</td>
<td>‘(S/he) secretly ate (it).’</td>
</tr>
<tr>
<td>Advbl compd., r-marking</td>
<td>khaap⁴ qaw³</td>
<td>‘mouth.grab’ ‘take’</td>
<td>‘(S/he) took (it) away in mouth.’</td>
</tr>
<tr>
<td>Causative, simple</td>
<td>haj⁵ paj³</td>
<td>‘give’ ‘go’</td>
<td>‘(S/he) let (him/her) go.’</td>
</tr>
<tr>
<td>Causative, complex</td>
<td>sang¹-haj⁵</td>
<td>‘order-give’ ‘go’</td>
<td>‘(S/he) ordered (him/her) to go.’</td>
</tr>
<tr>
<td>Compl, contrl, same-subj</td>
<td>jaak⁵ paj³</td>
<td>‘want’ ‘go’</td>
<td>‘(S/he) wants to go.’</td>
</tr>
<tr>
<td>Compl, contrl, diff-subj</td>
<td>hên³ maa²</td>
<td>‘see’ ‘come’</td>
<td>‘(S/he) saw (him/her) come.’</td>
</tr>
<tr>
<td>Compl, non-control</td>
<td>jaak⁵ haj⁵</td>
<td>‘want’ ‘give’</td>
<td>‘(S/he) wants (him/her) to come.’</td>
</tr>
<tr>
<td>Verb chain</td>
<td>paj³ maa²</td>
<td>‘come’ ‘go’</td>
<td>‘(S/he) came and went and...’</td>
</tr>
<tr>
<td>Verb compound</td>
<td>maa² hian²</td>
<td>‘come’ ‘study’</td>
<td>‘(S/he) came to study.’</td>
</tr>
<tr>
<td>Oblique</td>
<td>hêt¹ nam²</td>
<td>‘do’ ‘accompany’</td>
<td>‘(S/he) did (it) with (him/her).’</td>
</tr>
<tr>
<td></td>
<td>hêt¹ haj⁵</td>
<td>‘do’ ‘give’</td>
<td>‘(S/he) did (it) for (him/her).’</td>
</tr>
</tbody>
</table>

conditioned by discourse-sensitive information structure factors. This interacts with versatility in lexical valency and transitivity. Also discussed here are fundamental grammatical problems of how arguments are added and subtracted from clauses where necessary. Section 4.4 forms the body of the chapter, presenting a range of different kinds of underlying form that an unmarked V1-V2 sequence can conceivably have (as listed in Figure 4.3.4.1-1). Section 4.4.5 summarizes and concludes.
4.2. VERBS, VERB CLASSES, ASPECT-MODALITY MARKING

The term ‘verb’ is used for members of the class of words accessible to a defined set of grammatical markings and processes associated with words denoting semantically prototypical actions/events (e.g. *tii³* ‘hit’, *lèèn¹* ‘run’). This category in Lao includes words denoting not only actions and events, but also words denoting concepts confined to a distinct ‘adjective’ class in some languages (e.g. *suung¹* ‘(be) tall’, *dèèng³* ‘(be) red’).

Canonical main verbs such as *tii³* ‘hit’, *vaw⁴* ‘say’, or *hên³* ‘see’ in simple clauses have the following definitive properties:

- may be directly marked (preverbally) by aspect-modality elements such as:
  - negator *bòò¹*
  - irrealis markers *si⁰* and *ca⁰*
  - attainment marker *daj⁰*
  - progressive markers *kmllng²* and *phuam²*

- may be used alone in affirmative responses to polar questions (‘yes-answers’)

- may (in combination with their complements) form nominal modifiers in combination with the relativizer *thii³*:

- may be nominalized using either of the nominalizers *kaan³* or *kuam²*.

The differential accessibility of Lao verbs to more subtle grammatical possibilities may be used as a basis for sub-categorization of the verb class, along the lines of traditional logical/aspectual classes such as state, activity, achievement, accomplishment, and semelfactive (Vendler 1967, Dowty 1979, Smith 1997). Table 4.2-1 outlines some formal properties of the main logical/aspectual verb subclasses (with the addition of a category ‘gradable states’, corresponding in functional terms roughly with adjectives in English):

### TABLE 4.2-1: FIVE LAO VERB CATEGORIES BASED ON LOGICAL/ASPECTUAL DISTINCTIONS

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Achievement (‘meet sb.’)</td>
<td>+</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Accomplishment (‘build a house’)</td>
<td>+</td>
<td>–</td>
<td>–</td>
<td>+</td>
<td>+</td>
<td>–</td>
</tr>
<tr>
<td>Semelfactive (‘knock sth.’)</td>
<td>+</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Activity (‘walk’)</td>
<td>+</td>
<td>–</td>
<td>+</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>State (‘have sth.’)</td>
<td>–</td>
<td>+</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Gradable state (‘be tall’)</td>
<td>–</td>
<td>+</td>
<td>–</td>
<td>+</td>
<td>–</td>
<td>+</td>
</tr>
</tbody>
</table>

3 Note that these semantic classes as applied to Lao do not neatly match those established for English. The subtleties are beyond the scope of our discussion.
Notes: - In column 4, iterative readings are not included.
- The ambiguity referred to in column 5 is that of English *He almost built a house* – i.e. it could mean that almost *finished* or that he almost *began*.
- The reduplication referred to in column 6 is one of two types, in which stress is on the second element only.

While it has often been noted that aspect/modality distinctions in languages such as Lao need not be explicitly marked, there are nevertheless many options for explicit aspect/modality marking. Most of them are preverbal. Such ‘left aspect-modality marking’ almost always occurs only once per clause. It does not usually appear on a lower verb of a tight complement construction, since the aspect-modality properties of a tightly subordinated lower clause are determined by the matrix verb and the semantics of the particular type of complementation involved. Lower clauses of loose complement constructions (e.g. speech and cognition complements) may take left aspect-modality marking independently of the main complement verb. In some types of serialization, such as verb compounding or chaining, again no such marking may appear on any non-initial verb. However, right-headed resultative and adverbial V1-V2 constructions are equivocal in this respect – i.e. they can take aspect-modality marking on either V1 or V2 (but not both). See §4.4.2, below, for further discussion.

4.3. ARGUMENT STRUCTURE IN SINGLE-VERB CLAUSES

I now raise some preliminary issues concerning the realization of arguments in simple Lao clauses (i.e. clauses with only one verb), including widespread ellipsis of arguments, the role of information structure features such as topic and focus in determining constituent order, and lexically specified patterns in transitivity and valency of verbs.

4.3.1. Ellipsis

Ellipsis is the normal form of anaphora for referents which are contextually retrievable (i.e. known and active or semi-active; Chafe 1994). It is just one of a number of factors contributing to difficulties in decisively analysing surface strings in Lao. Lean expressions of the following kind are typical Lao sentences:

(2) \( \text{ñaaw}^2 \) 
long
‘(It was) long.’ (891.2)

(3) \( \text{liùm}^2 \) 
forget
‘(I have) forgotten (it).’ (1354.9)

(4) \( \text{hên}^3 \)
see
‘(I) saw (it).’ (3.8)

---

4 An occasional exception concerns irrealis markers \( \text{sI}^0 \) and \( \text{c}^0 \) on lower verb complements of future-oriented or irrealis verbs like \( \text{jaak}^5 \) ‘want’, and \( \text{tööng}^4.\text{kaan}^1 \) ‘require’. Thus: \( \text{man}^2 \text{jaak}^5 (\text{c}^0) \text{paj}^1 \) [3SG want (IRR) go] ‘He wants to go’ vs. \( \text{man}^2 \text{c}^0 \text{jaak}^5 \text{paj}^1 \) [3SG IRR want go] ‘He will want to go’.
In each case, referents of the ellipsed arguments are active in the discourse context, and as the free translations show, zero anaphors correspond to pronominal anaphors in languages like English.

While the option of ellipsis is widespread, there are situations in which it is obligatory. For example, same-subject control complement constructions (as in want complement constructions, see §4.4.9.1.1 on page 163) stipulate that the lower complement subject (coreferential with the matrix subject) cannot be overtly expressed. In other cases, by contrast, ellipsis is ruled out. For example, a relativized-upon argument to which a relative clause is attached must be phonologically realized:

(5)  
khòòj\(^5\)  hên\(^3\)  *(maa\(^3\)  (thii\(^1\))  k i n\(^3\)  kaj\(^1\)  caw\(^d\)  
1SG  see  dog  REL  eat  chicken  2SG

‘I saw the dog which ate your chicken(s).’

There is no syntactic control of ellipsis across conjoined clauses in Lao, in contrast to languages like English or Dyirbal which have ‘pivot’ type grammatical relations. In English, the following examples unambiguously describe bizarre situations:

(6)  
He dropped the melon and burst.

(7)  
The schoolmaster spanked the little boy and ran home crying to his mother.

Analogous expressions in Lao are ambiguous, since the ellipsed second clause subject may be coreferential with either the subject or object of the first clause. They are thus given the pragmatically most expected meaning. The strongly preferred readings of these two examples in Lao would be the pragmatically obvious ones (i.e. ‘...and it [the melon] burst...’, ‘...and he [the boy] ran home...’).

Ellipsis is in general completely open to pragmatic interpretation, as the following example (after Foley and Van Valin 1984: 194) shows.

(8)  
tam\(^3\)  khuaj\(^2\)  taaj\(^3\)  
crash.into  buffalo  die

i. (S/he) crashed into a buffalo and died.’
ii. (S/he) crashed into a buffalo and it died.’
iii. (S/he) crashed into a buffalo and (the car) died (i.e. stalled.’

However, in a small number of complement constructions (most notably involving the verb jaak\(^1\) ‘want’) there is syntactic control of coreference under obligatory ellipsis. In these cases, the complement clause subject must be ellipsed, and must be coreferential with the main clause subject:

(9)  
laaw\(^2\)  jaak\(^5\)  khaa\(^5\)  kaj\(^l\)  
3SG  want  kill  chicken

‘S/he wants to kill a chicken.’

(10)  
*laaw\(^2\)  jaak\(^5\)  caw\(^d\)  khaa\(^5\)  kaj\(^l\)  
3SG  want  2SG  kill  chicken

(S/he wants you to kill a chicken.)
If a different subject is to be expressed in the lower clause of a *want* construction, the verb *haj*5 ‘give’ is used to signal that the subject of the complement is non-coreferential with the main subject (and the lower subject then may or may not be ellipsed):

(11) `laaw2 jaak 5 haj 5 (caw4) khaa 5 kaj1`

<table>
<thead>
<tr>
<th>3SG</th>
<th>want</th>
<th>give</th>
<th>2SG</th>
<th>kill</th>
<th>chicken</th>
</tr>
</thead>
</table>

’S/he wants (you) to kill a chicken.’

The ubiquity and freedom of nominal ellipsis in Lao discourse makes it difficult (for both grammarian and child) to be sure about underlying patterns of argument structure. Seemingly simple questions such as whether a verb is transitive or intransitive are complex here, and increase in complexity when we look at the great versatility of verbs in their patterns of transitivity and valency.

### 4.3.2. Transitivity and valency

Almost no Lao verb is restricted to a single argument structure construction. Most Lao verbs may appear with either one or two arguments (i.e. they are ‘ambitransitive’; Dixon 1994). Given that nominal ellipsis is so common, one ideally has to distinguish between cases in which an argument is ‘there’ but ellipsed, and cases in which it is simply ‘not there’ (cf. Mosel 1991). The distinction hinges on contextual retrievability of an absent argument as specifically known (or not) to both speaker and listener, and assumed by each to be known to the other. (In practice, this means that the distinction is often unverifiable.)

Rather than simply classifying Lao verbs as ‘transitive’, ‘intransitive’ and ‘ambitransitive’ of various sub-types, it is more useful to list a number of important argument structure constructions and classify verbs according to their accessibility to these constructions. We first list three constructions involving just one noun phrase:

(12) **Resultant state intransitive construction**    \[S^{TH/PAT} - V\]

Agent-controlled verbs, usually telic, with patient/theme as subject and where agent is unexpressed and not contextually retrievable (e.g. *kaang3* ‘to be hoisted’, *pia3* ‘to be platted’, *tom4* ‘to be boiled’).

---

5 For present purposes, an ‘argument’ is a syntactic-semantic entity, defined as a participant which is contextually retrievable and referential, and which corresponds to and elaborates a participant specified in the semantics of a relational element such as a verb. An argument need not have surface realisation (e.g. in Lao it may be ellipsed), and a surface nominal expression need not be an argument (e.g. it may be incorporated and thus non-referential; e.g. fox in John went fox-hunting). A ‘participant’ is any entity which the semantics of a verb or a whole sentence specifies as being involved. Thus, the sentence John painted his house has two arguments (‘John’ and ‘his house’) but at least three participants (i.e. one must understand that ‘paint’ is also involved).

6 Abbreviations in this sections are as follows. ‘A’ denotes arguments treated grammatically like prototypical agents, ‘O’ denotes arguments treated grammatically like prototypical patients, and ‘S’ denotes the single argument of an intransitive clause (after Dixon 1994). A and O are defined by language-specific formal grammatical behaviour, with reference to semantic prototypes (‘someone who does something to something’, ‘something to which something is done’). S is a different kind of entity—semantics do not enter into the definition of S at all. Abbreviations for semantic roles are AGT (agent), TH (theme), PAT (patient), EXP (experiencer), EFF (effector), MVR (mover).
(13) **Stative-inchoative intransitive construction**  
\( S^{TH-V} \)  
Expresses the meaning ‘S is in (or enters into) state V’; these are typical ‘adjectives’ (e.g. *laaj*³ ‘striped’, *hōon*³ ‘hot’, *dīi*³ ‘good’); inchoative reading is rare, encouraged by irrealis or progressive marking.

(14) **Active intransitive construction**  
\( S^{AGT/TH-V} \)  
Meaning: ‘S does V’; includes typical active intransitives (e.g. *caam*³ ‘sneeze’, *lèèn*¹ ‘run’, *san*¹ ‘shake’).

These three one-place constructions may be differentiated in terms of a range of grammatical distinctions, as summarized in Table 4.3.2-1:

**TABLE 4.3.2-1: GRAMMATICAL DISTINCTIONS BETWEEN THREE ONE-PLACE CONSTRUCTIONS**

<table>
<thead>
<tr>
<th>Test</th>
<th>Res-state-intr</th>
<th>Stv-incho-intr</th>
<th>Actv-intr</th>
</tr>
</thead>
</table>
| **Meaning**     | ‘S is in (or enters into) state V (because something is done to it)’ | ‘S is in (or enters into) state V (not because anything is done to it)’ | i. ‘S does V’  
ii. ‘V happens to S (not because anything is done to it)’ |
| **Reading of bō⁰ - negation** | n/a (introduces trackable agent, thus no longer intransitive) | i. ‘will not enter state’  
ii. ‘is not in state’ | i. ‘will not happen’  
ii. ‘is not happening’ |
| **Reading of bō⁰-daŋ⁰ - negation** | ‘not-in-state-now’ (=‘has not been V-ed’) | i. ‘did not enter state’  
ii. ‘was not in state’ | i. ‘did not happen’ |
| **Transitive counterpart?** | Transitive, S = A | Caused-state, S = O | no |
| **Reading of progressive kamlang⁴** | n/a (introduces trackable agent, thus no longer intransitive) | ‘entering state now’; or ‘temporarily in state’ | ‘happening now’ |
| **Reading of perfective lèèw⁴** | i. ‘in state now’  
ii. ‘already entering into state now’ | i. ‘in state now’  
ii. ‘already entering into state now’ | ‘happening now’  
(\*endpoint – e.g. of motion verbs – not entailed\*) |

Now, compare these three one-place constructions with five two-place constructions:

(15) **Transitive construction**  
\( A^{AGT/EFF-V-O^{PAT/TH}} \)  
Expresses the meaning ‘A does V to O (which causes O to be in some state)’ (e.g. *tom*⁴ ‘boil’, *pia*³ ‘plat’, *khaa*² ‘kill’, *puk*² ‘waken’).

(16) **External possessor construction**  
\( A^{POSS-R-V-O^{POSS/D}} \)  
Expresses the meaning ‘The O of A is V’; includes many expressions of referring to body parts and bodily processes (e.g. *tēēk*³ ‘be broken (e.g. of one’s hair ends)’).

---

Space restrictions in this chapter prevent detailed discussion of the points made in Table 4.3.2-1 and Table 4.3.2-2.
(17) **Experiencer subject construction**  \( \text{A}^{\text{EXP}} \cdot \text{V} \cdot \text{O}^{\text{TH}} \)

Expresses the meaning ‘A has the experience of V due to the stimulus of O’; includes ‘applied stimulus’ expressions (e.g. \( \text{sèèp}^{\text{4}} \) ‘(find something) delicious’, \( \text{nak}^{\text{2}} \) ‘(find something) heavy’, \( \text{tùùn}^{\text{1}} \) ‘be startled (by something)’).

(18) **Caused state construction**  \( \text{A}^{\text{EFF}} \cdot \text{V} \cdot \text{O}^{\text{TH}} \)

Expresses the meaning ‘A causes O to be in state V’ (e.g. \( \text{laaj}^{\text{2}} \) ‘((cause to) become) striped’, \( \text{dam}^{\text{1}} \) ‘((cause to) become) black’, \( \text{hòòn}^{\text{4}} \) ‘((cause to) become) hot’). (These are usually not agentive – exceptions include \( \text{qun}^{\text{1}} \) ‘warm (something) up’.)

(19) **Applied effector construction**  \( \text{A}^{\text{TH}} \cdot \text{V} \cdot \text{O}^{\text{EFF}} \)

Expresses the meaning ‘A is in state V because of O’; includes (e.g. \( \text{vaan}^{\text{3}} \) ‘be sweet (because of something)’, \( \text{phêt}^{\text{2}} \) ‘be spicy (because of something)’, \( \text{taaj}^{\text{3}} \) ‘die (from something)’).

Notice that external possessor construction, the experiencer subject construction, and the applied effector construction can show some overlap. In many external possessor constructions the A is an experiencer, but in these cases the O is a locus not an effector. While the subject of the following two examples – \( \text{khòòj}^{\text{5}} \) ‘I’ – is an experiencer, in (20) the O argument is not the cause of the itch, while in (21) it is.

(20) \( \text{khòòj}^{\text{5}} \ khan^{\text{2}} \ khaa^{\text{3}} \)

1SG itch leg

‘I have an itch in my leg’; ‘My leg’s itchy.’ (external possessor)

(21) \( \text{khòòj}^{\text{5}} \ khan^{\text{2}} \ song^{\text{5}} \ nii^{\text{4}} \)

1SG itch pants DEM.GEN

‘I am itchy (from) these pants.’ (applied effector)

External possessor constructions can take applied effector arguments:

(22) \( \text{khòòj}^{\text{5}} \ khan^{\text{2}} \ khaa^{\text{3}} \ song^{\text{5}} \ nii^{\text{4}} \)

1SG itch leg pants DEM.GEN

‘I am itchy (in) my leg (from) these pants.’

(23) \( \text{man}^{\text{2}} \ lùam^{\text{5}} \ taa^{\text{3}} \ còò^{\text{4}} \ tholathat^{\text{1}} \)

3SG glary eye screen television

‘S/he’s glary (in) the eyes (from) the television screen.’

In these two examples, the body parts \( \text{khaa}^{\text{3}} \) ‘leg’ and \( \text{taa}^{\text{3}} \) ‘eye’ are loci of experience in external possessor constructions, each then taking applied effector arguments which refer to the cause of the experience in the possessed body part (\( \text{song}^{\text{5}} \ nii^{\text{4}} \) ‘these pants’ and \( \text{còò}^{\text{4}} \ tholathat^{\text{1}} \) ‘television screen’, respectively).

Some grammatical distinctions between the five constructions are summarized in Table 4.3.2-2:
<table>
<thead>
<tr>
<th>Test</th>
<th>Transitive</th>
<th>Ext-pssr</th>
<th>Exp-subj</th>
<th>Causd-st</th>
<th>Appl-eff</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meaning</td>
<td>‘A does (V) to O; causes O to be in certain state’</td>
<td>‘A’s O is V’</td>
<td>‘A feels something (V) because of O’</td>
<td>‘Because of A, O enters and/or is in state V’</td>
<td>‘because of O, A enters and/or is in state V’</td>
</tr>
<tr>
<td>Reading of $b\hat{o}$ - negation</td>
<td>‘A doesn’t V O’</td>
<td>‘A’s O isn’t V’</td>
<td>‘A’s O isn’t V’</td>
<td>‘A doesn’t/ won’t V’</td>
<td>‘A isn’t in state V bcs. of O’</td>
</tr>
<tr>
<td>Reading of $b\hat{o}$-daj$^\theta$ - negation</td>
<td>‘A hasn’t / didn’t V O’</td>
<td>‘A’s O isn’t V’</td>
<td>‘A’s O isn’t V’</td>
<td>‘A hasn’t V-ed’</td>
<td>‘A’s O isn’t V’</td>
</tr>
<tr>
<td>Intransitive counterpart?</td>
<td>Res-state-intr. O as S</td>
<td>i. with ‘A’s O’ as S ii. %A as S</td>
<td>stative-inch. intransitive, O as S (often with ‘I’ as understood A)</td>
<td>stative-inch. intransitive, O as S</td>
<td>stative-inch. intransitive, A as S</td>
</tr>
<tr>
<td>$A hêt^1$-haj$^5$ O V paraphrase OK?</td>
<td>%</td>
<td>no</td>
<td>no</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>$O hêt^1$-haj$^5$ A V paraphrase OK?</td>
<td>no</td>
<td>no</td>
<td>yes</td>
<td>no</td>
<td>yes</td>
</tr>
<tr>
<td>O trackable as ø?</td>
<td>yes</td>
<td>no</td>
<td>yes</td>
<td>% (often A is V also)</td>
<td>no</td>
</tr>
<tr>
<td>O trackable as pronoun?</td>
<td>yes</td>
<td>no</td>
<td>yes</td>
<td>%</td>
<td>no</td>
</tr>
<tr>
<td>Reading of progressive kamlang$^2$-</td>
<td>doing it now</td>
<td>happening now</td>
<td>feeling it now</td>
<td>becoming V now</td>
<td>becoming V now</td>
</tr>
<tr>
<td>Reading of perfective -lêèw$^4$</td>
<td>not doing it now, O now in state V</td>
<td>O now in state V</td>
<td>feeling it now</td>
<td>in state V now, nothing happening</td>
<td>in state V now, nothing happening</td>
</tr>
</tbody>
</table>

Almost every verb can appear in more than one of these constructions, and this provides speakers with many possibilities for manipulating argument structure in discourse without the use of morphological marking. For example, suppression of an agent or effector can often be achieved by use of the intransitive construction:
To add a causer argument to a stative-intransitive verb, speakers may use the caused state construction:

(26) kon⁴ mòò⁵ laaj²
    bottom pot striped
    ‘The bottom of the pot is striped.’

(27) phaa⁵ nan⁴ ca⁰ laaj² kon⁴ mòò⁵
    cloth DEM.NONPROX IRR striped bottom pot
    ‘That cloth will cause there to be lines on the bottom of the pot.’ (attested)

An effector can be added to a stative-inchoative intransitive clause by the applied effector construction:

(28) kapaw³ nii⁴ nak²
    bag DEM.GEN heavy
    ‘This bag is heavy.’

(29) kapaw³ nii⁴ nak² kòòng⁴
    bag DEM.GEN heavy camera
    ‘This bag is heavy (from the) camera (in it).’

Some verbs are quite restricted in their accessibility to different constructions, such as intransitives like tèèk³ ‘break’ and fot⁴ ‘boil’. Tèèk³ ‘break’ only appears in the intransitive and external possessor constructions:

(30) paaj³ phom⁵ tèèk³
    tip hair break
    ‘The tips of the hairs are/have broken.’
To add a causer to an expression involving \textit{tèèk} ‘break’, one cannot simply use the verb in the transitive construction (à la English \textit{break}), but must use a syntactic causative construction (as described in §4.4.8, below). There are many verbs of breaking in Lao which are more semantically specific than \textit{tèèk} ‘break’, and which do occur in the transitive construction (often involving \textit{tèèk} ‘break’ as an intransitive resultative V2; cf. §4.4.6.2 on page 134).

In the case of \textit{fot} ‘boil\textsubscript{INTR}’, only the intransitive construction is available:

\begin{equation}
\text{nom} \quad \text{nii} \quad \text{fot}
\end{equation}

\begin{equation}
\text{water} \quad \text{DEM.GEN} \quad \text{boil}
\end{equation}

‘This water is (now) boiling.’

To add a causer to the clause, a different lexical item is selected, namely \textit{tom} ‘boil\textsubscript{TR}’:

\begin{equation}
*\text{khòòj} \quad \text{fot} \quad \text{nom} \quad \text{nii}
\end{equation}

\begin{equation}
1\text{SG} \quad \text{boil}\textsubscript{INTR} \quad \text{water} \quad \text{DEM.GEN}
\end{equation}

(I boiled this water.)

\begin{equation}
\text{khòòj} \quad \text{tom} \quad \text{nom} \quad \text{nii}
\end{equation}

\begin{equation}
1\text{SG} \quad \text{boil}\textsubscript{TR} \quad \text{water} \quad \text{DEM.GEN}
\end{equation}

‘I boiled this water.’

In turn, \textit{tom} ‘boil\textsubscript{TR}’ itself may be used in the stative-inchoative intransitive construction, but with a different meaning to its counterpart \textit{fot} ‘boil\textsubscript{INTR}’ in (32) – i.e. where there is a focus on resultant state rather than on an ongoing event:

\begin{equation}
\text{nom} \quad \text{nii} \quad \text{tom}
\end{equation}

\begin{equation}
\text{water} \quad \text{DEM.GEN} \quad \text{boil}\textsubscript{TR}
\end{equation}

‘This water is boiled.’ (Probably not boiling now.)

Another verb which may not appear in the transitive construction is \textit{tàùn} ‘awaken’, shown here in the intransitive construction and experiencer subject construction, respectively:

\begin{equation}
\text{khòòj} \quad \text{tàùn}
\end{equation}

\begin{equation}
1\text{SG} \quad \text{awaken}
\end{equation}

‘I woke up/got a start.’

\begin{equation}
\text{khòòj} \quad \text{tàùn} \quad \text{caw}
\end{equation}

\begin{equation}
1\text{SG} \quad \text{awaken} \quad 2\text{SG}
\end{equation}

‘I got a start/surprise (from) you.’
With this verb, expression of a causer in subject position requires a syntactic causative such as \( \text{hêt}^1-\text{haj}^5 \) [make-give] ‘cause’ (38), otherwise one may select a different verb, namely \( \text{puk}^2 \) ‘waken’, which is accessible to the transitive construction (39):

(38) \[
\begin{array}{cccc}
\text{caw}^4 & \text{hêt}^1-\text{haj}^5 & \text{khòòj}^5 & \text{tùùn}^1 \\
2\text{SG} & \text{make-give} & 1\text{SG} & \text{awaken} \\
\end{array}
\]

‘You caused me to wake up (i.e. woke me up unintentionally).’

(39) \[
\begin{array}{ccc}
\text{caw}^4 & \text{puk}^2 & \text{khòòj}^5 \\
2\text{SG} & \text{waken} & 1\text{SG} \\
\end{array}
\]

‘You woke me up (intentionally).’

By contrast with these more restricted verbs, a few verbs are highly versatile. Consider the following examples involving \( \text{nak}^2 \) ‘heavy’:

(40) \[
\begin{array}{ccc}
\text{kapaw}^3 & \text{niit}^4 & \text{nak}^2 \\
\text{bag} & \text{DEM.GEN} & \text{heavy} \\
\end{array}
\]

‘This bag is heavy.’ (Stative-inchoative intransitive construction)

(41) \[
\begin{array}{ccc}
\text{khòòj}^5 & \text{nak}^2 & \text{tiin}^3 \\
1\text{SG} & \text{heavy} & \text{feet} \\
\end{array}
\]

‘My feet are heavy.’ (External possessor construction)

(42) \[
\begin{array}{ccc}
\text{khòòj}^5 & \text{nak}^2 & \text{sùa}^4 \\
1\text{SG} & \text{heavy} & \text{jacket} \\
\end{array}
\]

‘I’m heavy from the jacket.’ (Applied effector construction)

(43) \[
\begin{array}{cccc}
\text{kapaw}^3 & \text{niit}^4 & \text{nak}^2 & \text{köòng}^4 \\
\text{bag} & \text{DEM.GEN} & \text{heavy} & \text{camera} \\
\end{array}
\]

‘The bag is heavy from the camera (inside it).’ (Applied effector construction)

(44) \[
\begin{array}{cccc}
\text{khòòj}^5 & \text{nak}^2 & \text{kapaw}^3 & \text{niit}^4 \\
1\text{SG} & \text{heavy} & \text{bag} & \text{DEM.GEN} \\
\end{array}
\]

‘I find this bag heavy.’ (Experiencer subject construction)

Context determines what the precise semantic relations between arguments are. With the ever-present possibility of ellipsis, multiple interpretations become even more likely. Just to give one example, \( \text{khòòj}^5 \text{nak}^2 \) [1SG heavy] could be an intransitive construction meaning ‘I’m

\[\text{This sentence could be used, for example, when weighing oneself while wearing a heavy jacket.}\]
heavy’ or an experiencer subject construction meaning ‘I’m finding (it) heavy’ (i.e. where O is ellipsed and retrievable in the context).

The use of these different constructions with certain labile verbs gives the impression that different verbs have different ‘derivational properties’. For example, consider the following two caused state constructions with stative verbs müaj¹ ‘tired’ and baw³ ‘light’ each taking two arguments:

(45) bik² qan⁰-nii⁴ müaj¹ müù²khòòj⁵
pen CLF-DEM GEN tired hand 1SG
‘This pen tires my hand.’

(46) keep⁵ khuu¹ nii⁴ baw³ tiin³
shoe pair DEM GEN light foot
‘This pair of shoes is light (on) the foot.’

In intransitive constructions involving these two verbs, the mapping of arguments is not the same. In the case of müaj¹ ‘tired’, for example, the O of the caused state construction becomes the S of the intransitive construction, while for baw³ ‘light’ transitive, the new S argument is the erstwhile A:

(47) müù² khòòj⁵ müaj¹
hand 1SG tired
‘My hand is tired.’

(48) keep⁵ khuu¹ nii⁴ baw³
shoe pair DEM GEN light
‘This pair of shoes is light.’

Finally, there are verbs which lack strong asymmetry in the semantic role of arguments, resulting either in single sequences having two different truth-conditional interpretations (49), or a single truth-conditional situation being describable by sequences of opposite ordering (50a, b, where the difference in order is related to an information structure distinction):

(49) man² bang³ hùan
3SG block.from.view house
i. ‘He’s blocked from view by the house’.
ii. ‘He’s blocking the house from view.’

(50) (a) sùa⁴ nii⁴ tit³ nam⁰-mük²
shirt DEM GEN touch/attach CT.LIQUID-ink
‘This shirt has got ink on it.’

(b) nam⁰-mük² tit² sùa⁴ nii⁴
CT.LIQUID-ink touch/attach shirt DEM GEN
‘Ink has got on this shirt.’
The alternative argument structure frames for single verbs described in this section are familiar cases of ‘ambitransitivity’ or ‘dual transitivity’ (Dixon 1991: 286ff, 1994). A notable aspect of the Lao verbal lexicon is its versatility in this regard, found across Tai languages in general. In keeping with the typological profile of these languages, there is no overt morphological marking of the alternatives. Some have claimed that the alternative argument structure frames are ‘derived’ by ‘zero morphemes’ (Clark and Prasithratsint 1985). A simpler (although perhaps not significantly different) solution is to describe the verbs as being accessible to more than one argument structure construction, as suggested here.

The details of verbal argument structure and grammatical relations in Lao cannot be explored further in this context, as this section is intended to cover preliminaries to our examination of multiple verbs in combination.

4.3.3. Formal mechanisms for valency-changing

The previous section described a number of alternative constructions which allow speakers to manipulate the valency of verbs without formal morphological marking. There are also limited formal mechanisms for valency-changing derivation, and these all involve multiple verb constructions.\footnote{Note that Lao, like other Tai languages, lacks morphological causativity. By contrast, many of the Mon-Khmer languages with which Tai languages have been in extensive contact over the last 2000 years or more do have morphological causativisation (involving prefixes and/or infixes). Influence in this regard has been from Tai to Mon-Khmer rather than the other way around. For example, Kmhmu has apparently developed syntactic causatives on the model of Thai (Suwilai 1987: 25ff), while Thai has no productive causative morphology.}

They will each be discussed in detail in §4.4, below. §4.4.8 describes causative constructions which use complement-taking verbs to add causers or effectors to simple clauses. The most common verbs are haj⁵ ‘give’, hêt¹ ‘make/do’, and qaw³ ‘take’, each of which often appear in compound combinations with other causative or resultative verbs. There is also a so-called ‘passive’ construction involving the verb thùùk⁵ ‘strike’ as a complement-taking predicate, whose subject is coreferential with an argument (usually but not always O) of the lower predicate. See §4.4.9.4 on page 171, for details.

4.3.4. Constituent structure and information structure: subject, topic, focus

Lao is a strongly head-initial language, in which verbs precede objects, prepositions precede noun phrases, possesseds precede possessors, heads of relative clauses come first, and nominal heads precede modifiers. Most Tai languages are like this, but many Northern Tai and Kadai languages have some head-final patterns in the noun phrase (especially with relativization) apparently under influence of Sinitic languages (Gedney 1989: 122, Wang and Zheng 1993, Long and Zheng 1998). In only a few cases does the head apparently come to the right (for example, as a modal meaning ‘can’, daj⁴ is postverbal; Enfield 2002a: Ch. 3).

At the core of the Lao clause is a simple right-branching NP VP structure, realized as either A-V-O, or S-V. Here are some examples:

(51) saam³ khon² taaj³
    three person die
    ‘Three people died.’ (11.9)

(52) khaw³ khon³ khon²
    3PL transport person
    ‘They transported people.’ (686.1)
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While these examples show the ‘unmarked’ constituent order, there are many ways to vary the formal structuring of a single set of predicate-argument relations to express distinctions in information structure (Lambrecht 1994). Outside the clausal core there are robust outer slots into which arguments may be placed for discourse-related purposes.

Lao is a ‘topic-prominent’ language, a fact with significant consequences in the grammar (Li and Thompson 1976; see below). I do not claim, however, that Lao lacks a grammatical relation ‘subject’. Some processes are sensitive to the grouping of S and A arguments (for example the coreference constraint under ‘want’ complements mentioned in §4.3.1, above), and the basis of these, I regard ‘subject’ as an established (but not necessarily central) notion in Lao grammar.

The following subsections describe possible permutations and markings of the clause and sentence related to distinctions in information structure.

4.3.4.1. Sites for ‘movement’ – left and right position

The simple subject-predicate strings shown in (52-54), above, are ideal examples of A-V-O structure, but such examples are in rare in discourse. Beyond the core, the Lao clause contains a topic-like left position (LP) and an afterthought-like right position (RP). These are common sites for non-default placement of core nominals as well as verbs and verb phrases.

FIGURE 4.3.4.1-1: CONSTITUENTS OF THE LAO CLAUSE, IN ORDER

For example:

(55)  
\[
\begin{array}{ccccccc}
\text{food} & \text{evening} & 2\text{SG} & \text{IRR} & \text{put} & \text{CT.FRUIT-chilli} & \text{more} & \text{PCL} & \text{day} & \text{DEM.GEN}
\end{array}
\]

‘Dinner, are you going to put chilli in (it) again, today?’

Note firstly that the object cannot be abandoned in position as a result of movement of other elements of the verb phrase:

\[10\]  ‘Topic-prominence’ should not be construed as a ‘type’ on a par with ‘subject-prominence’. LaPolla (1997) has rightly pointed out that while ‘subject-prominence’ arises from a set of structural constraints, ‘topic-prominence’ such as that famously found in Modern Standard Chinese arises from plain lack of constraints rather than from constraints of a different kind.

\[11\]  I also find it convenient to refer to ‘object’ — there is evidence of a verb phrase in Lao, such that nothing can be inserted between the verb and its immediate complement (the ‘object’).

\[12\]  In Figure 4.3.4.1-1, ‘AM’ refers to aspect-modality marking, deliberately left vague here — in fact there are a number of ‘AM’ slots; see §4.4.2, below for further discussion of aspect-modality marking.
Similarly, V cannot be removed leaving its left aspect-modality marking in place:

(57) *saj1 /caw4 si0 mak0-phalt1 qiik5 vaa3 \muu4 nii4
put 2SG IRR CT.FRUIT-chilli more PCL day DEM.GEN
(Put in, are you going to chilli again, today?)

In other words, if V moves, its object and aspect-modality markings move with it. The object, however, can be moved on its own into other positions, as required:

(58) mak0-phalt1 /caw4 si0 saj1 qiik5 vaa3 \muu4 nii4
CT.FRUIT-chilli 2SG IRR put more PCL day DEM.GEN
‘Chilli, are you going to put (some) in again, today?’

Due to the ubiquity of nominal ellipsis and the possibility for expression of either subject or object arguments in both left position and right position, naturally occurring sentences often cannot be removed from their original context without confusion arising as to the basic predicate-argument relationships being expressed. Consider the following examples:13

(59) Surface sequence: V NP NP
Underlying structure: [t A V O] \RPA
qaw3 mia2 \ haw2 ni0
take wife 1SG TPC.PCL
‘Took a wife, I (did),’ (375.2)

(60) Surface sequence: NP NP V
Underlying structure: LPo / [A V t0]
lot1 / haw2 la0 bo0 mii2
vehicle 1SG PCL NEG have
‘A car, I didn’t have.’ (371.1)

13 The notations ‘t’ and ‘ø’ are used in these examples for convenience. They both mark sites in which a nominal could be expressed—and would be expressed in a ‘pragmatically neutral’ context—but is not. I use ‘ø’ to signify the default syntactic position of a trackable argument which is not phonologically realized anywhere in the sentence, and ‘t’ to signify the default syntactic position of an argument which does appear in the sentence, but in a pragmatically more marked position (i.e. left position or right position). The terms ‘deletion’ and ‘movement’ are handy metaphors in this context. ‘/’ marks the border between left position and the main clause, ‘\’ marks the border between the main clause and right position. These generally correspond to intonational cues in speech (especially ‘\’, which is accompanied by significant lowering of intensity and pitch).
(61) Surface sequence: V NP
Underlying structure: \([I_S V] \setminus RP_S\)

\(\text{taaj}^3 \ \text{lèèw}^4 \ \text{phòò}^1 \ han^0\)
die PFV father TPC.PCL

‘(He)’d be dead, the father.’ (177.6)

In each case, the ‘t’ slot could include an overt argument, coreferential with the argument subscripted. Compare the following to (61):\(^{14}\)

(62) Surface sequence: NP V NP
Underlying structure: \([NP_i V] \setminus RP_i\)

\(\text{phen}^1 \ \text{taaj}^3 \ \text{lèèw}^4 \ \text{phòò}^1 \ han^0\)
3SG die PFV father TPC.PCL

‘He’d be dead, the father.’

The combination of ellipsis and movement may create structural ambiguity (again, the ‘t’ slot could be filled), such as the following in which the sentence-initial noun phrase could be interpreted as either an A in subject position, or an O in left-position:

(63) Surface sequence: \(N_P V_t\)
Underlying structure i.: \(LP_O/[\emptyset_A V_t O]\)
Underlying structure ii.: \([AV_t O]\)

\(\text{phuak}^4 \ \text{juu}^1 \ \text{nam}^2 \ \text{thaang}^2 \ ka^0 \ qaw^3\)
group be.at accompany road FOC.PCL take

i. ‘Those along the road, (they) took \(\emptyset_o\).’ (actual reading, 654.10)
ii. ‘Those along the road took (them/it).’ (possible reading)

In the next example, remarkable in showing surface OVA order in what is basically an AVO language, we can infer from the presence of the postverbphrasal particle \(dēj^2\) (which forms a right border to the core of the clause; cf. Figure 4.3.4.1-1 above), that the nominal \(\text{phu}^0\)-\(\text{saaw}^3\) ‘girl(s)’ is in Right Position (i.e. is postposed, and not in a pragmatically neutral position in the verb phrase).

(64) Surface sequence: \(N_P V_tPCLNP\)
Underlying structure i.: \(LP_O/[I_A V_tPCL]\)\(RP_A\)
Underlying structure ii.: \([AV_tPCL]\)\(RP_O\)

\(\text{tamluat}^5/mak^1 \ dēj^2 \ \text{\(\emptyset\)-saaw}^3 \ \toùm^3 \ nan^4\)
police like PCL girls time DEM.NONPROX

i. ‘Police, (they) liked (them), you know, the girls, back then.’ (actual reading, 375.4)
ii. ‘Police liked (them) you know, the girls back then.’

\(^{14}\) Note that there are ‘binding’ restrictions here, with respect to relative placement of pronouns and coreferential NPs — thus, *\(\text{phòò}^1 \ \text{taaj}^3 \ \text{lèèw}^4, \ \text{phen}^1\) (The father’d be dead, he).
A third parameter, namely ‘dual transitivity’ due to accessibility of a verb to both transitive and intransitive constructions (cf. §4.3.2, above), intersects with these constituent order options to create even further surface ambiguity. In the following examples of ‘NP V’ sequences, the sentence-initial noun phrase may be taken as either (i) an S, (ii) an A in subject position, with O ellipsed, or (iii) an O in left position, with A ellipsed (cf. Chao 1968: 72, 701 on the same alternation in Modern Standard Chinese):

(65) Surface sequence: NPV
Underlying structure i.: \([S_O V]\)
Underlying structure ii.: \([AV\emptyset_O]\)
Underlying structure iii.: \([LP_O/\emptyset_AV\emptyset_O]\)

(a) \(kaj^1\ kin^2\ lèèw^4\)
    chicken    eat    PFV
    i. ‘The chicken has been eaten.’
    ii. ‘The chicken has eaten (it).’
    iii. ‘The chicken, (they) have eaten.’

(b) \(khèèw^5\ bo^0\ than^2\ mii^2\)
    tooth  NEG  be.on.time  have/there.is
    i. ‘There were not yet any teeth.’ (possible reading)
    ii. ‘The teeth didn’t yet have (it/them).’ (possible reading)
    iii. ‘Teeth, (it/they) didn’t yet have.’ (actual reading, 853.8)

These are typical examples of the context-dependency of Lao grammar. There are no overt, surface means for disambiguation in examples such as (63-65). Such vagueness causes few problems in real use, since it is usually clear to interlocutors, given features of the semantic/pragmatic context, just which discourse participants are involved, and in what ways. The structures underlying the alternative analyses described here can be diagnosed by various syntactic tests such as insertion of overt arguments, and reversal of ‘movement’ to check if semantics are significantly altered.

4.3.4.2. The focus particle \(ka^0\)

An important element of the Lao clause is the focus particle \(ka^0\), appearing immediately before the main verb phrase (including its left aspect-modality marking), and immediately after the sentential subject.\(^{15}\) It is a sentence-level marker, and cannot appear inside clauses which are tightly subordinated, such as relative clauses or controlled complement clauses. The grammatical constraints on \(ka^0\) make it useful in diagnosing certain structural relationships in multi-verb constructions, as will become clear later in the chapter. The following examples are typical:

\(^{15}\) The \(ka^0\) slot (between subject and predicate) is a common site for hesitation/pausing, and \(ka^0\) itself is often prosodically extended (as \(kaa\); cf. Tagalog \(sa\), Himmelmann 2002). It may also appear as \(kö^0/köö^i\), although less commonly (despite the fact that it is always written in the Lao orthography as if it should be pronounced \(köö^i\)).
I describe $ka^0$ as having a ‘focussing’ function, but this is not supported by a resolved analysis and should be considered a working description. The precise meaning of $ka^0$ is elusive, and it clearly has a function associated with discourse-oriented notions such as ‘givenness’, ‘contrastiveness’ and ‘focus’ (Chafe 1994, Lambrecht 1994). It makes reference to prior discourse or assumed information, and requires that what immediately precedes it be given. Thus, for example, when it directly marks a subject entity (such as the pronominal subjects in (66-68)), that entity cannot be an interrogative pronoun (see (73-74), §4.4.1.6, below).

The import of $ka^0$ often emerges in English translations as ‘so/then’ (see (68), above) or ‘too/also’:

(69) $\text{khan}^2$ $\text{m"ung}^2$ $\text{paj}^3$ $\text{ku}"^3$ $\text{ka}^0$ $\text{paj}^3$
if 2SG go 1SG FOC.PCL go

‘If you go, then I go.’

(70) $\text{qaaj}^4$ $\text{kh"o\text{"oj}}^5$ $\text{suup}^5$ $\text{jaa}^3$ $\text{kh"o\text{"oj}}^5$ $\text{ka}^0$ $\text{suup}^5$ $\text{jaa}^3$
O.BRO 1SG smoke medicine 1SG FOC.PCL smoke medicine

‘My brother smokes; I smoke, too.’

In sentences isolated from context, the import of $ka^0$ can be entirely untranslatable. (For example, I am unable to render into English the subtle ‘focussing’ meaning of $ka^0$ in (67).)

I use the term ‘focus particle’ for $ka^0$ throughout this work, and it is beyond the scope of this study to say more than this about exactly what it means.\textsuperscript{16} The important point for our purposes is that $ka^0$ has particular properties with respect to the clause and the sentence and

\textsuperscript{16} This element has analogues in virtually all the surrounding languages, and the problem of describing it has vexed scholars. The matter deserves further attention, in Lao, and across the mainland Southeast Asia area.
the verb phrase, and is useful in grammatical tests for diagnosing some (covert) features of clausal organization. See §4.4.1.6, below.

That $ka^0$ is a pre-VP marker (in constituent structure terms) is demonstrated by the fact that it cannot appear between left position and subject. In a simple transitive sentence with the object fronted, in left position, $ka^0$ must appear between the subject (if expressed) and the verb, not after the topicalized first noun phrase (thus the ungrammaticality of (71b)):

(71) (a) \[pa^0\text{-dêèk}^3 \quad (khòòj^5) \quad ka^0 \quad kin^3\]
    \[\text{CT.FISH-jugged.fish} \quad (1SG) \quad \text{FOC.PCL} \quad \text{eat}\]
    ‘Jugged fish, (I) eat.’

    (b) \[\ast pa^0\text{-dêèk}^3 \quad ka^0 \quad hòòj^5 \quad kin^3\]
    \[\text{CT.FISH-jugged.fish} \quad \text{FOC.PCL} \quad 1SG \quad \text{eat}\]

A significant function of $ka^0$ is in marking off clausal topics from the predications that follow and scope over them, with a result often translationally equivalent to the English ‘for to’ construction:

(72) \[haw^2 \quad ca^0 \quad patisèêt^5 \quad ka^0 \quad bo^0 \quad pèn^3 \quad kaan^3\text{-som}^3\text{khùan}^2\]
    \[1SG \quad \text{IRR} \quad \text{refuse} \quad \text{FOC.PCL} \quad \text{NEG} \quad \text{be} \quad \text{NSR-appropriate}\]
    ‘For me to refuse would not be appropriate.’ (85.6)

A clue to the ‘focussing’ semantic function of $ka^0$ emerges from its interaction with the pronoun $phaj^3$ which may normally either mean ‘who’ (in a WH-question), or ‘whoever/anyone’ (in a declarative sentence). The following example, without $ka^0$, is ambiguous:

(73) \[phaj^3 \quad bo^0 \quad kin^3 \quad siin^4 \quad dip^2\]
    \[\text{who/anyone} \quad \text{NEG} \quad \text{eat} \quad \text{meat} \quad \text{raw}\]
    i. ‘Who doesn’t eat raw meat?’
    ii. ‘No-one eats raw meat.’ (i.e. ‘Anyone/everyone doesn’t eat raw meat.’)

Insertion of $ka^0$ after the subject $phaj^3$ ‘who/anyone’ disallows the interrogative reading ‘who?’ (by its requirement that the preceding constituent be ‘given’), forcing the declarative (73ii) reading:

(74) \[phaj^3 \quad ka^0 \quad bo^0 \quad kin^3 \quad siin^4 \quad dip^2\]
    \[\text{who/anyone} \quad \text{FOC.PCL} \quad \text{NEG} \quad \text{eat} \quad \text{meat} \quad \text{raw}\]
    ‘No-one at all eats raw meat.’ (i.e. ‘Anyone/everyone doesn’t eat raw meat.’)
    (NOT: ‘Who doesn’t eat raw meat?’)

That $ka^0$ is a sentence-level marker is further supported by the fact that it cannot appear in a clause which has been relativized, and which therefore functions as a modifier in a noun phrase:
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The predication in the relative clause does not say anything on the sentence level at all. What is being said in this sentence is said by the main verb \(bo^0 \ mak^l\) [NEG like] ‘don’t like’, and accordingly, just before this verb (including its left aspect-modality marking) is the only place where \(ka^0\) could be inserted in (75).

4.3.4.3. Disposal constructions

The ‘disposal construction’ (see §4.4.4, below for details) can be regarded as a syntactic permutation available for two-argument predicates whose transitivity (in the sense of Hopper and Thompson 1980) is high. More specifically, the construction is a permutation available only to two-argument clauses which constitute ‘Transitive constructions’, as described in §4.3.2, above. Thus, example (76a), describing a controlled agentive event in which the object argument is highly affected, is accessible to the ‘disposal’ alternation (76b). Example (77a), by contrast, describes a situation in which there is no action, in which the subject is not a controller or agent, and in which the object is not affected. Accordingly, the ‘disposal’ alternation is not available (77b):

(76) (a) \(kuu^3 \ khaa^5 \ paa^3\)

1SG kill fish

‘I kill (the) fish.’

(b) \(kuu^3 \ qaw^3 \ paa^3 \ ma^0 \ khaa^5\)

1SG take fish come kill

‘I kill (the) fish.’ (= ‘I take (the) fish and kill (it/them).’)

(77) (a) \(kuu^3 \ khiw^3 \ paa^3\)

1SG smelly fish

‘I find (the) fish smelly.’

(b) \(*kuu^3 \ qaw^3 \ paa^3 \ ma^0 \ khiw^3\)

1SG take fish come smelly

(I take the fish and find (it/them) smelly.)

Conditions for use of the disposal construction are related to information structure, but the facts are not yet clearly understood. (See §4.4.4, below, for further discussion; also Enfield 2002b: 23-25.)

4.3.5. Summary

This concludes our preliminary discussion of argument structure properties of basic (i.e. single-verb) clauses in Lao. Lao clauses are characterized by widespread ellipsis of retrievable arguments, widespread ambitransitivity of verbs, with a range of different variations in possibilities for alternation of semantic role of arguments, and widespread possibility for movement of arguments into pragmatically sensitive extra-clausal positions. The combination of these three features of Lao clause structure results in many situations in which the
fundamentals of predicate-argument relations cannot be read off from the surface form of Lao sentences, but must be resolved by reference to contextual information. We now turn to the domain of multi-verb constructions, in which the scope for structural ambiguity becomes even greater.

4.4. MULTI-VERB CONSTRUCTIONS

To understand how Lao speakers package information in clauses, including management of arguments in various roles and levels of functional, structural and informational status in the clause, as well as subordination and coordination of predicates, one has to understand multi-verb constructions. The same goes for any Tai language. In investigating the most basic issues of grammatical relations and argument structure in Lao, one immediately comes across unmarked V1-V2 sequences, and these conceal a great many structural distinctions (cf. Table 4.1-1 above). This section, making up the body of this chapter, describes a range of the most important structural categories of multi-verb constructions.17

4.4.1. Headship, ‘main verb properties’, and constituency tests

Lao speakers do not use case-marking or cross-referencing morphology, and seldom explicitly mark relationships of subordination (e.g. as speakers of other languages might do by infinitive verb forms or the like). There are few simple ways for grammarians to work out which element is the ‘head’ in compounds or complex predicates, and in addition there are ambiguities with respect to the distinction between coordinate and subordinate relationships between verb phrases which appear in surface sequence. Figuring out how various verbs are related in various kinds of unmarked multi-verb sequences dominates the task of describing Lao grammar. In this section, we consider some phenomena helpful in devising tests for discovering these relations.

In the rest of this section, I outline headship properties as defined by the following aspects of grammatical behaviour:

i. Grammatical features of canonical main verbs
ii. Clause separability
iii. Yes-answers
iv. Ellipsibility of object complements (in main and relative clauses)
v. Insertability of left aspect-modality marking
vi. Insertability of the focus particle \(ka^0\)

These are the topics of the following sub-sections.

4.4.1.1. Grammatical features of canonical main verbs

In assessing the respective roles of different verbs in multi-verb sequences, the question arises as to whether either of the two verbs is more or less accessible than the other to the normal grammatical features of main verbs. As discussed in §4.2, the class of verbs in Lao consists of words which may take: (a) direct negation with prefixed \(bôò^1/bô^0\), (b) direct irrealis marking with prefixed \(sì^0\), (c) marking of attainment with prefixed \(daj^4/daj^0\), (d) marking of currently relevant state with postverbal \(lèèw^4\) (among other possibilities of aspect-modality marking). Another property of verbs in Lao is that they may be used as nominal attributives in noun

17 Note that in referring to ‘multi-verb constructions’, I restrict this in general to sequences which normally form prosodically integrated units. Also, I do not use the term ‘serial verb construction’, although many of the constructions discussed here might be referred to by that term. The term ‘serial verb construction’ has been used in a range of ways in the literature (cf. Lord 1993, Durie 1997, Aikhenvald and Dixon 2006), and may be too suggestive of certain specific types of construction which form only a subset of the broader set of expressions described in this chapter.
phrases (comparable to adjectives, gerundive attributives and relative clauses in other languages; cf. khon2 suung3 [person tall] ‘tall person’, khon2 lèèn1 [person run] ‘running person’, khon2 paj3 [person go] ‘person (who) goes’), and in this role may be linked overtly to the modified noun by the relativizer thii1. Verbs in secondary or subordinate function often are not accessible to some or all of these properties.

4.4.1.2. Clause separability of multi-verb constructions

A multi-verb construction shows clause separability if it can be paraphrased with insertion of overt marking which forces a reading of the verbs as each belonging to an independent clause, and where this causes no significant change in the basic semantic relationship between those verbs (although, of course, certain pragmatic effects may arise).

One way to clause-separate a multi-verb construction is to insert between verbs a marked pause, and/or an adverbial expression such as lang3-caak5 nan4 ‘after that’, nòòk4-caak5 nan4 ‘apart from that; as well as that’, phùa1 ‘in order to’, or lùù3-vaa1 ‘or’. Another is to insert the clause-linker lèka0 ‘and then’ (a reduced form of the perfective lèèw4 ‘finish’ in combination with the VP-marking focus particle ka0; see §4.3.4.2, above; §4.4.1.6, below). In general (although not exclusively), the perfective lèèw4 ‘finish’ marks the previous clause, and the focus particle ka0 refers to the coming clause, whose subject being coreferential with that of the previous clause, and being tracked across these clauses, is naturally ellipsed. The result is that lèka0 routinely signals (but does not entail) consecutivity and subject coreferentiality between conjoined clauses. Other functions of lèka0 include distributive enumeration of actions which are not necessarily performed consecutively (cf. §4.4.10.1, below). While these various ways of clause-separating multiple verbs in a single construction alter the semantic content of the original string, what is important for clause-separability as a grammatical test is whether or not the insertion upsets the basic semantic relation between verbs.

Thus, the sequence ‘return come study’ in (78a) – not subordinating, apart from iconic temporal sequence – is clause-separable, as shown by the acceptability (with negligible change in semantic relationship between V1 and V2) of (78b) and (78c):

(78) (a) kap2-khùùn2 maa2 tòò1 pathêêt4 hian2
    back-return come continue country study

   ‘(They came) back to (their) country to continue (their) studies.’ (1202.2)

(b) kap2-khùùn2 maa2 pathêêt4 phìa1 hian2 tòò1
    back-return come country in.order.to study continue

   ‘(They came) back to (their) country in order to continue (their) studies.’ (= (78a))

(c) kap2-khiùn2 maa2 tòò1 pathêêt4 lèka0 hian2
    back-return come continue country CLNK study

   ‘(They came) back to (their) country and (they) continued (their) studies.’ (= (78a))

In contrast, (79a) – a subordinating complement construction – is non clause-separable, as shown by the significant change of semantic relationship between V1 and V2 in the clause-separated permutations (79b) and (79c):

18 Note that there are other linkers which seem at first glance very similar to lèka0 (such as la0, lèèw4, and loot4), but which certainly play subtly different functions in linking clauses in discourse. The issues are beyond the scope of the present discussion.
(79) (a) phuak⁴ khòòj⁵ hên³ man² ñing² baan⁴  
    group 1SG see 3SG shoot village  
    ‘We saw them bomb the village.’ (1157.7)

(b) phuak⁴ khòòj⁵ hên¹ man² - nòòk⁴ caak⁵ nan⁴ man² ñing² baan⁴  
    group 1SG see 3SG out from that 3SG shoot village  
    ‘We saw them – as well as that, they bombed the village.’ (≠(79a))

(c) phuak⁴ khòòj⁵ hên³ man² lèka⁰ ñing² baan⁴  
    group 1SG see 3SG CLNK shoot village  
    ‘We saw them and then bombed the village.’ (≠(79a))

Clause-separability as a grammatical test reveals differences in relationships between verbs in multi-verb constructions. In general, verb combinations involving relationships of subordination are not clause-separable.

4.4.1.3. The yes-answer

Polar questions in Lao are formed by taking a declarative sentence and adding one of a set of interrogative sentence-final particles, the most general or default being bòò³ (related to the negative bòò¹/bòò⁰):

(80) caw⁴ si⁰ paj³ talaat⁵ bòò³  
    2SG IRR go market PCL(Q)  
    ‘Will you go to the market?’

One way of yes-answering a polar question is to use an affirmative particle such as the very polite dooj³, the standard polite caw⁴, or the informal qee⁴/qee⁵. Another common method of affirmative answer is to repeat some portion of the question, typically the main verb alone:

(81) (khòòj⁵) (si⁰) paj³ (talaat⁵) (*bòò³)  
    1SG IRR go market PCL(Q)  
    ‘(Yes, I will) go (to the market).’

Thus, as a yes-answer to (80), paj³ ‘go’ could appear alone or in combination with any of the other elements in the question (apart from the interrogative particle itself). The important thing here with respect to the yes-answer as a test for main-verbhood is that in answering (80) by means of repetition of some portion of the question, the main verb paj³ ‘go’ is necessary and sufficient as a yes-answer. Also importantly, preverbal aspect-modality markers such as irrealis si⁰, preverbal daj⁰, and inner directional particles, can never appear alone.

The following complement construction shows the verb suup⁵ ‘suck/smoke’ subordinate to the main complement-taking predicate haam³ ‘to forbid’:

(82) khaw³ haam³ suup⁵  
    3PL forbid smoke  
    ‘They forbid (people) to smoke (it).’ (117.10)
A question is formed by adding the interrogative particle $bòò^3$:

(83) \[
  \text{khaw}^3 \quad \text{haam}^5 \quad \text{suup}^5 \quad \text{bòò}^3 \\
  3\text{PL} \quad \text{forbid} \quad \text{smoke} \quad \text{PCL(Q)} \\
\]

‘Do they forbid (people) to smoke (it),[' 

Only the matrix verb $\text{haam}^5$ ‘forbid’ can appear alone as a yes-answer here:

(84) $\text{haam}^5$ 

‘(Yes, they) forbid (people to smoke it).’

On the other hand, in the case of ‘want’ complement constructions, the usual yes-answer includes both the matrix verb $\text{jaak}^5$ ‘want’ and its equi complement verb:

(85) \[
  \text{Q: caw}^4 \quad \text{jaak}^5 \quad \text{paj}^3 \quad \text{bòò}^3 \\
  2\text{SG} \quad \text{want} \quad \text{go} \quad \text{PCL(Q)} \\
\]

‘Do you want to go?’

\[
  \text{Ai: jaak}^5 \quad \text{paj}^3 \\
  \text{want} \quad \text{go} \\
\]

‘(Yes, I) want to go.’

However, it is also possible to answer the question using either the main verb $\text{jaak}^5$ ‘want’ alone:

(85) Aii \[
  \text{jaak}^5 \\
  \text{want} \\
\]

‘(Yes, I) want (to go).’

or the equi complement alone:

(85) Aiii \[
  \text{paj}^3 \\
  \text{go} \\
\]

‘(Yes, I want to) go.’ (or – ‘(Yes, I’ll) go.’)

The difference between these two replies is that (85)Aiii is arguably not a straight answer to (85)Q (i.e. in that it does not directly respond to the sentence-meaning of the question – cf. English ‘I’ll go’ as an answer to ‘Do you want to go?’).

Other complement-taking predicates which are borderline between full complement-taking verbs and preverbal aspect-modality markers similarly show varying yes-answer properties. A notable example is $\text{kheej}^2$ ‘accustomed to, have ever’, which allows ‘V1’, ‘V2’, or ‘V1-V2’ as yes-answers to a question ‘V1-V2?’, but differs from $\text{jaak}^5$ ‘want’ in that the preferred yes-answer is V1 alone (rather than ‘V1-V2’):
Q: caw⁴ kheej² paj³ bòò³  
2SG ever go PCL(Q)  
‘Have you ever been?’

Ai: kheej²  
ever  
‘(Yes, I have) ever (been).’ (preferred)

Aii: kheej² paj³  
ever go  
‘(Yes, I have) ever been.’

Aiii: paj³  
go  
‘(Yes, I have ever) been.’ (or – ‘(Yes, I) go.’)

Again, it is arguable whether paj³ ‘go’ in (86Aiii) is a straight answer (i.e. a direct response to the sentence-meaning of the original question). Otherwise, it is unclear what the communicative difference between these responses is.

In contrast, for right-headed adverbial complement constructions (§4.4.6.3, below), yes-answer status is unequivocally with V2:

Q: caw⁴ paj³ viang²-can³ muan¹ bòò³  
2SG go Vientiane fun PCL(Q)  
Did you have fun going to Vientiane?’

Ai: muan¹  
fun  
‘(Yes, I had) fun.’

Aii: *paj³  
go  
‘(Yes, I went.)

Q: faaj¹ viang²-can³ sanaq¹ dii³ bòò³  
side Vientiane win good PCL(Q)  
‘(Would it be) good (if) the Vientiane side won?’

Ai: dii³  
good  
‘(Yes, it would be) good.’

Aii: *sanaq¹  
win  
‘(Yes, it would) win.’
Compare these with cases in which the verbs in sequence are coordinated/compounded – as in the synonym compound (89) (cf. §4.4.10.2, below), or the left-marking adverbial compound (90) (cf. §4.4.6.4.1, below) – and cannot be separated in a minimal straight yes-answer:

(89) Q: \textit{man}² \textit{niit}-paq² \textit{naang}² \textit{qan}⁰-niit⁰ bōò³
3SG flee-abandon young.woman CLF-DEM.GEN PCL(Q)

‘Did he abandon that young woman?’

Ai. \textit{niit}-paq²
flee-abandon
‘(Yes, he) abandoned (her).’

(90) Q: \textit{lak}¹-khaam⁵ saaj²-dèèn³ bōò³
steal-cross border PCL(Q)

‘(Did they) secretly cross the border?’

A: \textit{lak}¹-khaam⁵
steal-cross
‘(Yes, they) secretly crossed (it).’

In sum, three types of yes-answer behaviour can be determined for a given V1-V2 combination:

\textbf{TABLE 4.4.1.3-1: THREE TYPES OF V1-V2 COMBINATION, BY YES-ANSWER BEHAVIOUR.}

<table>
<thead>
<tr>
<th>Preferred yes-answer</th>
<th>V1</th>
<th>V2</th>
<th>V1-V2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Examples</td>
<td>Cognitive complements ‘see’, ‘forget’, ‘hear’, and phase complements such as ‘begin’ and ‘cease’.</td>
<td>Complement structures with adverbials or resultatives in V2 position.</td>
<td>Verb compounds (coordinative and adverbial).</td>
</tr>
</tbody>
</table>

4.4.1.4. Ellipsibility of object complements

4.4.1.4.1. Ellipsibility of object complements in main clauses

As already mentioned, ellipsis of nominal complements is normal and widespread in Lao. Any main verb in a simple clause can be expressed without accompanying phonological material referring to its arguments (cf. examples (2-4), above):

(91) \textit{kuu}³ \textit{kin}³ \textit{maak}³ \textit{niit}⁴ \textit{tēè}¹ \textit{mùng}² bō⁰ \textit{kin}³ ø
1SG eat fruit DEM.GEN but 2SG NEG eat

‘I eat this fruit, but you don’t eat (it).’

Also, many (but not all) verb-prepositions – i.e. verbs marking non-core participants – may ellipse their complements:
mùng₂ paj₃, kuu³ jaak⁵ paj₃ nam² o
2SG go 1SG want go accompany
'(If) you go, I want to go with (you).'

It is less clear whether the verb phrase or sentence complements of complement-taking main verbs can in general be ellipsed, and in many cases it would seem impossible:

??mùng² jaak⁵ paj₃ tèè¹ kuu³ bo⁰ jaak⁵ o
2SG want go but 1SG NEG want
('You want to go, but I don’t want to.‘)

Clearly, however, main complement-taking predicates cannot normally be ellipsed. Thus, the following example does not mean ‘You want to go, but I don’t want to’ (i.e. where jaak⁵ ‘want’ is ellipsed from the second clause):

mùng² jaak⁵ paj₃ tèè¹ kuu³ bò⁰ paj₃
2SG want go but 1SG NEG go
‘You want to go, but I’m not going.’

Moreover, the effect cannot be achieved by removing the whole verb complex (i.e. jaak⁵ paj₃ ‘want to go’) under identity with that of the previous clause:

*mùng² jaak⁵ paj₃ tèè¹ kuu³ bo⁰
2SG want go but 1SG NEG
(You want to go but I not.)

*mùng² jaak⁵ paj₃ tèè¹ bo⁰ kuu³
2SG want go but NEG 1SG
(You want to go but not me.)

4.4.1.4.2. Ellipsibility of object complements in relativization

An exception to the general rule in Lao that any noun phrase can be ellipsed under contextual retrievability is the requirement that in a relative clause some phonological material corresponding to the argument being relativized upon must appear (i.e. as the nominal modified by the relative clause). Consider the following examples, showing a simple transitive clause in (97a), and in (97b) this clause relativized, in object function, with the erstwhile subject as head (using khon² ‘person’):

19 Occasional exceptions are noted, but these are not really relative clauses, rather sentences in left/right position, with ellipsed subjects. I heard and noted the following example (Oudom Xay, September 1999): tok² vang⁶-kii⁷ ni⁰, caw⁴ kêp² lèew⁴ vaa³ [fall just.now, 2SG collect PFV PCL] ‘Did you pick up (the thing that) fell just now?’, in which the string tok² vang⁶-kii⁷ ni⁰ ‘fell just now’ could be mistaken for a relative clause with no head noun being modified. However, unlike a regular (headed) relative clause, it cannot appear with this meaning in a core argument slot: *caw⁴ kêp² tok² vang⁶-kii⁷ ni⁰ lèew⁴-vaa³ (Did you collect what fell just now?). I suggest that a more faithful translation of the original example would be ‘(It) fell just now, did you pick (it) up?’.

20 Note that (97b) is in fact a multi-verb sequence, with the verbs hên¹ ‘see’ and mak⁴ ‘like’ adjacent. Such sequences are not discussed further in this chapter.
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(97) (a) \(qi^0\)-dam^3 \(mak^1\) \(bak^0\)-dèèng^3
CLF.FEM-D. like CLF.MASC-D.
‘Dam likes Deng.’

(b) \(kuu^2\) hên^3 *(khon^2) \(mak^1\) \(bak^0\)-dèèng^3
1SG see person like CLF.MASC-D.
‘I saw the person who likes Deng.’

These examples, showing that a relative clause cannot appear without an explicit nominal head to modify, involve a simple transitive verb \(mak^1\) ‘like’. Now we consider relative clauses derived from clauses containing multi-verb constructions, and the question arises as to whether one or the other verb can be ellipsed. The possibilities are different for different constructions.

For example, the following head-final adverbial construction includes the verb \(muan^1\) ‘enjoyable’ in V2 position:

(98) laaw^2 lin^5 kitaa^3 muan^1
3SG play guitar enjoyable
‘S/he plays guitar nicely (i.e. her playing sounds good).’

While the adverbial V2 \(muan^1\) ‘enjoyable’ is head for yes-answer purposes, it cannot stand alone in a relative clause and retain its adverbal function. Instead, if it appears alone (as in (99b, 100b), below), it is taken for a main verb (in this case ‘adjective’) in itself:

(99) (a) \(khòòj^5\) hên^3 [khon^2 \(lin^5\) kitaa^3 \(muan^1\)]
1SG see person play guitar enjoyable
‘I saw the person who plays guitar nicely.’

(b) \(khòòj^5\) hên^3 \(muan^1\) [\(khon^2\)]
1SG see enjoyable person
‘I saw the enjoyable/fun person.’ (not entailed by (99a))

(100) (a) \(khòòj^5\) hên^3 [kitaa^3 \(lin^5\) \(muan^1\)]
1SG see guitar play enjoyable
‘I saw the guitar that is enjoyable to play.’

(b) \(khòòj^5\) hên^3 [kitaa^3 \(muan^1\)]
1SG see guitar enjoyable
‘I saw the enjoyable/fun guitar.’ (not entailed by (100a))

In contrast, V2 complements of left-head complement-taking predicates such as \(haam^5\) ‘forbid’ or \(huu^4\) ‘know’ are optional in relative clauses:

(101) (a) \(khòòj^5\) haam^5 suup^5 jaa^3 hên^3 \(khon^2\)
1SG forbid smoke medicine see person
‘I saw the person who forbade (you) to smoke.’
(b) \( khòòj^5 \ hên^3 \ khon^2 \ haam^5 \)
1SG see person forbid

‘I saw the person who forbade (you).’ (entailed by (101a))

(102) (a) \( khòòj^5 \ hên^3 \ khon^2 \ huu^4 \ vaa^1 \ caw^4 \ juu^1 \ han^5 \)
1SG see person know COMP 2SG be.at there

‘I saw the person who knows you were there.’

(b) \( khòòj^5 \ hên^3 \ khon^2 \ huu^4 \)
1SG see person know

‘I saw the person who knows.’ (entailed by (102a))

In sum, while a relative clause must attach to a nominal head, there is a logical possibility in the case of multi-verb constructions that one of the verbs can be omitted. Left- and right-headed V1-V2 structures behave differently with respect to this possibility, due to the contrasting status of V1, and V2, respectively, as head.

4.4.1.5. Insertability of left aspect-modality marking

Certain aspect-modality marking appears immediately before the verb, a fact which allows for distinction between certain types of multi-verb construction. Thus, in a V1-V2 sequence, we may ask whether an aspect-modality marking such as \( bò0 \) ‘NEG’ or \( si0 \) ‘IRR’ appears before V1, V2, either, or neither. For example, in the case of verb compounds (§4.4.10.2, below), no marking of V2 is possible (103), while in resultative constructions (§4.4.6.2, below) it is usually possible for either V1 or V2 to be directly marked (104):

(103) (a) \( man^2 \ bò0 \ daj0 \ nit^5-paq^2 \)
3SG NEG ACHV flee-abandon

‘He didn’t abandon (her).’

(b) \( man^2 \ nit^5 \ bò0 \ daj0 \ paq^2 \)
3SG flee NEG ACHV abandon

(NOT: ‘He didn’t abandon (her).’)

Possible reading: ‘He fled, he didn’t abandon (her).’

(104) (a) \( man^2 \ bo0 \ daj0 \ piing^4 \ suk^2 \)
3SG NEG ACHV grill cooked

‘It did not, by grilling, get cooked.’

(b) \( man^2 \ piing^4 \ bo0 \ daj0 \ suk^2 \)
3SG grill NEG ACHV cooked

‘It, by grilling, did not get cooked.’
4.4.1.6. **Insertability of focus particle ka₀**

In §4.3.4.2, above, we encountered the focus particle $ka₀$. We now consider how it is useful in understanding grammatical properties of different multi-verb constructions. We begin with tight complementation structures (see §4.4.9, below, for discussion of different complement types), a permissive and a causative, respectively:

(105) $\begin{array}{l}
\text{phen}^1 \ bò^0 \ haj^5 \ ø \ paj^3 \\
3SG \ \text{NEG} \ \text{give} \ \text{go}
\end{array}$

‘He wouldn’t let (me) go.’

(106) $\begin{array}{l}
baang^3-thùa^1 \ ø \ hêt^1 \ kèèw^4 \ tèèk^5 \\
some-occasion \ \text{do/make} \ \text{glass} \ \text{break}
\end{array}$

‘Sometimes (I) might break a glass.’

The following text examples show $ka₀$ appearing immediately after the main subject slot of these constructions:

(107) $\begin{array}{l}
\text{phen}^1 \ ka^0 \ bò^0 \ haj^5 \ ø \ paj^3 \\
3SG \ \text{FOC.PCL} \ \text{NEG} \ \text{give} \ \text{go}
\end{array}$

‘So, he wouldn’t let (me) go.’ (332.2)

(108) $\begin{array}{l}
baang^3-thùa^1 \ ø \ ka^0 \ hêt^1 \ kèèw^4 \ tèèk^5 \\
some-occasion \ \text{FOC.PCL} \ \text{do/make} \ \text{glass} \ \text{break}
\end{array}$

‘So, sometimes (I) might break a glass.’ (1001.9)

If $ka₀$ appeared after the lower subject slot in these examples (i.e. before $paj^3$ ‘go’ and $tèèk^5$ ‘break’, respectively), the embedded complement readings would not be possible at all. Thus, with $ka₀$ after the lower subject slot, marked by ‘ø’ in (107), as follows, the verb $paj^3$ ‘go’ and its subject would no longer be embedded under $haj^5$ ‘give/make/let’, but as the translations reveal, the two verbs would belong to distinct clauses (note that further readings are possible, as indicated by ‘...’):

(107') $\begin{array}{l}
\text{phen}^1 \ bò^0 \ haj^5 \ øk a^0 \ paj^3 \\
3SG \ \text{NEG} \ \text{FOC.PCL} \ \text{go}
\end{array}$

i. ‘(So, even if) they don’t give (it to me), (I’ll) go (anyway).’

ii. ‘(If) they don’t give (it to me), (so then I’ll) go.’

The verbs $haj^5$ ‘give’ and $paj^3$ ‘go’ are interpreted in (107') as heads of separate clauses, coordinated. $Paj^3$ ‘go’ functions as an independent verbal head, with the result that $haj^5$ ‘give’ is not interpreted in its causative complement-taking sense ‘give/make/let’, and instead is interpreted as a regular main verb, literally, ‘give’. The overall expression, with two separate clauses, may then take on a conditional meaning (arising from the need to interpret a relevant link between the juxtaposed clauses).

Similarly, to take example (108) and move the focus particle $ka₀$ to the point immediately before V2 would again disallow a reading in which the lower clause (i.e. $kèèw^4 \ tèèk^5$ [*glass break’]) were subordinate to the higher verb $hêt^1$ ‘do/make’, and would instead force a biclausal coordination reading (again, readings other than (i) and (ii) are possible):
some-occasion do/make glass FOC.PCL break
i. ‘Sometimes (I) might make a glass, and (it) will (also) break.’
ii. ‘Sometimes (when) (I) do (it), the glasses (also) break.’

Insertion of ka⁰ before V₂ in the preceding examples causes a radical change in interpretation, depending on the nature of the relationship between V₁ and V₂. In other cases, however, there is more than one option for ka⁰-insertion. Consider the following two right-marking adverbial constructions (cf. §4.4.6.3-4.4.6.4, below):

(109) (a) laaw¹ tèèm⁴ huup⁴ lin⁵
3SG paint picture play
’S/he paints pictures for fun.’
(b) laaw¹ tèèm⁴ huup⁴ kêng¹
3SG paint picture adept
’S/he’s good at painting pictures.’

These naturally both allow insertion of ka⁰ immediately after the main subject laaw¹ ‘s/he’, marking off the whole verb sequence in each case as a predication about the focussed initial nominal:

(110) (a) laaw² ka⁰ tèèm⁴ huup⁴ lin⁵
3SG FOC.PCL paint picture play
’S/he also paints pictures for fun.’
(b) laaw² ka⁰ tèèm⁴ huup⁴ kêng¹
3SG FOC.PCL paint picture adept
’S/he’s also good at painting pictures.’

However, only (109b) allows insertion of ka⁰ before V₂:

(111) (a) *laaw² tèèm⁴ huup⁴ ka⁰ lin⁵
3SG paint picture FOC.PCL play
(S/he also paints pictures for fun.)
(b) laaw² tèèm⁴ huup⁴ ka⁰ kêng¹
3SG paint picture FOC.PCL adept
’S/he’s also good at painting pictures.’

The issue here is how the post-ka⁰ verb in a construction such as (111b) (here, it is kêng¹ ‘adept’) relates semantically to what precedes it, e.g. whether the main subject has a semantic role with respect to V₂, and if so, what role it is. In (109-111), kêng¹ ‘adept’ is a gradable state verb (‘adjective’), which may be construed in this case as either predicating a property of the main subject ‘s/he’, or (adverbially) of a whole predication ‘S/he paints pictures’.

The unacceptability of (111a) suggests that lin⁵ ‘play’ in (109a) does not have the same outer scope as kêng¹ ‘adept’, and belongs in an inner clause layer, where it directly marks the
verb phrase only, not the subject alone, and not the sentence as a whole. This distinction between the behaviour of (109a) and (109b) relates to a distinction between compounding versus complementation in right-headed adverbial constructions, and active versus stative aspectual structure of an adverbial V2 head (compare stative kêng¹ ‘adept’ versus active lin⁵ ‘play’). See §4.4.6.3- 4.4.6.4, below, for further discussion.

The focus particle ka⁰ belongs in a post-subject/pre-VP slot on the sentence level. It cannot appear in the post-subject/pre-VP slot of an embedded clause, or a relative clause (as noted in §4.3.4.2, above). That it can appear before certain V2 resultative/adverbials suggests that the latter can be structurally main-predicate like, more so than the verbs in their sentential ‘subjects’. This structural distinction is helpful in working out distinctions between various types of V1-V2 sequences.

4.4.1.7. Comment

This finishes our preview of various structural tests which help to distinguish between different types of V1-V2 strings. The remainder of §4.4 is concerned with describing the various V1-V2 constructions, and the grammatical distinctions between them. (See Table 4.5.2-1, at the end of the chapter, for a summary of the constructions.)

4.4.2. Deverbal aspect/modality marking

A number of regular verbs have secondary roles as aspect-modality markers. Whether one takes this to mean that they are polysemous (have multiple meanings, i.e. as a verb in one context and an aspect-modality marker in another context), or monosemous (have single abstract meanings applicable in all their uses), or subject to derivational processes (marked by a zero morpheme), they are nonetheless relevant to our theme in that they present us with sequences of more than one lexical item identifiable as a ‘verb’ together in a single clause.

Most aspectual/modals appear immediately before the verb, and some appear after the object. (Only a few – e.g. daj⁴ ‘acquire, attain, can’, than² ‘be on time, (not) yet’ – may appear either before or after the verb, and in each case their meaning is different in the two positions.) The relative order, roughly speaking, of the preverbal aspect/modality categories to be discussed here is as follows (‘ASP/MOD’ are less restricted aspect-modality slots; this figure is an expansion of ‘AM-[V (OBJ)]-AM’ in Figure 4.3.4.1-1, above):

\[
\text{ASP/MOD} \cdot \text{IRR} \cdot \text{NEG} \cdot \text{ASP/MOD} \cdot \text{daj⁰} \cdot \text{DIR.PCL} \cdot [\text{VERB} \ (\text{OBJ})] \cdot \text{ASP/MOD}
\]

**FIGURE 4.4.2-1: ELEMENTS OF THE LAO VERB PHRASE, IN ORDER**

The Lao clause shows a tight bond between the verb and its immediate complement, and there is no syntactic slot available for intervening material. Many aspectual/modals are transparently related to existing verbs, and as such are of transitional or grammaticalising status (e.g. from complement-taking main verbs to simple preverbal markers).

There are also some non-deverbal aspect-modality markers, which we now preview. Two preverbal irrealis markers si⁰ and ca⁰ are mutually substitutable, the occasional difference being stylistic, or associated with idiomatic combinations with other grammatical elements (e.g. the complex relativizer thii²-ca⁰; cf. ungrammatical *thii²-si⁰). These commonly have the effect of marking future tense, as follows:

21 Speakers of neighbouring Thai use ca⁰ alone for much the same range of functions as ca⁰ and si⁰ together in Lao. This, like other uses more idiomatic in Thai, sometimes carries a more formal feel in Lao—correspondingly, si⁰ is considered ‘more Lao’.
They may also have a ‘relative future tense’ function, i.e. marking temporal posteriority, but not necessarily with respect to the speech event itself:

(114) \[ \text{mu}^0\text{-vaan}^1 \text{ nii}^4 \text{ khoöj}^5 \text{ si}^0 \text{ paj}^3 \text{ talaat}^5 \text{ tèè}^1 \text{ bo}^0 \text{ miit}^2 \text{ vélaa}^2 \]  
\[ \text{yesterday DEM.GEN 1SG IRR go market but NEG have time} \]

‘Yesterday, I was going to go to the market, but I didn’t have time.’

A subjunctive/conditional meaning is also common:

(115) \[ \text{si}^0 \text{ khap}^2 \text{ lot}^1 \text{ ka}^0 \text{ bo}^0 \text{ tòong}^4 \text{ kin}^4 \text{ law}^5 \]  
\[ \text{IRR drive vehicle FOC.PCL NEG must consume liquor} \]

‘(If you)’re going to drive, (you) needn’t drink liquor.’

Another non-deverbal left-marking aspectual/modal is the negation marker \( bò^0 \). It follows irrealis marking (\( st^0 /ca^0 \)), as in the following two examples:

(116) \[ \text{baang}^3\text{-thii}^2 \text{ man}^2 \text{ ka}^0 \text{ bo}^0 \text{ môq}^2 \text{ paan}^3\text{-daj}^3 \]  
\[ \text{maybe 3SG FOC.PCL IRR NEG appropriate extent-which} \]

‘Maybe it wouldn’t be very appropriate [i.e. to have too many chickens, when making a chicken coop].’ (20.9)

(117) \[ \text{khoöj}^5 \text{ si}^0 \text{ bo}^0 \text{ hian}^2 \text{ nangsiùù}^3 \text{ tòò}^1 \text{ qiik}^5 \]  
\[ \text{1SG IRR NEG study writing connect more} \]

‘I wasn’t going to study any further.’ (608.14)

In the following sections, we look at deverbal aspect-modality markers, and we consider their relation to full verb functions. We begin with those which appear before the verb.

### 4.4.2.1. Preverbal deverbal aspectual/modals

Most left aspectual/modals are related to verbs in complement-taking functions. The relative ordering of these is fairly fixed, with most coming after the irrealis ‘IRR’ and negation ‘NEG’ slots in Figure 4.4.2-1.

A number of aspectual/modals may appear directly after negation, some idiomatically restricted to negated contexts only. For example, \( suu^1 \) and \( khoöj^3 \) must always be negated (yielding \( bò^0\text{-}suu^1\text{-}V \) ‘not tending to V’ and \( bò^0\text{-}khoöj^3\text{-}V \) ‘not particularly V’):

(118) \[ \text{ngen}^3 \text{/khaw}^3 \text{ bo}^0 \text{ suu}^1 \text{ daj}^0 \text{ saj}^4 \text{ laaj}^3 \]  
\[ \text{money 3PL NEG tend.to ACHV use much} \]

‘Money, they didn’t tend to use much (then).’ (246.14)
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(119) \textit{khòòj}^{5} \textit{bò}^{0} \textit{khòòj}^{1} \textit{mii}^{2}
1SG NEG particularly have

‘I haven’t particularly had (money).’ (638.1)

These are surely related to the verbs \textit{khòòj}^{1} ‘gradual’ and \textit{suu}^{1} ‘reach, towards’.

Another example of deverbal left aspect-modality marking which only appears with negation is \textit{than}^{2}, which as a main verb means ‘be on time for (something)’, and as a preverbal aspectual/modal means ‘yet’ (but always explicitly negated, as \textit{bò}^{0} \textit{than}^{2} meaning ‘not yet’):

(120) \textit{tòòn}^{3} \textit{nan}^{4} \textit{qisalaq}^{2} \textit{bò}^{0} \textit{than}^{2} \textit{mii}^{2} \textit{ñang}^{3} \textit{déj}^{2}

time that I. NEG yet have anything PCL

‘At that time, the Issara (freedom fighters) didn’t yet have anything, you know.’ (411.13)

A left aspectual/modal which appears in the post-negation slot, but which does not require negation, is \textit{tòòng}^{4}, meaning ‘must’ (and as a main verb meaning ‘touch, strike’):

(121) \textit{tòòng}^{4} \textit{haj}^{5} \textit{laaw}^{2} \textit{khit}^{0} \textit{khak}^{0}-\textit{khak}^{1} \textit{khian}^{3} \textit{vaj}^{4} \textit{sakòòn}^{1}

must give 3SG think RDP-clear write fix.in.place PCL

‘(We) have to get him to think hard about it, and write some (stories) down.’ (211.3)

(122) \textit{qan}^{0} \textit{ni}^{4} \textit{nii}^{0} \textit{bò}^{0} \textit{tòòng}^{4} \textit{qaw}^{3} \textit{ma}^{0}

thing DEM.GEN TPC.PCL NEG must take DIR.PCL(come)

open be.at country Lao

‘This (recording) here, you needn’t bring (it and) play (it) in Laos.’ (642.13)

It is possible to combine \textit{tòòng}^{4} as an aspectual/modal with \textit{tòòng}^{4} as a main verb:

(123) \textit{bò}^{0} \textit{tòng}^{4} \textit{tòòng}^{4} \textit{dee}^{4}

NEG must touch PCL

‘There’s no need to touch (it)!’

Immediately before the main verb, and after all other left aspect-modality marking, the directional particles \textit{paj}^{0} ‘go’ and \textit{ma}^{0} ‘come’ may appear (cf. full verbs \textit{paj}^{3} ‘go’ and \textit{maa}^{2} ‘come’). These denote directionality of the action – literally or figuratively – with respect to the subject. These ‘inner directionals’ are always unstressed and atonal in this position:

(124) \textit{haw}^{2} \textit{phú}^{0}-\textit{núng}^{4} \textit{veej}^{4} \textit{si}^{0} \textit{paj}^{0} \textit{sòòj}^{1} \textit{kan}^{5}

1SG CLF.PERSON-one PCL IRR DIR.PCL(go) help RCP

‘I alone will go and help them.’ (165.16)
As a left aspectual/modal, \textit{daj}$^0$, elsewhere a main verb meaning ‘come to have’, has a slot of its own, after post-negation aspectual/modals, and before inner directionals. It has a meaning glossed here as ‘ACHV’ (with interpretations ranging from ‘achievement’ to ‘must’ to ‘get to’ to ‘manage to’; cf. Enfield 2003: Chapter 3):

\begin{verbatim}
(126) tòò1 paj 3 nii 4 si0 daj 0 sanee 3 law 1 nithaan2

connect go DEM.GEN IRR ACHV introduce tell tale

lùang1 sin 3saj2

story S.

‘Now, (I must) introduce the tale of Sinsay.’ (152.6)
\end{verbatim}

Examples in this section have shown that a main verb may be left-marked by a string of morphemes with aspectual and/or modal function, in a reasonably fixed order (as specified in Figure 4.4.2-1). Only those morphemes that fill the irrealis and negation slots are not deverbal (i.e. they are the only ones not transparently related to full verbs).

The greater verbiness of the pre-irrealis and post-negation aspect-modality slots shows up in stress/intonation patterns. These elements normally take stress. The \textit{daj}$^0$ and directional slots are seldom if ever stressed, and negation also is usually not. However, if negation appears with a left aspectual/modal (apart from ‘irrealis’), the modal takes stress, and the negative marker goes unstressed. Pre-irrealis aspectual/modals are also usually stressed.\footnote{Intonation is an important component of the grammar of Lao, about which little is yet known.}
also to be more freely movable around the verb complex. Thus, some post-negation aspectual/modals may appear after \textit{daj}\textsuperscript{0}, as in the following example, derived from (118) above (repeated below example (131) for convenience):

\begin{align*}
\text{(131) } & \text{ngen}^2/ \text{khaw}^3 \text{ bo}^0 \text{ daj}^0 \text{ suu}^1 \text{ saf}^4 \text{ laaj}^3 \\
& \text{money 3PL NEG ACHV tend.to use much} \\
& \text{‘Money, they didn’t tend to use much (then).’}
\end{align*}

\begin{align*}
\text{(118) } & \text{ngen}^2/ \text{khaw}^3 \text{ bo}^0 \text{ suu}^1 \text{ daj}^0 \text{ saf}^4 \text{ laaj}^3 \\
& \text{money 3PL NEG tend.to ACHV use much} \\
& \text{‘Money, they didn’t tend to use much (then).’ (246.14)}
\end{align*}

There is apparently no difference in meaning between these two examples. Some pre-irrealis aspectual/modals, being adverbial in nature, may appear sentence-initially (i.e. before the subject), as the following examples of \textit{kùap}\textsuperscript{5} ‘almost’ illustrate:

\begin{align*}
\text{(132) } & \text{kùap}^5 \text{ khòòj}^5 \text{ lom}^4 \\
& \text{almost 1SG fall.over} \\
& \text{‘I almost fell over.’}
\end{align*}

\begin{align*}
\text{(133) } & \text{khòòj}^5 \text{ kùap}^5 \text{ lom}^4 \\
& \text{1SG almost fall.over} \\
& \text{‘I almost fell over.’}
\end{align*}

Note that placement of the focus marker \textit{ka}\textsuperscript{0} is always before \textit{all} the left aspectual/modals described here (see examples (116), (125), and (130), above). In every example discussed so far in this section, \textit{ka}\textsuperscript{0} is insertable immediately before the leftmost verbal marker. Given the known properties of \textit{ka}\textsuperscript{0} (cf. §4.3.4.2, §4.4.1.6, above) we may conclude from this that the first left aspectual/modal is the leftmost element of the sentence-level verb phrase.

Examples with all the slots in the verb complex shown in Figure 4.4.2-1 filled are rare. None occur in my corpus, but the following constructed example is considered by informants to be a natural sounding sentence:

\begin{align*}
\text{(134) } & \text{laaw}^2 \text{ khiù}^2 \text{ si}^0 \text{ bo}^0 \text{ khòòj}^4 \text{ daj}^0 \text{ paj}^3 \text{ kin}^3 \\
& \text{3SG probably IRR NEG particularly ACHV DIR.PCL(GO) consume} \\
& \text{kafêê}^2 \text{ lèèw}^4 \\
& \text{coffee PF} \\
& \text{‘S/he probably doesn’t tend to get to go and drink coffee anymore.’}
\end{align*}

These and other details of the internal complexities of preverbal aspect-modality marking need not be discussed further here. We now consider their relevance to the topic of this chapter, namely their status as ‘verbs’ in surface strings involving other verbs.

4.4.2.2. Preverbal aspectual/modals or complement-taking predicates?

Given that certain preverbal aspectual-modals double as verbs, then in certain apparent V1-V2 strings, the V1 element may be interpreted as either a complement-taking predicate with a V2 verbal complement, or as a left aspect-modality marker of a single main verb to its right. It is
often difficult to make a decisive analysis one way or the other, since the path of grammaticalization is from complement-taking predicate to preverbal marker, with accompanying semantic change. It is not always possible to say when a V1 element has become ‘grammatical’ and is no longer ‘lexical’, but there are illustrative cases in which the V1 element is clearly polysemous, with one aspectual-modal meaning and one full verb meaning. We consider the two examples of \textit{mak}¹ ‘like, tend to’ and \textit{jaak}³ ‘want, somewhat’.

4.4.2.2.1. \textit{mak}¹ ‘like, tend to’

As a complement-taking predicate, \textit{mak}¹ means ‘like to’, as illustrated in the following examples:

(135) \textit{bò}⁰ \textit{mak}¹ \textit{hêt}¹ \textit{ka}⁰ \textit{taam}³ \textit{caw}⁴  
\textit{NEG like do/work FOC.PCL follow 2SG}  
‘(If you) didn’t like working, then that was up to you.’ (773.11)

(136) \textit{tèè}³ \textit{vaa}¹ \textit{khoòj}⁵ \textit{mak}¹ \textit{paj}³ \textit{beng}¹ \textit{paj}³ \textit{som}²  
but \textit{COMP 1SG like go look go spectate}  
‘But I like to go and watch, to spectate.’ (282.12)

Elsewhere, \textit{mak}¹ functions as an aspectual/modal, referring to something ‘tending to’ happen. The next two examples have non-desirable predications in the lower verb phrases — ‘catching disease’, and ‘getting arrested’ — showing clearly that these are not things the main subject literally ‘likes’:

(137) \textit{man}² \textit{ka}⁰ \textit{si}⁰ \textit{hêt}¹ \textit{haj}⁵ \textit{kaj}¹ \textit{haw}² \textit{han}⁰ \textit{bo}⁰  
\textit{3SG FOC.PCL IRR make give chicken 1SG TPC.PCL NEG}  
\textit{mak}¹ \textit{tir}³ \textit{phaïaat}⁴  
like attach disease  
‘It will cause those chickens of ours not to tend to catch disease.’ (14.9)

(138) \textit{phu}⁰-\textit{ning}² \textit{nùng}¹ \textit{sakeet}⁵ \textit{vêlaa}² \textit{nan}⁴ \textit{han}⁰ \textit{mak}¹ \textit{ca}⁰  
\textit{person-female wear skirt time DEM.NONPROX TPC.PCL like IRR}  
\textit{thùûk}² \textit{cap}²  
suffer catch  
‘Women who wore skirts at that time would tend to get arrested.’ (281.9)

Note that in (137), \textit{mak}¹ appears in the post-negation slot, while in (138) it is in the pre-irrealis slot (cf. Figure 4.4.2-1, above). This reveals a structural distinction, which may need to be further explored. Consider the following contrasts, involving the same alternations with other preverbal aspectual/modals \textit{qaat}⁴-\textit{ca}⁰ ‘might’ and \textit{naa}⁵-\textit{ca}⁰ ‘should’:\n
\footnote{It seems here that \textit{ca}⁰ and the aspectual-modal form a unit, with the effect that \textit{NEG} and \textit{IRR} can occur in the non-canonical order, as in the (b) examples.}
VERBS AND MULTI-VERB CONSTRUCTIONS IN LAO

(139) (a) qaat₄ ca₀ bo₀ paj₃
Might IRR NEG go
‘might not go’

(b) bo₀ qaat₄ ca₀ paj₃
NEG might IRR go
‘not likely to go’

(140) (a) naa₅ ca₀ bo₀ hêt₁
should IRR NEG do
‘should not do it’ (or: ‘should have not done it’)

(b) bo₀ naa₅ ca₀ hêt₁
NEG should IRR do
‘shouldn’t do it’ (or: ‘should not have done it’)

That preverbal mak₁ is polysemous is decisively demonstrated by the following jocular expression, in which one of the meanings of mak₁ is asserted, and one meaning is negated:

(141) khòòj₅ mak₁ lùùm² tèè₁ khòòj₅ bo₀ mak₁ lùùm²
1SG tend forget but 1SG NEG like forget
‘I tend to forget (things), but I don’t like to forget things.’

Some examples show bridging contexts in which both readings are possible (i.e. they are communicatively equivalent):

(142) suan¹-laj₃ kaan⁴-hêt₁ khòòk₄ kaj¹ ni₀ khaw₃ mak₁
part-much NSR-make coop chicken TPC.PCL 3PL like
hêt₁ juu₁ boòn₁ suung₃
make be.at place high
‘Mostly, (in) making chicken coops, they like?/tend? to make them in high places.’ (13.8)

(143) khaw₃ mak₁ khaaj₃ tòòn₃ saw₄ naa₃
3PL like sell time early.morning PCL
‘They like?/tend? to sell (stuff) in the early morning, you know.’ (220.8)

In its complement-taking predicate usage, mak₁ is a main verb, as demonstrated by the fact that a ‘like to’ interpretation is forced when mak₁ is used as a yes-answer:

(144) Q: khaw₃ mak₁ khaaj₃ tòòn₃ saw₄ boò₃
3PL like sell time early.morning PCL(Q)
‘Do they like?/tend? to sell (stuff) in the early morning?’
Similarly, if the clausal object of mak1 is postposed, in right position, mak1 is left on its own, and again may only be interpreted as a main verb, meaning ‘like to’:

\[(145)\] mak1 dêj2 \ khaaj3 \ tôôn3 \ saw4
\like \ PCL \ sell \ time \ early.morning
\‘They like it, you know – selling in the early morning.’

\(\text{(NOT: ‘They tend to...’)}\)

In both cases, if mak1 and the following verb (phrase) were not separated, the ambiguity between ‘tend to V’ and ‘like to V’ would remain. Compare the following examples to (144A) and (145), respectively:

\[(146)\] mak1 khaaj3
\like \ sell
i. ‘(Yes, they) tend to sell (them).’
ii. ‘(Yes, they) like to sell (them).’

\[(147)\] mak1 khaaj3 dêj2 \ tôôn3 \ saw4
\like \ sell \ PCL \ time \ morning
i. ‘(They) like selling, you know, in the morning.’
ii. ‘(They) tend to sell, you know, in the morning.’

4.4.2.2. jaak5 ‘want, somewhat’

Now consider jaak5 ‘want’, which in V1 position may be interpreted as a complement-taking predicate ‘want to’, or as a preverbal modal/adverbial marker ‘somewhat’, as the ambiguity of the following example demonstrates:

\[(148)\] khon2 hüan2 nii4 jaak5 kêng1
\people \ house \ DEM.GEN \ want \ adept
i. ‘People of this house are somewhat clever.’
ii. ‘The people of this house want to be clever.’

In the following examples, jaak5 ‘want’ receives the aspect-modality interpretation ‘somewhat’ (note that in all cases the lower verbs are stative):

\[(149)\] diaw.nii4 ka0 jaak5 thaw4 nôọj3-niing1 lêèw4
\now \ FOC.PCL \ want \ be.aged \ small-one \ PFV
\‘Now (they) tend to be a little bit aged already.’ (767.4)
\(\text{(NOT: ‘Now they want to be a little bit aged already.’)}\)
In these cases, *jaak* alone as a yes-answer would not be acceptable, and the complement of *jaak* could not be postposed into right position leaving *jaak* on its own as a main verb. The following ungrammatical examples are modelled on (149) and (150), above:

(153) *
\[\text{diaw.nit} \ ka \ jaak \ \text{PFV PCL} \ \text{want} \ \text{PFV PCL} \ \text{be.aged small-one} \]

Does not mean: ‘Now (they) tend to be already – a little bit aged.’

(Interpretable if *jaak* is taken as a simple main verb ‘to be hungry’, and the two verbs head separate clauses: ‘Now (they)’re hungry – (they)’re a bit old.’)

(154) *
\[\text{jaak} \ \text{PFV PCL} \ \text{want} \ \text{PFV PCL} \ \text{be.aged small-one} \]

Does not mean: ‘It had already somewhat become – twilight and dark.’

(Interpretable as: ‘(I’m) hungry – it’s getting late.’)

If a [*jaak* + complement] expression is rephrased with the complement moved into right position (as in (153) and (154)), the verb *jaak* on its own cannot be interpreted as an aspect-modality marker. The only available interpretation in these cases is to regard *jaak* as playing yet another role, i.e. acting as a separate main verb ‘to be hungry (for something)’. Note finally that we can make explicit the contrast between these two senses of *jaak* due to the combinatoric constraint whereby the aspect-modality sense ‘somewhat’ only appears with stative verb complements. The following examples show that while *jaak* is ambiguous with a stative verb such as *suung* ‘tall’ (as in (155)), the ‘somewhat’ meaning is not available when the complement of *jaak* is a non-stative verb such as *paj* ‘go’ (as in (155)):

(155) *
\[\text{laaw} \ \text{PFV PCL} \ \text{want} \ \text{PFV PCL} \ \text{be.aged small-one} \]

Does not mean: ‘I’m hungry – it’s getting late.’

(Interpretable as: ‘(I’m) hungry – it’s getting late.’)
4.4.2.2.3. Summary

We have observed in this section the close relationship between preverbal aspect-modality marking and head-initial complementation structures. The distinction between the two is demonstrated by grammatical effects associated with differences in headedness. For a V1-V2 combination, two possibilities are that (a) V1 is head, taking subordinate V2 as a complement, or (b) that V2 is head, modified aspectually/modally by the preceding V1. These are obviously beginning and end points on a path of reanalysis in grammatical change (Harris and Campbell 1995: 61ff). This section has shown that for some combinations of verbs these patterns compete, producing semantic (and subsequent behavioural) distinctions.

4.4.2.3. Postverbal aspectual/modals

Postverbal aspect-modality marking is different in nature to the preverbal marking observed in the previous section. Right aspectual/modals include both some unstressed morphemes (e.g. *la*0/*le*0 ‘PFV’), as well as some fully stressed and main verb-like elements (e.g. *lééw* ‘PFV’, *daj*4 ‘can’, *than*2 ‘on time’, and others which may be impossible to distinguish from resultative/adverbials), and a number of non-deverbal adverbial/aspectual morphemes (e.g. *qiik*5 ‘more’, and other right-compounding adverbials). Postverbal aspect-modality marking seldom intervenes between verb phrases. Most postverbal aspect-modality markers behave grammatically like resultative V2s (§4.4.6.2, below; cf. Enfield 2003: 117ff).

4.4.2.4. Postverbal aspectual/modals or right-head resultative/adverbials?

Other sections in this chapter provide details on resultative constructions and adverbial constructions, in which the clausal head is the resultative/adverbial V2 (cf. §4.4.6, below). Certain V2 elements have taken on aspectual modal functions, becoming distinct in meaning, while more or less retaining the grammatical behaviour of the resultative/adverbial V2 elements. The following example shows the verb *daj*4 in V2 position, ambiguous as to a modal reading ‘can’ and a resultative verb reading ‘succeed’:

(157)  
<table>
<thead>
<tr>
<th>sêng3</th>
<th>daj4</th>
</tr>
</thead>
<tbody>
<tr>
<td>sit.exam</td>
<td>can/succeed</td>
</tr>
</tbody>
</table>

i. ‘(I) can sit the exam.’ (V2 as modal)

ii. ‘(I) passed the exam.’ (V2 as verb)

Sections §4.4.6.2-4.4.6.4, below, give further details on resultative and adverbial expressions. We now turn to multi-verb constructions for the expression of three-participant events.

4.4.3. ‘Despatch’ expressions for hosting three arguments in a single clause

Some verbs describe events which involve three participants (e.g. transfer verbs like *haj*5 ‘give’ and placement verbs like *saj*1 ‘put’).24 There are three basic strategies in Lao for associating three participants with a single verb in a clausal predication, namely (1) zero anaphora (i.e. simply omitting explicit reference to one or more participants, as in I gave John when it is understood in the context that ‘the money’ is the theme), (2) using the Left Position

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24 This section is based on Enfield (forthcoming), and the issues are covered in more detail there.
to host a third argument (as in *The money, I gave John*), and (3) incorporation of a theme argument with the verb (*I money-gave John*). See Enfield (forthcoming) for details.

Most commonly, however, when a verb describes an event in which three participants are involved, an additional verb will share the work of hosting three arguments in a single clause. The basic pattern is as follows:

(158) \[ \text{NP}_{\text{AGENT}} - V1 - \text{NP}_{\text{THEME}} - V2 - \text{NP}_{\text{GOAL}} \]

where V2 is a verb of ‘despatch’ (i.e. expressing some kind of transfer or placement), and V1 may be either a despatch verb or a ‘handling’ verb (i.e. a verb describing the way in which something is handled, usually *qaw*³ ‘take in hand’, but also including verbs such as *ñōk*¹ ‘lift’ and *cāp*² ‘grab’). The two variations on this basic pattern are accordingly termed the ‘handling-despatch’ and ‘despatch-despatch’ patterns.

The ‘handling-despatch’ construction typically describes transfer or placement (i.e. where the verb specifying three participants is a ‘give’ or ‘put’ verb, as V2).

(159) ‘Handling-despatch’ construction
\[ \text{NP}_{\text{SOURCE}} - V_{\text{HANDLING}} - \text{NP}_{\text{THEME}} - V_{\text{DESPATCH}} - \text{NP}_{\text{GOAL}} \]

The following examples all feature *qaw*³ ‘take’ as the handling verb, with three-participant despatch verbs in V2 position (*vaj*⁴ ‘put/place/fix’, *song*¹ ‘send’, *haj*⁵ ‘give’ and *saj*¹ ‘put/put in’, respectively).

(160) *qaw*³ *kiaw*¹ *vaj*⁴
\[ \text{take cutter place/fix} \]
\[ ‘(S/he) put the cutter away.’ (929.1) \]

(161) *qaw*³ *vèèn*-taa³ *ma*⁰ *song*¹ *cèk*² *khùùn*²
\[ \text{take mirror-eye(‘spectacles’) DIR.PCL(come) send chinaman return} \]
\[ ‘(He) took the spectacles back to the Chinaman.’ (57.8) \]

(162) *qaw*³ *ngaaw*⁴ *maa*² *haj*⁵ *qaaj*⁴ *nèè*¹
\[ \text{take sword DIR.PCL(come) give O.BRO PCL} \]
\[ ‘Please give me the sword.’ (891.15) \]

(163) *tamlaa*² *khaw*³ *ka*⁰ *qaw*³ *sàj*¹ *maa*² *saj*¹ *thong*-siàu⁵
\[ \text{recipe 3PL FOC.PCL take come put bag-shirt} \]
\[ ‘The recipe, he put in his shirt pocket.’ (40.10)²⁵ \]

The next examples feature different handling verbs (*ñōk*¹ ‘lift’, *hòòp*⁵ ‘carry in the arms’, and *nam*³ ‘lead, take with’, respectively) in V1 handling-verb position:

(164) *dang*³ *faj*² *lèka*⁰ *saj*¹ *taw*-faj² *moö*-kèèng³ *ñōj*¹ *ñōk*¹
\[ \text{light fire CLNK put stove-fire pot-soup big lift} \]
\[ ‘(He) lit the fire, and then put the big soup pot on the stove.’ (925.7) \]

²⁵ This example shows fronting of the theme *tamlaa*² ‘recipe’.
The ogre Kumphan carried the mountain whole (and) dropped it (on that place).’
(201.6)

‘(We) will have to take this official letter to the military forces.’ (89.11)

In the ‘despatch-despatch’ construction, both V1 and V2 are three-participant verbs, both
expressing some kind of ‘giving’, ‘transfer’, or ‘placement’:

(167) ‘Despatch-despatch’ construction

\[
\text{NP}_{\text{SOURCE}} - V_{\text{DESPATCH}} - \text{NP}_{\text{THEME}} - V_{\text{DESPATCH}} - \text{NP}_{\text{GOAL}}
\]

The second despatch verb is normally \textit{haj}³ ‘give’ or \textit{saj}³ ‘put’, with the first verb expressing a
more specific notion of ‘despatch’, such as \textit{mòòp}⁴ ‘hand over’ or \textit{song}¹ ‘send’ in the following
examples:

(168) phon³ thii²-sut²ø ka⁰ mòòp⁴ mùang² haj⁵ sin²saj²

result at-extreme FOC. PCL hand. over kingdom give S.
‘The final result (was that he) handed over the kingdom to Sinxay.’ (205.10)

Verbs of ‘communication’ such as \textit{vaw}⁴ ‘say’, \textit{law}¹ ‘relate, tell’, and \textit{saaj}³ ‘screen (e.g. a film)’
allow addition of a final verb of ‘reception’ (typically \textit{fang}² ‘listen’ or \textit{beng}¹ ‘look’) to the
two-verb structure sketched in (158) using the simple despatch verb \textit{haj}⁵ ‘give’ in V2 position as
follows:\textsuperscript{26}

(170) ‘Communication-despatch-reception’ construction

\[
\text{NP}_{\text{SOURCE}} - V_{\text{COMMUNICATION}} - \text{NP}_{\text{THEME}} - V_{\text{DESPATCH}}(\text{‘give’}) - \text{NP}_{\text{GOAL}} - V_{\text{RECEPTION}}
\]

Here are some examples:

(171) khoòj⁵ daž⁰ vaw⁴ø haj⁵ law¹ saaj³ fang² nòòj²-nùng¹ mèèn¹ bòò³

1SG ACHV say give 2SG listen a. little be. so PCL
‘I did tell you (this joke) a little, right?’ (35.2)

\textsuperscript{26} This type of construction is found across languages of mainland Southeast Asia, including
Vietnamese, Khmer, and Cantonese (cf. e.g. Matthews and Yip 1994: 138).
(172)  khòò³ haj⁵ vaw⁴ ø  haj⁵ qaaj⁴ fang²
request give say give O.BRO listen
‘Please tell (it) to me.’ (199.12)

(173)  man² saaj³ nang³ haj⁵ kuu³ beng¹
3SG screen movie give 1SG look
‘S/he screened a movie (for) me (to) watch.’

Similar constructions to those we have seen so far in this section are also used for descriptions of three-participant events in which no single verb specifies three participants. The following examples illustrate the structure in (158), where V1 is qaaw³ ‘take’, and the theme argument is an instrument:

(174)  qaaw³ nèèw²-visaa² maj⁰ ḱhaéng¹ khan³ kap² haw² na⁰
take manner-plan new DIR.PCL(come) compete with 1SG PCL
‘They will fight us with a new strategy, you know.’ (150.3)

(175)  bèèp⁵ ø qaaw³ hua³-laan⁴ son² kan³
style take head-bald make.collide RCP
‘...(in the) manner (of) butting each other with bald heads.’ (72.6)

(176)  man² qaaw³ sóon³ ma⁰ cam⁴ kacèè³ fong⁴ leej²
3SG take arrow DIR.PCL(come) ram lock come.apart altogether
‘He broke the lock apart with an arrow.’ (176.17)
(i.e. ‘He took an arrow and rammed the lock – it came apart completely.’)

The following examples also illustrate the structure in (158), where V1 is qaaw³ ‘take’, but in these cases the theme argument is a causee:27

(177)  qaaw³ siang²-miæng⁵ ma⁰ suaj¹
take S.M. DIR.PCL(come) help
‘(He would) get Siang-Miang to (come and) help (him).’ (93.16)

(178)  qaaw³ ḱhon² paj⁰ khut¹ hêt¹ khòòng²-miæng³
take people DIR.PCL(go) dig make canal
‘They got the people to dig the canals.’ (267.9)

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27 In the first two of these examples it is conceivable that the theme arguments are ‘instruments’, but I think this would be metaphorical—the idea of an ‘instrument’ (at least as a semantic role in grammatical constructions) should not be stretched to include entities which are not ‘things’.
They got the common people to (go and) study at the temples, you know, and they got people to (go and) teach them.

See also sections below (§4.4.8) for further description of causative constructions.

4.4.4. Disposal constructions

So-called ‘disposal constructions’\(^{28}\) take the same basic form as ‘despatch’ constructions examined in the previous section, but the difference is that the addition of a second verb does not bring an extra participant into the clause (Enfield 2002b: 23-25).

Here are three examples of the disposal construction:

\[(180)\] phen\(^{1}\) ka\(^{0}\) qaw\(^{3}\) to\(^{0}\)-niit\(^{4}\) paj\(^{3}\) hian\(^{2}\) khùù\(^{2}\)-kan\(^{3}\)

3SG FOC.PCL take CLF-DEM.GEN DIR.PCL(go) study same-RCP

‘They also did study this.’ (270.6)

\[(181)\] [saj\(^{5}\)-kòòk\(^{5}\) niit\(^{4}\)] caw\(^{4}\) qaw\(^{3}\) øi paj\(^{3}\) cuùn\(^{3}\)

sausage DEM.GEN 2SG take DIR.PCL(go) fry

‘These sausages... you go and fry.’ (39.10)

\[(182)\] pasaason\(^{2}\) qaw\(^{3}\) viðañoq\(^{1}\) ma\(^{0}\) fang\(^{2}\)

common.person take radio DIR.PCL(come) listen

‘The people would listen to radios.’ (233.6)

In the third example, the noun phrase viðañoq\(^{1}\) ‘radio’ is patient/object of both the preceding, and following, verbs. The example describes the same event as the following, in which only one verb appears:

\[(183)\] pasaason\(^{2}\) fang\(^{2}\) viðañoq\(^{1}\)

common.person listen radio

‘The people would listen to radios.’

A notable feature of these constructions is their inclusion of a directional particle (either ma\(^{0}\) ‘come’ or paj\(^{0}\) ‘go’) before V2. Does the directional verb particle attach to the preceding verb phrase, or to V2? The two directionals are not symmetrical in their semantics: ma\(^{0}\) ‘come’ is less suggestive of literal motion on the figure’s part, and instead suggests merely self-directed action, while paj\(^{0}\) ‘go’ is more suggestive of real motion on the figure’s part. Compare the following two examples:

\[(184)\] qaw\(^{3}\) pasaason\(^{2}\) paj\(^{0}\) hian\(^{2}\) juu\(^{l}\) vat\(^{l}\) naa\(^{3}\) lèka\(^{0}\)

take common.person DIR.PCL(go) study be.at temple PCL CLNK

\[(185)\] qaw\(^{3}\) hiao\(^{2}\) paj\(^{0}\) sòòn\(^{3}\)

take person DIR.PCL(go) teach

‘They got the common people to (go) study at the temples, you know, and they got people to (go) teach them.’ (255.1)

\(^{28}\) The term ‘disposal construction’ is one of a number of equivalent terms (including also ‘pretransitive’ construction) which have arisen mostly in the study of Sinitic languages (Li and Thompson 1981: Chapter 15, Matthews and Yip 1994: 144), and other Southeast Asian languages such as Lue (Jagacinski 1987) and Bouyei (Zhou 2000). These terms are far from ideal, however.
I am unable to specify the exact conditions under which a structure like (182) is preferred to one like (183). While other ‘take’- and related constructions function to add an extra argument to a clause (Enfield 2002b, forthcoming; §4.4.3, above), this ‘disposal’ or ‘pretransitive’ construction has no such function. Although there are two transitive verbs in (182), there remain only two arguments, both shared by the two verbs. The function of the construction clearly relates to information structure distinctions, but this is not yet well understood for Lao (Enfield 2002b: 23-25).29

4.4.5. Complex motion expressions

Expression of complex motion events involves a number of complexities which pose challenges to the capacity of the clause to package information (Talmy 1985, 2000). I have investigated the expression of complex motion in Lao using video stimuli, including a set of schematic animations (Bohnemeyer and Caelen 1999) and a set of video clips with real actors (van Staden et al 2001). These stimuli were designed to manipulate a number of parameters of potential linguistic importance including number and type of non-figure objects in a motion scene, variation of manner and path combinations, and number of separate vector changes in a single motion scene.

4.4.5.1. Consecutive vector motion

One way in which a motion event may be complex is due to a mover changing direction of motion a number of times. Description of such ‘multi-vector’ events demands separation of each vector description into distinct clauses, and thus does not make use of the kind of tight V1-V2 strings which are the focus of this chapter. ‘Consecutivising’ constructions separate out parts of a complex motion event (e.g. different vectors, temporally distinct, and not of the same kind). Basically, these are clause-chains (see §4.4.10.1, below), which remain clause-separable by partition into distinct intonation units, with or without morphological material such as conjunctive particles.

One of the scenes in the set of animated stimuli (Bohnemeyer and Caelen 1999) shows a complex path in which a moving figure (a red ball) sitting at the bottom of a tall blue container rolls to the side of the container, up the inside wall to the top, across the rim of the container wall, and down the outside to the outer base of the container, then continuing along the ground going away from the base of the container, to a small green pyramid, rolling finally up the side of the pyramid and coming to a halt at its peak. The following spontaneous description of this scene shows each separate clause (separated by ‘–’) expressing one distinct vector at a time (note that a number of the vectors in the scene are not included in the description at all):

29 See research on this problem in other Tai-Kadai languages Lue (Jagacinski 1987) and Bouyei (Zhou 2000), as well as Sinitic languages (Chao 1968, Li and Thompson 1981, Matthews and Yip 1994).
The aspects of this example most relevant for present purposes are contained within single clause units. These are the manner-path-direction constructions in which combinations of manner and path of motion and/or presence of multiple non-figure objects are expressed by more than one verb together in a single clause. We now turn to these.

4.4.5.2. Manner-path-direction constructions

In events with a single motion vector, three distinct facets of motion can be distinguished, namely manner (i.e. by what action the motion is conducted, e.g. ‘walk’, ‘roll’, ‘fly’), path (i.e. with respect to spatial coordinates intrinsic to the non-figure entities in the scene, e.g. ‘ascend/up’, ‘enter/into’, ‘cross/over’) and direction (i.e. with respect to some relative deictic anchor, e.g. ‘go/away’, ‘come/here’).

<table>
<thead>
<tr>
<th>FIG mover</th>
<th>verb of manner</th>
<th>verb of path</th>
<th>verb of direction</th>
</tr>
</thead>
<tbody>
<tr>
<td>lèèn¹, ‘run’</td>
<td>khii¹ ‘ride’</td>
<td>khùn⁵ ‘ascend’</td>
<td>paj³ ‘go’</td>
</tr>
<tr>
<td>ñaang¹ ‘walk’</td>
<td>bin² ‘fly’</td>
<td>long² ‘descend’</td>
<td>mìa² ‘return’</td>
</tr>
<tr>
<td>khing⁴ ‘roll’</td>
<td>khaan² ‘crawl’</td>
<td>khaaw⁵ ‘enter’</td>
<td>maa² ‘come’</td>
</tr>
<tr>
<td>lian¹ ‘slide’</td>
<td>tèn⁴ ‘creep’</td>
<td>gòòk⁵ ‘exit’</td>
<td>etc. ...</td>
</tr>
<tr>
<td>‘tèn⁴ ‘creep’</td>
<td>com¹ ‘sink’</td>
<td>khaam⁵ ‘cross/over’</td>
<td>etc. ...</td>
</tr>
<tr>
<td>‘tèn⁴ ‘creep’</td>
<td>doot⁵ ‘leap’</td>
<td>lòòt⁴ ‘cross/under’</td>
<td>etc. ...</td>
</tr>
<tr>
<td>‘tèn⁴ ‘creep’</td>
<td>etc. ...</td>
<td>taam³ ‘follow’</td>
<td>etc. ...</td>
</tr>
</tbody>
</table>

FIGURE 4.4.5.2-1: SLOTS IN THE ‘MANNER-PATH-DIRECTION CONSTRUCTION’

Two representative examples of this construction can be found in the first two clauses of (186), above:
(187) (a)  
king⁴ khùn⁵ paj³  
roll ascend go

(b)  
king⁴ long² maa²  
roll descend come
‘...roll down coming...’

It is impossible to reflect in the English translation the fact that the three elements are each unmarked verbs of similar status.³⁰

Due to the fact that these constructions express ‘overlay’ of multiple facets of motion in a single ‘happening’, they are not clause-separable. Thus, while the three verbs in (188), below, describe simultaneous and overlaid facets of a single event, the insertion of the linking particle  lèka⁰ in subsequent examples (189) and (190) encourages an interpretation by which the different verbs express temporally separated events, where the resulting meaning is very different to the non clause-separated example:

(188)  
man² ñaang¹ qòòk⁵ paj³  
3 SG walk exit go
‘He walked out away.’

(189)  
man² ñaang¹ lèka⁰ qòòk⁵ paj³  
3 SG walk CLNK exit go
‘He walked and went out away.’

(190)  
man² ñaang¹ lèka⁰ qòòk⁵ lèka⁰ paj³  
3 SG walk CLNK exit CLNK go
‘He walked and went out and went.’

4.4.5.3. Multi-participant motion events

The ‘path’ and ‘direction’ verbs in the manner-path-direction construction may take complements referring to non-figure participants. These can be simple nominals or oblique phrases headed by ‘deverbal prepositions’ such as haa³ ‘seek’/‘towards’, theng³ ‘reach’/‘to’, hòòt⁴ ‘reach’/‘to’, or caak⁵ ‘leave’/‘from’. By the term ‘non-figure participants’ I mean the participants in a motion event which have semantic roles such as ‘source’, ‘goal’, ‘path’, etc. (e.g. house in He ran from/to/past the house; Jackendoff 1983, Talmy 2000).

The following examples, based on example (188), above, show the addition of non-figure participants – in the first case as simple nominals (khòòj⁴ ‘hill’ and hùan² ‘house’), and in the second case as adjuncts headed by deverbal prepositions (taam³ thaang³ [follow path] ‘along the path’ and haa³ hùan² [seek house] ‘towards the house’):

(191)  
man² ñaang¹ khùn⁵ khòòj⁴ paj³ hùan²  
3 SG walk ascend hill go house
‘He walked up the hill away to (his) house.’

³⁰ Thus, Lao and similar languages do not fit Talmy’s (1985, 2000) popular typology which assumes a clear distinction between ‘verb’ and ‘satellite’ in a clause.
Descriptions of complex motion events can combine these manner-path-direction constructions with chains of deverbal adjuncts (see §4.4.7, below). The following example is one speaker’s description of an animated scene in which motion of a red figure along a single vector is accompanied by the presence of numerous non-figure objects (a blue ‘source’, a yellow ‘path’, a red ‘via’, and a green ‘goal’):

\[
\begin{align*}
\text{man}^2 \text{ naang}^1 & \text{ khùn}^5 \text{ thaam}^3 \text{ thang}^2 \text{ paf}^3 \text{ haa}^3 \text{ hùan}^2 \\
3SG \text{ walk } \text{ ascend } \text{ follow } \text{ path } \text{ go } \text{ seek } \text{ house} \\
\end{align*}
\]

‘He walked up along the path towards (his) house.’

4.4.6. Secondary predication constructions

Secondary predication constructions are V1-V2 constructions in which one of the verbs (in most cases V2) makes a secondary predication in addition to that of the main verb phrase. There are three semantic subtypes: resultative, adverbial, and depictive, with subtypes of each. In contrast to the constructions we have seen so far, negation (by the negative marker \(bò^0\)) may appear on V2 in many of these constructions, and indeed usually does.\(^{31}\)

Semantically, I make the following distinctions among secondary predications:\(^{32}\)

**Resultative:**
The secondary verb expresses something that happens or is the case because the primary predication happens or is the case. Typical examples are *She licked the platter clean* and *He broke it in half.*

**Adverbial:**
The secondary verb says something about the manner of the primary predication, as in *He ate fast* and *She spoke hesitantly.*

**Depictive:**
The secondary verb expresses an incidental and transient state of one of the participants in a primary predication. There is no connection of cause, result, or manner between the two predications. Stock examples are *She ate the fish raw* and *He gave the lecture nude.*

The following examples, differing only with respect to the identity of the verb in second position, illustrate the three types, respectively:

\[
\begin{align*}
\text{man}^2 & \text{ kin}^3 \text{ paa}^3 \text{ nii}^4 \text{ mer}^2 \\
3SG \text{ eat } \text{ fish DEM.GEN } \text{ finished} \\
\end{align*}
\]

*S/he ate this fish up.*

---

\(^{31}\) With respect to a V1-V2 string, I refer to negation of V1 as initial negation, and negation of V2 as medial negation—when either pattern is possible, there is a corresponding semantic distinction.

\(^{32}\) These three categories are not always neatly separable from each other. Also, while I describe these distinctions as ‘semantic’, some of the meaning referred in these three categories may be derived from pragmatic implicature. I leave this question open for further exploration in another context.
The following subsections survey these three subtypes of descriptive complement construction, and also include some semantically related, but grammatically distinct, constructions (namely, left-headed constructions described in §4.4.6.3.4 and §4.4.6.4.1). First, however, a note on a general aspectual property of these constructions.

4.4.6.1. Potential/actual ambiguity in descriptive complement constructions

In the absence of explicit marking, descriptive complement constructions may be ambiguous as to whether they predicate the actuality of the descriptive V2 being realized with respect to a given V1 (e.g. when referring to a particular occasion of a certain event having a certain result), or predicating the potential for the descriptive V2 to be realized with respect to the given V1. Thus, the following example of a resultative construction has two interpretations (the first of which was intended in the original context):

(197) \( \text{baang}^3 \ \text{khon}^2 \ k\alpha^0 \ \text{paj}^3_{V1} \ \text{vit}^2_{V2} \)
    \( \text{some} \ \text{people} \ \text{FOC.PCL} \ \text{go} \ \text{avoid/escape} \)
    \( \text{baang}^3 \ \text{khon}^2 \ k\alpha^0 \ \text{paj}^3_{V1} \ \text{bo}^0 \ \text{vit}^2_{V2} \)
    \( \text{some} \ \text{people} \ \text{FOC.PCL} \ \text{go} \ \text{NEG} \ \text{avoid/escape} \)

i. ‘Some people made it through, some people didn’t make it through.’ (755.3)
ii. ‘Some people would/can make it through, some people wouldn’t/can’t make it through.’

The (ii) interpretation expresses the potential for a particular event (here ‘going’) to enable and actually result in, a second event (here ‘escaping’). This is expressible as an ‘if-then’ inference: ‘Some people, if they went, would make it through; some people, if they went, wouldn’t make it through.’ I use the term non-finite to refer to cases in which the V2 element is not asserted (Enfield 2003: 100).

This is a typical example of semantic and/or pragmatic effects cohering around a grammatical structure of simple V1-V2 juxtaposition, or ‘associative organization’ (Diller 1988, Bisang 1991, 1996). Thus, due to the high level of pragmatic dependency in Lao grammar, a modal meaning may emerge naturally out of this resultative V1-V2 structure.33

In certain sections below, it will be convenient to disregard ‘potential’ or non-finite readings of these constructions.

33 Enfield (2003: 125-128) shows that this ‘actual’/‘potential’ opening licences a path in semantic change of the verb \textit{daj4} ‘succeed’ in V2 position, to mean ‘can’, related to both the general lack of morphological expression of relationships among predicates in combination, and the heavy reliance on context in determining relationships among expressions with ‘associative’ organisation.
4.4.6.2. Resultative constructions

Resultative constructions are phonologically tight (i.e. they naturally fall under single intonation units), consisting of a verb (phrase) V1, followed by a verb V2 which predicates a result of V1. No morphology encodes the resultative relationship between verbs.34

(198)  laaw² ñing² nok¹ taaj³
  3SG shoot bird die
  ‘S/he shot a bird dead.’

(199)  caw⁴ qat² patuu³ nèn⁴ bòò³
  2SG close door tight PCL(Q)
  ‘Did you close the door tight?’

(200)  laaw² doot⁵ khua³ taaj³
  3SG leap bridge die
  ‘S/he leapt from a bridge and died.’

The yes-answer properties of examples (198-200) are not unequivocal, and if either verb is available alone as a yes-answer, it is usually V2. This is a marked contrast with left-headed complement structures such as those described in §4.4.6.3.4, below. In examples (198-200), it is less obvious which of the two verbs is head, and V2 seems more likely. This is perhaps an odd fact for an otherwise strongly head-initial language.

We now consider some general facts about the semantics of resultative constructions, before going on to discuss some sub-types.

4.4.6.2.1. Semantics of cause-result expressions: lexicalization versus syntax

Many events or situations which we want to put into words seem conceptually unitary, yet involve distinct subcomponents. Imagine a man killing a duckling by cutting its neck open. It is natural to think of this as a unitary scene, and describe it with simple grammar, such as the following single-verb transitive clause:

(201)  He killed a duckling.

But this event can easily be thought of as having more than one component – (a) the man cuts a duckling’s neck open; (b) the duckling dies (or becomes no longer alive). While the verb kill does not specify what the agent does, it does contain in its semantic structure reference to these two separate sub-events: ‘the man did something to the duckling, and because of this, after this, it was not alive any more’. This single-verb two-component expression can be represented as $[\text{EVENT}+\text{RESULT}]$, with a single set of square brackets representing the single verb form (i.e. kill), and the sign ‘+’ representing the relation of cause specified in the verb’s internal semantics.

In Lao, as in other languages with widespread use of multi-verb constructions, it is common to explicitly spell out the multi-component structure of events, as follows:

(202)  man² paat¹ khòò² taaj³
  3SG slice neck die
  ‘He killed (it) by slicing (its) neck.’ (‘He sliced (its) neck and (it) died.’)

34 Throughout this section, the discussion is restricted to ‘finite’ construals of resultative constructions (i.e. in which V1 and V2 are interpreted as having been attained; cf. §4.4.6.1, above).
The separate expression of those event components by two different verbs can be represented as $[p_{\text{EVENT}}] + [q_{\text{RESULT}}]$, each component in its own set of square brackets (representing two separate verb forms).

A large class of such conceptually unitary yet multi-component event descriptions may (on semantic grounds) be termed resultative, because they predicate a relationship of result between sub-components (as in our example ‘cut-neck-and-then-because-of-this-be-dead’). As just shown, semantically resultative expressions sometimes contain explicit reference to more than one event component (He pounded it flat), while sometimes the event components are still phonologically separate but bound in morphology (He flatt-en-ed it), or are hidden away in the semantics of a single verb (He squashed it).

4.4.6.2.2. Same-subject resultatives

In same-subject resultatives, the logical subjects of V1 and resultative V2, subscripted for convenience in the following examples, are coreferential (see also (197), above):

(203) noxious daj⁰ kin³ $V_1$ qiim₁ $V_2$ juu¹
still ACHV eat satiated PCL
‘One still could eat one’s fill (at that time).’ (741.1)

We may note three important properties displayed by these constructions. First, V1 may appear with its own direct object complement, showing that the first element is a VP and not just a V (using as our example the V1-V2 combination $kin^3$ qiim$^1$ ‘eat be.satiated’ from example (203)):

(204) khòòj⁵ kin³ mak⁰-muang¹ qiim¹ lèèw⁴
1SG eat CT.FRUIT-mango full PFV
‘I’ve eaten my fill of mangoes.’

Second, V2 may be directly negated:

(205) khòòj⁵ kin³ mak⁰-muang¹ bò⁰ qiim¹
1SG eat CT.FRUIT-mango NEG full
‘I’ve not (yet) eaten my fill of mangoes.’

Third, with the medial negation shown in (205), V1 is entailed. Thus, (205) entails ‘I’ve eaten mangoes’. Schematically (assuming a finite reading):

(206) $[V_1 bò⁰_{V_2}]$ ‘$V_1$-NEG-$V_2$’ entails $[V_1 lèèw^9]$ ‘$V_1$ PFV’.

Same-subject resultatives are like VP chains (§4.4.10.1., below) with subject of V2 ellipsed under coreference with that of V1, and with further tightness due to the semantic relationship between V1 and V2. V2 is not simply conceptually associated or temporally connected to V1, but has a more specific relation of condition or consequence. (Unlike these resultative constructions, sequential or distributive VP chains may not be medially negated; cf. 4.4.10.1., below.)

These facts suggest the following constituent structure analysis of same-subject resultatives (dotted line connects verbs with their common subject):

35 It is possible that the Lao resultative constructions do not mean ‘V1 happened, and then because of this V2 happened’, but something more along the lines of ‘V1 happened; V2 happened; V2 happened (or could happen) because V1 happened before this’. Of course, it is also possible that the element of causation is pragmatically inferred. Further work is necessary to clarify the matter.
The two verbs have the same subject, as demonstrated by the following entailment property of these structures:

(208) NP1-V1-NP2-V2 entails NP1-V1-NP2 and NP1-V2

Thus, (204) [I eat mango full] entails both [I eat mango] and [I full] (with a close temporal connection implied by the fact that V2 is caused by V1).

In further support of this analysis, note that these constructions are clause-separable, like VP chains (§4.4.10.1, below). Compare (204) with the following:

(209) khòòj5 kin3 mak0-muangl naa3 – khòòj5 qiiml lèèwl
   1SG eat CT.FRUIT-mango PCL – 1SG full PFV
   ‘Hey, I ate mangoes – I’m full.’

(210) khòòj5 kin3 mak0-muangl lèka0 qiiml lèèwl
   1SG eat CT.FRUIT-mango CLNK full PFV
   ‘I ate mangoes and (so I’m) full.’

Consider now insertability of the focus particle ka0, which may appear in one of two places. First, as would be expected, it may appear marking the highest VP in (207), between matrix subject and predicate (cf. (205)):

(211) khòòj5 ka0 kin3 mak0-muangl bò0 qiiml
   1SG FOC.PCL eat CT.FRUIT-mango NEG full
   ‘I’ve also not (yet) eaten my fill of mangoes.’

However, a second possibility is for ka0 to appear immediately before the resultative V2 (and any accompanying aspect-modality marking such as negation):

(212) khòòj5 kin3 mak0-muangl ka0 bò0 qiiml
   1SG eat CT.FRUIT-mango FOC.PCL NEG full
   ‘I don’t/didn’t even get full from eating mangoes.’

This second possibility supports an analysis in which the resultative V2 is a higher predication about the whole of what precedes it – i.e. with an alternative constituent structure to (207) above, in which V2 is head of the highest sentential VP, and what precedes it is a kind of sentential subject:
In relativization of the main subject of a different-subject resultative construction, the initial verb must be overtly mentioned. Consider the following different-subject resultative (214), and its relativized form (215) with both VPs present:

(214) \[ \text{man}^2 \, \text{ñing}^2 \, \text{nok}^1 \, \text{taaj}^3 \]
\[ 3\text{SG shoot bird die} \]
\[ \text{‘He shot the bird dead.’} \]

(215) \[ \text{kuu}^3 \, \text{hên}^3 \, \text{khon}^2 \, \text{ñing}^2 \, \text{nok}^1 \, \text{taaj}^3 \]
\[ 1\text{SG see person shoot bird die} \]
\[ \text{‘I saw the person who shot the bird dead.’} \]

The first VP is not omissable without changing the meaning:

(216) \[ \text{kuu}^3 \, \text{hên}^3 \, \text{khon}^2 \, \text{taaj}^3 \]
\[ 1\text{SG see person die} \]
\[ \text{‘I saw the person who died’ (not entailed by (215))} \]

The situation for a same-subject resultative, in which the main subject is necessarily also the subject of the second verb (cf. (208), above), is different. Here is a same-subject resultative (217), and in (218) the full construction in a relative clause:

(217) \[ \text{man}^2 \, \text{tok}^2 \, \text{khua}^3 \, \text{taaj}^3 \]
\[ 3\text{SG fall bridge die} \]
\[ \text{‘He fell off the bridge and died.’} \]

(218) \[ \text{kuu}^3 \, \text{hên}^3 \, \text{khon}^2 \, \text{tok}^2 \, \text{khua}^3 \, \text{taaj}^3 \]
\[ 1\text{SG see person fall bridge die} \]
\[ \text{‘I saw the person who fell off the bridge and died.’} \]

In this case, the first VP is omissable from the relative clause:

(219) \[ \text{kuu}^3 \, \text{hên}^3 \, \text{khon}^2 \, \text{taaj}^3 \]
\[ 1\text{SG see person die} \]
\[ \text{‘I saw the person who died’ (entailed by (218))} \]
This is because the same-subject resultative pattern entails NP1-V2.

4.4.6.2.3. Projected resultatives

‘Accomplishment’ verbs have been described by Dowty as having a structure in which an activity leads to and causes a change of state (Dowty 1979: 91ff; cf. Foley and Van Valin 1984: 38). The similar but distinct class of projected accomplishment verbs (e.g. samak1 ‘apply for’, haa3/søòk4 ‘look for’, hian2 ‘study’, sòòp5/sêng3 ‘sit an exam’, fang2 ‘listen’), also refer to an activity leading up to a resultant event or change of state, but instead of entailing the successful result of that ensuing event, the entailment is that in undertaking the activity, the subject’s purpose is to achieve that result. (Cf. Quine’s ‘intentional object verbs’, 1960: 219-22.) For example, the aim entailed by ‘seeking’ is ‘finding’, of ‘sitting an exam’ is ‘passing an exam’, of ‘listening’ to someone is ‘understanding’ what they are saying. But unlike true accomplishments, none of ‘seek’, ‘sit an exam’, nor ‘listen’ entail those projected results.

Compare entailments of accomplishments with those of projected accomplishments:

(220) Accomplishment

‘knit a scarf’
entails ACTIVITY ‘knit’
entails PURPOSE ‘want there to be a scarf’
entails RESULT ‘birth of scarf’
(i.e. change of state from ‘there is not a scarf’ to ‘there is a scarf’)

(221) Projected accomplishment

‘look for a scarf’
entails ACTIVITY ‘look for scarf’
entails PURPOSE ‘want to find scarf’
IDEAL RESULT of activity is achievement of purpose ‘find scarf’
(i.e. change of state from ‘do not have scarf’ to ‘have scarf’)
does not entail ‘find scarf’

In a projected resultative construction, a projected accomplishment verb in V1 position makes reference to an intended result, and the realization of this result is expressed by the resultative V2:

(222) man2 haa3 kacèè3 hên3 lèèw4
3SG seek key see PFV
‘He’s found the key.’

Here, haa3 ‘seek’ projects – and does not entail – a result such as ‘seeing’ or ‘encountering’ or ‘finding’ something. Its internal structure may be expressed as ‘[p\text{EVENT-‘seek’} (> q\text{RESULT-‘find’})]’ (cf. Table 4.4.6.2.5-1, below). Addition of the separate verb hên3 ‘see’ as a resultative V2 overtly expresses the projected result (‘>q’). The overall structure is ‘[p\text{EVENT-‘seek’} (> q\text{RESULT-‘find’})]+[q\text{RESULT-‘see’}]’.

In these projected resultative constructions, medial negation is permissible, whereby V1 is entailed (once again, assuming a finite reading):
Example (223) entails that he has looked for the key.

4.4.6.2.4. Reiterative resultatives

As discussed in §4.4.6.2.1, above, sometimes the complexity of multi-component resultative events is encompassed in the semantics of a single verb:

(224) \[3SG\text{ kill duck CLF DEM.NONPROX} \]

(225) \[3SG\text{ hit duck CLF DEM.NONPROX die} \]

Here, the subcomponents \([p_{\text{EVENT}}+q_{\text{RESULT}}] \) and \([q_{\text{RESULT}}] \) are separately lexicalized, and the resultative relationship emerges from the construction itself.

It is possible for these two options to combine, in a construction I call the ‘reiterative resultative construction’, of the form \([p+q]+[q] \):

(226) \[3SG\text{ kill duck CLF DEM.NONPROX die} \]

In this example, a single \text{RESULT} event component – ‘die’ – is specified twice. It appears first in the internal semantic structure of \(khaa^3 \) ‘kill’, and is then explicitly reiterated by \(taaj^3 \) ‘die’ in resultative V2 function, as follows:

(227) \[‘do something to \(x\)_{\text{EVENT}} + ‘x is not alive any more’_{\text{RESULT}}]+[‘x is dead’_{\text{RESULT}}] \]

More abstractly, the structure of a reiterative resultative construction is as follows:

(228) \([p_{\text{EVENT}}+q_{\text{RESULT}}]+[q_{\text{RESULT}}] \)

While for regular and projected resultatives \(V1\) is entailed under medial negation (see (206), §4.4.6.2.2, above), in the case of \(V1\)-\(V2\) ‘reiterative resultative’ combinations, medial negation is acceptable, but \(V1\) is not entailed:

(229) (a) \[khaa^3 \text{ taaj}^3 \]

\text{kill die}

‘(I) killed (it) dead.’
(b) khaa⁵ bo⁰ taaj³
dlìk NEG die

‘I couldn’t/can’t/didn’t kill it.’ (NOT: I killed it but/and it didn’t die.)

(230) (a) paj³ theng³

gó reach

‘(He) reached (there).’

(b) paj³ bo⁰ theng³
gó NEG reach

‘(He) couldn’t/can’t/didn’t didn’t reach there.’ (NOT: He went there but/and didn’t reach there.)

The medially negated example (229b) does not entail V1. One possibility is that khaa⁵ ‘kill’ may in fact differ from its English translation in not entailing that the undergoer dies. However, it is difficult, if possible at all, to paraphrase example (229b), in the manner of regular resultatives, as ‘(I) killed it, but/and it didn’t die’. The V1-V2 example (229a) is not a straightforward resultative construction, because V1 khaa⁵ ‘kill’ already contains the result ‘die’ (the meaning of V2) in its semantics. In contrast, the V1 elements of simple resultatives do not contain results in their semantics, and those of projected resultative constructions do contain reference to a result, but do not entail that result.

Like resultatives in general, these reiterative resultatives lend themselves easily to potential readings (e.g. (229b) as ‘(It) can’t be killed dead’, (230a) as ‘It can be reached’; see §4.4.6.1, above).

4.4.6.2.5. Summary

The last few sections have illustrated some ways in which semantic structures expressed in lexicon and syntax may co-occur and interact. Three types of resultative construction are recognized, defined by the internal semantics of V1. These are illustrated in Table 4.4.6.2.5-1:

<table>
<thead>
<tr>
<th>Expression</th>
<th>Semantic structure</th>
<th>Example</th>
<th>Semantic structure of example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simple verb</td>
<td>[p]</td>
<td>hit</td>
<td>[‘hit’]</td>
</tr>
<tr>
<td>a. Simple resultative construction</td>
<td>[p] + [q]</td>
<td>hit-die (‘kill’)</td>
<td>[‘hit’] + [‘dies’]</td>
</tr>
<tr>
<td>Resultative verb</td>
<td>[p + q]</td>
<td>kill</td>
<td>[‘do-something-to’ + ‘dies’]</td>
</tr>
<tr>
<td>b. Reiterative resultative construction</td>
<td>[p + q] + [q]</td>
<td>kill-die (‘kill dead’)</td>
<td>[‘do-something-to’ + ‘dies’] + [‘dies’]</td>
</tr>
<tr>
<td>Projected accomplishment verb</td>
<td>[p(&gt;q)]</td>
<td>seek</td>
<td>[‘seek (&gt;’find’)’]</td>
</tr>
<tr>
<td>c. Projected resultative construction</td>
<td>[p(&gt;q)] + [q]</td>
<td>seek-find</td>
<td>[‘seek (&gt;’find’)’] + [‘acquire’]</td>
</tr>
</tbody>
</table>

Notation: ‘(>q)’ means ‘with the purpose of having q happen’, not entailing q
‘[ ]’ represents a single verb form
‘+’ represents a resultative relationship between semantic components.

4.4.6.3. Adverbia l complementation

Adverbia l complementation, either left- or right-marking, shows relatively loose syntactic organization. In adverbia l complementation of the right-marking type, an adverbia l V2 follows a main VP, whereby headship properties are split between V1 and V2. In adverbia l complementation of the left-marking type, certain verbs (for example faaw⁴ ‘hurry’ and lòòng² ‘try out’) behave grammatically like control complement-taking predicates (cf. §4.4.9.1, below), but have adverbia l scope (in semantic terms) over their subordinate predicates. Adverbia l complement constructions of the right-marking type allow either initial or medial negation, as well as initial or medial insertion of the focus particle ka⁰. This choice appears to be associated with two alternative underlying structures (just as shown for resultatives, above).

4.4.6.3.1. Right-headed st ative adverbia l complementation

In right-headed stative adverbia l complement constructions, V2 is a stative verb with semantic scope over preceding material, making a predication – some evaluation of manner or style – about the phrase headed by V1. An example involves the (gradable stative) verb kêng¹ ‘adept, clever, good at things’, given as a main verb in the following example:

(231) laan³ caw⁴ ni 0 man 2 bò0 kêng1 bò0
nephew/niece 2SG TPC.PCL 3SG NEG adept PCL(Q)
‘Is your nephew not adept?’ (178.6)

In the following examples, kêng¹ ‘adept’ appears immediately after a verb phrase over which it has adverbia l scope, giving the meaning ‘does VP well, is good at VP’:

(232) son² kêng 1 \ faaj1 son²
fight adept side fight
‘(They) fought well, the fighting team.’ (72.6)

(233) kin³ kêng¹
eat adept
‘(Geese) are good at eating (vegetables).’ (216.5)

(234) haaj4 kêng¹ juu 1
angry adept PCL
‘(She’s) good at being angry.’ (999.11)

(235) khòòj5 lom² kêng 1
1SG speak adept
‘I’m good at talking.’ (1100.12)

In each case, the focus particle ka⁰ may be inserted in either of two different positions: immediately before the right-marking adverbia l kêng¹ ‘adept’, or between main subject and predicate (i.e. after the subject noun phrase, and before V1). Compare the following, based on (235):
Further, it is kêng\textsuperscript{l} ‘adept’ which is head for yes-answer purposes:

\begin{verbatim}
Q: khòòj\textsuperscript{5} lom\textsuperscript{2} kêng\textsuperscript{l} boò\textsuperscript{3}
\hfill \begin{tabular}{l}
1SG speak adept PCL(Q) \\
\end{tabular}

\hfill ‘Am I good at talking?’
A: \hfill \begin{tabular}{l}
(lom\textsuperscript{2}) kêng\textsuperscript{l} \\
speak adept \\
\end{tabular}
\hfill ‘(Yes, you’re) good at (talking).’
\end{verbatim}

Now let us consider ñaak\textsuperscript{4} ‘difficult’, shown here as a main verb (in a relative clause):

\begin{verbatim}
(238) phaa\textsuperscript{2}saa\textsuperscript{3} soo\textsuperscript{2}viat\textsuperscript{4} ka\textsuperscript{0} pên\textsuperscript{3} phaa\textsuperscript{2}saa\textsuperscript{3} thi\textsuperscript{i} ñaak\textsuperscript{4}
\hfill \begin{tabular}{l}
language Soviet FOC.PCL be language REL difficult \\
\end{tabular}
\hfill ‘Russian is a language which is difficult.’
\end{verbatim}

\begin{verbatim}
(1349.12)
\end{verbatim}

The following examples show ñaak\textsuperscript{4} ‘difficult’ as head of a right-marking adverbial complement construction:

\begin{verbatim}
(239) nam\textsuperscript{0}-man\textsuperscript{2} n vô\textsuperscript{0} haa\textsuperscript{2} ñaak\textsuperscript{4} dej\textsuperscript{3}
\hfill \begin{tabular}{l}
CT.LIQUID-oily TPC.PCL seek difficult PCL \\
\end{tabular}
\hfill ‘Oil was hard to find, you know.’ (311.2)
\end{verbatim}

\begin{verbatim}
(240) puuk\textsuperscript{5} ñaak\textsuperscript{4}
\hfill \begin{tabular}{l}
plant difficult \\
\end{tabular}
\hfill ‘(They) are difficult to cultivate.’ (1041.9)
\end{verbatim}

\begin{verbatim}
(241) man\textsuperscript{2} kép\textsuperscript{2} ñaak\textsuperscript{4}
\hfill \begin{tabular}{l}
3SG gather difficult \\
\end{tabular}
\hfill ‘It [coffee] is difficult to harvest.’ (1047.2)
\end{verbatim}

\begin{verbatim}
(242) lot\textsuperscript{1} paj\textsuperscript{3} ñaak\textsuperscript{4}
\hfill \begin{tabular}{l}
vehicle go difficult \\
\end{tabular}
\hfill ‘It’s difficult for cars to go (there).’ (1060.7)
\end{verbatim}

Different right-marking adverbial complements show different negation tendencies, such that speakers find negation preferable on V1 for some verb-adverb combinations, and on V2 for others. (It seems that the nature of the V2 adverb can condition these judgements.) Negation of example (242), for instance, is more idiomatic medially than initially (for the meaning given in the free translation):
(243) \(\text{lot}^1 \text{ paj}^3 \text{ bo}^0 \text{ ñaak}^4\)
vehicle go NEG difficult
‘It’s not difficult for cars to go (there).’

(244) \(\text{lot}^1 \text{ bo}^0 \text{ paj}^3 \text{ ñaak}^4\)
vehicle NEG go difficult
‘It’s not difficult for cars to go (there).’ (less idiomatic than (243))

On the other hand, the combination \(\text{cêp}^2 \text{ nak}^2\) [be.hurt heavy] ‘seriously hurt/ill’, in the following example, is more naturally negated initially:

(245) \(\text{bo}^0 \text{ cêp}^2 \text{ nak}^2\)
NEG hurt heavy
‘(They) weren’t seriously hurt.’ (2.7)

Clearly, the scope of adverbial modification by \(\text{V2} (\text{nak}^2 \text{ ‘heavy’})\) is different in (245) to that of \(\text{V2} (\text{ñaa}^4 \text{ ‘difficult’})\) in (242-243). A paraphrase into English along the lines given for the preceding examples with \(\text{ñaa}^4 \text{ ‘difficult’}\) would not be felicitous – i.e. \(\text{nak}^2 \text{ ‘heavy’}\) modifies \(\text{cêp}^2 \text{ ‘hurt/ill’}\) only, and a translation ‘For them to be injured would be heavy’ is unacceptable. This difference may account for the fact that medial negation in this example is unidiomatic, similar in awkwardness to the English translation given:

(246) \(?\text{cêp}^2 \text{ bo}^0 \text{ nak}^2\)
hurt NEG heavy
‘(They were) hurt not seriously.’

Medial negation would be natural with some intonational distancing between \(\text{V1}\) and \(\text{V2}\), such that they would no longer be in a tight single-unit construction:

(247) \(\text{cêp}^2 \quad \text{bo}^0 \text{ nak}^2\)
hurt NEG heavy
‘They were hurt – not seriously.’

Consider another example of initial negation, this time with the noun phrase object of \(\text{V1}\) present between the two verbs:

(248) \(\text{khan}^2 \text{ khòòj}^5 \text{ bo}^0 \text{ kam}^3 \text{ bêêk}^5 \text{ cam}^3 \text{ laq}^1\)
if 1SG NEG clasp brake reach.limit PCL
‘Had I not put on (the) brake hard...’ (788.2)

There may well be semantic reasons for some combinations to prefer initial negation. For example, it may be observed that with the right-marking adverbial \(\text{khak}^1\) ‘clearly’, a range of cognition/perception verbs almost always take left negation (e.g. \(\text{bo}^0 \text{ cui}^1 \text{ khak}^1\) [NEG remember clear] ‘can’t remember clearly’, \(\text{bo}^0 \text{ hên}^1 \text{ khak}^1\) [NEG see clear] ‘can’t see clearly’, \(\text{bo}^0 \text{ daj}^4.ñin^2 \text{ khak}^1\) [NEG hear clear] ‘can’t hear clearly’, \(\text{bo}^0 \text{ huu}^4 \text{ khak}^1\) [NEG know clear] ‘don’t know clearly’).

Grammatical behaviour of right-headed stative adverbial complement constructions (exactly as for same-subject resultative constructions; §4.4.6.2.2., above) suggests that these right-headed structures have more than one underlying constituent structure analysis.
Consider the following expression – not a tight adverbial construction – involving ńaak⁴ ‘difficult’ in a main-verb function:

\[(249) \text{vaw}^4 \text{ phaa}^2 \text{sa}^2 \text{ qang}^3 \text{kit}^2 \text{ man}^2 \text{ ka}^0 \text{ ńaak}^4 \]

\[\text{speak language English 3SG FOC.PCL difficult} \]

‘Speaking English, it’s difficult!’

Here, the stative adverbial ńaak⁴ ‘difficult’ is immediately preceded by the focus particle ka⁰. The predication over which it has scope is vaw⁴ phaa'saa³ qang'kit² ‘speak English’, which is referred to by the third-person pronominal subject man². The following structure may be posited for (249):

\[(249') \left[ \text{vaw}^4 \text{ phaa}^2 \text{sa}^2 \text{ qang}^3 \text{kit}^2 \right]_{LP,i} \left[ \text{man}^2_{SUBJ,i} \text{ ka}^0 <\text{ńaak}^4>_{vp} \right] \]

\[\text{speak language English 3SG FOC.PCL difficult} \]

‘Speaking English, it’s difficult!’

In (249'), the verb ńaak⁴ ‘difficult’ is the main verb of a simple clause whose subject is man² ‘it’. This subject is coreferential with a verb phrase occupying the topic-like left position. The adverbial interpretation of the overall predication emerges pragmatically from semantic relations between the particular predicates involved (i.e. ‘speak’ and ‘difficult’).

The right-headed stative adverbial complement construction provides a way to express the same idea with tighter grammatical cohesion, as follows:

\[(250) \text{vaw}^4 \text{ phaa}^2 \text{sa}^2 \text{ qang}^3 \text{kit}^2 \text{ ŋaak}^4 \]

\[\text{speak language English difficult} \]

‘Speaking English is difficult.’ (or: ‘It’s difficult to speak English.’)

Now, consider what kind of grammatical structure is entailed by this tighter adverbial construction. Recall the alternative constituent structures suggested for resultative constructions ((207) and (213), above), closely related to the right-headed adverbial constructions discussed here. The following are alternative analyses of (250) (using only the direct English glosses, for convenience), along the same lines:

\[(251) (a) \]

```
S
  NP
    VP
      VP
        V2
          V1 (NP)
            θ speak English difficult
```
(b) What arguments may be used to select one or other of these possible structures for right-headed adverbial complement structures?

First, irrealis marking (the preverbal \(si^0\)) on V1 has scope over both verbs:

(252) \(khaw^5\) \(thaang^2\) \(ni^4\) \(man^2\) \(ka^0\) \(si^0\) \(khaw^5\) \(naak^4\) \(lèq^5\)
enter way DEM.GEN 3SG FOC.PCL IRR enter difficult PCL
‘Coming in this way, it would be difficult for it [a tiger] to enter.’ (933.12)

In this example, initial irrealis marking on \(khaw^5\) \(naak^4\) [enter difficult] ‘difficult to enter’ results in an interpretation that it would be (or in another context will be) difficult for the tiger to enter (i.e. both the ‘entering’ and the ‘difficulty’ are situated, by \(si^0\), in the future or the irrealis mode). If scope of aspect-modality marking is a function of constituent structure organization, then (251a) is the likely structure underlying (252), since the aspect-modality prefix \(si^0\) would attach to the highest level VP, which dominates both V1 and V2.

The next issue is negation. As already noted, with right-headed stative adverbial complements, as with resultative constructions generally, negation is possible either preceding V1, or preceding V2. Negation properties of right-headed stative adverbial complement constructions, discussed in §4.4.6.3.1., above, are revealing. The following sentence (repeated from (244) above) is ambiguous, which may be taken as resulting from ambiguous scope of modification by the adverb, and diagnostic of alternative constituent structures:

(253) \(lot^1\) \(bo^0\) \(paj^3\) \(naak^4\)
car NEG go difficult
i. ‘For cars it is/would not be difficult to go (there).’
ii. ‘For cars not to go (there) is/would be difficult.’

The (253i) reading has \(naak^4\) ‘difficult’ scoping over \(paj^3\) ‘go’ only, with the resultant adverbial construction – meaning ‘difficult to go’ – under the scope of negation. For this I suggest a constituent structure like (251a) in which negation attaches to the highest VP, such that adverbial modification is complete within the scope of negation. Thus, the (253i) reading suggests the following structure:
The (253ii) reading, however, has negation scoping over paj³ ‘go’ only, with naïak⁴ ‘difficult’ scoping over this negated predicate. If these scope distinctions emerge from differences in constituent structure, we may assume that the (253ii) interpretation has a structure along the lines of (251b), as follows:

\[ (255) \]

This analysis is supported by the fact that insertion of the focus particle ka⁰ before naïak⁴ ‘difficult’ forces the (253ii) reading (and is indeed the most idiomatic way of expressing the meaning given in (253ii)). I suggest that it does this by preventing V1 and V2 from having a single dominant VP node whose all-in-one-go negation could otherwise result in the (253i) reading:

\[ (256) \]

\[
\begin{array}{c}
\text{lot}^l \\
car \\
\text{NEG} \\
\text{go} \\
\text{FOC.PCL} \\
\text{difficult}
\end{array}
\]

(‘For cars not to go (there) would (also) be difficult.’)

(\text{NOT: For cars it’s not difficult to go (there).}\)

Consider now a verb – dii³ ‘good’ – which due to its semantics does not have the same possibility as, say, naïak⁴ ‘difficult’ to vary in adverbial scope, and accordingly shows different behaviour in its role as a right-headed stative adverbial complement V2. Dii³ ‘good’ is a gradable stative verb which can be used to comment adverbially on a whole predication (‘It is good that S’). The following structure, with the focus particle ka⁰ directly marking bo⁰ dii³ ‘no good’ and putting V2 ‘good’ alone into the highest VP node (à la (251), above), is allowed:

\[ (254) \]
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(257)  khaw\textsuperscript{3}  kin\textsuperscript{3}  mak\textsuperscript{0-muang\textsuperscript{1}}  ka\textsuperscript{0}  bò\textsuperscript{0}  dii\textsuperscript{3}
3PL  eat  CT.FRUIT-mango  FOC.PCL  NEG  good

‘It’s (also) no good that s/he eats mangoes [or: ate the mangoes].’

However, dii\textsuperscript{3} ‘good’ does not function adverbially at a lower level, and cannot be used with a meaning akin to English ‘well’. (Other verbs and constructions are used for this.) The following example is ungrammatical because the focus particle ka\textsuperscript{0} forces a reading in which ‘eat mangoes’ combines with ‘good’ under a single highest VP node (i.e. barring dii\textsuperscript{3} ‘good’ from having its required sentential scope):

(258)  *khaw\textsuperscript{3}  ka\textsuperscript{0}  kin\textsuperscript{3}  mak\textsuperscript{0-muang\textsuperscript{1}}  bò\textsuperscript{0}  dii\textsuperscript{3}
3PL  FOC.PCL  eat  CT.FRUIT-mango  NEG  good

(S/he also ate (the) mangoes no good.)

The constituent structure alternatives shown in (251) (cf. (207) and (213), above) account for the variant grammatical behaviours of both adverbial and resultative constructions shown here.

4.4.6.3.2. Comparison with resultative constructions

Now, let us compare these properties of right-headed stative adverbial complement constructions with same-subject resultative constructions such as the following, repeated with original number from above:

(200)  laaw\textsuperscript{2}  doot\textsuperscript{5}  khua\textsuperscript{3}  taaj\textsuperscript{3}
3SG  leap  bridge  die

‘s/he leapt from a bridge and died.’

In the next example (259), verb-initial aspect-modality marking (e.g. the string khùù\textsuperscript{2} si\textsuperscript{0} bò\textsuperscript{0} daj\textsuperscript{0} ‘probably hasn’t’) on V1 doot\textsuperscript{5} ‘leap’ results in an ambiguity parallel to that of the English translation, namely that while taaj\textsuperscript{3} ‘die’ is clearly under the scope of the aspect-modality marking (i.e. entailing that ‘s/he probably hasn’t died’), doot\textsuperscript{5} ‘leap’ may or may not be:

(259)  laaw\textsuperscript{2}  khùù\textsuperscript{2}  si\textsuperscript{0}  bò\textsuperscript{0}  daj\textsuperscript{0}  doot\textsuperscript{5}  khua\textsuperscript{3}  taaj\textsuperscript{3}
3SG  like  IRR  NEG  ACHV  leap  bridge  die

‘s/he probably hasn’t leapt from a/the bridge and died.’

In other words, (259) entails nothing about whether a ‘leaping from the bridge’ event has occurred. It is ambiguous between ‘s/he leapt off the bridge, but probably didn’t die from it’ and ‘It’s probably not the case that s/he leapt off the bridge (to her death)’. That this aspect-modality marking scopes specifically over V2 supports the claim that V2 is head. (Also, only taaj\textsuperscript{3} ‘die’ is necessary and sufficient as a yes-answer.) For this construction, I suggest a structure like that in (251a), above, where the right-most V is head, as follows:
Accordingly, the interpretation with this structure only allows insertion of the focus marker ka₀ immediately after the main subject, and not in the position before V2:

(261)  
laaw² ka₀ khùù² si₀ bo₀ daf₀ doot³ khua³ taaj³  
3SG FOC.PCL like IRR NEG ACHV leap bridge die  
’S/he (too) probably hasn’t leapt from the bridge and died.’

(262) *laaw² khùù² si₀ bo₀ daf₀ doot³ ka₀ taaj³  
3SG like IRR NEG ACHV leap bridge FOC.PCL die  
(S/he probably hasn’t leapt from the bridge and then died.)

Now, compare (259) to the following, in which the same aspect-modality marking appears not on V1, but on V2:

(263)  
laaw² dōoō³ khua³ khùù² si₀ bo₀ daf₀ taaj³  
3SG leap bridge like IRR NEG ACHV die  
‘(When) s/he jumped off the bridge, s/he probably didn’t die.’  
(Also: ‘If s/he were to jump off the bridge, she probably wouldn’t die.’)

This has a kind of topic-comment style, such that the translation could also be ‘Speaking of her leaping off the bridge, she probably didn’t/ wouldn’t die’. In contrast to (259), this suggests a constituent structure like (251b), as follows:

Accordingly, the focus particle ka₀ is insertable before V2 (and its attendant aspect-modality marking):

(264)  
laaw² dōoō³ khua³ ka₀ khùù² si₀ bo₀ daf₀ taaj³  
3SG leap bridge FOC.PCL like IRR NEG ACHV die  
‘(When) s/he jumped from the bridge, s/he probably didn’t die.’  
(also: ‘(Even if) s/he jumped off the bridge, s/he probably wouldn’t die.’)

Furthermore, the subject laaw² ‘s/he’ may be repeated before V2, as follows:

(265)  
laaw² dōoō³ khua³ laaw² khùù² si₀ bo₀ daf₀ taaj³  
3SG leap bridge 3SG like IRR NEG ACHV die  
’S/he jumped off the bridge, s/he probably hasn’t died.’
This, indeed, is ruled out by the structure shown in (259-260), above:

(266) *laaw² khùù² si⁰ bo⁰ daaj⁰ door⁴ khua³ laaw² taaj³
    3SG like IRR NEG ACHV leap bridge 3SG die
(S/he probably hasn’t jumped off the bridge and then she died.)

4.4.6.3.3. Right-headed active adverbial complementation

Another type of right-headed adverbial complementation involves an active verb – such as lin⁵ ‘play’ – in V2 position, as shown in the following example:

(267) man² qaan¹ pìm⁴ lin⁵
    3SG read book play
‘He’s reading a book for fun.’

These constructions contrast grammatically with right-headed stative adverbial complementation in that they allow neither medial negation nor insertion between V1 and V2 of the focus particle ka⁰ (§4.4.1.6, above):

(268) *man² qaan¹ pìm⁴ bò⁰ lin⁵
    3SG read book NEG play
(He’s not reading a book for fun; He’s reading a book not for fun.)

(269) *man² qaan¹ pìm⁴ ka⁰ lin⁵
    3SG read book FOC.PCL play
(He’s reading a book for fun.)

Right-headed active adverbial complementation is not especially productive, with fewer verbs available to fulfil the role performed by lin⁵ ‘play’ in (267).

4.4.6.3.4. Left-headed adverbial complementation

Some verbs may appear as V1 complement-taking predicates with a semantically adverbial function, behaving grammatically like same-subject complement constructions (§4.4.9.1.1, below). Consider the following uses of the otherwise intransitive active verb faaw⁴ ‘to hurry’:

(270) faaw⁴ khian³ nangsùù³ teen³
    hurry write letter announce
‘(They) hurriedly wrote a letter of announcement.’ (86.7)

(271) faaw⁴ ñap² saphaw³ khaw⁵ maa²
    hurry shift.across boat enter come
‘(They) hurriedly shifted their boats across in (to the shore).’ (134.13)

(272) faaw⁴ lèèn¹ kap² khùùn²
    hurry run return go.back
‘They hurriedly ran back.’ (148.11)
The initial verb faaw⁴ ‘hurry’ is head of the expression, and may appear alone as a yes-answer. Other properties of adverbial complementation are not observed, since the headedness is opposite to that which we have seen so far.

4.4.6.4. Adverbial compounds

In contrast to these adverbial complement constructions (both left- and right-headed), multi-verb adverbial compounds are syntactically more tightly bound, allowing in the medial position neither negation nor insertion of the focus particle ka⁰. Neither verb alone appears to be grammatical head. Adverbial compounds may be either left-marking (mostly expressing posture and manner) or right-marking (mostly expressing manner and purpose).

4.4.6.4.1. Left-marking adverbial compounds

In left-marking adverbial compounds, neither verb may appear alone as a yes-answer, and no material such as negation, focus marking, or aspect-modality marking may appear in the slot between the adverbial and the following VP. An example involves the verb lak¹ ‘steal’, which appears as a regular transitive verb in the following example:

(273) haw² bò⁰ daj⁰ lak¹ ñang³ phaj³ naa²
1SG NEG ACHV steal anything anyone PCL
‘Hey, I didn’t steal anything of anyone’s!’ (674.6)

In the next three examples, lak¹ ‘steal’ appears in V1 position of a V1-V2 left-marking adverbial compound, giving the meaning ‘secretly/stealthily V2’:

(274) fang² ka⁰ daj⁴ juu¹ tèè¹ tòòng⁴.daj⁰ lak¹ fang²
listen FOC.PCL can PCL but must steal listen
‘One could listen to (the radio), but one had to listen secretly.’ (233.4)

(275) lak¹ khaam⁵ saaj²-dèèn³
steal cross border
‘...crossed the border secretly.’ (1227.1)

(276) jaan⁴ khaw³ paj³ lak¹ tii³
afraid 3SG DIR.PCL(go) steal hit
‘(They) were afraid (he) would secretly attack.’ (148.13)

Using (276) as an example, we may show that medial negation in this kind of adverbial construction is ungrammatical (277), and that clause separation by the linker lèka⁰ changes the semantic relation between the verbs, ruling out an adverbial reading, and forcing a simple transitive-verb reading for lak¹ ‘steal’, with the two verbs predicating separate events (278):

(277) *jaan⁴ khaw³ paj³ lak¹ bò⁰ tii³
afraid 3SG DIR.PCL(go) steal NEG hit
((They) were afraid (he) would secretly not attack.?)

(278) jaan⁴ khaw³ paj³ lak¹ lèka⁰ tii³
afraid 3PL DIR.PCL(go) steal CLNK hit
‘They were afraid he would steal (it) and attack.’
In examples (274-276), lak¹ ‘steal’ by itself does not have headship properties at all (in particular it cannot appear alone as a yes-answer), and it seems instead that the V1-V2 compound as a whole is the head of the expression.

While this contrasts with the less restricted behaviour of left-marking adverbial complementation (e.g. involving faaw⁴ ‘hurry’; see §4.4.6.3.4., above), semantically it is hard to tell in what way the modification is different. It is notable that the adverbial complement-taking predicate faaw⁴ ‘hurry’ is not essentially a transitive verb – appearing either as a complement-taking predicate, or an intransitive verb – while the adverbial compounding verb lak¹ ‘steal’ is common as a transitive verb. The only behavioural difference between left-headed complementation and left-marking adverbial compounds seems to be that left-headed complement V1s (such as faaw⁴ ‘hurry’) can appear alone as yes-answers.

A productive area of left-marking adverbial compounding involves posture verbs such as nûûn² ‘lie’, jiûn³ ‘stand’, and nang¹ ‘sit’ in V1 position (see Enfield 2002b, 2004):

(279) me⁰-paa⁴ nan⁴ laaw² ka⁰ nang¹ khaaj³
    CT.MOTHER-aunty DEM.NONPROX 3SG FOC.PCL sit sell

    saj⁵-kôôk⁵ juu¹
    sausage PCL

‘So that aunty, she sat selling sausages.’ (38.3)

(280) nang¹ lom² kan³ lin⁵ juu¹ naj² paa¹
    sit chat RCP play be.at in forest

‘We’d sit and chat together for fun in the forest.’ (1080.9)

(281) laaw² ka⁰ paj³ jûûn³ lôô²-thaa⁵ lot¹.mêê² juu¹
    3SG FOC.PCL DIR.PCL(go) stand wait CT.VEHICLE-bus PCL

‘Sohewentandstoodwaitingforthebus.’ (40.11)

Another productive area of left-marking adverbial compounding involves regular combination of a set of activity verbs with the reciprocal particle kan³, forming a complex V1 adverbial element:

(282) phaa²-kan³ V ‘V together’ (phaa² ‘to lead someone along in doing something’)
    e.g. phaa²-kan³ khû
    lead.along-RCP ascend

‘(They) went up (the bank) together.’ (80.7)

(283) sôôj¹-kan³ V ‘help each other to V’ (sôôj¹ ‘help’)
    e.g. khaw³ sôôj¹-kan³ teêng¹ kin³
    3PL help-RCP prepare eat

‘They helped each other to prepare the meal.’

Note that if both verbs in such a construction are postural, then either order is possible. Thus, compare müûn¹ taa³ nûûn² [open eye lie/sleep] with nûûn² müûn¹ taa³ [lie/sleep open eye], both of which mean ‘sleep with one’s eyes open’.
(284)  \(\text{ñaat}^4\)-\(\text{kan}^3\) V ‘compete with each other in V-ing’ (\(\text{ñaat}^4\) ‘snatch something away, fight over something’)

\[\begin{array}{llll}
\text{e.g.} & \text{khaw}^3 & \text{ñaat}^4\text{-kan}^3 & \text{kin}^3 & \text{khaw}^3 \\
& 3\text{PL} & \text{snatch-CP} & \text{eat} & \text{rice} \\
\end{array}\]

‘They fought with each other to eat the meal.’

Note that the left-marking adverbial element marks the whole VP which follows it, not just the following verb (i.e. the structure is \([V1_{\text{ADVERBIAL}}\]-[V2-NP], rather than \([V1_{\text{ADVERBIAL}}\text{-V2}]-[\text{NP}]\)). This is clear from the pattern of entailment of these sentences:

(285)  NP1 V1 V2 NP2 → NP1 V2 NP2

\((\neq \text{NP1 V1 NP2})\)

Thus, the following left-marking adverbial compound construction entails ‘I watched television’, and does not entail ‘I lay down on the television’.

(286)  \(\text{khòòj}^5\ \text{ñoòn}^2\ \text{beng}^1\ \text{thoo}^2\text{lathat}^1\)

1SG lie watch television

‘I watched television lying down’

4.4.6.4.2. Right-marking adverbial compounding

In right-marking adverbial compounding, V2 is a semantically general active verb whose meaning is subsumed by a V1 element with more specific semantics. The following examples show \(\text{qaw}^3\) ‘take’ in V2 position, and in each case, V1 can be interpreted as a more semantically specific way of ‘taking/getting’ something (i.e. \(\text{lòòk}^4\) ‘peel off’, \(\text{cap}^2\) ‘grab, catch’, \(\text{khaap}^4\) ‘take/carry in the mouth’), with direct translations along the lines of ‘take by V1-ing’:

(287)  \(\ldots\text{lòòk}^4\ \text{qaw}^3\ \text{nang}^3\ldots\)

peel.off take hide

‘...(they) peeled off the tiger’s hide...’ (944.7)

(288)  \(\text{naang}^2\ \text{nan}^4\ \text{ka}^0\ \text{lèèn}^1\ \text{paj}^3\ \text{cap}^2\ \text{qaw}^3\ \text{ngaaw}^4\ \text{thii}^1\ \text{tok}^2\ \text{juu}^1\)

girl that FOC.PCL run go grab take sword REL fall be.at

\(\text{taam}^3\ \text{deen}^1\)

along ground

‘The girl ran off, and grabbed the sword which had fallen on the ground.’ (892.1)

(289)  \(\text{hên}^3\ \text{maa}^3\ \text{to}^0\ \text{ning}^1\ \text{khaap}^4\ \text{qaw}^3\ \text{saj}^5\text{-kòòk}^5\ \text{laaw}^2\ \text{lèèn}^1\)

see dog CLF one carry.in.mouth take sausage 3SG run

\(\text{paj}^3\ \text{lèèw}^4\)

go PFV

‘(He) saw a dog running away, carrying his sausages in its mouth.’ (41.10)
In these examples, V1 and V2 combine as effectively a single verb, taking a single set of core arguments, and neither \(ka^0\)-insertion nor medial negation between these verbs is allowed, as shown by the following ungrammatical examples (based on example (287)):

(290) *...lòòk⁴ \(ka^0\) qaw³ nang³...
    peel.off  FOC.PCL   take   hide
    (...(they) also peeled off the (tiger’s) hide...)

(291) *...lòòk⁴ bò⁰ qaw³ nang³...
    peel.off  NEG  take   hide
    (...(they) peeled not off the (tiger’s) hide...)

In these examples, it is as if the V2 element classifies V1 (as an instance of ‘taking’), in analogous fashion to the relationship between nominal classifiers and the nouns to which they correspond.

4.4.6.5. Depictive secondary predication

Depictive secondary predication involves an adjunct or similar non-core element which describes a property of one core participant in a clause, which holds at the same time as the main predication, but where that property is independent of the main predication (Schultze-Berndt and Himmelmann in press). Stock examples from English include He served the fish raw and He left the party nude, where the adjectives raw and nude supply information about the state of one core argument of the clause during the time at which the main clause action takes place. There is a range of ways in which depictive secondary predications can be expressed in Lao, and these mostly involve multi-verb expressions. I mention just two basic strategies here (see Enfield forthcoming b for detailed discussion).

First, a depictive secondary predication may be made by V2, as in the following example:

(292) man² kin³ siin⁴ nii⁴ dip²
     3SG eat    meat DEM.GEN raw
     ‘S/he eats this meat raw.’

The crucial point here is that the secondary predicate dip² ‘raw’ appears outside the noun phrase to which it refers (which has its right border at the demonstrative determiner nii⁴), and thus is not a regular modifier, but instead performs the depictive function described at the start of this section, making an assertion about the state of the direct object argument (siin⁴ ‘meat’) during the time at which the main predicate action takes place (i.e. when it is eaten).

In other cases, it is V1 which performs the depictive function, such as in the case of verbs of posture and wearing. Here are two examples of V1 depictive expressions:

(293) man² nang¹ qaan¹ pîm⁴
     3SG    sit    read    book
     ‘He sat reading a book.’ (or: ‘He read a book sitting.’)

(294) man² maw² maa² hîan²
     3SG drunk  come  house
     ‘He came home drunk.’
These have been described above, under the rubric of left-marking adverbial compounds (§4.4.6.4.1, above). The following section describes another construction which can perform a secondary predication, but which has other functions too.

4.4.6.6. Adverbial/depictive/resultative adjuncts marked by pên³ ‘be’

The copula verb pên³ ‘be’ can combine with a nominal complement to form a descriptive complement adjunct, with a range of semantic functions. The following example shows the numeral classifier nuaj¹ (used with nouns referring to round things and assembled ‘units’, including mountains) as the complement of pên³, in an adjunct to the verb phrase hòòp⁵ phuu² ‘carry a mountain’:

(295) bak² ñak¹ kumphan² hòòp⁵ phuu² pên³ nuaj¹
    CT.MASC ogre K. carry.in.arms mountain be CLF
‘The Ogre Kumphan carried the mountain whole.’ (201)

In example (295), nuaj¹ is a classifier used for mountains, and the complete phrase pên³ nuaj¹ is a depictive adjunct meaning ‘whole’ or ‘as a unit’. The use of sortal classifiers in pên³-adjuncts with the meaning ‘whole, as a unit’ is productive. The following two examples have similarly depictive semantics (in that the adjuncts describe the form or state of the main clause complement at the time of the main verb event taking place, without relations of manner or cause being predicated):

(296) khaw³ kin³ siin⁴ pên³ tòòn¹
    3PL eat meat be chunk
‘They ate (the) meat in chunks.’

(297) man² hèèng⁵ lè⁰ kèq² qòòk⁵ pên³ phèèn¹ cia⁴
    3SG dry PCL scrape/peel exit be CLF.SHEET paper
‘(When) it’s dry, then peel it off in/as paper sheets.’ (113)

Other examples involving pên³-adjuncts have resultative meaning, where the predication in the adjunct results from, and is true after, the V1 predication. The adjuncts in the following four examples express the physical form of the nominal complement of V1 which results from the event described in V1, due to physical transformation or modification (298-299), a transformation in status or social role (300), or coming into existence (301):

(298) ma⁰ paat⁵ pên³ sii¹ liam¹
    DIR.PCL(come) slice be four sides
‘Bring (the wood and) cut (it) into four sided (pieces).’ (114)

(299) liaw³ beng¹ sùak⁴ khanaat⁵ nii⁴ pìuaj¹ pên³ phong³
    turn look rope size DEM.GEN dissolved be powder
‘(They) turned (and) looked (and saw) a rope of such size dissolved into powder.’ (133)

(300) phen¹ leej² haj⁵ buat⁵ pên³ phaq¹
    3SG then give ordain be monk
‘Then he had (me) ordained (as) a monk.’ (321)
Further cases are comparable to ‘predicative complements’ (cf. English John considers me a friend):

(302)  kuː³  thùù³  khon²  ni¹⁴  pên³  qaaj⁴
 1SG regard person DEM.GEN be O.BRO
  ‘I regard this person (as a) brother.’

In this last example, unlike the examples we have seen so far in this section, the pên³-adjunct is not omissible without changing the meaning of the main verb. In the construction shown in example (302), the meaning of thùù³ is ‘regard, consider’. If the pên³-adjunct were removed, the meaning would become ‘hold, carry’, and the sentence would mean ‘I carried this person’ (cf. English I regarded John a friend versus I regarded John).

4.4.6.7. **Temporal, quantifying, extent, and manner complements marked by daj⁴ ‘acquire’**

The verb daj⁴ ‘acquire, come to have’ has a range of functions in combination with other verbs (Enfield 2003: Chapter 3). One of its regular duties is to link clauses with adverbial complements of various different semantic types. These complements may express a period of time since the main predication has been the case:

(303)  qaaw³  paj³  daj⁴  sòong³-saam³  ni.lèq⁵
  take go ‘acquire’ two-three day PCL
  ‘(They) had taken (the child) away for two or three days.’ (965.6)

They may include a numeral classifier phrase expressing the extent to which the main predication is achieved:

(304)  puuk⁵  phoon⁵  khùn⁵  daj⁴  cêt²  nuaj¹
  plant hillock ascend ‘acquire’ seven CLF
  ‘(They) planted up seven hillocks.’ (112.6)

(305)  laaw²  kin³  khaw⁵  daj⁴  sòong³  thuaj⁵  lèèw⁴
  3SG eat rice ‘acquire’ two bowl PFV
  ‘S/he has (already) eaten two bowls of rice.’

They may include a gradable stative verb expressing the extent or manner to which the main predication is achieved:

(306)  haw²  hêt¹  daj⁴  nòōj⁴  tam⁰-tam¹
  1SG make ‘acquire’ small low-RDP
  ‘I built (the house) small, quite low.’ (90.9)
(307) sùang¹ bo⁰ daj⁴ kaj³ conceal NEG ‘acquire’ far
‘(They) hid (him) not far away.’ (183.1)

(308) com¹ thòòng¹ khùn⁵ caj³ daj⁴ lian¹ laj³ kua¹ muu¹ mutter ‘by-heart’ ‘acquire’ flowing more than peer
‘(I) could/would mutter (the chants) by heart more fluently than the others.’ (321.2)

(309) man² lèèn¹ daj⁴ vaj² 3SG run ‘acquire’ fast
‘S/he runs fast.’

These constructions are discussed in detail in Enfield (2003: 133-140).

4.4.7. Oblique phrases/adjunction

In Lao, translational equivalents of English prepositional phrases are basically verb phrases which, rather than being coordinated with other verb phrases (as in the verb phrase chains discussed in §4.4.10.1, below; cf. also the motion expressions discussed in §4.4.5.3, above), are adjoined to the main predicate. In this position, they perform the usual functions of prepositional phrases in other languages, namely to add non-core arguments – such as locatives, comitatives, benefactives, and the like – to clauses.

Lao has two kinds of ‘preposition’ type elements, denominal and deverbal. Denominal prepositions appear elsewhere as regular nouns, and these include locatives such as naa⁵ ‘face, in front of’, lang⁵ ‘back, behind’, khaang⁵ ‘side, beside’. Denominal prepositions express stative relations of location, and can also express more abstract relations (e.g. lùang¹ ‘matter, story’ as a preposition meaning ‘about’). Relevant to this chapter are deverbal prepositions, which appear elsewhere as main verbs, including khaw⁵ ‘enter, into’, nam² ‘accompany, with’, and haj⁵ ‘give, for’ (Durie 1988). Verbs ‘become’ deverbal prepositions when they appear in a certain grammatical slot. Clark and Prasithrathsint (1985; cf. Clark 1989: 192) have described this transformation of verb to preposition in Southeast Asian languages as ‘zero derivation’, marked not by morphological material but by syntactic position.37 Deverbal prepositions cannot take overt subject arguments, are not clause-separable, and cannot be given aspect-modality marking separately from the main verb. Let us now consider their properties in some more detail.

Deverbal prepositional phrases (in square brackets in the following examples) appear after the main clause:

(310) laj¹ ñaat⁴ qaw³ tòön¹ siin⁴ [nam² maa³]
chase grab take lump meat with/from dog
‘(She) chased (the dog) to grab the lump of meat from the dog.’ (911.5)

(311) khan² haw² juu¹ [nam² me⁰-thaw⁵]
if 1SG be.at accompany CT.MOTHER-old
‘If we live with mother-in-law...’ (392.4)

37 There are problems with the ‘synchronic derivation’ analysis (à la Clark and Prasithrathsint 1985), because such an analysis assumes firstly that the verb meaning is the primary one, and secondly that some kind of real-time active derivation underlies the deverbal preposition uses.
A deverbal preposition marks arguments which are both semantically and syntactically peripheral. Importantly, the notion embodied in the preposition is not predicated as an event (or, as Harrison 1992 puts it, is ‘atemporalized’ or ‘not temporally profiled’). Rather, it provides a way of adding an argument to the core of a clause (in the sense of Foley and Van Valin, 1984, 1985). A deverbal preposition cannot be marked by an overt clause linking particle (such as the clause coordinating particle lèka⁰, or subordinating particles like phùa¹ ‘in order to’), since the preposition is not at the core of any clause, subordinate or otherwise. The following examples, based on (311), force separate clausehood on the two verbs, and the basic meaning of the V₁-V₂ sequence is completely changed:

(312) khan² haw² juu¹ lèka⁰ nam² mè⁰-thaw⁵

if 1SG be.at CLNK accompany CT.MOTHER-old

‘If we stay, and then accompany mother-in-law...’

(*’If we stay and then with mother-in-law...’)

(313) khan² haw² juu¹ phùa¹ nam² mè⁰-thaw⁵

if 1SG be.at in.order.to accompany CT.MOTHER-old

‘If we stay in order to accompany mother-in-law...’

(*’If we stay in order to with mother-in-law...’)

Note also that while various aspect-modality markers may appear on the main verb juu¹ ‘be (somewhere)’ in example (311), they may not appear on the deverbal preposition nam² ‘with’. This is consistent with their ‘oblique’ status; i.e. their adjunction to the main VP constituent. The following examples show that preverbal aspect-modality markers (the experiential marker kheej² and the irrealis marker ca⁰) cannot occur adjacent to verbs in ‘preposition’ function:³⁸

(314) (a) khan² haw² kheej² juu¹ nam² mè⁰-thaw⁵

if 1SG EXP be.at accompany CT.MOTHER-old

‘If we ever lived with mother-in-law...’

(b) *khan² haw² juu¹ kheej² nam² mè⁰-thaw⁵

if 1SG be.at EXP accompany CT.MOTHER-old

(If we lived ever with mother-in-law...)

(315) (a) khan² haw² ca⁰ juu¹ nam² mè⁰-thaw⁵

if 1SG IRR be.at accompany CT.MOTHER-old

‘If we were to live with mother-in-law...’

(b) *khan² haw² juu¹ ca⁰ nam² mè⁰-thaw⁵

if 1SG be.at IRR accompany CT.MOTHER-old

(If we were to live with mother-in-law...)

³⁸ Matthews and Yip (1994: 60-61) show that coverbs in Cantonese (analogous to what I refer to here as ‘deverbal prepositions’) may take aspectual/modal marking. Lao and nearby languages do not allow such patterns at all. An important difference is that placement of the coverb phrase in Cantonese is preferred before the main verb.
The non-core status of the deverbal preposition is also evident in its phonological weakness, being normally de-stressed, and atonal. Indeed, stress alone can distinguish between a verb’s function as either a main verb or an adjoined preposition. An example concerns the verb \textit{juu}, meaning either ‘be/live somewhere’ (as a main verb) or ‘at’ (as a deverbal preposition). In the following examples, the status of \textit{saw} ‘cease’ as either an intransitive verb ‘stop’ (e.g. for the night), or a same-subject control complement verb ‘cease’, corresponds to a distinction between the two meanings of \textit{juu} (where stress is marked by ‘’):

(316)  (a)  \begin{verbatim}
ca0 'saw' juu 'vang'-viang
IRR stop be.at V.
\end{verbatim}

‘We’ll stop at Vang Viang.’ (171.4)

(b)  \begin{verbatim}
ca0 'saw' juu 'vang'-viang
IRR stop be.at V.
\end{verbatim}

‘We’ll stop living in Vang Viang.’

In example (316a), the deverbal preposition \textit{juu} ‘at’ is de-stressed, and the whole example has a single peak (on \textit{saw} ‘stop’). To get the (316b) reading, \textit{juu} ‘live’ would bear tone and take full stress, and there would be two intonation peaks, on \textit{saw} ‘stop’, and \textit{juu} ‘be/live somewhere’, respectively.

Despite the restricted verb properties of deverbal prepositions, they nevertheless remain fundamentally verbs. Thus, most deverbal prepositions, like regular verbs, allow ellipsis of their nominal complements:

(317)  \begin{verbatim}
khan haw juu nam ø
if 1SG be.at accompany
\end{verbatim}

‘If we live with (her)…’

(318)  \begin{verbatim}
khaw 'naang' khaam (thanon) lèèw
3PL walk cross (street) finish
\end{verbatim}

‘S/he has walked across (the street) already.’

An exception is \textit{caak} ‘separate from, from’, which does not allow ellipsis of the complement:\footnote{\textit{Caak} differs from other deverbal prepositions in that in its role as a verb it is both rare and semantically specific, meaning ‘depart/separate from someone or something with likely lasting separation’ (e.g. when leaving home to move to another village).}

(319)  \begin{verbatim}
khaw qòòk caak *(hùan) lèèw
3PL exit from house finish
\end{verbatim}

‘S/he has come out of the house.’

The following examples show more than one deverbal prepositional phrase adjoining a single core clause (the second example showing the same preposition – \textit{haj} ‘give, for’ – used twice):
A final point to note is that it seems impossible in some cases to distinguish a deverbal preposition construction from a directional serial verb construction (cf. §4.4.5.2, above; also, example (318), earlier in this section). The square-bracketed strings in the following examples could be analysed either as deverbal prepositions or as components of serial verb constructions in which path, manner, and/or direction are overlaid as facets of a single event:

\[(322)\]  
\[
\text{kap}^2 \quad [\text{khùùn}^2] \quad \text{paj}^3 \quad \text{haa}^3 \quad \text{sùa}^3
\]
\[
\text{go.back} \quad \text{return} \quad \text{go} \quad \text{seek} \quad \text{tiger}
\]
‘(We’ll) go back and look for the tiger.’ (855.3)

\[(323)\]  
\[
\text{nam}^4 \quad \text{nan}^4 \quad \text{fong}^4 \quad [\text{khùùn}^5 \quad \text{müa}^2 \quad \text{hùòt}^4] \quad \text{bòòn}^1
\]
\[
\text{water} \quad \text{DEM.NONPROX} \quad \text{splash} \quad \text{ascend} \quad \text{go} \quad \text{reach} \quad \text{place}
\]
\[
\text{lang}^3 \text{khaa}^2 \quad \text{phun}^4 \quad \text{lèq}^5 \quad \text{roof} \quad \text{yonder} \quad \text{PCL}
\]
‘That water splashed up all the way onto the roof.’ (937.10)

It is not clear whether a distinction should be made, and it may be that these two analyses amount to essentially the same thing.

### 4.4.8. Causative constructions

In Lao, as in any language, notions of causation are expressed in a range of ways. The one typologically common strategy which is not found in Lao (nor in Tai languages generally) is morphological causativization.\(^{40}\) Causation may be expressed lexically, in verbs containing a notion of ‘cause’ in their internal semantics (e.g. \(khaa^3\) ‘kill’; including at least the semantic components ‘do’, ‘because’ and ‘die’), as well as by selection of different argument structure constructions involving the same verb, allowing transitivity alternations which differ as to the presence or absence of a ‘causer’ in the argument structure:

\[(324)\]  
\[
\text{kafêê}^2 \quad \text{nan}^4 \quad \text{qun}^1
\]
\[
\text{coffee} \quad \text{DEM.NONPROX} \quad \text{warm}
\]
‘That coffee is warm.’

\[(325)\]  
\[
\text{phen}^5 \quad \text{qun}^1 \quad \text{kafêê}^2 \quad \text{nan}^4
\]
\[
\text{3SG} \quad \text{heat} \quad \text{coffee} \quad \text{DEM.NONPROX}
\]
‘He warmed that coffee.’

---

\(^{40}\) Indeed, this property of Tai languages has apparently contributed, via areal diffusion, to a demise of morphological strategies in Mon-Khmer languages (e.g. Khmer and Khmu, Enfield 2003: 54-55; cf. Suwilai 1987: 25ff, Clark 1989: 200-202).
Note that this strategy is not available for all comparable verbs. Compare hoòn⁴ ‘hot’, which does not enter into the ‘caused state’ construction (cf. §4.3.2, above):

(326) \[ \text{kafêê}² \text{ nan}⁴ \text{ hoòn}⁴ \]
coffee DEM.NONPROX hot
‘That coffee is hot.’

(327) \* \[ \text{phen}² \text{ hoòn}⁴ \text{ kafêê}² \text{ nan}⁴ \]
3SG hot coffee DEM.NONPROX
(He heated that coffee.)

For hoòn⁴ ‘hot’, only a periphrastic strategy is available for expressing controlled/intentional causation:

(328) \[ \text{man}² \text{ hêt}¹ \text{ (haj}⁵ \text{) kafêê}² \text{ hoòn}⁴ \]
3SG make give coffee hot
‘He made the coffee hot.’

This periphrastic strategy is relevant in the present context, as it involves no overt marking of the relationship between the main causative verb and its complement. There are three productive causative complement constructions, involving the verbs hêt¹ ‘do/make’ and haj⁵ ‘give’, along with some variations involving verbs with more specific semantics. We now survey the main types.⁴¹

4.4.8.1. Causative constructions in haj⁵ ‘give’

The verb haj⁵ ‘give’ is widespread in descriptions of interpersonal causation, translatable in different contexts with English causative verbs have, let, make, and get:

(329) \[ \text{man}² \text{ haj}⁵ \text{ nòòj}⁴ \text{ paj}³ \text{ talaat}⁵ \]
3SG give N. go market
‘He had/let/made/got Noi (to) go to the market.’

The idea common to these various translations is that the causer (i.e. the main subject) does or says something (usually to the causee – i.e. the lower clause subject), because of which the causee does something – in addition, the main subject knew that as a result of his action, the complement event would happen. This is compatible with a wide range of kinds of interpersonal causation including ‘allowing’, ‘forcing’, and ‘ordering’ – in each case, the complement event happens because of what the main subject has done (or said), and this is under the control of the main subject, in the sense that s/he is aware that the complement event will happen as a result of his or her action (cf. Wierzbicka’s 2002: 171-177 analysis of German lassen). Accordingly, these constructions only involve animate arguments, and thus cannot be used to express equivalents of, say, The wind made the door close or Pepper makes me sneeze.

4.4.8.2. Causative constructions in hêt¹ ‘do/make’

The verb hêt¹ ‘do/make’ is used as a main verb in a causative construction with more restricted use than constructions involving haj⁵ ‘give’:

⁴¹ The present description of the semantic content of these three basic syntactic causative constructions, and the distinctions between them, is preliminary. Further work is required to establish a comprehensive account.
This example would be a typical description of a situation in which somebody has bumped or dropped the glass, and as a result it has fallen and broken. In this case, the main subject does something (usually to the ‘causee’ participant), and because of that the complement event occurs. An important difference between this and the haj⁵ ‘give’ construction is that here the complement event must specify something that happens to the lower clause subject (not something that the lower clause subject does). Hence, it cannot be used in the kinds of interpersonal causation typical of the haj⁵ ‘give’ construction:

(331) *man² hêt¹ nòòj⁴ paj³ talaat⁵
     3SG do/make N. go market
(He made? Noi (to) go to the market.)

The hêt¹ ‘do/make’ causative construction is never used with an animate causee (and, indeed, never with an inanimate causer).

4.4.8.3. Causative constructions in hêt¹-haj⁵ ‘make-give’

The verbs hêt¹ ‘do/make’ and haj⁵ ‘give’ are combined in a third common syntactic causative construction:

(332) man² hêt¹-haj⁵ kèèw⁴ tèèk⁵
     3SG make-give glass break
     ‘He caused the glass to break.’

(333) man² hêt¹-haj⁵ kuu³ met² ngen² laaj³
     3SG make-give 1SG finish money much
     ‘He caused me to lose a lot of money.’

The meaning of this construction is more general than that of the previous two types, similar in meaning to the haj⁵ ‘give’ construction, but apparently lacking the component of main subject control (i.e. it is not necessarily the case the main subject was aware that his or her action would result in the complement event occurring). An important difference between this and the previous two constructions is that there seems to be a specification that what the main subject does is not done to the lower subject. Further, there is no restriction with regard to animacy of the causer and causee arguments.

4.4.8.4. Other verbs as causative complement-taking predicates

Verbs of more specific meaning than hêt¹ ‘do/make’ and haj⁵ ‘give’ can be used as complement-taking predicates with causative meaning:

(334) laaw² phaa²/khii¹/suaj¹ maa⁴ têm⁴ khaam⁵ hua⁴
     3SG lead/ride/help horse jump cross.over fence
     ‘He led/rode/helped the horse to jump over the fence.’

Many verbs combine obligatorily with haj⁵ ‘give’ (in the same slot as hêt¹ ‘do/make’ in the hêt¹-haj⁵ ‘make-give’ construction), as shown for bangkhap¹ ‘force’ in the following example:
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(335) \( \text{laaw}^2 \text{ bangkhap}^1 *\text{(haj}^5) \text{ maa}^4 \text{ tên}^4 \text{ khaam}^5 \text{ hua}^d \)

3SG force give horse jump cross.over fence

‘He forced the horse to jump over the fence.’

The next example shows haam\(^5\) ‘forbid’ in this structure, with the added feature of obligatory negation on haj\(^5\) ‘give’, due to the nature of the causation expressed (i.e. ‘causing something not to happen’):

(336) \( \text{laaw}^2 \text{ haam}^5 *\text{(bò}^0 \text{ haj}^5) \text{ maa}^4 \text{ tên}^4 \text{ khaam}^5 \text{ hua}^d \)

3SG forbid NEG give horse jump cross.over fence

‘He forbade the horse to jump over the fence.’

Structures such as these are discussed further in §4.4.9.1, below, on control complementation structures.

4.4.8.5. Other periphrastic strategies for expressing causation

For completeness, I now briefly mention three more strategies for description of causation in Lao, although they are not cases of ‘multi-verb constructions’ in the sense pursued in this chapter (cf. Enfield 2002c).

Suppose that a situation of ‘being cold’ causes a person to ‘shiver’. This could be expressed by a hêt\(^1\) - haj\(^5\) ‘make-give’ construction, as described in §4.4.8.3, above:

(337) \( \text{khuam}^2 \text{-naaw}^3 \text{ hêt}^1 \text{ haj}^5 \text{ laaw}^2 \text{ san}^l \)

NSR-cold do/make give 3SG shiver

‘The cold is making him shiver.’

Three alternatives for expressing this causative relation are as follows. First, the preposition-like element con\(^3\) ‘until’ (not a verb) can host an adverbial/resultative complement which describes a situation or event that the main event gives rise to:

(338) \( \text{laaw}^2 \text{ naaw}^3 \text{ con}^3 \text{ san}^l \)

3SG cold until shiver

‘He is (so) cold that he is shivering.’

Second, the two causally connected situations – ‘cold’ and ‘shivering’ – can be expressed in separate clauses and linked by ñòôn\(^4\) ‘because’ (which precedes the logical protasis; i.e. the causing event):

(339) \( \text{laaw}^2 \text{ san}^l \text{ ñòôn}^4 \text{ laaw}^2 \text{ naaw}^3 \)

3SG cold because 3SG shiver

‘He is shivering because he is cold.’

Third, the two distinct clauses can be linked by marking the logical apodosis (i.e. the caused event) with kòò\(^1\), elsewhere a verb meaning ‘construct, create’:\(^42\)

\(^42\) The element kòò\(^1\) here takes full stress, and is distinct from the focus particle ka\(^0\), discussed in §4.3.4.2. and §4.4.1.6., above.
(340) laaw² naaw³ kòò¹ laaw³ st⁰ san¹
3SG cold create 3SG IRR shiver
‘He is cold, that’s why he is shivering.’

4.4.9. Complementation

There are a number of basic categories of complementation in Lao, and in none of them is the relationship between the main and subordinate predicate morphological marked in an overt way. In each case, V₁ is the clausal head, and accordingly has certain associated grammatical properties (e.g. typically functioning as a yes-answer). A basic division is between ‘control’ and ‘non-control’ complements, referring to the extent to which the temporal or argument structure properties of the complement-taking predicate will determine those of the lower predicate.

4.4.9.1. Control complementation

In control complementation, there is control by the main verb of argument coreference as well as temporal relation across the two predicates. The two patterns discussed here are same-subject, and different-subject, respectively.

4.4.9.1.1. Same-subject control complements

In same-subject control complements, the matrix verb specifies a verb phrase as its complement, where the subject of the subordinate verb phrase (a) must be understood as coreferential with the main subject, and (b) cannot overtly appear immediately prior to the lower verb. I suggest a constituent structure for this construction as follows:

One piece of evidence for this right-branching structure in which the main verb takes a VP complement is that the complement of a same-subject control complement verb such as jaak³ ‘want to’ can be a complex verb phrase, such as a complement construction, a compound verb, or a verb phrase chain. This suggests that the complement of the main V is an expandable VP, and not, say, a V and an NP in a flat structure (i.e., [NP<NP<NP>V₃>V₃>V₃>]). Here are some examples of same-subject control complement constructions using the main verb jaak³ ‘want’, with various kinds of complex VP complements (in square brackets), including a haj⁵ ‘give’ causative construction:

(341) bò⁰ jaak⁵ [haj⁵ nòòng⁴ qòòk⁵ caak⁵ vang²]
NEG want give Y.SIB exit from palace
‘I don’t want you to leave the palace.’ (160.8)

a distributive clause chain:

(342) jaak³ [qòòk⁵ paj³ som² suan³ paj³ qaap⁵ nam⁴]
want exit go appreciate garden go bathe water
‘She wanted to go out and appreciate the garden, and bathe.’ (159.9)
a cognition complement with overt complementizer:

(344) \( \text{khaw}^3 \text{ jaak}^5 \text{ fang}^2 \text{ phòq}^1 \text{ khaw}^3 \text{ jaak}^5 \text{ [huu}^4 \text{ vaa}^1 \text{] \hspace{1cm}\text{sathaan}^3 \text{akaan}^3 \text{ man}^2 \text{ pian}^1\text{-pèèng}^3 \text{ paj}^3 \text{ jaang}^1\text{-daj}^3 \] \text{situation} \text{3SG} \text{ change-fix} \text{ go} \text{ way-which} \)  

'They wanted to listen (to the radio) because they wanted to know how the situation had changed.' (234.1)

a complex ‘disposal’ construction:

(345) \( \text{muu}^1 \text{ haw}^2 \text{ jaak}^5 \text{ [ñok}^1\text{-qaw}^3 \text{ lùang}^1 \text{ nithaan}^2 \text{ siang}^2\text{-miang}^5 \text{] \hspace{1cm}\text{ma}^0 \text{ lom}^2 \] \text{group} \text{1SG} \text{ want} \text{ lift-take} \text{ story} \text{ tale} \text{ S.M.} \)  

‘We want to raise the story of Siang Miang for discussion.’ (67.1)

or a right-headed adverbial/resultative construction:

(346) \( \text{mii}^2 \text{ laang}^2 \text{ qan}^3 \text{ man}^2 \text{ jaak}^5 \text{ saj}^4 \text{ haw}^2 \text{ liù}^3 \text{ jaak}^5 \text{ [khom}^1 \text{ haw}^2 \text{ long}^2 \] \text{there.is} \text{ some} \text{ CLF} \text{ 3SG} \text{ want} \text{ use} \text{ 1SG} \text{ or} \text{ want} \text{ press} \text{ 1SG} \text{ descend} \)  

‘There are some things (with regard to which) they [i.e. women] want to “use” [‘take advantage of’] us or want to oppress us.’ (581.10)

Same-subject control complement verbs include typical equi verbs like \( \text{jaak}^5 \text{ ‘want’} \) and various other verbs (many of which include ‘want’ in their internal semantics), such as \( \text{sòòk}^4 \text{ ‘look to’}, \text{còòp}^5 \text{ ‘stalk in order to’}, \text{haan}^3 \text{ ‘dare to’} (=\text{kaa}^4 \text{ ‘dare to’}; \text{cf. example (366), below}), \text{ñoøm}^2 \text{ ‘agree to’}, \text{lùùm}^2 \text{ ‘forget to’}, \text{as well as phase complements like leem}^1 \text{ ‘begin to’}.\text{43} \)  

These are illustrated in the following examples:

(347) \( \text{bò}^0 \text{ jaak}^5 \text{ caaj}^1 \text{ ngen}^2 \text{ NEG} \text{ want} \text{ pay} \text{ money} \)  

‘(He) didn’t want to pay.’ (814.12)

(348) \( \text{sòòk}^4 \text{ ñing}^2 \text{ nok}^1 \text{ ñing}^2 \text{ nuu}^3 \text{ look.for} \text{ shoot} \text{ bird} \text{ shoot} \text{ rat} \)  

‘(We’d) look to shoot birds and rats.’ (1172.4)

---

43 These verbs can take different-subject subordinate clauses only if \( \text{haj}^5 \text{ ‘give’} \) is used to mark the switch of reference (cf. §4.3.1, above).
In general, separate marking of aspect-modality cannot appear in the lower complement of these constructions, but some future-oriented verbs such as jaak⁵ ‘want’ occasionally allow preverbal marking of the lower verb by either of the irrealis particles si⁰- or ca⁰- (e.g. man² jaak⁵ ca⁰ paj³ [3SG want IRR go] ‘S/he wants to go’).

4.4.9.1.2. Different-subject control complements

In different-subject control complement constructions, the matrix verb takes a sentential complement whose subject may or may not be ellipsed. The complement cannot be given independent aspectual-modal marking, and its subject, if ellipsed, cannot be coreferential with the main subject. Usually, aspectual-modal marking cannot appear at all in the lower clause— for example, in a structure like Someone saw John send the letter, the lower clause John send the letter occurs at the same time as the main event of someone seeing it. Thus, tense of the lower verb remains controlled by that of the upper verb. However, certain

44 This sentence is a jocular remark about balding men who grow their hair long at the back.

45 In cases where upper and lower subjects are coreferential (e.g. when one sees oneself do something in a mirror, or help oneself do something in a dream), a logophoric pronoun qêêng³ (usually preceded by the classifier too³ ‘body, self’, or an appropriate pronoun) can be used as the higher-clause-object/lower-clause-subject, as in the following example:

lèèw⁴ khon³ laaw⁵ m⁰ st⁰ song⁴ to⁰-qêêng³ paj³ qût²-hiiw³
PFV person Lao TPC.PCL IRR send CLF-self go starve-be.hungry

nam³ khaw³ ka⁰ bo⁰ jaak³ hêt¹ nòq¹
accompany 3PL FOC.PCL NEG want do PCL

‘And so for Lao people to send their own (i.e. ‘themselves’) to go and starve with them is not something they want to do, right?’ (1348.7)
aspectual marking (such as the progressive marker kamlang⁵) is occasionally possible.

The relationship between upper and lower predicates in different-subject control complement constructions is tight, such that the lower clause is strongly dependent on the main verb. V2 cannot appear as a yes-answer, nor, importantly, is internal insertion of the focus particle ka⁰ (i.e. between the lower subject and predicate) possible. These facts both indicate that the lower verb does not head an independent verb phrase.

The following two structures show possible constituent structure analyses of these types of constructions:

(354)  (a)                              (b)

The structure in (354a) appears to be appropriate for describing different-subject control complement constructions in which the upper verb clearly takes the lower clause as a whole complement, as in direct perception-of-event complements like those of hên³ ‘see’ or daj⁴.ñin² ‘hear’, such as the following (the sentential complement is given in square brackets):

(355)  laaw² daj⁰ ma⁰ hên³ [phò⁰-luung² phu⁰-nìng¹]
       3SG   ACHV  DIR.PCL(come)   see       CT.FATHER-uncle CLF.PERSON-one
       saj¹ veèn¹-taa³ qaan¹ nàng⁰ siù³]
       put.on  spectacles  read       writing

‘He saw an old man put on glasses to read.’ (52.8)

(356)  phuak⁴ khoòj⁵ hên³ [man² nìng² baan⁴]
       group 1SG  see       3SG  shoot  village

‘We saw them bomb the village.’ (1157.7)

WH-questions may be formed from these constructions by substituting nàng³ ‘what’ for the whole lower NP-VP structure. Thus, (356) could be an answer to the following:

(357)  phuak⁴ caw⁴ hên³ nàng³
       group 2SG  see       what

‘What did you see?’

Note, however, that the complement clause cannot be freely moved into left position or right position in the same way that noun phrases and other less tightly dependent constituents can be.

A yes-answer to a polar question formed from (356) would simply be the matrix verb hên³ [see] ‘(I) saw (it)’, showing that this is the head with respect to the whole construction.
I describe constructions of the form shown in (354a) as S-COMP different-subject control complement constructions. Note that one difference between these and the ‘flat’ different-subject control complement constructions we are about to discuss is that S-COMP different-subject complement clauses tend not to allow their subjects to be ellipsed.

Other different-subject control complement constructions are better analysed as having the structure in (354b). I refer to these as ‘flat’ different-subject control complement constructions, due to the main verb phrase being flat with respect to the relatedness of the upper verb and lower verb phrase, namely that they appear as constituent structure sisters. One important point about this structure is that it directly reflects the ambiguity of the lower noun phrase as either object of the upper verb, or subject of the lower verb, or, better, simultaneously both. A typical instance involves haj5 ‘give’ in its causative function (see §4.4.8.1, above):

\[(358) \text{haj}^5\text{ to}^{0}\text{-mên}^{2}\text{ taaj}^{3}\]
\[
give \text{ CT.CREATURE-louse die} \]
\[\ldots\text{to make the lice die.}\] (1185.11)

Unlike the S-COMP different-subject control complement construction described above, here the lower subject and predicate cannot be replaced in a WH-question by ñang3 ‘what?’:

\[(359) \text{haj}^5\text{ ñang}^{3}\]
\[
give \text{ what} \]
\[(=\text{to do/cause what?})\]

Another difference, again related to contrasting headship properties emerging from different constituent structures, concerns the kind of yes-answer which would be elicited by a polar question based on a flat different-subject control complement construction. Thus, with reference to (358), neither haj5 ‘give’ (the matrix causative verb), nor taaj3 ‘die’ (the lower verb) would suffice as a yes-answer on its own, suggesting that neither is an unequivocal head of the overall expression:

\[(360) \text{Q: haj}^5\text{ to}^{0}\text{-mên}^{2}\text{ taaj}^{3}\text{ bòò}^{3}\]
\[
give \text{ CT.CREATURE-louse die PCL(Q)} \]
\[\text{‘to make the lice die?’}\]
\[
\text{A: haj}^5\text{ taaj}^{3}\]
\[
give \text{ die} \]
\[\text{‘(Yes,) to make (them) die.’}\]

Flat different-subject control complement verbs typically include verbs of causation such as haj5 ‘give’, hêt1 ‘make’, haam5 ‘forbid’, and suaj1 ‘help’, as shown, respectively, in the following examples (cf. §4.4.8., above):

\[(361) \text{phen}^l\text{ ka}^{0}\text{ bo}^{0}\text{ haj}^5\text{ paj}^{3}\]
\[3\text{SG FOC.PCL NEG give go} \]
\[\text{‘He wouldn’t let (me) go.’ (332.2)}\]

\[(362) \text{baang}^{3}\text{-thùa}^{l}\text{ ka}^{0}\text{ hêt}^{l}\text{ kèèw}^{4}\text{ tèèk}^{5}\]
\[\text{some-occasion FOC.PCL make glass break} \]
\[\text{‘Sometimes (I) might break a glass.’ (1001.9)}\]
(363)  khaw³  haam⁴  suup⁴
3PL    forbid    smoke

‘They forbid (people) to smoke (it).’ (117.10)

(364)  Khòòj⁵  paj⁴  suaj¹  mê⁰-tu⁴  khòòj⁵  hêt¹  viak⁴
1SG  go    help    CT.MOTHER-grandparent 1SG  do    work

‘I went to help my grandmother to work.’ (1073.5)

Also, note that the lower VP can be structurally complex. In the following example, the main different-subject control complement verb is haj⁵ ‘give’, the lower subject is khon² ‘person’, and the lower VP (in square brackets) is a ‘disposal’ construction involving qaw³ ‘take’ (§4.4.4., above):

(365)  haj⁵  khon²  [maa²  qaw³  khùang¹  thaj²-haw²  ni⁰]
give  person    come    take    stuff    people-1PL  FOC.PCL
paj³  tom⁴]
DIR.PCL(go)  boil

‘(They’d) get someone to come and take our clothes and boil them.’ (1185.7)

Semantically, these involve causation, whereby the ‘object’ of the first verb is affected by action of the main subject, and as a result of that main subject action, the first verb ‘object’ is the lower verb ‘subject’ with respect to the lower VP. (This particular example (365) would have a constituent structure along the lines of [NP1<V NP2 (V NP3 VP)VP>VP], where NP2 khon² ‘person’ is the main ‘causee’, and is the ‘subject’ of the action predicated in the lower complex clause.)

Finally, note that the two kinds of complement construction described in this section and the previous one may be combined in single complex clauses. The following example shows a flat different-subject control complement (in square brackets) subordinate to a same-subject control complement verb (with the whole same-subject control complement construction in angle brackets), such that the whole sentence has a structure along the lines of (NP<VSSCC[V_DSCC NP VP]VP>VP):

(366)  thaang²  khan⁵  theng²  ka⁰  <bò⁰  kaa⁴  [khom¹-hêng³  ø-us  long²]>
way    level    upon    FOC.PCL    NEG    dare    oppress    descend

‘The upper administration <didn’t dare [to force (us) to come down]>.’ (592.1)

4.4.9.2. Non-controlled complementation

A final class of complements, involving verbs of speech and cognition, and usually marked with an overt complementizer vaa¹ ‘say’, is loosely subordinating, whereby the lower clause retains many of the properties of an independent sentence. The structure of such sentences resembles that of (354a), proposed for S-COMP different-subject control complement constructions described in §4.4.9.1.2, above – namely where the whole lower clause is properly a complement of the main verb.

Here are some examples of non-controlled complementation, involving verbs of speech and cognition bòòk⁵ ‘tell’, haaj⁴ ‘berate’, khùt¹ ‘think’, huu⁴ ‘know’, and jaan⁴ ‘afraid’,
respectively, all requiring that the complement be overtly marked by vaa¹ ‘say’ in its role as a complementizer:46

(367) naj² vélaa² nan⁴ siang²-miang⁵ bóök⁵ vaa¹ sūak⁴
    in    time      DEM.NONPROX S.-M.    tell      COMP   rope

    sii¹ sèn⁵ haj⁵ dìng³ khèng¹ samee³ kan³
    four   CLF    give   pull   tightly.stretched   evenly   RCP

‘At that time, Siang Miang told them that the four ropes were to be pulled to an even tightness.’ (125.1)

(368) haaj⁴ vaa¹ qaw³ ñon² vaan⁴ qan⁶-niir⁴
    berate    COMP     take    aeroplane    scatter    CLF-DEM.GEN

‘(He) was angry [i.e. ‘berated me’] that I took an aeroplane and scattered these (flowers).’ (551.13)

(369) khùt¹ vaa¹ man² taaj³ lèèw⁴
    think    COMP   3SG die   PFV

‘(He) thought that it had died.’ (187.7)

(370) Khaw³ ñang² bò⁰ huu⁴ vaa¹ si⁰ song¹ paj³ bóòn¹ daj³
    3PL     still    NEG    know    COMP   IRR    send    go    place    which

‘They didn’t yet know where they’d send (us).’ (1171.3)

(371) jaan⁴ vaa¹ khòòng³ haw² ni⁰ hên³
    afraid   COMP   of    1SG   TPC.PCL see

‘(We’re) worried our (man) will see (him).’ (121.1)

Let us now consider some grammatical properties of these constructions, with reference to the following example, whose main complement-taking verb is laaj²-ngaan² ‘report’:

46 The roles of vaa¹ ‘say’ are many and varied, but further discussion is beyond the present scope. Note that vaa¹ is common as a main complement-taking predicate in itself, meaning ‘utter’, ‘say’:

(a) mua¹ vaa¹ qooj⁴ jaan⁴ man³ taaj⁴ lèèw⁴
    group     say    INTJ  afraid   3SG   die   PFV

‘The others said, ‘Oh, we suspect it’s dead!’.’ (186.1)

(b) phuak⁴ ñuan² vaa¹ caw²-naaj⁴ phen¹ póój¹ kuu¹ loor⁴
    group   Vietnamese   say    authorities   3SG   release    1SG   right.away

‘The Vietnamese said ‘The authorities let me/us go right away’.’ (506.14)
First, (372) fails the clause separability test, since the lower predicate is dependent on the upper predicate in a particular way. The whole sentence is not simply an assertion of the two clauses, and in particular the lower clause is not entailed – thus, (372) does not entail that ‘the people of this village had moved to that village’, since this describes an event which constitutes the content of someone’s report, and is not an assertion of that event. Example (372) merely entails that someone reported something. Second, due to the relative grammatical independence of the lower clause, insertion of the focus marker \(ka\) is possible either between the higher subject and matrix predicate (i.e. immediately after \(man\) ‘it’), or inside the complement, between the lower subject and its predicate (i.e. immediately after the subject \(khon\) \(baan\) ‘people of this village’).

Third, in this kind of construction, the aspect-modality marking on the lower verb phrase is independent of the aspect-modality properties of the matrix verb. Thus, the following example, inserting complex aspect-modality marking (cf. Figure 4.4.2-1 above) on the lower verb of (372), is grammatical (cf. also (370), above):

Finally, the whole lower clause, including or not including the complementizer \(vaa\), may be replaced by \(ñang\) ‘what?’ in a WH-question, as follows:

4.4.9.3. **Verbs appearing in both controlled and non-controlled complementation**

Some complement-taking predicates, like \(hèn\) ‘see’ or \(daj\) ‘hear’, may act either as S-COMP different-subject complement verbs (without overt complement marking, cf.
§4.4.9.1.2, above) or may head non-controlling constructions whose lower complements are overtly marked (by \textit{vaa\textsuperscript{1}}). Compare the (a) and (b) examples in the following pairs:

(376) (a) \textit{phaak\textsuperscript{4} khooj\textsuperscript{5} hên\textsuperscript{3} man\textsuperscript{2} ning\textsuperscript{2} baan\textsuperscript{4}}

\textit{group 1SG see 3SG shoot village}

‘We saw them shoot (i.e. bomb) the village.’ (1157.7)

(b) \textit{phaak\textsuperscript{4} khooj\textsuperscript{5} hên\textsuperscript{3} vaa\textsuperscript{1} man\textsuperscript{2} (si\textsuperscript{0}) ning\textsuperscript{2} baan\textsuperscript{4}}

\textit{group 1SG see COMP 3SG IRR shoot village}

‘We saw that they shot (i.e. bombed) the village.’

(377) (a) \textit{laaw\textsuperscript{2} daj\textsuperscript{0} niin\textsuperscript{2} caw\textsuperscript{4} khaa\textsuperscript{5} man\textsuperscript{2}}

\textit{3SG hear 2SG kill 3SG}

‘S/he heard you kill it.’

(b) \textit{laaw\textsuperscript{2} daj\textsuperscript{0} niin\textsuperscript{2} vaa\textsuperscript{1} caw\textsuperscript{4} (si\textsuperscript{0}) khaa\textsuperscript{5} man\textsuperscript{2}}

\textit{3SG hear COMP 2SG IRR kill 3SG}

‘S/he heard that you killed it (/will kill it).’

In the (a) examples, the complement must be read as co-temporal with the main verb. Thus, for example, in (376a) the ‘seeing’ and the ‘bombing’ happened at the same time. However, in the (b) examples, in which the lower clause is separated from the main verb by the complementizer \textit{vaa\textsuperscript{1}}, the lower verb is not temporally dependent on the main verb, as shown by the possibility of inserting independent aspect-modality marking on the lower verb. There is a difference in evidential status between the (a) and (b) examples, such that in the (a) examples the main subject has had direct perceptual access to the event predicated in the lower clause, whereas in the (b) examples the subject infers the truth of the lower clause predication, either by visual evidence of the results (376b), or by hearsay (377b).

4.4.9.4. So-called ‘passive’: the undergoer complement construction

A final type of complement construction is the ‘undergoer complement construction’, marked by the verb \textit{thùùk\textsuperscript{5}} ‘strike, come into contact with’, which has traditionally been regarded as a ‘passive’ marker. Cross-linguistically, the term ‘passive’ normally refers to a construction type in a language with an S/A pivot (‘subject’) with the syntactic function of removing an ‘A’ from a transitive clause, and putting the ‘O’ into intransitive subject (S) position, often allowing the erstwhile A to be expressed in an oblique phrase (Foley and Van Valin 1985, Dixon 1994, inter alia). Motivations for having such a construction in a ‘subject-prominent’ language relate to argument management in discourse, providing speakers with a way to background A arguments, foreground O arguments, and otherwise manipulate grammatical relations where strict constraints on functional structure apply (e.g. due to control of cross-clausal co-reference of ellipsed arguments). In Lao, however, there is little need for a dedicated passive construction, since the functions just discussed are taken care of by ellipsis, freedom of pragmatically-determined argument movement, and great versatility in verb argument structure (cf. §4.3, above). Co-reference of ellipsed subjects in conjoined clauses is not under strict syntactic control (i.e. Lao has no ‘pivot’).

Let us then consider what the so-called passive marked by \textit{thùùk\textsuperscript{5}} ‘strike’ actually does. First, the following examples show \textit{thùùk\textsuperscript{5}} as a transitive verb meaning ‘strike, come into contact with’:
The ‘contact’ meaning of thúùk⁵ may be extended beyond literal physical contact, as the following examples show:

(381) bò⁰ thùùk⁵ laat⁴sakaan³
NEG should strike royal.service
‘(They) shouldn’t be selected for royal service.’ (104.5)

(382) thúùk⁵ khoò⁵-haa³ vaa⁴ pên³ khon² bò⁰ dii³
strike accusation COMP be person NEG good
‘(You’d) get an accusation that you were a bad person.’ (232.7)

The next set of examples show thúùk⁵ in the context in which it is most likely to be labeled as a ‘passive’ marker. In these cases, it takes a verb phrase or sentence complement, where the subject of thúùk⁵ is coreferential with the object of the lower complement:

(383) qaat⁵ ca⁰ thúùk⁵ cap² ka⁰ pên³ daj⁴
might IRR suffer catch FOC.PCL be can
‘It was possible that (you) might even get caught.’ (273.1)

(384) ka⁰ thúùk⁵ khaw³ ñing² taaj³
FOC.PCL suffer 3PL shoot die
‘(And then they’d) get shot dead by them.’ (755.5)

(385) phu⁰-thiil'-sòòng³ paf⁴ ka⁰ thúùk⁵ paa³ kin³
CLF.PERSON-ORD-two go FOC.PCL suffer fish eat
‘The second person went, and he (also) got eaten by fish.’ (969.3)

(386) cav⁴ ca⁰ thúùk⁵ pòòj¹ tua³ naj² mià¹ daj³
2SG IRR suffer release body in time which
‘When would you be released?’ (273.8)

It is easy to see why one might label these examples as ‘passive’. If we view thúùk⁵ as simply a grammatical marker here, its function would seem to be to put an O argument (a patient) of the verb it marks into main subject position (cf. the English translations). However, not all uses of thúùk⁵ as a complement-taking predicate follow this pattern. The following examples show thúùk⁵ taking same-subject VP complements, meaning that it ‘fell to’ the subject to do something; the subject had to do something:
VERBS AND MULTI-VERB CONSTRUCTIONS IN LAO 173

(387) thùùk\(^5\) nêê\(^2\)lathêêt\(^4\) paj\(^3\) han\(^0\)  
    suffer exile go PCL  
    ‘(He) was exiled.’ (155.2)

(388) nèè\(^1\)-nòòn\(^2\) haw\(^2\) tòòng\(^4\) thùùk\(^5\) son\(^2\)  
    definitely 1SG must suffer fight  
    ‘I will definitely have to fight.’ (i.e. ‘Definitely I must be made to fight’.) (98.9)

These are clearly not ‘passive’ by any description (since the main subject is subject, not object, of the lower verb), but they are indeed ‘adversative’ in meaning.

Further, in the next three examples, the main subject of thùùk\(^5\) is not an argument of the lower clause at all, but a possessor of an argument of the lower clause (in a rather more abstract sense in the second and third examples):

(389) thùùk\(^5\) ñak\(^1\) hak\(^2\) khèèn\(^3\) hak\(^2\) khaa\(^3\) qiik\(^5\)  
    suffer troll snap arm snap leg more  
    ‘(They) got (their) arms, and (their) legs too, snapped by a troll.’ (974.13)

(390) lùù\(^3\) vaa\(^1\) thùùk\(^5\) phu\(^0\)-khon\(^2\) lom\(^4\) taaj\(^3\) sia\(^1\) haaj\(^3\)  
    or COMP strike CLF.PERSON-person fall die lose disappear  
    ‘...or (if you) suffer anyone (of your people) falling over and dying...’ (125.13)

(391) phen\(^1\) thùùk\(^5\) phua\(^3\) paj\(^0\) nòòn\(^2\) kap\(^2\) phu\(^0\)-saaw\(^3\)  
    3SG strike/suffer husband go sleep with CLF.PERSON-girl  
    ‘She suffered her husband sleeping with (another) girl.’  
    (or: ‘She was slept-with-another-girl by her husband.’)

Thus, while thùùk\(^5\) in one of its common functions seems analogous in grammatical function to a ‘passive’ marker, it is not a passive marker in the usual sense. The main subject may correspond to subject or object or even neither argument of the lower clause. The relationship between simple transitive sentences and undergoer complement constructions marked by thùùk\(^5\) is not a simple one of syntactic permutation, but involves addition of specific semantic content (meaning essentially ‘have a (usually adverse) experience of VP, not by one’s choice or control’).

4.4.10. Coordinating constructions

4.4.10.1. Verb (phrase) chaining

A verb (phrase) chain is a string of verb phrases with no overt linking morphology, usually with a single understood subject, which may or may not be overtly expressed. The following examples are typical (chained verb phrases are each square-bracketed):

(392) paj\(^3\) [cap\(^2\) nok\(^1\)] [cap\(^2\) nur\(^4\)] [cap\(^2\) pur\(^5\)] [cap\(^2\) paa\(^3\)] [ma\(^0\) kin\(^3\)]  
    go catch bird catch rat catch crab catch fish DIR.PCL(come) eat  
    ‘(We’d) go and catch birds, and rats, and crabs and fish to eat.’ (1172.6)

(393) khan\(^2\) phu\(^0\)-daj\(^3\) diùù\(^4\) paj\(^3\) [gaap\(^5\) nam\(^4\)] [sak\(^1\) khùang\(^1\)]  
    if CLF.PERSON-any naughty go bathe water wash clothes  
    ‘If anyone was naughty and went to bathe or wash their clothes...’ (1189.13)
Different semantic relationships between clauses may hold. In (392) and (393), the chained clauses are in a parallel or distributive relationship – there is no dependence among the bracketed verb phrases in terms of temporal, consequential, conditional, causative, or purposive relation. In (394), however, there is a purposive relationship between the two clauses, such that the second VP describes the purpose of the first VP, and the truth of the whole sentence entails the truth of the first VP, but not necessarily the second (i.e. it only means that ‘the purpose of the first VP was the second VP’). These different kinds of semantic relationships can be hierarchically combined in a single sentence, as follows:

(395) 

\[
<\text{tùk}^{2} \text{ hèè}^{3}> <\text{haa}^{3} \text{ hòòj}^{3}> ... <\text{saj}^{1} \text{ mòòng}^{2}> <\text{haa}^{3} \text{ paa}^{3}>>
\]

‘We’d cast \text{hèè}^{3} nets for shells, and put out \text{mòòng}^{2} nets for fish.’ (1066.1)

The two constituents in square brackets are VPs in parallel. Both of these complex VPs consist of two chained VPs (in angled brackets), where the second VP describes the intended purpose of the first.

A second kind of relationship between chained verb phrases is a ‘sequential’ one – i.e. where the events listed in the chain are understood to happen one after the other. In clause chains where the actions predicated are to be interpreted as distinctly separated events, this separation is often overtly marked by the clause linker \text{léka}^{0} (see §4.4.1.2, above), which is almost always followed by a zero anaphor coreferential with the subject of the previous clause. In the following example, \text{o’s}s refer to \text{tamluat}^{5} ‘police’, and other ellipsed arguments are unmarked:

(396) \[\text{khan}^{2} <\text{tamluat}^{5} \text{ hên}^{3}> \text{han}^{0} [\text{o} \text{ qaw}^{3} \text{ paj}^{3}] [\text{o} \text{ kêp}^{5}]\]

\[
\text{if police see TPC.PCL take go collect }
\]

\[
\text{paj}^{3} \text{ léka}^{0} [\text{o} \text{ pap}^{2-maj}^{5}] \text{léka}^{0} [\text{o} \text{ póòj}^{1} \text{ ma}^{0}]
\]

\[
\text{go CLNK fine CLNK release DIR.PCL(come)}
\]

\[
\text{kin}^{3} \text{ law}^{5} \text{ khùù}^{2} \text{ kaw}^{1}
\]

\text{consume liquor like old}

‘If the police see (them), (they) would take (them) away, pick (them) up, and then fine (them), and then release (them) to come and carry on drinking like before.’ (1294.4)

Here, the linker \text{léka}^{0} overtly partitions the string of verb phrases into the three separate events of (i) ‘police taking them, picking them up’, (ii) ‘police fining them’, and (iii) ‘police releasing them to carry on drinking’. Here is another example, with numerous chained clauses (all with subject ellipsed), and just one overt linking of clauses using \text{léka}^{0}:

(397) \[\text{kap}^{2} \text{ maa}^{2} [\text{ma}^{0} \text{ laang}^{4} \text{ tiin}^{3}] [\text{laang}^{4} \text{ mîmü}^{2}]\]

\[
\text{return come DIR.PCL(come) wash foot wash hand}
\]

\[\text{[qanaa}^{2-maj}^{2}] \text{léka}^{0} [\text{khùù}^{5} \text{ tiang}^{1}] [\text{tiî}^{3} \text{ kalèèng}^{4}] \text{[nôòn}^{2}]
\]

\text{clean.up CLNK ascend bed hit bell sleep}

‘(We’d) come back and wash (our) feet, (and) wash (our) hands, clean up, and then get into bed, (when they’d) ring the bell (for us) to go to sleep.’ (1242.8)
Here, the first chain [‘return’ + ‘wash hands’ + ‘wash feet’ + ‘clean up’] shows no overt marking between VPs. These actions are habitually linked together in a normal daily complex event (given the context of boarding school life for children), and so are conceptually unitary, relatively speaking. This complex (but monoclusal) chain is then connected by the clause linker lèka⁰ to another unmarked chain of VPs, [‘get into bed’ + ‘hit the bell’ + ‘sleep’], again a series of action habitually linked in the daily flow of events, although not necessarily normally directly linked to those of the first chain.⁴⁷

Such strings are typical in narratives. The following example is illustrative, from one speaker’s elicited description of a series of events acted out in a video stimulus designed to explore the cross-linguistic packaging of complex series of events (van Staden et al. 2001). The clause linker lèka⁰ (shown in boldface) occurs seven times:

(398) phu⁰-saaj² khon² nii⁴ nòòn²-lap²/ juu ¹ la⁰ laaw²
  CLF-male  CLF  DEM.GEN  lie-sleep  be.at  PCL  3SG
ka⁰/  huu⁴.mia⁶ khùn⁵ maa⁷/  si³  taa³  lèka⁰/
  FOC.PCL  become.conscious  ascend  come  rub  eye  CLINK
luk¹  khùn⁵/  nang⁴  juu¹  lèka⁰  hêt/  jiat⁶/
arise  ascend  sit  be.at  CLINK  do  stretch.out
qèèw⁵/  jiat⁶-khaan⁴/  lèka⁰  kaw³  hua⁵  lèka⁰/  luk¹
  lower.back  stretch.oneself  CLINK  scratch  head  CLINK  arise
ñaang¹  paj³  cap²  qaw³  saam²/  ñaang¹  paj³
walk  go  grab  take  bowl  walk  go
qaw³  nam⁴  juu¹  kakhuq¹/lèka⁰  thèëk⁵  nam⁴  saj³
take  water  be.at  bucket  CLINK  pour.out  water  put
saam²/  lèka⁰  thùù⁵  saam²  kap²  khùùn²  maa²
  bowl  CLINK  carry  bowl  go.back  return  come

‘This man is sleeping – and then he – wakes up – rubs (his) eyes and then – gets up – sits there and then does – stretches – his back – stretches (him)self – and then scratches (his) head and then – gets up (and) walks (to) get a bowl – and then walks (to) get water in a bucket – and then pours the water into the bowl – and then carries the bowl back.’ [NV137 05.086]

4.4.10.2. Verb compounds

Two or more verbs can be compounded, resulting in what is effectively a single verb, with a single subject and a single object. These usually involve a pair of near synonyms. This may be interpreted as lexical compounding or syntactic coordination of verbs under V’, under VP.

Here are a few examples, with the compound verb in square brackets (in the third example the clause is relativized):

Notably, the subject of tii³ kalèèng¹ ‘ring the bell’ is non-coreferential with the subject of the prior and subsequent verb phrases, khùn⁵ tiang⁵ ‘get into bed’, and nòòn² ‘lie down/sleep’, respectively. This is an exception to the rather strong tendency for verb phrases in such series to have coreferential subjects.
In each of these cases, the verbs in compound are clause-separable. Semantically, they involve simple synonymic reiteration (as in (399), (400)). Thus, a verb compound V1-V2 entails both V1 and V2.

4.5. CONCLUSION

4.5.1. Ambiguity and complexity

The very wide range of possible relationships between verbs and/or verb phrases in Lao means that many decontextualized surface sequences are ambiguous. Consider the following example, in which "haj" ‘give’ has three possible structural and semantic roles (as full verb in a verb phrase string, as subordinate verb in a purposive complement, and as deverbal preposition with benefactive meaning):

The (i) and (ii) readings in (402) may be forced with overt marking by the clause-coordinating marker "lèka" and the subordinating marker "phùa" ‘in order to’, respectively:

48 Clearly, the reading in (i) allows ‘She steamed rice for me’, if we only consider the benefactive reading of this English gloss. What is important here is that (404) cannot permit the usual broader reading of the benefactive "haj" in Lao, namely the one that includes ‘on my behalf’.
Such ambiguities are common, but are easily resolved by the constraints of grammatical and/or pragmatic context.

The many different patterns reviewed in this chapter may be nested together to form more complex constructions. Consider the following example, taken from (398), above, showing four verbs in sequence:

(405) \( ñaang^1 \ paj^3 \ qaw^3 \ nam^4 \ juu^1 \ kakhuq^1 \)

walk go take water be at bucket

‘(He) walks (to) get water in a bucket.’

Here, \( ñaang^1 \) ‘walk’ and \( paj^3 \) ‘go’ form a ‘manner-direction’ motion construction, where their respective motion semantics are overlaid facets of a single event. As a unit, these combine with \( qaw^3 \) ‘take’ in a verb phrase chain. Finally, the verb \( juu^1 \) ‘be at’ serves as a ‘prepositional’ marker, hosting the oblique nominal \( kakhuq^1 \) ‘bucket’ as a modifier of the object argument of \( qaw^3 \) ‘take’, namely \( nam^4 \) ‘water’.

Here is another example, with five verbs in sequence:

(406) \( bò^0 \ jaak^5 \ haj^5 \ nii^3 \ kaj^3 \ caak^5 \ phòò^1-mèè^1 \)

NEG want give flee far separate from father-mother

‘(They) don’t want (their children) to go far from (their) parents.’ (295.10)

The verb \( jaak^5 \) ‘want’ is here a same-subject control complement verb. In the complement clause, \( haj^5 \) ‘give’ is performing a switch-reference function to accommodate the different subject in the lower verb. The central verb of the lower complement is \( nii^3 \) ‘flee’, followed by \( kaj^3 \) ‘far’ as a right-marking (adverbial/resultative) descriptive complement, and finally with \( caak^5 \) ‘separate from’ as a deverbal preposition heading the adjunct meaning ‘from (their) parents’.

Finally, recall the example with six verbs in sequence described at the opening of this chapter, repeated here:

(1) \( caw^4 \ lòòng^2 \ qaw^3 \ paj^3 \ hêt^1 \ kin^3 \ beng^1 \ mèè^4 \)

2SG try out take go make eat look PCL

‘You go ahead and take (them) and try cooking (them)!’ (38.12)

The verb \( lòòng^2 \) ‘try out’ acts here as a left-marking complement-taking adverb, and combines with \( beng^1 \) ‘look’, a right-marking adverbial, to bracket a four-verb phrase containing a ‘disposal’ construction (\( qaw^3 \ hêt^1 \) ‘take (and) do/make’), with \( paj^3 \) ‘go’ as a directional particle, and forming purposive clause chain with \( kin^3 \) ‘eat’.

While the details of possibilities for combining the range of constructions described throughout §4.4 are complex and not yet well understood, the examples just discussed should give a sense of the way in which surface strings of verbs are not mere ‘strings of verbs’, but hierarchically structured (usually binary) nestings of V1-V2 constructions. (See Table 4.1-1, above, and Table 5.4.2-1, below, for summary of the available constructions, as described in this chapter.)

4.5.2. Summary

This chapter has surveyed a significant portion of the complex clausal grammar of Lao, exemplifying the kind of system one can expect to find in a Tai language. Notable if not amazing is the great variety of complex syntactic-semantic configurations which can underlie a sequence of verbs or verb phrases lacking overt marking of their interrelationship. A no doubt rich topic for further research concerns the combinatorial productivity of each of these constructions, an issue requiring particular attention to their semantics.
Table 4.5.2-1 summarizes a range of distinguishing features of the different constructions surveyed in §4.4, above.

**TABLE 4.5.2-1: GRAMMATICAL PROPERTIES DISTINGUISHING A RANGE OF LAO V1-V2 STRUCTURES**

<table>
<thead>
<tr>
<th>Construction Type</th>
<th>Yes-answer head?</th>
<th>Clause-separable?</th>
<th>Which V omissible in r relative clause?</th>
<th>Medial negation OK?</th>
<th>With medial negation, V1 entailed?</th>
<th>Ka insertable w/o major semantic change?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left aspect-modality markers, deverbal</td>
<td>V2</td>
<td>no</td>
<td>V1</td>
<td>%</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>‘Despatch’ 3-place expressions (§4.4.3)</td>
<td>V2</td>
<td>%</td>
<td>V1</td>
<td>no</td>
<td>n/a</td>
<td>no</td>
</tr>
<tr>
<td>‘Disposal’ constructions (§4.4.4)</td>
<td>V2</td>
<td>%</td>
<td>V1</td>
<td>no</td>
<td>n/a</td>
<td>no</td>
</tr>
<tr>
<td>Manner-path-direction constructions (§4.4.5.2)</td>
<td>V1-V2-V3</td>
<td>no</td>
<td>neither</td>
<td>no</td>
<td>n/a</td>
<td>no</td>
</tr>
<tr>
<td>Different subject resultatives (§4.4.6.2)</td>
<td>V2</td>
<td>yes</td>
<td>%V2</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Same-subject resultatives (§4.4.6.2.2)</td>
<td>V2</td>
<td>yes</td>
<td>%V1</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Projected resultatives (§4.4.6.2.3)</td>
<td>V2</td>
<td>yes</td>
<td>%</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Reiterative resultatives (§4.4.6.2.4)</td>
<td>V1</td>
<td>%yes</td>
<td>%</td>
<td>yes</td>
<td>no</td>
<td>yes</td>
</tr>
<tr>
<td>Right-headed stative adverbial complements (§4.4.6.3.1)</td>
<td>V2</td>
<td>no</td>
<td>V2</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Right-headed active adverbial complements (§4.4.6.3.3)</td>
<td>V1-V2</td>
<td>no</td>
<td>neither</td>
<td>no</td>
<td>n/a</td>
<td>no</td>
</tr>
<tr>
<td>Left-headed adverbial complements (§4.4.6.3.4)</td>
<td>V1</td>
<td>%</td>
<td>%V2</td>
<td>no</td>
<td>n/a</td>
<td>no</td>
</tr>
<tr>
<td>Left-marking adverbial compounds (§4.4.6.4.1)</td>
<td>V1-V2</td>
<td>no</td>
<td>neither</td>
<td>no</td>
<td>n/a</td>
<td>no</td>
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<tr>
<td>Right-marking adverbial compounds (§4.4.6.4.2)</td>
<td>V1-V2</td>
<td>no</td>
<td>either</td>
<td>no</td>
<td>n/a</td>
<td>no</td>
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<tr>
<td>Depictive complement constructions (§4.4.6.5)</td>
<td>V1</td>
<td>no</td>
<td>V2</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td><em>pên</em> -adjunct constructions (§4.4.6.6)</td>
<td>V1</td>
<td>no</td>
<td>V2</td>
<td>yes</td>
<td>no</td>
<td>n/a</td>
</tr>
<tr>
<td><em>daj</em> -complement constructions (§4.4.6.7)</td>
<td>V1 or V2</td>
<td>no</td>
<td>V2</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Oblique phrase constructions (§4.4.7)</td>
<td>V1</td>
<td>no</td>
<td>V2</td>
<td>no</td>
<td>n/a</td>
<td>no</td>
</tr>
<tr>
<td>‘Give’, ‘make’, ‘make-give’ causative constructions (§4.4.8.1-4.4.8.3)</td>
<td>V1-V2</td>
<td>no</td>
<td>neither</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Control complements, same-subject (§4.4.9.1.1)</td>
<td>V1</td>
<td>no</td>
<td>%V2</td>
<td>no</td>
<td>n/a</td>
<td>no</td>
</tr>
<tr>
<td>Control complements, different subject (§4.4.9.1.2)</td>
<td>V1</td>
<td>no</td>
<td>V2</td>
<td>yes</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>Non-control complements (§4.4.9.2)</td>
<td>V1</td>
<td>no</td>
<td>V2</td>
<td>yes</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>VP chains (§4.4.10.1)</td>
<td>V1-V2</td>
<td>yes</td>
<td>neither</td>
<td>no</td>
<td>n/a</td>
<td>no</td>
</tr>
<tr>
<td>Verb compounds (§4.4.10.2)</td>
<td>V1-V2</td>
<td>%</td>
<td>neither</td>
<td>no</td>
<td>n/a</td>
<td>no</td>
</tr>
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I thank Tony Diller and Nick Evans for their generous and significant contributions of time and ideas to this chapter. For discussion of various issues raised, and/or for comments on specific points made herein, I thank Sasha Aikhenvald, Felix Ameka, Peter Austin, Walter Bisang, Jürgen Bohnemeyer, Bob Dixon, Martina Faller, Cliff Goddard, Steve Levinson, Stephen Matthews, John Newman, Gunter Senft, Kingkarn Thepkanjana, Satoshi Uehara, and Anna Wierzbicka. I also thank Anouk Diederren for expert assistance in preparation of the original submission, and Luo Yongxian for handling the final version. The research reported on here was supported at various times by an Australian Research Council grant (A59601467 ‘Thai-Lao linguistic interaction’, chief investigator Anthony V. N. Diller), an Australian Postgraduate Award, the University of Melbourne Faculty of Arts fieldwork grant, and the Max Planck Society. Some of the tables and examples appear in Enfield (2003, 2005).

NOTE

The main research and writing of this chapter was done between 1998 and 2001. Since this chapter was completed, several publications have appeared which treat related issues in detail, and which provide further information on the situation of languages and linguistics of Laos:


APPENDIX

Lao is the national language of Laos, spoken by over four million people there (Enfield 1999). Dialects of Lao are also spoken by a minority in Northeast Cambodia, and a large minority (at least ten million) in Northeast Thailand (i.e. in areas bordering lowland Laos). There are also scattered Lao-speaking villages in Western Cambodia and Central and Eastern Thailand. The dialects spoken in Thailand are currently undergoing rapid change under the influence of central Thai (Diller 1988, 1991; for Thai influence on Lao in Laos, see Enfield 1999).

Many examples provided in this paper are from a corpus of spontaneous spoken language collected in Laos in 1996-1997. This corpus contains several hours of material, on a range of
topics and styles (procedural descriptions, jokes, informal conversation, myths, fables, life-story narratives), from a range of speakers (both male and female, ages from teenage to octogenarian). Examples from this corpus have a reference number in brackets after the English translation. A number of examples are taken from recordings made in September – October 2000 and July 2001, using semi-experimental materials – these are noted as they appear. Remaining examples are constructed and/or elicited, and checked with native speaker consultants.

Abbreviations used in glosses are as follows:

- 1/2/31st/2nd/3rd person pronoun
- NONPROX non-proximal
- ACHV achievement
- NSR nominalizer
- CLF classifier
- O.BRO older brother
- CLNK clause linker
- ORD ordinator
- COMP complementizer
- PCL particle
- CT class term
- PFV perfective
- DEM demonstrative
- PL plural
- DIR directional
- PROG progressive
- EXPR expressive
- Q question
- FEM feminine
- RCP reciprocal
- FOC focus
- RDP reduplication
- GEN general
- REL relativizer
- IRR irrealis
- SG singular
- MASC masculine
- TPC topic
- NEG negation
- Y.SIB younger sibling

Small caps are used for grammatical morphemes, italics for emphasis and mentions, single capital letter with period (e.g. D.) for gloss of proper names, period between morphemes to indicate semantically unanalysable morphology. The symbols *(x)* and *(x)* indicate that the example is ungrammatical if *x* is excluded, and included, respectively. Note that in interlinear glossing in this chapter I do not mark distinctions between pronouns used at different ‘levels’ of speech, since it is irrelevant to the topic at hand. Thus, among first person singular pronouns, both *kuu*³ and *khòòj*³ are glossed as ‘1 SG’, despite the distinction in social level between the two forms (*kuu*³ being the bare form for ‘I’, *khòòj*³ being a general polite form; Enfield 2002a: 147-149).

There is no standard romanization of Lao. The system used in this chapter (like the Lao orthography itself) does not feature sentence-based punctuation such as capital letters and periods. This is primarily to index their spoken (not written) source. Examples are transcribed according to the following conventions:

<table>
<thead>
<tr>
<th>Consonants</th>
<th>Vowels</th>
<th>Tones</th>
</tr>
</thead>
<tbody>
<tr>
<td>b d</td>
<td>i u</td>
<td>1./32/</td>
</tr>
<tr>
<td>p t c k q</td>
<td></td>
<td>2./35/</td>
</tr>
<tr>
<td>ph th kh</td>
<td>é e o</td>
<td>3./13/</td>
</tr>
<tr>
<td>m n ň ng</td>
<td></td>
<td>4./51/</td>
</tr>
<tr>
<td>f s h</td>
<td>è a ô</td>
<td>5./31/</td>
</tr>
<tr>
<td>w l j</td>
<td></td>
<td>0./unstressed/</td>
</tr>
</tbody>
</table>
REFERENCES


LaPolla, Randy (1997) ‘Grammaticalization as the development of constraints on the search for relevance’, paper presented at Departmental Seminar, Department of Linguistics, the University of Melbourne, August 15.


CHAPTER FIVE

SHAN AND OTHER NORTHERN TIER SOUTHEAST TAI LANGUAGES OF MYANMAR AND CHINA: THEMES AND VARIATIONS

Jerold A. Edmondson

5.1. BACKGROUND

This paper reports on the themes and variations in the northern tier of SW Tai languages found in Myanmar and to a lesser extent that found in adjoining areas of China. The term northern tier of SW Tai was used in Edmondson and Solnit 1997 to describe those languages whose historical lineage goes through the root of Tai settlements on the Shweli River between Myanmar and China as early as the 6th c. and who then began to expand to the west, south, and north, reaching a high point of migration in the 13th c. The analysis to be presented below will investigate how contemporary linguistic data can help determine the various subgroups within the northern tier languages and, at the same time, my analysis will contrast northern tier languages to those from a few nearby SW Tai groups, which in regard to history, culture, and in the eyes of the speakers themselves, are regarded as not belonging to northern tier language. I will claim that none of these non-northern tier groups participates in the same polylectal, historical, cultural, and social lineage descended from the Shweli culture of the 13th century I call Shan. If one is trying to determine who belongs to the Shan and how non-Shan languages of the area differ, then the autonym is not helpful, as all these people call themselves simply Tai plus some modifier designating a geographic places or a distinctive feature. The exonym for the people and language, Shan, has become more distinctive, as this is the term used by the Burmese သား and Chinese 샨 ‘an old name for a group associated with contemporary Dai people of Yunnan’ to refer to just these groups. In English as well, Shan has specialized to refer to the Tai groups of Burma and western China, since Cushing’s dictionary and handbook (1888a and 1888b). As for the subgroupings within

1 The author wishes to recognize the significant help of Ms. Chang Yi-ming of Bangkok, Thailand for arranging my first trips to Myanmar. Chang Yi-ming was the sole field worker on the second and third trips to Myanmar in 1995 and 1996. The author also wishes to express his profound thanks to Professor Than Tun သာမန်, U Sai Aung Tun လျှင်, U Sai Kham Mong, and especially to U Tun Aye ငွေး of Myitkyina Degree College, Myitkyina and Daw Ah Nan အောင် of Mandalay University, Department of History for accompanying and assisting us on the expedition and most of all for teaching us the meaning of the Burmese expression မုန့် ‘Don’t let it eat your brain!’ or ‘Take it easy.’ Also my appreciation goes to Dr Stephen Morey of La Trobe University, Professor Jørgen Rischel of the University of Copenhagen for helpful comments on a draft version of this paper, and Ms. Nance Cunningham, a field worker among the Shan, for proofing the Burmese and Shan spellings and for other content help. Last but not least, we also wish to thank the forty or fifty Shan informants who welcomed so warmly outsiders into the circle of their linguistic lives at a time when everyone was in stress.
Shan, this present work must be considered a first step as much greater bodies of linguistic data, information from local monasteries and archives, and social history of the Shan in various places would be required. I begin this task by discussing where the data for this paper were collected.

The data for this analysis represent speech samples from: (1) 德宏傣 Dehong Dai as spoken in 芒市 Mangshi (in Shan known as Mong Kwan ᵏetrics), just up the 瑞丽 Ruili River (pronounced Shweli in Yunnanese and known in Shan as the Nam Mao or ᵏetrics) – from a native speaker official, 郭玉平 Ms. Guo Yuping, who was attending a meeting in Sichuan Province in 1990; (2) Shan, Khamti, and Phake, collected during three linguistic fieldwork expeditions to the Union of Myanmar, and (3) non-northern tier languages studied during a trip in 2002 to 新平 Xinping County in Yunnan Province, China. My longest visit to Kachin State and Shan State was in December 1994, with subsequent trips to Singkhaling in October 1995 and Putao-O of Kachin State in June 1996. These trips allowed us to sample the Shan language across a wide range of the Shan and Khamti homeland in a breadth not possible for many years. As there was only limited time, I restricted my data gathering mostly to northern Shan venues, though I also interviewed several speakers from Taunggyi, Pan Long, and other locations near Yangon. Altogether I examined forty-three locations (about 50 speakers), including urban, semi-urban, and villages settings. I include here as well data gathered earlier from Shan speakers in Thailand and China. I have studied the vocabulary of the groups that call themselves: Tai Long, Tai Mao, Tai Liang, Tai Lua, Tai Tau, Tai Man, Tai Khamti, Tai Phake, Tai Manthi, Tai Tung, Tai Ting, Tai Lui, Tai Yay, Tai Sa, and Tai Loi. At each location I elicited and recorded about 500 words for later computer analysis of tone and voice quality contrasts. In many cases the groups lived in separate villages within the same close geographic area.

The locations I studied in 1994 took the Shweli River Valley on the China-Myanmar border as their point of focus, where the Shan Chronicles and historical documents tell us the Shan people first entered Burma from China, established their capital at Mong Mao, and then spread in the subsequent centuries to the southwest over present Southern Shan State, to the north into Khamti areas, and to the west to the Irrawaddy and Chindwin basins, and finally to Manipur and Assam in India (Elias 1876, Scott and Hardiman 1900). The Shweli River is regarded as the seat of Shan history, culture, and language. The southern areas, such as those at Taunggyi and Keng Tung, have perhaps come in for more intensive study in previous work, but these areas were settled much later and were brought much earlier under Burman suzerainty. I visited locations near larger towns and settlement areas such as: Myitkyina, Bhamo, Hsen Wi, and Lashio. I also incorporated data from various locations at Pan Long, Keng Tung, and Namhkam-Mu-se, as well as Mangshi and Xinping County of Yunnan Province, China, in order to compare my data with examples from SW Tai groups in China, but usually not regarded as northern tier languages cf. Luo 1993. In addition, I spent about 16 hours on an Ayeyarwady ferry traveling from near Katha to Bhamo. My fellow sojourners were mostly Shan traders and travelers from nearby territory. I was able to interview quite of number of them and include their data, but it was often not possible to locate their villages precisely from the names they provided. Lastly, I included some data gathered in Yangon from Shan informants from Kut Kai and Taunggyi.
On the visit to Singkaling on the upper reaches of the Chindwin River in the northwest part of Myanmar in Sagaing Division I interviewed Khamti speakers in a village south of the city at Manpang. In this area I also found speakers of Tai Phake originally from Assam in India, a monk (I had earlier obtained data from a Tai Phake woman in Bangkok), as well as other Shan speakers on the Chindwin further south at Homalin (in Shan called Hom Maak Leng), and at Tamanthi. The visit in 1996 focused on Putao-O in Kachin State, which was settled by Khamti speakers. There several different speakers were interviewed and word lists taken.

Tai comparativists believe that there was a powerful principle underlying the relationship between the initials and tones in languages of the Tai branch active in the proto-language. While this relationship has been formulated in many ways, perhaps the most popular account is found in Wm J. Gedney’s Checklist for Tai tones (1972). This system requires a division of the old initial consonants and tones into a grid of five columns and four rows that is generally called a Gedney diagram. The columns Gedney labels A, B, C, DL, and DS (A, B, and C being names for the proto-tone shapes in open syllables and DS and DL being those originally found in short and long closed syllables, respectively). The first three, A, B, and C are assumed to have been linguistically distinctive, whereas DL and DS, are thought to have been originally different only in length. The rows represent properties of the consonant initials in the proto-language; the first Row Gedney labeled 1, voiceless friction, including voiceless aspirated stops such as *ph, voiceless fricatives such as *f, and voiceless sonorants such as *hn; the second was called 2, voiceless unaspirated stops such as *p; the third was called 3, glottal stop *ʔ and preglottalized consonants, e.g., *ʔb; and the fourth was called 4, voiced consonants such as *b. At various places and times then, new tonal categories developed with

2 We were not able to gather any data on languages from Assam other than Phake.
the consonant initials causing small changes in pitch that ultimately led to new tonal categories. If every consonant split its tones – with DL and DS the first to differentiate based not on consonants but vowel length – then there could be maximally twelve tones (not counting the D tones). No Tai language has ever been found with so many splits. Generally, splitting or merging takes place between rows in a fashion that keeps contiguous boxes in the same category. For example, A1, A2, and A3 are distinct as a group from the tone found in vocabulary with original A4 initials, but according to the principle of contiguity in splitting. A1 and A3 could not ally to contrast to A2 and A4. While there are at times developments that blend a tone value in one column with the tone value in another, these are, generally speaking, more resistant to collapse than rows. One good example of splitting is the rule for the Northern Tai language subgroup (and in many other places as well), which generally divides between rows 3 and 4 so that 1, 2, and 3 consonant initials yielded the High or Series 1 set of contrastive tones, one each for the columns A, B, C, DL, and DS, on the one hand, whereas Row 4, the voiced initials, engendered the Low or Series 2 set of contrastive pitches, on the other. Usually, there was a concomitant loss of voicing contrast of the original stops and fricatives in Row 4 displacing the contrast from the initial consonant to the tone. The result was a language with five tones in Series 1 and five tones in Series 2; in each series there are three tone categories on open syllables, one on the short closed syllable, and one on the long closed syllable. Furthermore, the pitch trajectories of closed syllable tone categories were assumed to have assumed the pitch trajectory of open syllables, since the tone shapes of DL and DS resemble those of the open syllable tone categories, whereby the correspondence pattern between a D column and an A, B, or C column has been taken as evidence of different genetic subdivisions within a branch.

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>DL</th>
<th>DS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>voiceless friction</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>voiceless unaspirated</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>preglottalized</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>voiced</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**FIGURE 5.1-1: GEDNEY DIAGRAM OF TAI TONES**

The major finding of my investigation is that the Shan nation is cloven linguistically into two major subtypes according to the pattern of tone splitting and consonant development. The system in the north of Shan territory has six tones, which may be described using the system of Gedney (1972) as: A1-A4; A23=B4, B123, C123-C4. The system in the south of Shan territory has five tones with tonal development: A123-A4, B123, B4=C123, and C4. These characteristic patterns are leitmotif identifiers for Northern Shan and Southern Shan, respectively, and these must be of some age, for – despite secondary mutations of the tonal system in Khamti and Phake, Shan tones conform well to one of these two prototypes.3 It is to be noted, moreover, that the pattern of merger of B4 and C123 appears to be relatively wide-ranging, being found in Central Thai, Tai Kha, Tai Padi (China and Vietnam) and some kinds of Red Tai. One other feature of Shan is also strongly diagnostic, the change of initial \( ?d \rightarrow l \) or \( n \) that seems to have occurred at all Shan locations. But, as before, the loss of plosive articulation in favor of a sonorant is also found in younger Black/White Tai speakers as well as in SW Tai locations to the northeast of Shan territory in Yunnan, China at 元江 Yuanjiang, 武定 Wuding and other places, cf. Luo (1993: 7-8). Moreover, there is considerable variation in the pattern of ‘dead’ D-tone splitting. In sum, the tonal splitting has been emphasized in descriptions by Edmondson and Solnit (1997) as well as Robinson (1994).

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3 Morey (2004, this volume) and later sections of this paper discuss Khamti and Phake, which may be examples of subsequent developments of the Northern Shan system.
as a necessary feature of the northern tier of Southwestern Tai. I am now able to confirm that this division is in fact a major watershed throughout Shan varieties.

The Shan language has also employed a writing system for some centuries. The older system was that used by Cushing in the late 19th century in his works. Since that time a new simplified script has been developed based upon Southern Shan sounds, which has been used for vernacular writing, cf. Shan Magazine and the Shan New Testament 1994, cf. Sao Tern Moeng 1995 for description in detail. Tones are indicated after each syllable with the following diacritics: A123 – no diacritic is added; A4 – the diacritic is used; B123 – the diacritic is used; B4=C123 – the diacritic is used. For the sixth tone, A23=B4, in Northern Shan and for the ‘Emphatic Tone…to put emphasis on any word’ in Southern Shan the diacritic is used. The twenty initials are: u[k-], c[kh-], i[͡-], Q[ʔ]-, o[s-], p[͟-], w[t-], x[th-], e[n-], y[p-], φ[ph-], m[-], n[-], f[-], r[-], v[l-], 0[w-], \[h-], \[ʔ-].

The nuclear vowels of the syllable are represented (if we use a randomly picked initial) as follows: n[ʔ] (this nuclear vowel is often called the ‘short a’), n\[ʔa] (this nuclear vowel is often called the ‘long a’), nD[ʔi], an[ʔe], tn[ʔɛ], nl[ʔu], n0[ʔo], anM[ʔu], ndk0f[ʔi], and ndl0f[ʔu]. There are slightly modified graphs for cases in which the vowel is in a closed syllable. The codas of syllables are formed from the graph of an initial plus a vowel killer, which is the graph f, for example in the word vAu;f[lekDST]. Readers wishing to know more about the new Shan orthography and lexicon should consult Sao Tern Moeng (1995).

This paper is concerned with the patterns of sound changes I have discovered and their geographic distribution. These include the changes: (1) f → ph, (2) the merger of \[l, n, and l → l, (3) the palatalization of k before i, to \[k; (4) the breaking of c and e to \[x and \[xe respectively, and (5) kh → x. As has been found before, the five changes once splayed out on the geography of Shan locations in the form of isoglosses did not result in one sharply defined division between the various Shan villages, but showed instead a pattern of implicational overlapping variation in wave-like fashion across geographic space. For other changes there was a kind of lectal fragmentation without an obvious pattern of wave-like spread from an origin to the periphery. The lack of patterning for some changes suggests very extensive interdialectal mixing and interleaving from migration among groups originally speaking different form of the language. This phenomenon is characteristic especially of the area between Bhamo and Namhkam, which suggest an intrusion of speakers from outside into an area that was otherwise characterized by gradual change from place-to-place. This lack of pattern is compatible with the claim that the Tai Lua of this area have moved west from Yunnan into this area at a time in the not too distant past.

5.2. LOCATIONS STUDIED

In order to be able to refer to locations rapidly, I have assigned each place a number that corresponds approximately to the order in which the data were elicited from north to south. The speakers were interviewed in a variety of settings: at home, in a hotel room, in a village setting.

<table>
<thead>
<tr>
<th>Location Autonym</th>
<th>Location</th>
<th>Number of speakers</th>
<th>Lg group</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tai Khamti</td>
<td>Putao</td>
<td>two males; one female</td>
<td>Tai</td>
</tr>
<tr>
<td>Tai Khamti</td>
<td>Hukawng</td>
<td>one female</td>
<td>Tai</td>
</tr>
<tr>
<td>Tai Mao</td>
<td>Namhkam</td>
<td>two males</td>
<td>Tai</td>
</tr>
<tr>
<td>Tai Lua</td>
<td>Namtieng</td>
<td>one speaker</td>
<td>Tai</td>
</tr>
<tr>
<td>Tai Tau</td>
<td>Namleng</td>
<td>one female speaker</td>
<td>Tai</td>
</tr>
<tr>
<td>Tai Man</td>
<td>Nampha</td>
<td>two female speakers</td>
<td>Tai</td>
</tr>
<tr>
<td></td>
<td>Language</td>
<td>Location</td>
<td>Speakers</td>
</tr>
<tr>
<td>---</td>
<td>----------</td>
<td>----------</td>
<td>----------</td>
</tr>
<tr>
<td>7.</td>
<td>Tai Mao</td>
<td>Hamte</td>
<td>three speakers</td>
</tr>
<tr>
<td>8.</td>
<td>Tai Long</td>
<td>Muang Wan</td>
<td>one female</td>
</tr>
<tr>
<td>9.</td>
<td>Tai Sa?</td>
<td>Longchuan, China</td>
<td>one male</td>
</tr>
<tr>
<td>10.</td>
<td>Tai Lua</td>
<td>Myute</td>
<td>three speakers</td>
</tr>
<tr>
<td>11.</td>
<td>Tai Long</td>
<td>Loi tie</td>
<td>one speaker</td>
</tr>
<tr>
<td>12.</td>
<td>Tai Mao</td>
<td>Namhkam</td>
<td>two speakers</td>
</tr>
<tr>
<td>13.</td>
<td>Tai Man</td>
<td>Nampha</td>
<td>three speakers</td>
</tr>
<tr>
<td>14.</td>
<td>Tai Tau</td>
<td>Mangshi</td>
<td>one female</td>
</tr>
<tr>
<td>15.</td>
<td>Tai Sa?</td>
<td>Namhkam</td>
<td>one male</td>
</tr>
<tr>
<td>16.</td>
<td>Tai Loi</td>
<td>Namhkam</td>
<td>one speaker</td>
</tr>
<tr>
<td>17.</td>
<td>Tai Lua</td>
<td>Mu-se</td>
<td>three males</td>
</tr>
<tr>
<td>18.</td>
<td>Tai Mao</td>
<td>Mu-se</td>
<td>two males</td>
</tr>
<tr>
<td>19.</td>
<td>Tai Tau</td>
<td>Hsen Wi</td>
<td>one female</td>
</tr>
<tr>
<td>20.</td>
<td>Tai Long</td>
<td>Hopang</td>
<td>one female</td>
</tr>
<tr>
<td>21.</td>
<td>Tai Mao</td>
<td>Lashio</td>
<td>one female</td>
</tr>
<tr>
<td>22.</td>
<td>Tai Ting</td>
<td>Kunlong</td>
<td>one female</td>
</tr>
<tr>
<td>23.</td>
<td>Tai Loi</td>
<td>Namhsan</td>
<td>one female</td>
</tr>
<tr>
<td>24.</td>
<td>Tai Leng</td>
<td>Namhsan</td>
<td>one male, one female</td>
</tr>
<tr>
<td>25.</td>
<td>Tai Khun</td>
<td>Keng Tung</td>
<td>one male</td>
</tr>
<tr>
<td>26.</td>
<td>Tai Tau</td>
<td>Hsipaw</td>
<td>one male</td>
</tr>
<tr>
<td>27.</td>
<td>Tai Man</td>
<td></td>
<td>one male</td>
</tr>
<tr>
<td>28.</td>
<td>Tai Nui</td>
<td>Keng Tung</td>
<td>one female</td>
</tr>
<tr>
<td>29.</td>
<td>Tai Lua</td>
<td>Keng Tung</td>
<td>one female</td>
</tr>
<tr>
<td>30.</td>
<td>Tai Yay</td>
<td>Pan Long</td>
<td>one male/one female</td>
</tr>
<tr>
<td>31.</td>
<td>Tai Long</td>
<td>Kutkai</td>
<td>one female</td>
</tr>
<tr>
<td>32.</td>
<td>Tai Long</td>
<td>Taunggyi</td>
<td>one female</td>
</tr>
<tr>
<td>33.</td>
<td>Tai Khamti</td>
<td>Khamti</td>
<td>two male speakers</td>
</tr>
<tr>
<td>34.</td>
<td>Tai Liang</td>
<td>Banmauk</td>
<td>one female</td>
</tr>
<tr>
<td>35.</td>
<td>Tai Ho</td>
<td>Homalin maaklang</td>
<td>one female</td>
</tr>
<tr>
<td>36.</td>
<td>Tai Tong</td>
<td>Singkaling</td>
<td>one male</td>
</tr>
<tr>
<td>37.</td>
<td>Tai Phake</td>
<td>Man Phake</td>
<td>one male</td>
</tr>
<tr>
<td>38.</td>
<td>Tai Leng</td>
<td>Man Maxo</td>
<td>one male; one female</td>
</tr>
<tr>
<td>39.</td>
<td>Tai Sau</td>
<td>Sambaiyue</td>
<td>two female speakers</td>
</tr>
<tr>
<td>40.</td>
<td>Tai</td>
<td>Namtu</td>
<td>one female</td>
</tr>
<tr>
<td>41.</td>
<td>Tai Kha, Ya</td>
<td>Xinping, China</td>
<td>three males</td>
</tr>
<tr>
<td>42.</td>
<td>Tai Dam, Don</td>
<td>Jinping, China</td>
<td>Luo 1993, Dao 2000, Chen and Zhang</td>
</tr>
<tr>
<td>43.</td>
<td>Tai</td>
<td>Yuanjiang</td>
<td>Luo 1993</td>
</tr>
<tr>
<td>44.</td>
<td>Tai</td>
<td>Wuding</td>
<td>Luo 1993</td>
</tr>
</tbody>
</table>
Before turning to the empirical analysis, however, I provide some of the social history of the Shan ethnicity stressing their dynastic succession and sense of ethnic identity and ethnic division.

5.3. A GLIMPSE AT SHAN SETTLEMENT HISTORY

As can be seen in Table 5.2-1, there are a large number of autonyms and subgroups among the Shan according to traditional taxonomy. The Shan call themselves Tai plus a noun or adjective of restriction, Tai Lua (the Upper Tai), Tai Long (the Great Tai), Tai Man (the Burmese Tai), etc. This situation is the natural result of the Shan hereditary system of local autonomy, as the Shan were, for many centuries, governed by a local noble or saopha ‘prince’ (Burmese and English Sawbwa) and lesser Sawbwa were tributary to greater Sawbwa, but there remained in the majority of their history a relatively large degree of local autonomy and a sense of identification with a geographic location. Elias reports that the Shan settlements in Myanmar were first established at Mong Mao on the Shweli by the Mao Shan ‘13 miles east of Namhkam and close to the frontier’ (Scott and Hardiman I.195) (tradition says in AD 569 but probably later).

Although there was no continuous and sustained seat of central power among the Shan, there are periods in which the Shan were annexing territory and periods of contraction and finally great suffering and loss of independence under siege from the Chinese (in the early days), from the Burmese (esp. in the 17th and 18th centuries), and the Kachin in the 19th century. The maximum extent of the Mao Kingdom was reached in the early 13th century under the Conquistador Sam Long Pha (in Shan माो गा), the first Sawbwa of Mong Kawng (Burmese Mogaung). The Mogaung court outlasted Mong Mao by one hundred fifty years. Sam Long Pha ruled over 99 lesser Sawbwas whose territory reached up to the western border of Burma and beyond into Assam in India. These included the provinces of: Khamti, Singkaling Khamti on the Chindwin River, Huhkawng, and several others. The lack of a constant central authority and a governing capital resulted in a rather large number of subgroups or ethnicities within a larger Shan nation or Confederation.

Shan society shows another distinctive feature of Highland Burma in that their political, social, and ethnic networks display categories, cf. the discussion in Leach 1954 of how people’s ethnicity can change as they move down the mountain to places of lower elevation. People groups that were once not linguistically and culturally Shan are now regarded as Shan and they often are accepted as members of the Shan confederation and legitimate participants in the hydrological system needed for wet paddy rice cultivation. This phenomenon seemed especially common around Namhkam, where I encountered two groups, the Tai Sa and the Tai Loi. The languages spoken by these two proved to be Achang (Tibeto-Burman or TB) and De’ang (Mon-Khmer or MK) respectively, but the groups partake in Shan society and government, speak the local language, celebrate the local feast days, and wear a variation on the local dress. This kind of system, as Leach reports, is also well established among the Kachin of Kachin State to the north, a confederation made up of the core group, the Jingphaw, and groups of lesser size, the Maru, Zaiwa, and Langsu etc. Similarly, around Namhkam the groups called Tai Sa and Tai Loi are original non-Shan ethnicities who are today members of the Shan category, (Leach 1954: 29-30), who still speak their original Tibeto-Burman and Mon-Khmer languages as well as Shan. As Leach reports, the most important feature of belonging to the Shan category is being Buddhist and the second feature is being engaged in wet paddy rice cultivation. He noted in the 50’s that the A昌 met both these tests, but though the ‘Palaung’ were Buddhists, they lived in the mountains and cultivated tea and not rice, so they were excluded. It is unclear to us whether the Tai Loi today are the same as Leach’s ‘Palaung’ and whether they are now regarded as belonging to

---

4 The Palaung are a MK language of this general area. The Tai Loi speak another MK language, however.
the Shan category. I would note that they were identified to us by other Shan and they identified themselves as ‘Tai’ and thus they may have crossed the ethnic line of demarcation into full membership in the Shan confederation since the 1950s.

5.3.1. Tai Khamti

One group, once ruled by the Mogaung Shan, are the Tai Khamti, who have traditionally been regarded as a group distinct from the Shan. It appears that originally they were quite unlike the Shan. At least Dr Cushing talks about the Khamti and the Burman Shan as if they were different groups (1888a, 1888b). There is some basis for this view, as the Khamti are thought to have had an independent existence until the time of Sam Long Pha (Elias 1876: 39f). He was the brother and general of the Mong Mao Emperor (Chaukwam Pha), who in AD 1220 conquered much of Upper Burma and the territory to the west of the Chindwin including Manipur and Assam. Later, however, the Khamti areas were ruled by the Mao Shan Kings and sought their protection, for later they were virtually driven out Hukawng Valley by Kachin raiding. So at the turn of the century there were Shan only 100 miles north of Mogaung (Scott and Hardiman 1.201) ‘and their rulers were always tributary to the power that held Mogaung, and it cannot be said that the population retains more direct Tai characteristics than their Mogaung and Mohnyin neighbors.’ Still, even today Shan scholars feel an ethnic difference between Shan and Khamti, attaching an adjective to their moniker. As Sao Tern Moeng (1995: xi) says, ‘... K.S. (for Khamti Shan) which is the language of the Shans of the northwestern part of Burma.’ While I found phonological, lexical, and orthographical differences in Khamti, it was on linguistic grounds closely related to Burman Shan.

The Tai Khamti live today in the northernmost and westernmost settlement areas where Shan are found, e.g., in the community at Putao-O, which is located in Kachin State about 75 km due north of Myitkyina in the valley of the Mali Hka, the major tributary of the Irrawaddy. This valley extends almost to the three-way border between, Myanmar, China, and India. I also studied the Khamti of the Hukawng Valley to the west of Putao-O. According to Scott (1900) this area was once populated exclusively by Shan but they were gradually replaced by the Kachin until only a few settlements remained at the end of the 19th c. The largest of these was at Mong Khwan (Maing Kwan). The final area of Khamti settlement is at Singkaling Khamti at the northern end of the valley of the Chindwin. People there claim ancestry from Putao-O via Hukawng Valley.

5.3.2. Tai Mao

The second group among the Shan nation I studied live in Mong Mao or မြစ်မောင်. This is the group who dwell on the banks of the Shweli or Nam Mao. They acquired the name Mao at the time they established Mong Mao on the Shweli River opposite the current city of Namhkam. They are the ones referred to by the Chinese as the Baiyi 白夷 or 百夷 and by the Burmese as the Shan ဗု or Great Shan. According to Elias (1876), ‘they sometimes speak of themselves as Tai-Lung or Great Shan. But this is no real distinction. The Siamese speak of them as Tai giit or left-behind Tais (those that did not come in Ayudia and form a kingdom). To the Assamese they are known under the name Sam; to the Munnipuris as Kapo (Kabbo) or Pong, etc &.’ I found, however, that today the terms Tai Mao and the Tai Long/Lung are not completely coextensive. The usual distinction was that the term Tai Mao designated those Shan who live directly on the Shweli; those not found on the Shweli were the Tai Long. To the north and west around Bhamo and to the east in Dehong Prefecture in China are the people groups known as Tai Nua/Lua.

5.3.3. Tai Long

The third designation, Tai Long, is more difficult to identify with a location, as tradition asserts that the Shan of Upper Burma (Scott and Hardiman 195) ‘are always spoken of by other branches of the Tai family as the Tai Long, Great Shans, while the other branches call themselves Tai Noi, or Little Shans.’ But during my trip speakers categorize themselves as Tai Long as opposed to Tai Mao or Tai Lua, even at Namhkam and Mu-se. So, they seem to
be saying that the Tai Long are also a subbranch of the Tai. Scott opines that Tai Long may also refer to the Shan-Tayok or Shan-Chinese, those coming from China. I did not find the autonym Tai Long among speakers much north of the Shweli, in Chinese territory. But south of there to Lashio that was a common appellative.

5.3.4. Tai Nua/Luka

If we count the Tai Long as a third group, then the Tai Luka/Nua are a fourth. In Shan Nua means ‘upper on the course of a river; above; or north’; among the Tai Nua speakers the term Nua is usually pronounced Luka. They are generally found north of the Shweli and make up the majority of the Shan found in Chinese territory. It can also mean ‘north’. But both north and upper cry out for a reference point ‘north of what’ and ‘above what’. The answer is probably north of Mong Mao or above it on the Shweli River.

5.3.5. Tai Man

The fifth group call themselves Tai Man. The modifying term Man or ။ရော ။ in Shan script means ‘Burma, Myanmar; Burma Proper, the region inhabited by the Burmese, as distinguished from the ethnic minorities’. It is presumably a borrowing from the Burmese language [mjan] or တိုင်. It is said that the Tai Man are the descendent of mixed Shan and Burman ethnicity. Though I found just as Scott surmised ‘The people, whether they are called Shan-Burmese, Kadu, Pwon (or Hpon), have certainly more of the Tai than of the Burman about them.’ (201). Anderson (1876) says that the population of Bhamo consisted mostly of Shan-Burmese in 1868. I found them today in a separate village, Nampha, but their language seems to have no larger number of Burmese loanwords than are found in other kinds of Shan. It is, however, phonologically not identical to other kinds.

5.3.6. Tai Laing

A sixth group among the Shan are the Tai Laing. This group probably constitutes the descendants of the Shan who lived under the Sawbwaship of Mong Lăng, Burmese Mohlaing). That was one of the territories ruled from the Mogauung when it rose to importance after Sam Long Pha, the Shan conqueror of Assam. In the late 1880s this territory caused British rule perennial trouble under the rebellious Hkam Lăng (Burmese Kan Hlaing). As a result, their district was divided and assigned to Mong Mit (Scott and Hardiman 1900 I.340ff). I was helped by two informants, Mr Sai Tshun Sing, born 1934, and Ms. Ha Pjenmen, born 1956. They are resident in the village called Man Maxo, very near to Myitkyina. I studied a group of them in a village north of Myitkyina on the banks of the Ayeyarwady (Irrawaddy). I was told there were other villages on the other side of the river as well. Some reports also suggest that they also dwell west of Katha Town west of the Ayeyarwady near the village of Banmauk. However, the language of Banmauk was not identical that of Man Maxo as I discovered when I interviewed speakers from there. Features are: *ʔd, *n → l, *kh → x, *f → f. Tones are: A1-A23-A4, B123, B4=A23, C123-C4. They call themselves [tai A4 lai A1] ‘Red Tai’, which Proto-Tai *iŋ → e → ai demonstrating a change found widely in Burmese, e. g. Mohlaing for Mong Lăng and Burmese influenced Shan varieties. Many lexical items in this kind of Shan are bisyllabic.

5.3.7. Tai Ting

The seventh group I studied call themselves Tai Ting, presumably because they live on the Ting River where it joins the Thanlwin (Salween). It is situated in territory just to the west of ტან-ტაი 族自治州 ცხოვიტ ტაი-ტაი ავტონომური რაიონი ჩინეთში. 5.3.8. Tai Tau

The eighth group represented in my corpus is the Tai Tau. In Shan Tau means ‘space beneath; south’, presumably from being lower on the Shweli or simply south. I found that people as far north as Hsen Wi used this autonym. This term may apply to all the Shan in Southern Shan
State except the Tai Khün near Keng Tung.

Perhaps a variety of Tai Tau is the group I studied calling itself Tai Sau. I interviewed two women from the village of Sambaiyue, exact location unknown, but presumably not far from the Ayeyarwady as they were passengers on the ferry. This kind of Shan had five tones A123-A4, B123, B4=C123, C4 with other changes *?d → l, *kh → x, and *n and *nl and *f were preserved unchanged as [n] and [f]. The diphthong [au] had not changed to [ai]. As described above for Southern Shan, /s/ contrasted with /sʰ/ with the former deriving from /̰/.

5.3.9. The Tai Khün and Tai Nui

The ninth and tenth groups I examined, the Tai Khün and Tai Nui are located much further south and east than the others at Keng Tung in the Golden Triangle. They were rather different phonologically and lexically from the varieties of Shan west of the Thanlwin (Salween). For instance Tai Nui demonstrated a variant of six tone Shan with the system A1-A23-A4, B123, B4=A23, C123-C4. Also *?d → l and a few *nl → l. *f → f and even *ph → f (perhaps a case of hypercorrection, as e.g. ファク DS1 'vegetable' has replaced the historical form ファク DS1.

5.3.10. Tai Phake

I was able to elicit data from a monk originally from Assam in India. He had been living in Singkaling in NW Myanmar on the Chindwin for about 15 years. I also obtained data from a woman originally from Dibrugarh District in Assam. At the time of the interview in November 1995 I estimated his age to have been 70. Linguistically speaking, Tai Phake is quite close to Khamti with slight tone differences. It shows the important diagnostic *b and *d like Khamti, e.g. *bin A3 o minA3 'to fly' and *?doi → noiA3 'mountain'. This sound change must have occurred after the arrival of the Ahom in Assam Province, as many of the place names said to be of Ahom origin and, indeed, the original Ahom script do not show this change. With regard to the change kh → x Tai Phake is in the middle ground. It has an affricate kx instead of kh.

5.3.11. Tai Sa?

The group known as Tai Sa? also speak a tonal language, but it is not a Tai language. Instead this group speaks a variety of Ngochang, known in China as Achang. The phonology I found in their speech was similar to that described for Longchuan 建川 County in Dehong Prefecture. The Shan historian Professor U Sai Aung Tun has told us that the Tai Sa? originally came from China to work as blacksmiths among the Shan. They are also mentioned by Luce (1985: 104), who calls them the Maingtha, dwellers in ancient homes along the middle Ta-p'ing River, which enters the Irrawaddy at Bhamo, parallelling the river on the China side of the frontier in two small towns called Hu-sa and La-sa. Thus, the area is called in Shan Muung Sa? and in Burmese, Maingtha. Luce accounts that there were less than 500 in Burmese territory in 1931. The population in China according to the 阿昌语简志 Achangyu jianzhi is 13,000.

5.3.12. Tai Loi

Tai Loi are the Tai of the mountain lotA5. The data from Tai Loi proved to be a non-tonal language resembling De’ang, in the past called Benglong 崩龙; a comparison of some Tai Loi showed it to resemble the Bulei subtype of De’ang in Chinese sources. It is reported to be similar to Silver Palaung, a Mon-Khmer language of Myanmar.

5.3.13. Tai Dam and Don

Tai Don is the autonym of the relatively well-known White Tai of Vietnam, Laos, and China. Here I provide data from Jinping County of southern Yunnan. According to Dao Jie (2000: 204), Tai Don retains *?b and *?d in ñbauA3 ‘thin’ and ñluA3 ‘to see’, unlike the northern tier of SW Tai languages, which have *?b → m or v and *?d → l or n. It does share with the northern tier of SW Tai the change *kh → x, cf. xaA3 ‘leg’, xwaanA3 ‘axe’, xwaA3
‘right’, and xwaai⁴² ‘water buffalo’. Other rules described above for northern tier languages are not found in Tai Don.

5.3.14. Tai Kha, Tai Xa, and Tai Ya.

The Tai Kha, Tai Xa, and Tai Ya of Xingping County of Yunnan Province on the 红河 or Red River are known as the 流花 'Flowery-waisted Tai’ for their elaborate and unique style of women’s clothing. Their language has five tones A1, A234, B123, B4 = C123, C4. It has several features in common with Shan, for example: *ʔdaŋ⁴⁴ → laŋ³³ ‘nose’, *ʔwa → xaa⁴⁴ ‘buffalo’ *kwaa A⁴ ‘right’.

5.4. COMPARATIVE RESULTS

5.4.1. Shan phonological basics

Shan has five or six tones in open syllables and typically three or four tones in closed syllables. The writing system is based on southern forms of Shan centered at Taunggyi. An example of the tonal pattern for the northern areas of Shan, which I will call Type 1 Shan, as spoken in Mangshi would be:

FIGURE 5.4.1-1: NORTHERN SHAN TONE VALUES AS A FUNCTION OF PROTO-TAI TONE CATEGORIES AND INITIAL CONSONANTS

Tai Khamti of Putao in extreme northern Myanmar has a very similar system except that, in addition to the system in Figure 5.4.1-1, A1 and B123 have merged. The principle informants for this data were Mr Soi Kwoi, born 1924, Ms. Soi Noi Sieng, born 1932, and Mr Saw New Sar Daw, born 1927. All were originally from Putao but lived at the time in Myitkyina, Kachin State.

FIGURE 5.4.1-2: KHAMTI TONE VALUES AS A FUNCTION OF PROTO-TAI TONE CATEGORIES AND INITIAL CONSONANTS
The tones of Southern or Type 2 Shan should be contrasted with those of northern Shan and Khamti. The tone data here is from Taunggyi, as is found in the speech of Daw Nang Vo Khang, Assistant Librarian of the Shan State Library.

![Figure 5.4.1-3: Southern Shan Tone Values as a Function of Proto-Tai Tone Categories and Initial Consonants](image)

Southern Shan has five tones in open syllables and four tones in closed syllables as follows:

<table>
<thead>
<tr>
<th>Tone</th>
<th>Category</th>
<th>Tone Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>(A123)</td>
<td>445</td>
</tr>
<tr>
<td>2</td>
<td>(A4)</td>
<td>55</td>
</tr>
<tr>
<td>3</td>
<td>(C123)=Tone 6 (B4)</td>
<td>33</td>
</tr>
<tr>
<td>4</td>
<td>(C4)</td>
<td>53?</td>
</tr>
<tr>
<td>5</td>
<td>(B123)</td>
<td>42</td>
</tr>
<tr>
<td>7L</td>
<td>(DL123)</td>
<td>43</td>
</tr>
<tr>
<td>8L</td>
<td>(DL4)</td>
<td>33</td>
</tr>
<tr>
<td>7S</td>
<td>(DS123)</td>
<td>44</td>
</tr>
<tr>
<td>8S</td>
<td>(DS4)</td>
<td>53</td>
</tr>
</tbody>
</table>

It is noteworthy that B123 as well as B4=C123 have creaky voice. The tone categories C4 shows a falling pitch trajectory and ends in glottal constriction. The closure for several tokens averaged about 70 milliseconds and should be contrasted to the creaky voice quality that ends the B123 syllable, which takes nearly twice as long (average 150 msec.) and makes a very different audio impression. The division between the five tone and six tone types of Shan runs surprisingly far north. Daw Saw Khin Gyi from Kut Kai demonstrates the five tone type even though Kut Kai is only 60 km south of Mu-se on the Shweli. Five tone systems are found also at Kunlong and Ho-pang to the east of Kut Kai on the Nam Ting near the Chinese border.

One final language deserves special mention, namely Tai Phake. Most of these people live in Northeast India as Morey reports. There are a few in Myanmar near the border. I was able to gather data from one of these speakers. The tonal analysis I obtained is identical to that in Morey 2004.

In the A1 tone category the pitch starts at mid level and drops a very little before rising to the highest level (about 60 semitones). The A234 category begins mid (about 58 semitones) rises slightly and the falls to about 52 semitones. I record these as 335 and 342 respectively. The B tones are level with the upper one slightly higher. The C tones for this speaker differ a little from the report in Morey. The C123 tones fall from 58 to 55 semitones (but for some words they fall more). Often there is a slight rise before the creaky voice, value 32, but sometimes this tone may end lower than C4. The C4 tone ends in glottal constriction in this
The dead tones are not distinguished for length; the DL123 and DS123 have a value of 58 semitones; where the DL4 and DS4 are falling with value 31.

A B C DL DS
1 335
2 33 32 33
3 342
4 22 21? 31

**FIGURE 5.4.1-4: PHAKE TONE VALUES AS A FUNCTION OF PROTO-TAI TONE CATEGORIES AND INITIAL CONSONANTS**

### 5.4.2. Consonant changes in Shan

There are roughly seven changes in initial consonants in the kinds of Shan I have studied. Some of these represent changes that are far advanced to the point of being nearly complete; others are rather restricted in application and may represent incipient change. In northern locations the original wide groove fricatives and affricates become the affricate $\text{ts}$-, whereas in Southern Shan the reflex is $\text{s}$-. On the other hand, original $\text{ts}$ is retained in Northern Shan but become aspirated $\text{s}$ in Southern Shan. They are kept separate in the Shan writing system $\infty$ is /ts/ and $\infty$ is /s/. For many speakers in the south, $\text{ts}$ has become $\text{s}$ and the sound signified by $\infty$ in Shan script is aspirated /s$i$/7/. The two can be exemplified by $\text{sa}$‘angry’ and $\text{s}fi$‘basket’. In the south there is a definite burst of air before the $\text{s}$ in ‘basket’ not found in ‘angry’. Northern Shan seems not to have this contrast. Thus, I can compare Northern and Southern Shan sibilants as follows (proto-forms from Li 1977):

<table>
<thead>
<tr>
<th>Source</th>
<th>Gloss</th>
<th>Northern</th>
<th>Southern</th>
</tr>
</thead>
<tbody>
<tr>
<td>*d$\acute{\text{e}}$</td>
<td>boy, male</td>
<td>tsaa$^2$</td>
<td>saa$^2$</td>
</tr>
<tr>
<td>*d$\grave{\text{e}}$</td>
<td>elephant</td>
<td>tsaa$^4$</td>
<td>saa$^4$</td>
</tr>
<tr>
<td>*d$\grave{\text{e}}$</td>
<td>artisan</td>
<td>tsaa$^6$</td>
<td>saa$^6$</td>
</tr>
<tr>
<td>*tch</td>
<td>prince, lord</td>
<td>tsau$^3$</td>
<td>sau$^3$</td>
</tr>
<tr>
<td>*s</td>
<td>three</td>
<td>saam$^1$</td>
<td>shaam$^1$</td>
</tr>
<tr>
<td>*s</td>
<td>four</td>
<td>si$^5$</td>
<td>si$^5$</td>
</tr>
<tr>
<td>*s</td>
<td>unmarried girl</td>
<td>sau$^1$</td>
<td>shaau$^1$</td>
</tr>
<tr>
<td>*$\ddot{\text{z}}$</td>
<td>wash (hands)</td>
<td>sak$^8$</td>
<td>sfaak$^8$</td>
</tr>
<tr>
<td>*$\ddot{\text{z}}$</td>
<td>wash (surface)</td>
<td>suk$^8$</td>
<td>sfiuk$^8$</td>
</tr>
<tr>
<td>*$\ddot{s}$</td>
<td>tiger</td>
<td>su$^1$</td>
<td>sha$^1$</td>
</tr>
<tr>
<td>*$\ddot{s}$</td>
<td>pillar</td>
<td>sau$^1$</td>
<td>shaau$^1$</td>
</tr>
<tr>
<td>*$\ddot{s}$</td>
<td>tall, high</td>
<td>su$^1$</td>
<td>shaun$^1$</td>
</tr>
</tbody>
</table>
It is quite evident that in both forms of Shan the original contrast is maintained, but it is maintained in different manners. Southern Shan seems to evidence peculiar sound shift like phenomenon in which *s/z → /sh/ and *tch/kh - > /s/. In the figure below I give an airflow diagram of a minimally contrasting Southern Shan pair shA1 ‘basket’ (top) vs. saA1 ‘angry’. Both waves are plotted on the same time scale. The upper track shows a period of strong airflow during the production of fricative air stream /sh/ in comparison to the much lower air stream of /s/. This sound change is strong reminiscent of developments in the history of Burmese. The modern standard language of Yangon, for example, also makes a distinction between s/sh/. An informal look at the airflow of several Burmese speakers and Shan speakers pronouncing Burmese vocabulary demonstrates diagrams (not presented here). Bradley (1978) suggests an identical pattern of change has occurred with proto-Burmic *s becoming aspirated and *ts becoming /s/.

FIGURE 5.4.2-1: TAUNGGYI SHAN shA1 ‘BASKET’ VS saA1 ‘ANGRY’.

Sound changes in several locations are presented in Table 5.4.2-1:

<table>
<thead>
<tr>
<th>Site</th>
<th>Tone</th>
<th>*kh, *f</th>
<th>*v</th>
<th>*ʔd/</th>
<th>*l</th>
<th>*n, *nl</th>
<th>*ʔb/</th>
<th>*ʔd/</th>
<th>m</th>
<th>kw</th>
<th>o/e</th>
<th>ki</th>
<th>auw</th>
<th>η</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>x-kx</td>
<td>ph</td>
<td>ph</td>
<td>l/n</td>
<td>l/n</td>
<td>n</td>
<td>n</td>
<td>m</td>
<td>k</td>
<td>x</td>
<td>sa/</td>
<td>têi</td>
<td>auw</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>kh</td>
<td>ph</td>
<td>ph</td>
<td>n/l</td>
<td>l</td>
<td>n</td>
<td>m/l</td>
<td>m</td>
<td>mbkh</td>
<td>o/e</td>
<td>têi</td>
<td>auw</td>
<td>η</td>
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<td>3</td>
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<td>x</td>
<td>f</td>
<td>f</td>
<td>l</td>
<td>l</td>
<td>l</td>
<td>m/l</td>
<td>m</td>
<td>k</td>
<td>o/a</td>
<td>têi</td>
<td>auw</td>
<td>η</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>x</td>
<td>kx</td>
<td>f</td>
<td>f</td>
<td>l</td>
<td>l-l</td>
<td>l-m</td>
<td>m</td>
<td>m</td>
<td>k</td>
<td>o/e</td>
<td>têi</td>
<td>auw</td>
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<tr>
<td>5</td>
<td>1</td>
<td>x</td>
<td>f</td>
<td>f</td>
<td>f</td>
<td>l</td>
<td>l</td>
<td>m</td>
<td>m</td>
<td>k</td>
<td>o/a</td>
<td>têi</td>
<td>auw</td>
<td>η</td>
</tr>
<tr>
<td>6</td>
<td>1</td>
<td>x-kw</td>
<td>ph</td>
<td>f</td>
<td>f</td>
<td>l</td>
<td>l</td>
<td>n</td>
<td>m</td>
<td>m</td>
<td>kw</td>
<td>o/a</td>
<td>têi</td>
<td>auw</td>
</tr>
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<td>7</td>
<td>1</td>
<td>x-k</td>
<td>ph</td>
<td>f</td>
<td>f</td>
<td>l</td>
<td>l</td>
<td>mb</td>
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<td>mbx</td>
<td>o/a</td>
<td>têi</td>
<td>auw</td>
<td>η</td>
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<tr>
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<td>1</td>
<td>x</td>
<td>f</td>
<td>f</td>
<td>ld/nd</td>
<td>nd</td>
<td>ld/nd</td>
<td>mb/l</td>
<td>mbx</td>
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<td>η</td>
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<td>9</td>
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<td>x</td>
<td>f</td>
<td>f</td>
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<td>têi</td>
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<td>o/a</td>
<td>têi</td>
<td>auw</td>
<td>η</td>
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</tr>
</tbody>
</table>

TABLE 5.4.2-1: A COMPARISON OF SOUND CHANGE IN SHAN LOCATIONS
5.4.3. Deplosivization

There is one sound change that seems to be found in all kinds of Shan, both north and south. That change involves deplosivization, the stop component, a preglottalized \( \ddash \) (written \( /\ddash d-/ \)) changes to \( /l/ \) and preglottalized \( \ddash b \) (written \( /\ddash b-/ \)) changes to \( m \) or \( v \). Some examples of deplosivization are: \( m\ddash i \rightarrow m\ddash u \) ‘bear’ (Tai Laing of Maan Maxo). Deplosivization in some places near the China border may widen the class of candidates for this rule by extending the change having \( /n/ \) change to \( /l/ \) (in syllable initial position; there are no instances of syllables with coda \(-l\); only \(-n\) is found). In the north and west in Tai Khamti deplosivization travels another path, namely \( /\ddash d/ \) becomes \( /n/ \); and predictably then a few case of \( /l/ \) become subject to this rule and develop into \( /n/ \) as well. There is a tendency of \( n \) to follow in the wake of \( /\ddash d/ \) in deplosivization showing the forces of patterning in sound change. In fact, the propensity of \( /\ddash b/ \rightarrow /v/ \) and \( /\ddash d/ \rightarrow /l/ \) is widespread in the northern tier of SW Tai. Indeed, Luo (1993: 8) provides data that shows these changes are found outside Shan to include many non-Shan northern tier languages. The White and Black Tai of Jinping County are currently undergoing this change. Older speakers have \( /\ddash b/ \rightarrow /v/ \), whereas speakers of the middle years have partially changed these to \( /v/ \) respectively, and younger speakers use \( /v/ \) to a very high degree. The Tai Hongjin varieties, cf. Luo 1993, (at all but one or two locations) show the same developments \( /\ddash b/ \rightarrow /v/ \) and \( /\ddash d/ \rightarrow /l/ \). For example, an \( l \) initial is found in \( *\ddash d\ddash a\ddash m^1 \)
‘black’ and *ʔdaau ‘star’, but only Mangshi, Namtieng, Namlieng, Nampha, and Lashio have the n → l development, e.g. in *ʔlam^C ‘water’ becoming lam^F. These areas run from the very southeastern reaches of Yunnan Province to trans-Chindwin Burma and from Chiangrai Province, Thailand to Sichuan Province China. This change is even found outside the SW Tai branch, as some forms of Zhuang in Guanxi Province also have this change.

<table>
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<th>*n</th>
<th>*ʔd/ʔdl</th>
<th>*l</th>
<th>*ʔb</th>
<th>*ʔbl</th>
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<td>mb</td>
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<td>mb</td>
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<td>n</td>
<td>l~n</td>
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<td>n</td>
<td>n</td>
<td>m</td>
<td>l</td>
<td>m</td>
</tr>
</tbody>
</table>

**FIGURE 5.4.3-1:** DEPLOSIVIZATION OF /ʔd/ → /l/, /ʔb/ → /m/, /ʔbl/ → /l/, AND VARIABLY /n/ → /l/

The changes begin with the rule ʔd → l and then the subsequent spread of this rule to encompass the change n → l. These mutations are, of course, variable, occurring in overlapping patterns. As can be seen in areas from Mangshi to Bhamo along the Myanmar-China border the *ʔd in the SWT parent language has changed to l virtually everywhere. To the south in Southern Shan territory, in the west, and in the east only *ʔd is changed. The only exceptions are the territory of the Khamti in the far north, where *ʔd → n
and then *l → n. Indeed, this irregular phonological correspondence is (along with lexical differences) the most significant linguistic shibboleths for Khamti, e.g. *\(n\)a\(n\) \(A^3\) ‘moon’ from *\(\ddot{d}\)u\(n\) \(A^3\) and \(p\)h\(a\) \(C^3\) \(n\)u\(j\) \(C^3\) ‘sky-screams, thunder’ from *\(\ddot{f}\)a\(a\) \(C^3\) \(r\)u\(C^3\). There are still many examples of Khamti \(l\) from *\(l\), e.g. \(l\)u\(m\) \(A^4\) ‘wind’ from *lo\(m\) \(A^4\); the change of \(l\). But, concentrating on the non-Khamti forms for the moment, I also see evidence in location 38 of a sound change that began by mutating \(\ddot{d}\) to \(l\), as in most places, and then at a later time \(n\) also changed to \(l\). According to Grierson (1928) Ahom had \(\ddot{d}\)-. We know, moreover, from reports in Chinese sources, such as Wang (1984: 212-14) that the \(l\) reflex is characteristic for large areas of Dehong Prefecture in Yunnan to the east. My own study of Guo Yuping from Mangshi also found the \(l\) reflex (Edmondson and Solnit 1994). The change \(n \rightarrow l\) is not universal in Myanmar and is strongest in territory between Bhamo and Namhkam. It is most clearly associated with groups that refer to themselves as Tai L\(\ddot{a}\) (\(l\)ąc), although others now have it as well. This pattern seems to be the result of immigration of Tai L\(\ddot{a}\) speakers in relatively recent times and does not seem to be the result of a pattern of wavelike change.

A clue to the mechanism of deplosivization is also in evidence on the Sino-Myanmar border area. At Mangshi and other locations studied by Ed Robinson (Mau Hong Tai Mao from tape recorded August 1994), my own recordings of speakers from a place called Nam Kha, and Jimmy G. Harris (pc) realize /m/ as a very short prenasalized voiced stop [\(m\)ü\(b\)] and lateral /l/ as a very short lateral or nasal plus d, i.e. [\(l\)ü\(d\)]. Edmondson et al. (2004) show from laryngoscopic study of Sui, a Kam-Sui language of Guizhou, China, that preglottalization involves a moderate glottal stop articulation released into a voiced stop. If the sphincteric gesture for the glottal stop were to involve the velar valve above the glottal aperture and then to transfer entirely to the velic area, the change of \(\ddot{b}\) to \(\ddot{b}\) would be complete. This development is not of great age, since it has now started to operate on \(m\) and \(l/n\) segments irrespective of whether they are from the historical sources \(m\), \(\ddot{b}\), or \(m\), and similarly with \(l\), as Table 5.4.2-1 shows.

5.4.4. Lenition of /kh/ to /x/

The velars in SWT are known to be especially subject to change. In some cases it appears as if the \(kh\) is in reality \(kx\) or \(kx\) in variation with \(kh\).

<table>
<thead>
<tr>
<th>Loc</th>
<th>*kh</th>
<th>Loc</th>
<th>*kh</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>kh</td>
<td>12</td>
<td>x</td>
</tr>
<tr>
<td>29</td>
<td>kh</td>
<td>22</td>
<td>x</td>
</tr>
<tr>
<td>2</td>
<td>kh</td>
<td>23</td>
<td>x</td>
</tr>
<tr>
<td>21</td>
<td>kh</td>
<td>30</td>
<td>x</td>
</tr>
<tr>
<td>26</td>
<td>kh</td>
<td>6</td>
<td>x</td>
</tr>
<tr>
<td>Hongjin</td>
<td>kh</td>
<td>25</td>
<td>x</td>
</tr>
<tr>
<td>17.</td>
<td>(kh/x)</td>
<td>7</td>
<td>x</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>x</td>
</tr>
<tr>
<td></td>
<td></td>
<td>18</td>
<td>x</td>
</tr>
<tr>
<td></td>
<td></td>
<td>39</td>
<td>x</td>
</tr>
</tbody>
</table>

**FIGURE 5.4.4-1: CHANGE OF /kh/ TO /x/ IN SHAN BY REGION**

This change is especially noticeable in Tai L\(\ddot{a}\) territory of Yunnan Province at Dehong Prefecture, but also it is found in Bhamo. It has spread to Putao-O in the far north among that kind of Khamti, but it is not found in the Khamti found in the Hukawng Valley to the west. The unchanged \(kh\) is found south of line passing east-west through Lashio.

5.4.5. Fortition of /f/ to /ph/.

This change must have occurred early in the history of Shan. It is one of the changes characteristic of wide areas inhabited by Shan. However, for a long time these speakers have been in contact speakers of the original \(f\). There are even cases of hypercorrection found along
the Shweli. Thus, I found some speakers who produce fak ‘vegetable’. This item of native Tai vocabulary originally had *ph. But, these speakers have become accustomed to reversing the rule f → ph to ph → f. In some cases lexical items are caught in the reversal or hypercorrection.

5.4.6. Variation of fortition (f to ph) by location

<table>
<thead>
<tr>
<th>Loc</th>
<th>*f</th>
<th>Loc</th>
<th>*f</th>
</tr>
</thead>
<tbody>
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<td>4</td>
<td>f</td>
<td>6</td>
<td>fh</td>
</tr>
<tr>
<td>5</td>
<td>f</td>
<td>25</td>
<td>fh</td>
</tr>
<tr>
<td>8</td>
<td>f</td>
<td>7</td>
<td>ph/f</td>
</tr>
<tr>
<td>11</td>
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<td>1</td>
<td>ph</td>
</tr>
<tr>
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<td>ph</td>
</tr>
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<td>f</td>
<td>18</td>
<td>ph</td>
</tr>
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<tr>
<td>30</td>
<td>f</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

FIGURE 5.4.6-1: FORTITION OF /f/ TO /ph/

The original f has come into most areas with only a few scattered residues of ph remaining, for instance, in the far north in Khamti areas and in a few places in the territory north of the Shweli River. I found some cases of ph in southern Shan areas also. This kind of pattern suggests contamination of Shan in Myanmar by the Tai Lua of Yunnan.

5.4.7. Loss of secondary articulation

The loss of clusters or simplification of a complex consonant is very widespread in the Tai family. There are indeed only a few places in the entire family where clusters are preserved without exception. The second stage in the process of loss is the formation of initial consonants with secondary articulations. Prominent among these are palatalizations, such as pj- kj-, and mj- and labializations kw- and khw-. Palatalization are not found in Shan and labialized velars are also being replaced by simple velars.

<table>
<thead>
<tr>
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<th>*(h)w</th>
<th>Loc</th>
<th>*(h)w</th>
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</thead>
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<td>x</td>
</tr>
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</tr>
<tr>
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<td>12</td>
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</tr>
<tr>
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<td>k</td>
<td>23</td>
<td>kw</td>
</tr>
<tr>
<td>8</td>
<td>x</td>
<td>6</td>
<td>kw</td>
</tr>
<tr>
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<td>25</td>
<td>xw</td>
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<td>x</td>
<td>31</td>
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<td>x</td>
<td>32</td>
<td>kw</td>
</tr>
</tbody>
</table>

FIGURE 5.4.7-1: LOSS OF SECONDARY ARTICULATION

The loss of labialization is a change that again seems to have started in Chinese Shan territory of Yunnan and has spread. Possibly this change is the result of migration.

5.4.8. Vowel changes

I give here the vowel changes without further analysis for the moment. I am currently still analyzing these.
5.4.9. Palatalization

In Shan locations there is also a variable rule of palatalization showing the original \( ki \) and the changed form \( tci \) variably.

<table>
<thead>
<tr>
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<th>pronunciation</th>
<th>Location</th>
<th>pronunciation</th>
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FIGURE 5.4.9-1: PATTERN OF PALATALIZATIONS

5.5. CONCLUSION

My research question at the beginning was whether there is linguistic evidence to support the traditional divisions with the Shan community. I conclude that there indeed are three rather
clearly defined groups that correspond to the autonyms: Tai Khamti, Southern Shan, and Northern Shan. Although I have only limited data on Tai Tã, it is still easily separated from the other two by virtue of having a five tone system instead of six tones. Moreover, the tonal organization is sufficiently different within the five and six tones to make a natural development from one to the other quite unlikely. The key tonal category is B4, which allies with A23 in the north and with C123 in the south. This division is for that reason not of recent origin. The age of the difference is further underlined by being geographically rather distinct.

Also geographically and linguistically distinct is Tai Khamti. It shows a unique pattern of deplosivization in that both /t/ and /l/ (in part) become /n/. That change is not attested elsewhere and thus also probably dates from a time when the Khamti were a group distinct from the northern Shan. There are also some lexical correspondences that appear to be different between Shan and Khamti that support this division. In recent centuries the Khamti have been governed by the Shan Sawbwas of Mogaung and their language has no doubt been mingled with that of their southern lieges.

As for the Tai Long (I use it in its historical sense), there is a striking similarity to all the patterns of variation at various geographic locations. It can be characterized as the ‘background’ and the ‘intrusion’. The intrusion is the area roughly from Bhamo to Namkhama/Muse. The background comprises the areas in Myitkyina and northward, on the one hand, and the areas south of Muse. It appears that the Bhamo/Shweli area around Namkhama/Muse is an area where there has been considerable in-migration from the east in Yunnan Province by the Tai Lua. In these areas the traditional names are not very accurate predictors of linguistic forms. Virtually every sound change shows Tai L̾a contamination and, thus, I feel that movement is the cause and not innovation within a sedentary population. Taken as a whole, Northern Shan, Southern Shan, and Khamti are certainly enough alike to share a common writing system and sense a common identity. The mixing of varieties along the Shweli River basin should not really come as a surprise, as it is in this place from the earliest times, through the British annexation of Upper Burma, and up to the present that there has been the greatest concentration of Shan history and the densest lines of communication. This area was favored over the southern route near Hsen Wi and the northern route along the Nam Taping north of Bhamo. It was in these places that in times of conflict Chinese, Burmese, and Shan warriors marauded and in times of peace Shan traders and immigrants trekked.

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CHAPTER SIX

THE TAI LANGUAGES OF ASSAM

Stephen Morey

6.1. THE TAI PEOPLE IN ASSAM

More than a million people in the Northeast of India claim Tai ethnicity. However, over 99% of these are Tai Ahoms who no longer maintain Tai as a spoken language. In addition to the Ahoms, there are a number of other groups, the Aiton, Khamti, Khamyang, Nora, Phake and Turung, who also claim Tai ethnicity. Tai language is spoken, to varying extents, in all of these communities.

This chapter will briefly outline each of these groups and discuss some of the salient features of the languages spoken by these groups.

6.1.1. Tai Ahom

According to traditional accounts, a group of Tai, led by a prince named Sukhapha (sv̂kā phaā), arrived in Assam in 1228 from what is now South West China. Sukapha founded the kingdom that is now known as the Ahom, which ruled in the Brahmaputra valley for 600 years. During this time, the Ahom gradually assimilated with the local Hindus and lost their language and culture. It seems that by early in the nineteenth century, everyday usage of Ahom language had ceased and that Ahom people all spoke Assamese as their mother tongue.

Nevertheless, the Ahom language remains in vestigial use as a ritual language in religious ceremonies, such as the Ahom Soklong wedding which includes the chanting of prayers that are said to be based on ancient Ahom religious practices (see Terwiel 1996 and Morey 2002, 2005). There is also an enthusiastic program of Ahom language revival. Two Ahom dictionaries, G. C. Barua (1920) and B. K. Baruah and Phukan (1964) have been produced. These are in a large part based on a late eighteenth century manuscript word list, known as the

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1 I am very grateful to Dr Anthony Diller for reading and commenting on this chapter, the final version of which gained much from his comments. During the writing of this chapter I have been employed as a postdoctoral fellow at the Research Centre for Linguistic Typology, La Trobe University, and I particularly wish to acknowledge Prof. Alexandra Aikhenvald from RCLT who read through the manuscript and made many valuable suggestions. The data on Tai Aiton comes largely a historical narrative told to me by Nang Wimala Thoumoung and from the translations of Aiton historical texts undertaken with Sri Nabin Shyam Phalung. I also acknowledge Ong Cham, Chow En Lai (Chaw Sangea Phalung), who helped with the translation of Ong Cham’s story, and Sa Cham Thoumoung, the teller of many tales. The fieldwork on Tai Phake was undertaken in Namphakey Village, Naharkatia, Dibrugarh District in March 2001 and February 2002. I would particularly like to thank Ai Chanta Gohain, and Aithown Che Chakap who have provided a great deal of information about the phenomena described here and patiently cooperated with repeated requests for further information. I am also indebted to the Khamyang informants, particularly Chaw Sa Myat Chowluk, and Chaw Deben Chowluk, who have been so patient in the process of giving me information about their seriously endangered language. I am, of course, responsible for any inconsistencies or inaccuracies contained in this chapter.

2 Nothing is known of the Ahom tonal system, and therefore no tones are marked. Nabin Shyam Phalung states that the meaning of this King’s name is ‘tiger-equal-to-sky’, and is pronounced sv̂kā phaā in Aiton.
Bar Amra. This manuscript, written entirely in Ahom script, gives definitions for several thousand Ahom words in Assamese.

In addition to words attested in the Bar Amra, there are a large number of other words included in these two dictionaries. Some of these were added by members of the Ahom priesthood, called Deodhais. Of particular interest to scholars have been those words in both dictionaries that have initial consonant clusters, particularly with /r/ as the second member. Some of these do appear in Ahom manuscripts, but it seems that many do not. The reliability of these clusters cannot thus be ensured, and as a consequence, historical reconstructions which rely on G. C. Barua (1920) or B. K. Barua and Phukan (1964) should be closely re-examined.

There is also an Ahom Primer (G. C. Barua 1936), which includes some grammatical information about Ahom. Much of this information, however, was provided by a Tai Aiton speaker, Mohendra Shyam Phalung, who lived with G. C. Barua in the early 1930s.

The extent to which this modern use of the Ahom language can be regarded as a continuation of the ancient Ahom language has been disputed, and is discussed by Terwiel (1996) and Morey (2002, 2005).

In addition to the Bar Amra mentioned above, there are a large number of Ahom manuscripts, some of which have been carefully analysed (Terwiel and Ranoo Wichasin 1992, Ranoo Wichasin 1996).

6.1.2. Other Tai groups in Assam

At least six other groups of Tai have entered Assam since the arrival of the Ahom, bringing with them distinctive varieties of language. Of these languages, Ahom and five others, Aiton, Khamti, Nora, Phake and Turung, were referred to in the Linguistic Survey of India (Grierson 1904), the work through which the various Tai languages in India became best known. A seventh group, Khamyang, which may be the same as Nora, is still spoken in a single village in Tinsukia District, Assam, but only by older adults.

Aiton, Khamti and Phake are each spoken by over a thousand people, and are still being learned by children. In Khamyang and Nora villages (except for Pawaimukh village), only Assamese is spoken, although some men who have trained as monks in other Tai speaking areas have acquired an adult-learners ability in Tai.

The speech of the Turungs, who now speak a variety of Singpho (Tibeto-Burman), is discussed below in section 6.1.2.5.

6.1.2.1. Tai Aiton

Aiton is spoken in about 10 villages in the Dhonsiri river valley on the south side of the Brahmaputra River. The Dhonsiri forms the boundary between Golaghat district and Karbi Anglong autonomous district, and Aiton villages are found on both sides of the river.

It is not clear how long the Aitons have been in Assam. The traditional view is that the Aiton, Khamti, Khamyang, Phake and Turung all entered Assam between the middle of the eighteenth century and the early nineteenth century, having migrated from Burma and bringing with them Theravada Buddhist religion and scripts which are closely related to the Shan of Burma.

This view is not uncontroversial. Diller (1992: 8-11) discusses the evidence suggesting that at least some of these groups arrived in Assam with Sukapha, some 500 years before the traditional date. Even today, Aiton villagers can recite by heart stories of the arrival of Sukapha in Assam. If it is not their own history, why is it such an important part of their culture?

Aiton stories also refer to contact with later kings of the Tai Ahom. One text mentions the Ahom King Suhungmung or Dehingia Raja (1497 – 1539), who conquered the Dhonsiri valley in which the Aitons now live. If the Aitons were already living in the Dhonsiri valley in the time of Suhungmung, we might expect them to record the event.

On the other hand, the Aitons also tell stories and sing songs about their ancestral home, muuy^2 maau^2, in what is now Southwestern China, suggesting that their migration to India
may be a more recent phenomenon.

As Diller (1992: 11) points out, if we accept that the other Tai groups arrived at any date earlier than the eighteenth century, ‘their (Burmese-linked) Buddhism and relative lack of Indo-Aryan assimilation would then remain to be explained’.

Several Aiton informants have stated that until about five generations ago, the Aitons did not follow Theravada Buddhism, but rather worshipped spirits (saw̤-phii̤) and sacrificed animals. The Aitons were then converted to Theravada Buddhism in the mid nineteenth century by a Burmese monk, Pi En Duin Sayadaw (pii̤ jn1 duN2).

It is also worthwhile to note Grierson’s statement on the Aitons, namely that they were

... also called Shâm Doânïyâś, or Shân interpreters, are said to have been a section of the Shâns at Mûng Kâng which supplied eunuchs to the royal seraglio, and to have emigrated to Assam to avoid the punishment to which, for some reason, they had been condemned (1904: 65).

The Aitons that I have interviewed all reject this suggestion by Grierson. However the statement about interpretation may be significant, given that the Aiton language is demonstrably closer to what the original Ahom seems to have been than any of the other spoken Tai languages are (see below section 6.2.2.2). Perhaps the Aiton speech of today does contain some echoes of the original Ahom speech.

If indeed the Aitons have been in the Dhonsiri valley since the fifteenth century, and if they were not followers of Theravada Buddhism at that time, then perhaps their language and cultural practises were closer to that of the Ahoms.

Among the present day Aitons, there are estimated to be about 1,500 speakers, almost all of whom are bilingual in Assamese, and perhaps 10% of whom are also speakers of Turung (Tibeto-Burman). The language is still being learned by children.

There are large collections of manuscripts in the village temples and some in private hands. There are, however, only a small number of people who can read these manuscripts.

Grierson (1904: 193-211) includes some brief grammatical notes, texts and a comparative word list in Aiton. The data in Grierson does not accord with the findings of Aiton phonology reported below in sections 6.3.1 and 6.3.2, and it appears that Grierson’s analysis is based entirely on a transcription of Tai written materials, rather than any attempt to represent the spoken language.

More recently both Diller (1992) and Morey (2005) have presented data on Aiton.

6.1.2.2. Tai Khamti

Most of the Tai Khamti live in Arunachal Pradesh state of India, or in northern Burma. In Assam, there is one small Khamti village near Margherita in Tinsukia district and several villages on the north bank of the Brahmaputra at Narayanpur, in North Lakhimpur district. So far as I know, no linguistic work has been done in Narayanpur. In addition to Grierson (1904), Robinson (1849), Needham (1894), Harris (1976), Weidert (1977), Wilaiwan (1986) and Chaw Khouk Manpoong (1993) have all examined the Khamti language.

There are probably fewer than 600 Khamti speakers in Assam and perhaps between five and ten thousand in Arunachal Pradesh.

6.1.2.3. Tai Khamyang

Of the various groups of Tai who reside in Assam today, the Khamyang are the only group not mentioned by Grierson in the Linguistic Survey of India (1904).

Grierson did, however, mention and exemplify the language of the Nora (1904: 179-191). It is said by some Tai in India that Nora and Khamyang are the same (see Diller 1992: 12), although I have never heard the remaining Khamyang speakers refer to themselves as Nora. In his description of Nora, Grierson stated that there were around 300 speakers in his time. He provided some phonological notes which suggest some similarities with present day Khamyang, and also two texts, including some riddles.
Boruah (2001: 41) lists several Khamyang villages in Jorhat and Golaghat districts. Tai Khamyang is not spoken in any of these villages, a situation which parallels that of the Ahom. In some of the Tai communities of Northeast India, self-identification is not necessarily based on language usage.

Of the origin, language and history of the Khamyang, very little has been written. Muhi Chandra Shyam Panjok (1981) discusses the origin of the Khamyangs. He does not cite any sources, but presumably his pamphlet is based on historical Tai manuscripts.

According to Panjok’s account, a group of Tai, identified as Khamyangs, were sent into Assam by the Tai King Sukhanpha to search for his brother Sukapha who had earlier founded the Ahom Kingdom in the Brahmaputra valley. The traditional date for the latter event is 1228. After being welcomed by Sukapha, the Khamyangs set out to return to King Sukhanpha in what is now the Shan States. The history states that the Khamyang then settled at Nawng Yang lake and lived there for about 500 years.

Leach (1964: 33) places Nawng Yang Lake in a location to the south of the Tirap River, probably just immediately south of the Burma-India border. It is from this lake that the name Khamyang was derived.

The Khamyangs then ventured back into Assam, commencing from 1780. Caught up in the various troubles that accompanied the final years of the Ahom Kingdom, the Khamyangs fought both with and against the Ahoms and were divided. One group eventually settled in Dibrugarh district and from there migrated to Pawaimukh in 1922. Chaw Sa Myat Chowlik, born in about 1920, has confirmed to me that the village was founded when he was two, and that his parents brought him there from Dibrugarh district.

A second group of Khamyangs settled in Dhali in 1798 and these were the ancestors of the Khamyangs who now live in Golaghat and Jorhat districts, mentioned by Boruah (2001) above.

Today Tai Khamyang is only spoken in the single village of Pawaimukh, near Margherita in Tinsukia district. Only older adults are full speakers of the language. The bi-dialectal linguistic situation in Pawaimukh is described in more detail in Section 6.6.

6.1.2.4. Tai Phake

There are 11 Phake villages in both Assam and Arunachal Pradesh. There are perhaps 2000 speakers and the language is still being learned by children. There are large collections of manuscripts in every village, and a significant number of people can read and write the Tai script. 4

Although Phake was mentioned by Grierson (1904), he provided no information about the number of speakers and no data on the language. The Thai linguist Dr Banchob Bandhumedha spent a great deal of time in the Phake community and published a dictionary (Banchob 1987). The language has also been studied by Wilaiwan (1983), Banchob (1987), Diller (1992), Gogoi (1994), Aimya Khang (1997) and Morey (2005).

6.1.2.5. Tai Turung

The history of the Turung is a matter of some dispute. The Turung themselves believe that they were originally a Tai speaking group who migrated from place to place in Northeast India and the surrounding areas, eventually settling in Jorhat and Golaghat districts of Assam. In Turung villages there are historical manuscripts, written in Tai, which detail the history of their migrations. The name Turung is interchangeable with Tairung or Tailung in these manuscripts. Tailung would be rendered in Aiton as tai2 luN1 and means ‘great Tai’. Because the Turung were in contact with the Singpho for a long period, they eventually adopted the

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3 Muhi Chandra Shyam Payok is from Chalapathar and is not a speaker of Tai. It must be presumed that a Tai speaker, possibly not a Tai Khamyang speaker, conveyed the meaning of the old Tai MS to him.

4 The Tai writing system is described in detail in Morey (2005: 179-207).
Singpho language (Jinghpaw subgroup of Tibeto-Burman).

British records from as early as the mid 19th century suggest that the Turung, which he calls Tairong, were a Tai speaking group who were captured by the Singpho and held as slaves for a period of years. Grierson explains that they were taken prisoner by the Singphos or Kachins and made to work as slaves. They were released by Captain Neufville in 1825, and continued their journey to the Jorhat Subdivision, where they now live. During their servitude to the Kachins they entirely forgot their own language, and now only speak that of their conquerors, Singpho. (1904: 64)

Grierson goes on to note that the Tairong still had books in their own language, and his study of Tairong includes a translation of the Story of the Prodigal Son in Tairong, which suggests some knowledge of Tai language by at least some members of the community. This translation contains some curious features and it is possible that Grierson’s informants were second language learners of Tai, as the Tai speakers in Turung villages are today. Grierson (1904: 167) states that ‘about 150 of them are said to speak their own language’ by which he means a Tai language.

A number of recordings of Tai Turung made by Dr Banchob Bandhumedha in the 1960s have recently come to light. These recordings were made in Tai language in the Turung village of Titabor. At least one of the informants, Soi Lendro, was clearly a fluent Tai speaker who was also able to read from manuscripts. When the writer visited Titabor in September 2003, Soi Lendro was still alive. He confirmed that he had been raised speaking Turung (Tibeto-Burman) and had learned Tai as a young adult, when living in a Khamti Buddhist monastery as a monk. The other two of Banchob’s informants who were still living, Nang Ee Hom and Nang Ai Mii, both confirmed that they could not speak Tai, but had learned some Tai prayers from a visiting monk, and it was these prayers that Dr Banchob recorded.

A survey of six Turung villages in 2003 established that Turung, as a Tai language, is no longer spoken. Apart from those Turungs, who, like Soi Lendro, have learned Tai as monks, the other Tai speakers in Turung villages are all Aitons who have married Turungs and moved to live there. One village, Balipathar (baan in Aiton), is a half-Turung, half-Aiton village.

Turung today is a Tibeto-Burman language of the Jinghpaw sub-family, and is called Turung by its speakers. In this Turung language, the large majority of words are Tibeto-Burman. Some kinship terms are Tai, as are some terms for religious or material culture. The Turung themselves regard their language as a mixture of Tai and Singpho (Jinghpaw/Tibeto-Burman). The language of younger Turungs is shifting to Assamese, the language of wider communication. Even older speakers code switch into Assamese very frequently.

The word Turung is taken from the name of a river in Upper Burma where the Turungs lived several centuries ago. The term appears to have become conflated with the term ‘Tai’ (in Aiton pronunciation). Grierson (1904: 167) stated that ‘The Tairongs (or great Tais) ... are also called Turung or Sham (i.e. Shan) Turung ...’. The term ‘great Tai’ is first encountered in Buchanan (1798), who says of them that they are:

... a people called, by the Burmas, Kathee Shawn, to themselves they assume the name of Tai-loong, or great Tai. They are called Moitay Kabo by the Kathee, or people of Cussay. They inhabit the upper part of the Kiaianduayn river, and from that west to the Erawade.

5 Aiton oral histories also state that the Turungs were held as slaves of the Singpho for a time.
6 I am very grateful to Dr Nawawan Bandhumedha, niece of the late Dr Banchob, for making these recordings available to me.
This, however, would appear to refer to the Khamtis who reside in what is now Burma. Of the several groups mentioned in Aiton manuscript, The Treaty between the Aitons and the Turungs,7 we find Takum, Tarung and Tarai. Each of these words is pronounced in Aiton with an initial syllable of [tə], an example of the sesqui-syllabic structure so frequently encountered in the Jinghpaw languages.

Perhaps Turung was the name of a smaller group of Tibeto-Burman speakers, and when the Turung came to live with the Aiton, the name was re-interpreted as a Tai word, because of its chance similarity to the words for ‘great Tai’. Perhaps the Turungs were never speakers of a Tai language. This is the view is held by Singpho speakers living in Margherita subdivision of Tinsukia district in Upper Assam. The Singpho regard the ‘Turung as one of four Singpho groups of hkawng8 ‘river bank’. These groups are named after the rivers near which they live, as Tieng Hkawng, Diyun Hkawng, Num Hpuk Hkawng and Tarung Hkawng. The first two are named for rivers in Arunachal Pradesh and the third, Num Hpuk, refers to the Dihing river. Further research on the grammar and history of Turung is in progress.

### 6.2. NOTES ON THE PHONOLOGY OF THE TAI LANGUAGES OF ASSAM

#### 6.2.1. Consonants

Tai Phake, Khamti and Khamyang all appear to have the same inventory of initial consonants, which is given in Table 6.2.1-1, although cognate words do not necessarily have the same initials (see below Table 6.6-1 which compares Khamyang with Phake and Khamti).

<table>
<thead>
<tr>
<th>TABLE 6.2.1-1: CONSONANT PHONEMES IN PHAKE, KHAMTI AND KHAMYANG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bilabial</td>
</tr>
<tr>
<td>----------</td>
</tr>
<tr>
<td>Voiceless unaspirated stops</td>
</tr>
<tr>
<td>Voiceless aspirated stops</td>
</tr>
<tr>
<td>Nasals</td>
</tr>
<tr>
<td>Voiceless fricative</td>
</tr>
<tr>
<td>Semi vowel</td>
</tr>
<tr>
<td>Lateral Approximant</td>
</tr>
</tbody>
</table>

Each of the seventeen consonants represented in Table 6.2.1-1 corresponds to a single letter in the Tai orthography.

In Aiton, on the other hand, there are three additional phonemes, /b/, /d/ and /r/. The stops /b/ and /d/ are usually shown in writing by the homorganic nasal stops /m/ and /n/ respectively, although sometimes the Burmese letters for <b> and <d> are used. Many words which have initial consonants that are reflexes of proto *m or *n (realized as /b/ and /d/ respectively in Standard Thai) are in variation between voiced stops and their corresponding nasals in Aiton (as exemplified by nai3/dai3 ‘get’ in Table 6.4.3-1 below).

The rhotic /r/ is realized as an approximant with fairly strong retroflexion. It would be best phonetically described as either [ɾ] or [ɾ]. It is shown in writing by the symbol r, which is the symbol for /l/ and the symbol for a subscripted /r/ in combination.

In addition to these additional phonemes, there are some consonant weakenings that are observed in Aiton. Both the bilabial and velar voiceless aspirated stops (/ph/ and /kh/) are usually realized with fricativization, as [φ] and [χ]. The semivowels (/y/ and /w/) are also usually released as voiced fricatives ([j] and [β]). The voiceless fricative /s/ is often

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7 Dated to the late 19th century, this manuscript is translated in Morey 1999b.
8 The spelling hkawng and the names of the various groups follows the spelling system devised for the Jinghpaw language in Kachin State, Burma.
palatalized. None of these processes appears to be related to linguistic environment.

It is possible that the weakening of voiceless aspirates to voiceless fricatives and the strengthening of semi vowels to voiced fricatives has so changed the phoneme inventory that it might be better to express it as in Table 6.2.1-2:

**TABLE 6.2.1-2: REALIGNED AITON PHONEME CHART**

<table>
<thead>
<tr>
<th></th>
<th>Bilabial</th>
<th>Dental / Alveolar</th>
<th>Palatal</th>
<th>Velar</th>
<th>Glottal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voiced Stops</td>
<td>b</td>
<td>d</td>
<td>(ʔ)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Voiceless unaspirated stops</td>
<td>p</td>
<td>t</td>
<td>c</td>
<td>k</td>
<td></td>
</tr>
<tr>
<td>Voiceless aspirated stops</td>
<td></td>
<td>th</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nasals</td>
<td>m</td>
<td>n</td>
<td>ˠ</td>
<td>ŋ</td>
<td>h</td>
</tr>
<tr>
<td>Voiceless fricative</td>
<td>ʃ</td>
<td></td>
<td>x</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Voiced fricative</td>
<td>β</td>
<td></td>
<td></td>
<td>ɾ</td>
<td></td>
</tr>
<tr>
<td>Rhotic</td>
<td>r</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Approximant</td>
<td>l</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

However a more cautious approach to the Aiton consonant phonemes would present an inventory like Table 6.2.1-3 with the addition of /b/, /d/ and /r/. This more conservative inventory tallies better with the writing system of the Aitons which lists the letters in groups of stops and nasals, viz: /k/, /kh/, /ŋ/, /ʃ/, /s/ /š/, /ʃ/, /th/, /n/, /p/, /ph/, /m/ and then the semivowels /y/, /ɾ/, /l/, /w/, and finally /h/ and vowel initial words.

As for Ahom, by examination of the surviving Ahom manuscripts, and assuming that there is a one to one correspondence between the glyphs for the initial consonants and their phonemes, the following phoneme table can be presented:

**TABLE 6.2.1-3: POSSIBLE CONSONANT PHONEMES IN AHOM**

<table>
<thead>
<tr>
<th></th>
<th>Bilabial</th>
<th>Dental/ Alveolar</th>
<th>Palatal</th>
<th>Velar</th>
<th>Glottal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voiceless unaspirated stops</td>
<td>p</td>
<td>t</td>
<td>c</td>
<td>k</td>
<td>(ʔ)</td>
</tr>
<tr>
<td>Voiceless aspirated stops</td>
<td>ph</td>
<td>th</td>
<td></td>
<td>kh</td>
<td></td>
</tr>
<tr>
<td>Voiced stop</td>
<td>b</td>
<td>d</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nasals</td>
<td>m</td>
<td>n</td>
<td>ˠ</td>
<td>ŋ</td>
<td>h</td>
</tr>
<tr>
<td>Voiceless fricative</td>
<td>s</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Semi vowel</td>
<td></td>
<td></td>
<td></td>
<td>y / ʃ</td>
<td>9</td>
</tr>
<tr>
<td>Rhotic Approximant</td>
<td>r</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lateral Approximant</td>
<td>l</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

6.2.1.1. **Consonant clusters**

Consonant clusters are occasionally found with borrowed words in Phake, Khamti and Khamyang. In Aiton, on the other hand, they are very common in three types of words: borrowed words, onomatopoeic words and words for which initial clusters are reconstructed

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9 In Assamese the proto phoneme */y/ is realized as [z] or [ʒ]. It is possible that this was also the case in Ahom.
for proto-Tai.

In the 1970s, the Thai linguist Banchob Bandhumedha wrote a manuscript *Aiton–English–Thai Dictionary*. This records the following initial clusters for Aiton, mainly in onomatopoeic words:

1) br pr phr dr pl
   cr sr kr khr gr
   kl

Several of these clusters appear to occur only in two-syllable words where the first syllable is unstressed and probably pronounced with an unstressed schwa. For example Banchob records *srA8* ‘Buddhist monk’, which is written *sara* which I have phonemicized as *sa1 rA1*. Many of the other clusters are found only in onomatopoeic words.

Diller (1992: 15) mentions only four clusters, namely:

2) pr phr kr khr

From the word list of 2000 items collected from Bidya Thoumoung, the following clusters were recorded:

3) pr phr tr khr
   pl
   py ky

Of these, several such as /tr/, /py/ and /ky/ are only found with words that are obviously borrowed from Pali or Burmese. The cluster /kr/ was also recorded in some texts, but only in the borrowed word *krii1* ‘big’ (from Burmese).

6.2.2. Vowels

In terms of vowel quality, most of the Tai languages of Assam have a nine vowel contrast, with a tenth phoneme provided by the length contrast between /a/ and /aa/. Table 6.2.2-1 gives the vowel phonemes in Phake. The forms in brackets show the orthography used by Banchob (1987) which is maintained here for the sake of consistency.

**TABLE 6.2.2-1: VOWEL PHONEMES IN PHAKE**

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>i</td>
<td>u</td>
<td>u (ü)</td>
</tr>
<tr>
<td>e</td>
<td>ø</td>
<td>ø (ö)</td>
</tr>
<tr>
<td>e</td>
<td>ø</td>
<td>ø (ö)</td>
</tr>
<tr>
<td>a</td>
<td>aa</td>
<td></td>
</tr>
</tbody>
</table>

Both Banchob (1987) and Diller (1992) reported a regular process of diphthongization of the mid-low vowels before velar consonants.

4) /æ/ → [ai] / __ velar
   /o/ → [au] / __ velar

Other diphthongizations may be occurring among Phake speakers. Diller (1992: 17) notes that ‘the vowel -ø- in other non-final environments shows the same [-ø-] or [-wø-] variant noted by Harris for Khamti (1976: 120); there is most frequently a contiguous labial p or m: *kæp* [kæwp] ‘scoop’; *pæt* [pæwot] ‘to scrub’...’

In February 2002, the Phake informant Yehom Buragohain was recorded speaking the second of Diller’s examples. The word (*pæt* in Banchob’s system) seems to clearly show diphthongization, with a shift in the vowel shape at the end of the vowel, not at the beginning.
This word might better be phonetically expressed as [pɔət].

6.2.2.1. **Vowel merger in Aiton**

In terms of vowel quality there appear to be only six vowel contrasts in Aiton, with a seventh provided by the length distinction between /a/ and /aa/, as in Table 6.2.2.1-1:

**TABLE 6.2.2.1-1: VOWEL PHONEMES IN AITON**

<table>
<thead>
<tr>
<th></th>
<th>i</th>
<th>u</th>
<th>ɛ</th>
<th>a, aa</th>
</tr>
</thead>
</table>

The relation between Aiton and Phake vowels is shown in (5)

5) Phake [i,e] > Aiton [i]
Phake [ɛ] > Aiton [ɛ]
Phake [u,υ] > Aiton [u]
Phake [a,aa] > Aiton [a,aa]
Phake [u,o] > Aiton [u]
Phake [o] > Aiton [o]

The symbols <ɛ> and <o> have been chosen for the Aiton mid vowels rather than <e> and <o>, because <ɛ> and <o> in Aiton correspond with <ɛ> and <o> in Phake.

This merger of mid-open and open vowels is at least several generations old. It was clearly notated in Banchob’s manuscript *Aiton–English–Thai Dictionary*, as is shown in the following table:


<table>
<thead>
<tr>
<th>Aiton</th>
<th>Phake (Banchob 1987)</th>
<th>Putative proto form (after Li 1977)</th>
<th>Gloss</th>
</tr>
</thead>
<tbody>
<tr>
<td>cit₁</td>
<td>cēt₁</td>
<td>*cepD2</td>
<td>‘seven’</td>
</tr>
<tr>
<td>cip₁</td>
<td>cēp₁</td>
<td>*pi(i)kD2</td>
<td>‘wing’</td>
</tr>
<tr>
<td>pik₁</td>
<td>pik₁</td>
<td>*petD2</td>
<td>‘duck’</td>
</tr>
<tr>
<td>pit₁</td>
<td>pet₁</td>
<td>*petD2</td>
<td>‘duck’</td>
</tr>
<tr>
<td>bit₁</td>
<td>mit₁</td>
<td>*betD3</td>
<td>‘to twist’</td>
</tr>
<tr>
<td>bit₁</td>
<td>met₁</td>
<td>*betD3</td>
<td>‘fishhook’</td>
</tr>
<tr>
<td>cit²</td>
<td>cēt₄</td>
<td>*chetD4</td>
<td>‘to wipe’</td>
</tr>
</tbody>
</table>

There is also some orthographic evidence that the merger is much older. One early example of the merger of /e/ > /i/ in open syllables is provided in the *Treaty between the Aitons and the Turungs*, where the word cɐ jii³ ‘1st daughter’ is found. This word is ye³ in Phake. The manuscript was written about 1950 and was copied in the 1980s before it was damaged by insects. The vowel cɐ [ii] can still clearly be seen, even though the consonant has been eaten by ants.

6.2.2.2. **Possible reconstruction of Ahom vowel system**

Both in Ahom script and in the scripts used by the other Tai groups in Northeast India, only six vowels are distinguished in the orthography. As discussed above, in Tai Phake, there are clearly 9 vowels and thus the script underspecifies for the vowel contrasts. However, in Aiton,
there has been a merger of mid-open vowels and open vowels.

The underspecification of contrast in the script is particularly problematic with the marking of front vowels in open syllables. In Phake, where there are three contrastive front vowels, words like ye²³ ‘granary’ and me²³ ‘wife’ are written with initial soi¹ tho² (-), just as words with the rhyme /-e/ would be. The same symbol is used for both vowels. In Aiton, on the other hand, where /e/ and /i/ have merged, the words for ‘granary’ and ‘wife’ are written with luŋ¹ ki⁵ teŋ¹ (-) [ii].

The Aiton pattern is also found in Ahom, at least in the Bar Amra, where the word for ‘granary’ is written as yo (yii), as in (6):

6) yo cam baa phraalok
   yii PRT say granary (Assamese bɔral)

‘yii’ means ‘a granary’.

(Bar Amra, p 13 third line)

From this evidence, it is possible to draw the conclusion that the Ahom vowel system, at least in the final stages of the language, was the same as Aiton, given below in Table 6.2.2.2-1:

**TABLE 6.2.2.2-1: POSSIBLE VOWEL PHONEMES IN AHOM**

<table>
<thead>
<tr>
<th>i</th>
<th>u</th>
<th>a, (aa)</th>
</tr>
</thead>
</table>

In modern Aiton, there is a length contrast between /a/ and /aa/ in closed syllables. This contrast is not marked in the Aiton orthography. It is assumed that this contrast was present in Ahom.

6.2.3. Tones

The tonal system for Khamti has been discussed by Harris (1976) and Weidert (1977). The tonal systems for Phake, Khamyang and Aiton are presented below in the tables that follow:

6.2.3.1. Phake tones

Table 6.2.3.1-1 presents the Phake tones including an analysis of the contours, based on examples elicited from Ee Nyan Khet, a female speaker born in 1939. In this elicitation, all the tones were collected using the sequence [maa], except for tone 5, which was me⁵ ‘mother’. It is possible that as a result of me⁵ having a higher vowel than the other words elicited, the pitch of tone 5 is slightly higher than it would have been if a word with the rhyme [aa] had been recorded.

**TABLE 6.2.3.1-1: TONES IN PHAKE**

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>DL</th>
<th>DS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>6</td>
<td>1</td>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td>5</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Tone no. | contour (Hz) | key feature(s) | description
--- | --- | --- | ---
1 | 200-190 | level | mid to high level tone with slight final fall
2 | 225-250-150 | high level then falling | mid to high onset, with rise then sharp fall
3 | 160-120 | glottal constriction | mid falling or level tone with strong glottal constriction
4 | 175-125 | falling | mid to high onset with immediate sharp fall
5 | 180-160 | low | mid to low onset with slight gradual fall
6 | 220-200-275 | rising | low to mid onset with slight fall before sharp rise

In addition to these citation tones, there are other tones which occur in Phake in questions, commands and negative sentences. These are discussed below in Section 6.5.

6.2.3.2. Khamyang tones

The Khamyang tonal system has six tones with a different distribution from the six tones of the Phake. The tone box in Table 6.2.3.2-1 is based on an interview with Chaw Deben Chowlik.10 This tone box differs from the Phake, where A2-3 is merged with A4, and B4 is a separate tone. It also differs from Khamti where A1 is merged with B1-3.

**TABLE 6.2.3.2-1: TONES IN KHAMYANG**

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>DL</th>
<th>DS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>6</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>2</td>
<td>5</td>
<td>4</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

Tone 1 mid level with slight fall
2 high with a slight rise then falling
3 low, falling and glottalized
4 high with a slight rise then falling with glottal ending
5 low falling
6 level, with possible rise at the end

Of particular interest in the Khamyang tonal system is the contrast between the second and fourth tones. Both have identical contours, with the final glottal in Tone 4 being the only way of contrasting them. Because both tones have the same contour as the Phake second tone, Phake informants hear the Khamyang Tone 4 as the Phake Tone 2.

6.2.3.3. Aiton tones

Contemporary Aiton appears to have only three contrastive tones. In late 1999, the Aiton informant Bidya Thoumoung produced the following five tones:

10 I am very grateful to Jerrold Edmondson for discussing these tones with me.
TABLE 6.2.3.3-1: TONES PRODUCED BY BIDYA THOUMOUNG FOR AITON

1. mid/high level
2. high level then falling
3. mid falling
4. mid rising
5. mid falling glottalized

Subsequently a word-list of around 2000 items was collected from Bidya Thoumoung. It quickly became clear that there were only three contrastive tones, as shown in Table 6.2.3.3-2:

TABLE 6.2.3.3-2: AITON TONE BOX

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>DL</th>
<th>DS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1 (&amp;4)</td>
<td></td>
<td>3 (&amp;5)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Description of Tones:
1. mid/high level
2. high level then falling
3. mid falling
(4. mid rising)
(5. mid falling glottalized)

Eliciting the Aiton tonal system was not straightforward, unlike the Phake and Khamyang. This experience of difficulty with the Aiton tonal system was shared with Banchob Bandhumedha, in whose manuscript *Aiton–English–Thai Dictionary* there are no fewer than 10 tones marked. Some of these are clearly allotones, but it is also clear that Banchob never completed her analysis of Aiton tones.

Diller (1992: 18) reported two different systems for Aiton, one similar to Table 6.2.3.3-2 and the other somewhat similar to the Phake system as described in Table 6.2.3.1-1. Despite considerable effort, I have not been able to find any Aiton speaker who uses a tonal system like that reported by Diller and called Aiton2.

6.2.3.4. *Ahom* tones

Almost nothing is known of the original tonal system of the Ahoms. Grierson, having indicated that there should be tones in Ahom, adds:

‘Moreover, in the one word, the tones of which I have been able to ascertain, they differ from those of the Khâmî and Shân. This is the word mā, which, when it means ‘a horse, has in Āhom a long tone, and in Khâmî and abrupt tone, while mā, ‘a dog’, has in Āhom an abrupt tone, but in Khâmî and Shân a rising inflection.’ (1904: 90)

It would be most curious if this statement reflected the situation. The abrupt tone referred to is presumably a glottalized or creaky tone, a feature of words with C tones (such as the word for ‘horse’), but rarely if ever of A tones (such as the word for ‘dog’). Grierson gives no information about his source for this claim, and it must be treated with some caution.

The only recent attempt to reconstruct Ahom tones has been Weidert (1979), who compared the Shan, Standard Thai and Khamti tonal systems in order to make a reconstruction of the Ahom tonal system. I do not believe that his methodology was valid. First of all it fails to take into account the tonal systems of the other Tai languages remaining in Assam, the Aiton, Khamyang and Phake. Secondly, Weidert’s methodology gave equal weight to each of the three languages, even although Standard Thai is not part of the Shan group of languages and on linguistic grounds has been separated from Ahom for a long time.
Future attempts to reconstruct the original Ahom tone system might involve:

- Exploring foreign sources, particularly from China, which have data about the Ahom. It is likely that Chinese missions visited Assam over the centuries, and if they did, they may have collected some linguistic information about Ahom. Any recording of the Ahom language in Chinese would encode information about the Ahom tones.

- Comparing the tonal systems of the existing Tai languages of Assam and trying to explain how they came about. Existing tone systems in Assam are quite different from those in, for example, Shan state of Burma. This may be due to the influence of the Ahom.

6.3. NOTES ON THE MORPHOSYNTAX OF THE TAI LANGUAGES OF ASSAM

6.3.1. Morphology

In common with many languages of Southeast Asia, the Tai languages are isolating in structure and share a common propensity for monosyllabic morphemes (Edmondson and Solnit 1997: 7). Both ‘content words’ and ‘function words’ are generally expressed by such monosyllabic morphemes, as in (7):

7) hāl ne⁴ luk⁴ on¹ ne⁴ pe⁴ kûn¹ kâl trâ² ne⁴
   time DEF child DEF win RECIP GO case DEF
   ‘So the boy won the case.’
   (Phake Story, Story of the kum bird, told by Ee Nyan Khet)

As will be discussed below in section 6.4, some grammatical functions such as Tense, Aspect and Modality (TAM) are expressed by morphemes which while also functioning as independent words, sometimes behave like bound morphemes. This can be seen in example (7) with kâl ‘go’, which is here realized with initial consonant lenition as [ŋa¹], with assimilation to the previous nasal. In some cases where kâl follows a verb, the articulation of the two morphemes approaches that of a single phonological word. This initial consonant lenition is found only in Phake, and not in the other Tai varieties.

The Tai varieties in Assam are not exclusively isolating; nor is the vocabulary exclusively monosyllabic. Compounds are commonly formed, such as luk⁴ on¹ in (7), which is formed from two monosyllabic morphemes, luk⁴ ‘child’ and on¹ ‘small’. There are also polysyllabic morphemes which cannot be analysed as a compound of two monosyllables. Some of these arise due to borrowings from Burmese, Assamese and Pali/Sanskrit or due to reduction of initial syllables, so that in Phake the word for ‘brinjal’ (eggplant) is ma¹ khôⁿ⁶, from two Tai words maak¹ khôⁿ (fruit-brinjal).

Even clearer examples of non-isolating morphology are found with the use of changed tone in Phake to express negation, imperatives and questions, discussed below in section 6.5, a phenomenon which appears to be unique in the Tai-Kadai languages.

6.3.2. Syntactic structure

The Tai languages of Assam exhibit a basic constituent order of Subject Verb Object (SVO) as exemplified in (8):

8) kon² môⁿ² khau⁶ kâl¹ pam³ mai⁴ nan⁴ se⁶
   person city 3PL go fell tree that PRT
   ‘These city people went and cut that tree down.’
   (Phake Story, Story of the foolish king, told by Ee Nyan Khet)
Sentences with a different constituent order very frequently occur in Tai. Since the expression of noun phrases is not obligatory in any of these languages, if a participant has already been introduced, it is not necessary to express it either by a full noun phrase or by a pronoun. Therefore a sentence such as (9) would be as grammatical as (8), provided that the agent had already been introduced into the discourse.

9) \(\text{ka}^1 \text{pam}^3 \text{mai}^4 \text{nan}^4 \text{se}^6\)
   \(\text{go} \text{fell} \text{tree} \text{that} \text{PRT}\)
   ‘(They) cut that tree down.’

If there is only one noun phrase, there is a preference for this noun phrase to be expressed before the verb. In some cases, this would see a surface constituent order of OV realized. Even when two NPs are present, the object NP may be topicalized, leading to realizations of either SOV or OSV. This phenomenon, combined with the fact that these languages are spoken in an area where most of the other languages (Assamese and the various Tibeto-Burman languages) have fixed SOV constituent order, has led some scholars to propose that constituent order in the Tai languages is shifting towards SOV.

For example, Greenberg (1966: 109) listed Khamti, uniquely among the Tai family, as having a basic ‘word’ order of SOV, the norm for Tai being SVO. It appears that Greenberg’s observation was based on Grierson’s conclusions, which are themselves based on Needham’s General Rules of Syntax for Khamti (1894: 81), restated here:

**TABLE 6.3.2-1: GENERAL RULES OF SYNTAX FOR KHAMTI (NEEDHAM 1894: 81)**

| a) | The adjective follows the noun it qualifies |
| b) | Numerals sometimes precede, at others follow, the nouns they qualify. When a numeral particle is used, they invariably follow the noun they qualify. |
| c) | Demonstrative pronouns are generally placed immediately after the nouns they qualify, except in relative clauses when they may either be put at the beginning or at the end of the sentence. |
| d) | Relative clauses should stand before antecedent clauses |
| e) | Interrogative pronouns rarely ever stand first in a sentence. |
| f) | Adverbs are generally placed after a verb. |
| g) | Prepositions precede their nouns |
| h) | The order of words in a predicative sentence are (1) subject, (2) direct object, (3) indirect object, and (4) verb. In an interrogative sentence the order is (1) subject, (2) indirect object, (3) direct object, and (4) verb. |

Needham appears to have derived his General Rules of Syntax from elicited sentences. When Diller (1992) examined more closely the data in Needham (1894), he identified examples showing a wide range of constituent orders – with both OV and VO being represented – and concluded that ‘The general impression, especially from connected text, is of very “pragmatically” controlled configuration: issues such as topicality, specificness, and so forth, appear to play a crucial role on how sentence constituents are ordered’ (1992: 27).

On the other hand, Wilaiwan, who has undertaken fieldwork among the Khamti, reported that ‘SOV is the dominant word order in Kamti while in other known Tai dialects SOV is the dominant one. We may conclude that Kamti has developed from SVO to SOV’ (1986: 178).

My own limited fieldwork among the Khamti speakers in Assam and some from Arunachal Pradesh, has not confirmed Wilaiwan’s conclusion. When asked to provide a translation into
Khamti for ‘the tiger ate the deer’, the traditional Khamti chief Chaw Khamoon Gohain, immediately produced (10): 11

10) \( s^4 \, k^3 \, p^3 \)
\( s^4 \, k^3 \, p^3 \)
tiger bite barking deer
‘The tiger ate the barking deer.’

On further questioning, he stated that (11) could also be used – where the O argument is marked by a ‘postposition’ \( m^5 \).

11) \( s^4 \, p^3 \, m^5 \, k^3 \)
\( s^4 \, p^3 \, m^5 \, k^3 \)
tiger barking deer to bite
‘The tiger ate the barking deer.’

I was also able to record a small amount of text from Chaw Khamoon, and in those texts, most of the sentences did have the verb in final position, with the animate object marked with \( m^5 \). On the basis of this, we might tentatively conclude that SOV is possible in Khamti if the O is marked by the word \( m^5 \). Only further research, including the collection and analysis of substantial corpus of Khamti texts, will be able to further illuminate this issue.

All the Tai varieties in India show considerable variation in the ordering of the arguments around the verb. Nevertheless, it is at least arguable that SVO remains the basic word order. 12

There seems to be a preference that if there is only one noun phrase argument, with the exception of an NP incorporated with a verb, it will be placed before the verb. 13 In practise, therefore, sentences with objects are often not SVO. 14 A more detailed discussion of constituent order is found in Morey (in press).

The core arguments of a predication are expressed either as noun phrases or as prepositional phrases. Noun phrases are headed by nouns or pronouns, the former of which can be postmodified in a variety of ways, such as in example (12) which shows a noun modified by an adjective and example (13) which shows a noun modified by a possessor:

11 The tones are numbered after Harris (1976).
12 The late Aimya Khang Gohain, of the Tai Phake, insisted that these languages were SVO and made corrections to stories and other texts given to me by other villagers so that they reflected this proscription.
13 A good example of this is seen in the following sentence:

\( h^2 \, k^2 \, d^2 \, j^2 \, s^3 \, h^2 \, m^2 \, k^2 \, h^2 \, k^2 \)

or eat good FINISHED to mother also for eat

\( h^2 \, m^2 \, k^2 \, h^2 \, k^2 \)

to 3SG LINK GIVE eat

‘They fed them well, both his mother and him.’

(Aiton story, The twelve questions, told by Sa Cham Thoumoung)

14 Diller (1992: 20 fn44) wisely reminds us that ‘the question of a viable characterization of SUBJECT for Tai languages is not above theoretical interest, but here we must be content with ‘pretheoretic’ S, O, and so forth’. Diller’s advice will be followed in this chapter.
As mentioned earlier, some arguments are marked in prepositional phrases. Animate core
participants which are not agents (anti-agentive) are frequently found in prepositional phrases
marked by the preposition *haN2* 'to', as in (14).

14) *hā1 ne4 sā6 ne4 kāp4 tūn1 wōt4 haŋ2 mu5 ne4*
   time DEF tiger DEF bite all PRT to pig DEF
   ‘The tiger ate the pig up.’
   (Phake Story, *Story of deception*, told by Ee Nyan Khet)

The use of the prepositional phrase in (14) might be a type of non-obligatory case marking,
used both with objects and with indirect objects and sometimes with a subject when it is in the
role of experiencer. Pragmatic and discourse factors determine when it is used. This
‘preposition’ *haŋ2* and the Khamti postposition *mai5*, illustrated above in (11), appear to have
exactly the same function – the marking of animate non-agents.

Adjectives can also appear as the intransitive predicate, as in (15):

15) *pa1 saʊ6 ne4 sɔp1 phɛu6*
   girl DEF beautiful excessive
   ‘That girl was very beautiful.’
   (Phake Story, *Story of the foolish king*, told by Ee Nyan Khet)

Like other languages of the Tai-Kadai family, the Tai languages of Assam have classifiers for
counting most nouns. Several hundred specific classifiers have been recorded, but are very
infrequently encountered in texts or everyday conversation. The most common classifiers are
the general classifier *an2*, the classifier for person *ko* and the classifier for animals, *to*/*tuur2*.
Their use is exemplified in (16):

16) *muu1 haa3 tuu2*
   pig five CLF
   ‘Five Pigs’
   (Aiton sentence)

6.4. THE DEVELOPMENT OF BOUND TAM MARKERS IN TAI AITON

6.4.1. Areal influence on the Tai languages of Assam

Given that the Tai languages of Assam have been in close contact with languages of the
Tibeto-Burman family for many centuries, and more recently have come into contact with
some Indo-European languages, particularly Assamese, we might expect areal influence on the Tai languages. Furthermore, since the first arrival of Tai people in India in the thirteenth century, they have also become gradually separated from those who speak other languages of the Tai family.

Considerable word borrowing from both Burmese and Assamese is found among the Tai languages. Both Burmese and Assamese are much more widely spoken and more prestigious than the Tai varieties. On the other hand, there is very little borrowing from other Tibeto-Burman languages spoken in Northeast India, despite the Tais having been in contact with these groups for many years.

Syntactic change is also occurring in the Tai languages, with constituent order change and the apparently related phenomenon of the development of bound TAM markers discussed in this chapter.

Grierson (1904) was probably the first to explicitly suggest an origin of this influence. Basing his claims about Khamti on Needham (1894) and about Shan on Cushing (1888), he discussed constituent order (which he calls ‘order of words’), as follows:

In the different members of the Tai languages customs differ as to the order of words. ... Shan and Khamti appear to have been influenced by Tibeto-Burman languages in this respect. ... In Siamese, the order of words is as in English, subject, verb, object. ... In Shan the rule about the object following the verb is not imperative, whereas in Khamti (which at the present day stands isolated amid a sea of Tibeto-Burman languages), the order is as in them, subject, object, verb ...’ (1904: 75-6)

Diller (1992: 20-21) also discussed this, categorising the ‘shifting from what was undoubtedly original Tai S-V-O order to the “Brahmaputra areal” S-O-V order’ as being of ‘more than passing interest’.

However, as exemplified above in section 6.3.2, there is a considerable variation in the ordering of the core arguments in Khamti and in all the Tai varieties in Assam. Whilst it appears that this variation is an indication of a gradual shift to a verb final syntax, it would not be appropriate to describe these languages as having a fixed constituent order. One of the factors that influences constituent order appears to be the TAM marking described below.

6.4.2. Position of TAM markers in Tai languages

In all the Tai languages, there are TAM markers that precede the verb, such as Aiton ta’ ‘WILL’ and those that follow the verb. This section discusses only the TAM markers that follow the verb. In other languages of the Tai family, if the object is expressed, these TAM markers will be separated from the verb and placed utterance final, as in (17), an example from Standard Thai:

17) čhán súː khâːw máltː̀w
I buy rice COME-ALREADY
S Vt– O (–Vt)
(Standard Thai sentence, after Panupong 1970: 20)

This is called a discontinuous constituent by Panupong. She marked this constituent Vt– ... (–Vt), showing that there was a transitive verb (Vt) complex, interrupted by the object. Vichin adds that it is possible to antepose the object, thus making the discontinuous constituent ‘continuous’ (1970: 20).

We can typify the pattern of (17) in (18):

---

15 Burmese borrowing into Tai has yet to be comprehensively studied. It appears that a large proportion of the Burmese vocabulary in Tai are words borrowed and pronounced by the Tais according to the written Burmese form rather than the current standard Burmese pronunciation.
18) S \(\rightarrow\) V \(\rightarrow\) O \(\rightarrow\) TAM marker

If the object is topicalized, or elided for any reason, the TAM marked will end up immediately following the verb, leading to the patterns in (19) or (20) – where only (20) is possible in standard Thai:

19) S (O) V TAM marker

20) (O) S V TAM marker

Examples of both of these are found in Tai Aiton, as in (21), which is an example of (19), and (22), which is an example of (20). Both examples are from the same speaker and the same text.

21)
\begin{align*}
\text{lai}^3 & \quad \text{luk}^3 & \quad \text{laan}^1 & \quad \text{man}^2 & \quad \text{khau}^1 & \quad \text{man}^2 & \quad \text{cau}^3 \\
\text{so} & \quad \text{grandchild} & \quad 3SG & \quad 1PL & \quad 3SG & \quad \text{self} \\
\text{mun}^2 & \quad \text{sii}^1 & \quad \text{an}^2 & \quad \text{khuu}^2 & \quad \text{kaa}^1 & \\
\text{country} & \quad \text{four} & \quad \text{CLF} & \quad \text{build} & \quad \text{GO} \\
\end{align*}

’s Then his descendents, themselves, founded four countries.’

22)
\begin{align*}
\text{caa}^2 & \quad \text{man}^2 & \quad \text{ka}^3 & \quad \text{kun}^2 & \quad \text{sun}^1 & \quad \text{kun}^2 & \quad \text{mun}^2 \\
\text{to} & \quad 3SG & \quad \text{LINK} & \quad \text{person} & \quad \text{country} & \quad \text{person} & \quad \text{country} \\
\text{sot}^1 & \quad \text{phai}^2 & \quad \text{hau}^3 & \quad \text{kaa}^1 & \\
\text{burn} & \quad \text{fire} & \quad \text{GIVE} & \quad \text{GO} \\
\end{align*}

‘The countrymen burned his body.’

(Aiton Historical Manuscript read by Nang Wimala Thoumoung)

In both (21) and (22), \text{kaa}^1, a marker indicating that the event is past and gone, is adjacent to the main verb. This occurs because the objects, \text{mun}^2 \text{sii}^1 \text{an}^2 ‘four countries’ and \text{caa}^2 \text{man}^2 ‘him’ in (21) and (22) respectively, have been anteposed.

A further development is shown in (23), where the order of subject, verb and object is the common Tai SVO, but the TAM marker is no longer in final position, being now adjacent to the verb in the middle of the sentence.

23)
\begin{align*}
\text{man}^2 & \quad \text{aa}^3 & \quad \text{paak}^1 & \quad \text{noi}^3 & \quad \text{man}^2 & \quad \text{pai}^2 & \quad \text{kap}^3 & \quad \text{kaa}^1 \\
\text{3SG} & \quad \text{open} & \quad \text{mouth} & \quad \text{PRT} & \quad 3SG & \quad \text{go} & \quad \text{bite} & \quad \text{GO} \\
\text{kon}^3 & \quad \text{nui}^3 & \\
\text{piece} & \quad \text{meat} & \\
\end{align*}

‘He opened his mouth to grab that piece of meat.’

(Aiton Story, \textit{Story of the crow and the fox}, No. 56, told by Ong Cham.)

This sentence is of the pattern:
Diller (2001) has described seven different grammaticalized uses of *kaa1, which originally meant ‘to pass beyond’. Of these, describing the phenomenon we are observing here, he stated: ‘An extreme development ... is in the Assamese variety Aiton, where the item has become a postclitic on main verbs. The direct object, if any, follows.’

As a consequence of the frequent topicalization of objects, the verb is frequently observed adjacent to at least some of its TAM morphology. It appears that the speakers are in the process of reinterpreting this TAM morphology as being attached to the verb. In such a circumstance, a sentence such as (23) can then arise.

We will now examine the historical development of this phenomenon.

### 6.4.3. TAM markers in Tai Aiton

Table 6.4.3-1 lists seven Tense/Aspect/Mood markers frequently recorded in Aiton texts:

<table>
<thead>
<tr>
<th>Marker</th>
<th>Gloss</th>
<th>Grammaticalized meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>kaa1</td>
<td>GO</td>
<td>Marker of past time</td>
</tr>
<tr>
<td>maa2</td>
<td>COME</td>
<td>Marker of past time, used when the scope of the process indicated by the verb is in some way towards the speaker.16</td>
</tr>
<tr>
<td>wai3</td>
<td>KEEP</td>
<td>Marker of past time, used when the process indicated by the verb had or has some continuation.</td>
</tr>
<tr>
<td>ai3</td>
<td>PRT</td>
<td>Possibly a grammaticalized reduction of wai3 ‘KEEP’</td>
</tr>
<tr>
<td>3au3</td>
<td>FINISHED</td>
<td>Indicates that the process of the verb is complete, or that a section of the text has been completed</td>
</tr>
<tr>
<td>ta1, tak1, ti1</td>
<td>WILL</td>
<td>Marker of future action, or action which should be undertaken</td>
</tr>
<tr>
<td>nai3 / dai3</td>
<td>GET</td>
<td>In preverbal position, indicates that the process has been or will be accomplished</td>
</tr>
</tbody>
</table>

The interpretations assigned to each of these must be regarded as tentative. None of these words have been fully bleached of their original verbal meanings, except for ai3. In particular kaa1, maa2, wai3 and nai3/dai3 are all commonly found as full verbs in their original meaning.

As we shall see, the phenomenon of the attachment of the TAM morphology to the verb that is exhibited in (23) above is widespread in Aiton narrative texts. For the time being these morphemes will be described as TAM markers without attempting to further characterize them, and they will be glossed as in Table 6.4.3-1.

### 6.4.4. Development of bound TAM morphemes in Aiton narrative texts

The study of Aiton texts has allowed a degree of time depth in examination of this phenomenon. Three manuscripts will be compared below: a text which is perhaps 200 or more years old and which shows few signs of this phenomenon (see 4.4.1), a text which is perhaps 100 years old and shows some signs of the phenomenon (see 4.4.2), and a text which was probably complied within the last 50 years which shows marking on almost every sentence (see 4.4.3). These will then be compared with contemporary spoken practise (4.4.4).

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16 See, for example, Appendix 1, sentence 6.
6.4.4.1. The oldest historical Aiton MS: (ca. eighteenth/nineteenth century)

The *Creation of the World* is written on one side of a manuscript now kept in the village of Ban Lung (Bargaon), Karbi Anglong District, Assam. It is one of the oldest surviving Aiton manuscripts. On the reverse side of this manuscript, several later MSS are written, including the *Book of history (from) the time of the ancestor Chaw Tai Lung up until Sukapha*, which is discussed in 4.4.2.

The *Creation of the World* contains very few examples of the use of *kaa1*, either as a TAM marker or as a full verb. Example (25) is one case where it is arguably acting as a TAM marker.

25) \[\text{tgq} \text{kna} nM \text{likq} nM n \text{oj} / \text{taN1 kaa1 nam3 lik3 nam3 nqi1} \]
\[\text{all river small river small} \]
\[\text{hijq cjmq kaa1 cm3 y owq / hjN3 c*m2 kaa1 cm3 yau3} \]
\[\text{dry evaporate GO PRT FINISHED} \]

‘All the small rivers have dried up and evaporated.’

(*Creation of the World* No. 8)

This example suggests that the process by which *kaa1* is becoming a TAM marker began several centuries ago. This sentence is also important because it may give some clues as to where this process began. It is usually believed the Aitons came into Assam around 300 years ago from Burma; possibly bringing this manuscript with them, or at least bringing an older copy of it. If so, that would suggest that this innovation began before the Aitons had any contact with the Assamese language.

6.4.4.2. Late nineteenth century MS

The word *kaa1* is found rather more frequently in the *Book of history (from) the time of the ancestor Chau Tai Lung up until Sukapha* (Morey 1999b) which although written on the back of *The Creation of the World*, is in a different hand and was clearly written somewhat later.

Example (26) shows the use of *kaa1* immediately following the verb. It could be argued that this use of *kaa1* is a serial verb structure indicating direction, or that it is a sentence of the form of (23) above, an SVO sentence in which *kaa1* is a TAM marker directly adjacent to the verb. If it is the latter, it is the oldest example of such a sentence yet identified. It should be noted that the object of this sentence is a prepositional phrase. There is no example in the text of a sentence showing verb-*kaa1*-object NP:

26) \[\text{ygq c owqsJwqxnq wj nE t U ngq m Jgq k oj} / \text{YaN2 cau3 s*1 khan wai3 na*2 tuu2 naaN2 m*N2 kqi3} \]
\[\text{have Chaw Su Khan keep in body lady country PRT} \]
\[\text{yotqRfamokqxMnigq p okq ka tM m Jgq{fI y owq / Yqt3 phaa3 mqk1 kham2 njN2 pqk3 kaa1 tam2 m*N2 phii1 yau3} \]
\[\text{Yot Pha Mok Kham Naeng return GO to heaven FINISHED} \]

17 I was not able to establish the correct tones for several words in this sentence. The Tai script does not mark tone, so proper names are a particular problem, as their original meaning tends to get lost and several interpretations become possible.
‘At the time when Chaw Su Khan was still in the Queen’s womb, the God Yot Pha Mok Kham Naeng returned to heaven.’

(Book of history (from) the time of the ancestor Chaw Tai Lung up until Sukapha No. 22)

This example is important because it shows the particle $kaa^1$, as a TAM marker, directly following the verb, whereas the TAM particle $gau^1$, which marks completion, is utterance final.

However, in this particular text, the word $kaa^1$ is only found five times in a text that has 79 sentences and runs for four pages of manuscript. Several of the other examples show $kaa^1$ as a TAM marker, but its position is sentence final, as in (18) above:

27) $cau^4$ $su^1$ khan $phaa^3$ $can^2$ $tii^2$ $maa^2$

Chaw Su Khan Pha will come

$au^2$ $luk^3$ $caai^2$ $cau^3$ $su^1$ $gau^3$ $phaa^3$ $kaa^1$ $ho^1$

take son male Chaw Su Yot Pha GO PRT

‘Chaw Su Khan Pha came and took the son of Chaw Su Yot Pha.’

(Book of history (from) the time of the ancestor Chaw Tai Lung up until Sukapha No. 41)

One sentence in the text, here given as example (28), has not only the order of (23), but also gives indication as to the scope of the marker.

28) $ha^*^3$ $kaa^1$ $kin^2$ $tai^2$ $pqN^2$ $kqi^3$

give GO eat Tai Pong PRT

‘He was given Tai Pong (country) to rule.’

(Book of history (from) the time of the ancestor Chaw Tai Lung up until Sukapha No. 34)

This is not translated as ‘He was given Tai Pong and ruled it’, because it is the verb $haa^3$ which bears the TAM marking rather than the verb $kin^2$‘eat’ – here metaphorically extended to mean ‘rule’.

Perhaps at the time of the composition of this manuscript, only one verb in a sentence could carry this marker. In contrast, in (29), from a contemporary speaker, both $haa^3$ and the verb that follows it (a compound verb meaning ‘kill’, which Sa Cham Thounmoung mistakenly gave as $taai^2$ $au^2$‘die-take’ rather than the more usual $au^2$ $taai^3$) are marked by $kaa^1$.

29) $cit^1$ $wan^2$ $nai^3$ $khau^1$ $ma^1$ $dai^3$

seven day this $3PL$ NEG get

$hau^3$ $taai^2$ $au^2$ $kaa^1$ $gau^3$

give die take GO FINISHED

‘If they have not got (the answer) in these seven days, let them be killed.’

(Aiton Story, Story of the twelve questions No. 31, told by Sa Cham Thounmoung)

Further cross-linguistic examination of texts in the Tai languages across a range of time will be needed to add to our understanding of this phenomenon.
Mid twentieth century text

A further development of \textit{kaa\textsuperscript{1}} can be seen in a story told by Nang Wimala Thoumoung, who said of this story that:

\begin{verbatim}
30) puN\textsuperscript{1} an\textsuperscript{2} sa\textsuperscript{2} sii\textsuperscript{1} naan\textsuperscript{1} ko\textsuperscript{1} phaa\textsuperscript{3} lun\textsuperscript{1} kha\textsuperscript{2} wai\textsuperscript{3} kaa\textsuperscript{1} \\
story CLF nun Nang Koi Phalung tell KEEP GO
‘The nun Nang Koi Phalung told this story.’
\end{verbatim}

It is not known whether Nang Koi Phalung possessed a old manuscript of this history, or whether she learned the story from reading manuscripts or listening to other people. The version discussed here was read in January 2000 by Nang Wimala Thoumoung from a Tai language manuscript written in Assamese script. A copy of the MS, in Tai script, was made by Bidya Thoumoung and this was used as the basis for an analysis. The analysis was then rechecked with Nang Wimala in April 2001. She compared the version in Bidya Thoumoung’s MS with her own MS in Assamese script, and any differences were noted.

The first 15 lines of the text are reproduced in Appendix 1. In examining these sentences, and taking lines 1 & 2 as a single sentence, we can see that the main verb in each line is usually marked with some kind of TAM marker, as follows:

\begin{table}
\centering
\caption{Sentence Analysis in Nang Wimala’s Historical Story}
\begin{tabular}{|c|c|c|c|}
\hline
Line & TAM Marker & Example & Gloss & Translation \\
\hline
1-2 & kaa\textsuperscript{1} & hit\textsuperscript{1} kaa\textsuperscript{1} & make-GO & ‘made’ \\
\hline
3 & ta\textsuperscript{1} nai\textsuperscript{3} .... wai\textsuperscript{3} & ta\textsuperscript{1} nai\textsuperscript{3} pai\textsuperscript{2} khup\textsuperscript{1} paai\textsuperscript{3} wai\textsuperscript{3} & WILL-GET-go-kneel-pray-KEEP & ‘went to pray’ \\
\hline
4 & ai\textsuperscript{3} & khup\textsuperscript{1} paai\textsuperscript{3} ai\textsuperscript{3} & kneel-pray-PRT & ‘prayed’, ‘kept praying’ \\
\hline
5 & kaa\textsuperscript{1} & dut\textsuperscript{1} kaa\textsuperscript{1} & hot-GO & ‘was hot’, ‘became hot’ \\
\hline
6 & maa\textsuperscript{2} & nuu\textsuperscript{2} lem\textsuperscript{2} maa\textsuperscript{2} & look-see-COME & ‘looked towards’ \\
\hline
7 & maa\textsuperscript{2} & nuu\textsuperscript{2} han\textsuperscript{1} maa\textsuperscript{2} & look-see-COME & ‘saw’ \\
\hline
8 & kaa\textsuperscript{1} & h\textsuperscript{1} kaa\textsuperscript{1} & call-GO & ‘called’ \\
\hline
9 & kaa\textsuperscript{1} & h\textsuperscript{1} kaa\textsuperscript{1} & call-GO & ‘called’ \\
\hline
9.1 & maa\textsuperscript{2} & thin\textsuperscript{1} maa\textsuperscript{2} & send-COME & ‘sent’ \\
\hline
9.2 & kaa\textsuperscript{1} & khai\textsuperscript{2} sup\textsuperscript{1} khai\textsuperscript{2} khaam\textsuperscript{2} kaa\textsuperscript{1} & tell-mouth-tell-wor d-GO & ‘discussed’ \\
\hline
10 & maa\textsuperscript{2} .... wai\textsuperscript{3} & maa\textsuperscript{2} suN\textsuperscript{1} wai\textsuperscript{3} & COME-send-KEEP & ‘sent’ \\
\hline
10.1 & kaa\textsuperscript{1} & kaa\textsuperscript{1} khuu\textsuperscript{1} lai\textsuperscript{1} maa\textsuperscript{2} & erect ... COME & ‘erected (a ladder)’ \\
\hline
10.2 & maa\textsuperscript{2} & lun\textsuperscript{1} maa\textsuperscript{2} & down ... COME & ‘came down’ \\
\hline
11 & kaa\textsuperscript{1} & tan\textsuperscript{1} ... kaa\textsuperscript{1} & set up ... GO & ‘founded’ \\
\hline
12 & kaa\textsuperscript{1} & te\textsuperscript{1} ... kaa\textsuperscript{1} & make ... GO & ‘made’ \\
\hline
13 & kaa\textsuperscript{1} & tan\textsuperscript{1} ... kaa\textsuperscript{1} & set up ... GO & ‘founded’ \\
\hline
14 & kaa\textsuperscript{1} & kaan\textsuperscript{3} kaa\textsuperscript{1} laai\textsuperscript{1} kaa\textsuperscript{1} & wide-GO-many-GO & ‘increased’ \\
\hline
14.1 & wai\textsuperscript{3} & kha\textsuperscript{2} wai\textsuperscript{3} & tell-KEEP & ‘told’ \\
\hline
14.2 & kaa\textsuperscript{1} & pin\textsuperscript{2} kaa\textsuperscript{1} & be-GO & ‘was’ \\
\hline
15 & kaa\textsuperscript{1} & pin\textsuperscript{2} kaa\textsuperscript{1} & be-GO & ‘was’ \\
\hline
\end{tabular}
\end{table}
In every sentence in Table 6.4.4.3-1 except for those numbered (9.1), (11), (12), (14) and (15.1), the main verb is marked by either *kaa¹*, *maa²* or *wai²* immediately following the verb, following the patterns in (19), (20) or (23) above.

In (9.1) from Table 6.4.4.3-1, the nouns *sup¹* ‘mouth’ and *khaam²* ‘word’ are part of an elaborated four syllable expression. These two nouns are arguably behaving syntactically as if they were incorporated nouns, in which case the TAM marker would not be regarded as following the object.

In sentences (11) and (12) from Nang Wimala’s story, the direct object of the verb intervenes. Sentence (11) is here reproduced as (31):

```
31) a¹ luk³ p¹ nan³ kha¹ son¹ pii² nan³
    from there 2PL two elder younger

son¹ te¹ mun² kaa¹ tii² nan³
    two male make/begin country GO place that

Then those two brothers made a kingdom/country there.’
(Nang Wimala’s *Historical Story* No. 11)
```

It might be argued that this too is a case of object incorporation, where *te¹ mun²* is analysed as a single grammatical word, meaning ‘found a country’. However, example (32), from the same text, also has the object (and adjective) between the verb and *kaa¹*, and here it seems less likely to be an object incorporation meaning ‘to live tiger catch’. It must be added, however, that the question of how we establish what is clear incorporation and what is not still remains to be explored for the Tai varieties in India.

```
32) aai³ ton³ kha¹ seu¹ su¹ nip¹ dip¹ maa³
    Aiton 3PL catch tiger alive COME

The Aitons caught a live tiger.’
(Nang Wimala’s *Historical Story* No. 79)
```

The case of (14) from Nang Wimala’s story - here reprinted as (33) - is interesting. It is a negative sentence and perhaps indicates that there is some restriction on the use of these TAM particles with negatives, or alternatively some restriction on the use of TAM markers when there are final modal particles like *pe³* and *dai³* which mark ability.

```
33) nan¹ nai³ waa² kau³ paa³ hui¹ thu¹ kau³ mun¹ maa³
    like that say 9 basket seed bean 9 10000 pot

kha¹ kau³ pe² mai³ saañ² a¹n¹ p¹ pe³
    rice 9 bundle wood bamboo count NEG can

tak³ pa¹ dai³/nai³ phan² tai² san²
    count NEG get tribe Tai be

It was said that there were as many Tai people as nine baskets of seeds, ninety thousand pots of rice and nine bundles of bamboo, so many that they could not be counted in voice or on paper.’
(Nang Wimala’s *Historical Story* No. 14)
To summarize the TAM marking in this text, we can construct the following frame:

34) Subject (will) verb (TAM₁) (Object) (TAM₁) (TAM₂)

In (34), TAM₁ stands for those markers like kaa¹ ‘GO’, maa² ‘COME’ or war³ ‘KEEP’ that can stand either before or after the object, and TAM₂ stands for utterance final aspect markers like yau³ ‘FINISHED’.

Furthermore, as (35) below will show, it is not necessary to overtly mark time when a temporal adverbial is added.

6.4.4.4. Contemporary spoken texts

Having analysed Nang Wimala’s manuscript in some detail, an argument can be made out for the gradual development of almost obligatory marking of past time in narrative texts, using one of a number of (near-) bound morphemes, of which kaa¹ is the most frequent.

However, in a number of contemporary stories, we do not find this phenomenon as frequently as in Nang Wimala’s story.

Appendix 2 presents the first twelve lines of a text told by Ong Cham in January 1998. Following the methodology of Table 6.4.4.3-1 above, we will examine each sentence in turn. Sentence 1, which names the text, is omitted.

**TABLE 6.4.4.4-1: ANALYSIS OF SENTENCES IN ONG CHAM’S STORY OF THE CROW AND THE FOX**

<table>
<thead>
<tr>
<th>Line</th>
<th>TAM Marker</th>
<th>Example</th>
<th>Gloss</th>
<th>Translation</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>ta¹</td>
<td>ta¹ khai²</td>
<td>WILL-tell</td>
<td>‘will tell’</td>
</tr>
<tr>
<td>3</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>dai³</td>
<td>uųŋ¹ dai³ kin²</td>
<td>NEG-GET-eat</td>
<td>‘didn’t get to eat.’</td>
</tr>
<tr>
<td>5</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>kaa¹</td>
<td>pai² kaa¹</td>
<td>go-GO</td>
<td>‘went’</td>
</tr>
<tr>
<td>7</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>kaa¹</td>
<td>pai² ... kaa¹</td>
<td>go ... GO</td>
<td>‘went’</td>
</tr>
<tr>
<td>9</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>–</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>kaa¹</td>
<td>pai² thuŋ¹ kaa¹</td>
<td>go-reach-GO</td>
<td>‘went up to, reached’</td>
</tr>
</tbody>
</table>

A number of the sentences in Ong Cham’s story have the existential verb yaN² as the main verb. Although there are sentences recorded with this verb and the TAM markers under discussion, they seem to be less frequently found with the existential verb than with other verbs.

Ong Cham’s story also contains several negative sentences, such as (4) and several sentences like (5) – here reprinted as (35) – which are marked by temporal adverbs which indicate the time relationship, making the marking of past time redundant, although still possible and found in some other examples:

35) muŋ² zaam² nan³ kaa² an² uu¹ luk³ tii² tun³ mai³

‘At that time the crow was living in a tree.’

(Ong Cham’s Story of the crow and the fox No 5)
However, there are also sentences in Ong Cham’s story which have no TAM marking of any kind, and yet are clearly past time, such as (10) – here reprinted as (36).

36) \[ \underline{\text{3SG}} \] go \underline{\text{see}} \underline{\text{meat}} \underline{\text{CLF}}

‘She went to look at that meat!’

(Ong Cham’s Story of the crow and the fox No 10)

This sentence would also be acceptable with \( \underline{\text{kaa}} \) following the verb \( \underline{\text{han}} \) ‘see’, but Ong Cham chose not to use it. Clearly \( \underline{\text{kaa}} \) is not obligatory for marking past time in situations like this.

In some contemporary stories, the use of the TAM marker is somewhat more widespread. Example (37) consists of two sentences spoken by Sa Cham Thoumoung. They are part of a story in which two brothers go out hunting. The first shoots and misses, but the second gets his prey:

37.1) \[ \underline{\text{3SG}} \] go \underline{\text{NEG}} \underline{\text{touch}} \underline{\text{GO}}

‘He shot but didn’t hit it.’

37.2) \[ \underline{\text{3SG}} \] go \underline{\text{go}} \underline{\text{touch}} \underline{\text{GO}}

‘He shot and hit it.’

It was stated above in the discussion of (33) that it appeared that the time marking with \( \underline{\text{kaa}} \) might not apply when the sentence was negative. This however is not the case in (37.1) in which the second verb is clearly negative, and clearly marked with \( \underline{\text{kaa}} \).

6.4.4.5. Conversation

Conversation is even less likely to mark verbs in this way – even when past time is being talked about - because conversation relies much more on context. The various particles listed in Table 6.4.3-1 occur very infrequently in any of the conversations which have so far been analysed, at least in part because much of the text is in the present tense, and therefore unmarked by those particles; and much of what remains was negative.

However, whenever the future time was intended, the future particle \( \underline{\text{ti}} \) or \( \underline{\text{ta}} \) is obligatory.

The following is an exchange clearly in past time. It is an extract of a conversation\(^{18}\) between myself and Nabin Shyam Phalung:

Stephen Morey

38.1) Anthony Diller \[ \underline{\text{say}} \underline{\text{what}} \]

‘What did Anthony Diller say (about it)?’

\(^{18}\) The topic of the conversation is the difficulty of the tones in the Aiton Tai variety!
Example (38.2) is in three sections: in the first line, the verb is marked by ai³, a particle which appears to be a grammaticalization of wai³ ‘KEEP’. The second line is not marked by any TAM marker, and the last line, added as an afterthought, contains a temporal adverbial which clearly indicates past time, and incidentally contains a non-grammaticalized usage of kaa¹ in its full verbal meaning of ‘go’.

6.4.5. Is kaa¹ a past tense marker?

It has been shown that kaa¹ is widely used in Aiton narratives to indicate past time, but can it be called a past tense marker, given that Tai languages are usually categorized as not having tense marking?

Comrie (1985: 9) defined tense as a ‘grammaticalized expression of location in time’, and added that:

Indeed, given that no restrictions are placed by the definition on what kind of location in time is to be considered, it is probable that most of the world’s languages will turn out to have tense... (Comrie 1985: 9)

In discussing the difference between tense marking, that is grammaticalization, and lexicalization, he stated that ‘grammaticalization refers to integration into the grammatical system of a language, while lexicalization refers merely to integration into the lexicon of the language’ (1985: 10). Full grammaticalization requires two criteria, obligatory expression and morphological boundedness. As he concluded: ‘The clearest instances of grammaticalization satisfy both these criteria (they are obligatory and morphologically bound), the clearest instances of lexicalization satisfy neither, while there will be many borderline cases which the criteria do not assign unequivocally to grammaticalization or lexicalization’.

By this definition, kaa¹ is neither a clearly grammaticalized tense marker, nor a simple lexicalization. It is often bound to its verb, although not in all cases, and it is not obligatory, although it may be becoming obligatory, at least in narrative texts.

Foley (1986: 142) said of tense ‘Tense delimits the whole sentence by situating it in time with regard to the present moment of speaking: does it precede, overlap with or follow the moment of speaking?’ By this definition, in most of the cases seen above, such as examples (37.1) and (37.2), kaa¹ is behaving as a past tense marker.

However, as indicated in Table 6.4.3-1 above, kaa¹ is not the only morpheme that is arguably a past tense marker in Aiton. It can be supplanted by maa² ‘come’ if the action is referring towards the speaker or the place where the speaker is, as in (39.2).
39.2)  
\[
\begin{align*}
\text{mJnq cW n U lF ma m Jgqkgq} & \quad \text{3 SG RESP look look at COME the earth} \\
\text{\textquoteleft He looked (down) at the earth.\textquoteright}
\end{align*}
\]

39.3)  
\[
\begin{align*}
\text{nU hnq ma cWfa yW tgq k unq y Jgq} & \quad \text{look see COME king Yau all person country} \\
\text{\textquoteleft He saw that king Yau and all the people were praying for more people.\textquoteright}
\end{align*}
\]

There are several versions of this text. In one of these alternative versions, the manuscript written by Nang Wimala, the first three words of (39.3) are given as (40):

40)  
\[
\begin{align*}
\text{duu2 han1 maa2 cau3 phaa3 3auu2 tan1 kun2 suny3} & \quad \text{look see COME king Yau all person country} \\
\text{\textquoteleft He saw ...\textquoteright}
\end{align*}
\]

The use of \textit{kaa} here is not aspectual. There is a perfective aspect marker \textit{yau}/\textit{yau} in Phake and Aiton, which can co-occur with \textit{kaa} and \textit{maa}. However it would not be appropriate in (39) because the Lord Sikkya has not finished looking at the earth when the sentences are uttered. In (39) and (40), \textit{kaa} seems simply to mean that the action referred to was in the past.

Diller (1992: 24) categorized this morpheme as occurring ‘postverbally to indicate several time-related factors, most commonly past time or possibly perfective aspect ... In this function, articulation sometimes approaches postclitic status’. In the story printed as an appendix to his article, Diller glosses \textit{kaa} as ‘PAST’.

It should also be mentioned that the \textit{wai} ‘keep’ can be used in a similar position to both \textit{kaa} and \textit{maa}, that is either immediately after the verb or utterance finally. It appears to be used to mark past time, where there is some long or medium term result, as in (41):

41)  
\[
\begin{align*}
\text{yW h U mnq Anq pj xiNq wj n Jwq} & \quad \text{FINISHED head 3 SG CLF go hang KEEP above} \\
\text{\textquoteleft Then he hung the head (of Ngi Ra Ngi Reu Reu) on a very tall tree.\textquoteright} \\
\text{(Historical Manuscript read by Nang Wimala Thoumoung No. 60)}
\end{align*}
\]

Because of these other TAM markers, at least part of whose function is to mark past time, I have not glossed \textit{kaa} as ‘PAST’, but rather as ‘GO’, with the capitalization indicating that it is a grammaticalized morpheme. This word is not fully bleached of its original meaning, and so would be best not described as the Aiton past tense marker. It indicates that the action of the verb to which it is attached is gone. It may well develop into a fully grammaticalized and bound past tense marker.
6.4.6. Coda

It appears that Tai Aiton is quite far down the path towards the development of grammaticalized bound markers to express tense and aspect functions. It should not be surprising that these phenomena have been observed. They were noticed some time ago, as this quote from Grierson indicates:\footnote{Grierson’s note: ‘Most of the following is based on Conrady’s Eine indochinesische Causativ-Denominativ-Bildung und im Zusammenhang mit den Ton accenten.’}

It is a common belief that these isolating, monosyllabic, languages are examples of the infancy of speech. It is sometimes said that they are in the ‘radical’ stage, and that they may be expected to develop gradually into agglutinative and finally into synthetic tongues. So far, however, are they from being in their infancy, that the exact reverse is the case. They are languages in the last stage of decrepitude. That they will all pass, and that some of them are now passing, through the agglutinative stage, may be admitted, but they have been there before. These monosyllabic words are worn down polysyllables, and these polysyllables were formed, just as we see polysyllables formed at the present day in other languages, by prefixes and suffixes (1903: 69).

6.5. CHANGED TONE IN PHAKE

Although Tai Phake is closely related to, and largely mutually exclusive with, the Aiton, Khamti and Khamyang varieties, the speech of many Tai Phake informants exhibits a number of changed tones, most noticeably in interrogative, negative and imperative situations. These changed tones are rarely if ever observed in the speech of the other Tai communities.

6.5.1. The Tai Phake questioning tone

The standard way to ask a polar question in Tai Phake is to state the proposition, and then to add a particle \textit{nq} which questions the entire proposition, and which by itself is translated as ‘is it?’, as demonstrated in (42), which is literally ‘You have become a housewife, haven’t you?’

\begin{align*}
\text{màû}^2 & \quad \text{pen}^2 & \quad \text{hàn}^2 & \quad \text{kà}^1 & \quad \text{nà}^6 \\
2SG & \quad \text{be, become} & \quad \text{house} & \quad \text{GO} & \quad \text{PRT, QN} \\
\text{‘Are you married?’ (asked to a woman)}
\end{align*}

(Phake sentence elicited from the late Aimya Khang Gohain)

However, Banchob (1987) lists a number of common words, in which alteration of the tone to the rising or sixth tone would express a question. In example (43), the word \textit{ik} ‘more’, which is spoken with the first tone in its citation form, is spoken with the sixth tone in example (43):

\begin{align*}
\text{ta}^1 & \quad \text{au}^2 & \quad \text{ik}^6 \\
\text{WILL} & \quad \text{take} & \quad \text{more, QN} \\
\text{‘Will you take some more?’}
\end{align*}

(Banchob 1987: 433)

Banchob’s data was collected in the 1960s and 1970s. Today, many of the Phake informants use a special questioning tone on the last lexical item of the sentence. This questioning tone first rises and then falls, and here arbitrarily notated as $-7$.\footnote{Grierson’s note: ‘Most of the following is based on Conrady’s Eine indochinesische Causativ-Denominativ-Bildung und im Zusammenhang mit den Ton accenten.’}
44) mauk₁ kɔ₂ kau² sū̂₇ han⁷
   pipe salt 1SG 2PL see
   ‘Did you find my pipe of salt?’
   (Phake Story, Story of the dolphin, crow and mosquito No. 41, told by Aithown Che Chakap.)

Aithown Che explained that ‘generally when there is a question, this type of tone is found.’

Recordings of this tone have been analysed and compared with the second tone. The second tone is a high tone which rises slightly and then falls, whereas the questioning tone clearly rises and then falls, as shown in Table 6.5.1-1, the informant for which was a male speaker, Ai Chanta:

**TABLE 6.5.1-1: COMPARISON OF QUESTIONING TONE AND HIGH FALLING TONE IN PHAKE**

<table>
<thead>
<tr>
<th>Word</th>
<th>Tone</th>
<th>Frequency at start</th>
<th>Frequency at middle</th>
<th>Frequency at end</th>
</tr>
</thead>
<tbody>
<tr>
<td>kin²</td>
<td>high level falling</td>
<td>160Hz</td>
<td>160Hz</td>
<td>100Hz</td>
</tr>
<tr>
<td>kin⁷</td>
<td>rising falling</td>
<td>140Hz</td>
<td>180Hz</td>
<td>115Hz</td>
</tr>
</tbody>
</table>

Aithown Che gave further examples, such as (45), which was the question to which (46) was the answer:

45) sū̂₇ kin² sū̂₇
   ‘Are you eating?’
46) kau² kin² sū̂₁
   ‘I am eating.’
   (Phake Sentences, elicited from Ai Chanta)

As mentioned above, the questioning tone is found on the final lexical item of an utterance, regardless of its word class. Although it seems most often to be found with verbs, it can be found with nouns. Example (47) is a question that was asked when making a tour of a village and observing that an old house had been demolished and a new one was about to be erected:

47) han² nin⁷
   house earth
   ‘(Will it be) a house built on the ground?’
   (Phake Sentences, spoken by Ai Chanta.)

There seems to be some restriction on the use of the questioning tone. It is not used if the question particle nq₆ is used. The following two sentences were elicited from Ai Chanta:

---

20 Traditional Tai houses are built on stilts and called han² hāŋ³ in Phake. Many Tai people are now demolishing their traditional style houses and building brick houses at ground level. These are called han² nin².
The Tai-Kadai Languages

(48) pʰak¹ nai³ kin² nɪ⁷
vegetables/dishes this eat good.QN
‘Is this dish good to eat?’

(49) kɪn² nɪ² nq⁶
eat good PRT.QN
‘Is it good to eat?’

In (48), the questioning tone is found on the word nɪ² ‘good’, producing nɪ⁷, whereas in (49), because the question particle nq⁶ is present, the word maintains its citation tone.

The questioning tone may have arisen from the tone of the question particle, nq⁶, merging with the falling second tone of words like nɪ² to produce a rising falling tone. It appears that it is now generalising to words which were not originally second tone.

For a word that in citation form has the first tone, such as kǎ¹ ‘GO’, the questioning form is simply a rising tone, as in (50). In this case, because the tone on kǎ⁶ is identical to one of the citation tones, it will be marked as if it were one of those citation tones, a practice that will be followed whenever a changed tone corresponds to one of the citation tones:

(50) m̄ə n onq nɪ kǎn ma¹ nai⁴
2SG sleep good GO.QN today
‘Did you sleep well last night?’
(Phake sentence elicited from Ai Chanta)

The various tone combinations so far observed are summarized in Table 6.5.1-2:

**Table 6.5.1-2: The Questioning Tone in Phake**

<table>
<thead>
<tr>
<th>Word in Citation form</th>
<th>Question morpheme</th>
<th>Word in question form</th>
<th>Tone change process</th>
</tr>
</thead>
<tbody>
<tr>
<td>kin²</td>
<td>5</td>
<td>kin⁷</td>
<td>2 + 6 = 7</td>
</tr>
<tr>
<td>nɪ²</td>
<td>5</td>
<td>nɪ⁷</td>
<td>2 + 6 = 7</td>
</tr>
<tr>
<td>kə⁶</td>
<td>6</td>
<td>kə⁶</td>
<td>6</td>
</tr>
</tbody>
</table>

6.5.2. The Tai Phake negative tone

In addition to a questioning tone, Banchob (1987) also gives examples of a negative tone, which is also expressed with the sixth tone. One of her examples is given here as (51), to which an interlinear gloss has been added.

(51) m̄ə kə⁶ lə² lə²
NEG go.NEG PRT
‘Not to go at all.’
(Banchob 1987: 359)

21 The Tai word pʰak¹ literally means ‘vegetable’, but has come to mean the dishes that are eaten with rice. It can include meat dishes.
Diller (1992: 19) also discusses this phenomenon\(^{22}\), described as ‘a morphophonemic tone sandhi rule’, indicating that it operates on words with the second tone after ‘the preclitic negative marker [m-]’ but not after mau\(^1\).

This negative tone is common among the Phakes, as in (53), the answer to (52). In both sentences the verb \(kin^{2}\) ‘eat’ has an altered tone:

\[
\begin{align*}
\text{(52)} & & xW & \text{ta} & kinq & / & \text{khau}^{3} & \text{ta}^{1} & kin^{7} \\
& & \text{rice} & \text{will} & \text{eat} & \text{‘Will you eat rice?’}
\end{align*}
\]

\[
\begin{align*}
\text{(53)} & & \text{ma}^{1} & kinq & / & \text{ma}^{1} & \text{kin}^{6} \\
& & \text{NEG} & \text{eat.NEG} & \text{‘(I) won’t eat.’}
\end{align*}
\]

(Phake sentences elicited from Ai Chanta)

There appear to be some constraints on the use of this negative tone, just as there were on the questioning tone. It was not used in (54):

\[
\begin{align*}
\text{(54)} & & kau^{2} & \text{ma}^{1} & \text{pai}^{1} & kinq & / & \text{hau}^{2} & \text{ma}^{1} & \text{kin}^{2} \\
& & 1\text{SG} & \text{NEG} & \text{not yet} & \text{eat} & \text{‘I haven’t eaten yet.’}
\end{align*}
\]

(Phake sentence elicited from Ai Chanta)

There are two negatives words in (54) and it appears be that the negative tone can only be used immediately following the negative particle \(ma^{1}\). In (55), the modal verb \(khau^{3}\) ‘want’ intervenes and the negative tone cannot be used.

\[
\begin{align*}
\text{(55)} & & \text{ma}^{1} & \text{xE} & \text{AW} & / & \text{ma}^{1} & \text{khau}^{3} & \text{au}^{2} \\
& & \text{NEG} & \text{want} & \text{take} & \text{‘(I) don’t want to take (it).’}
\end{align*}
\]

(Phake sentence elicited from Yehom Buragohain)

The negative tone is also found very frequently in narratives, as in (56). The word for ‘wet’ is \(yam^{2}\) in citation form.

\[
\begin{align*}
\text{(56)} & & hau^{2} & \text{ta}^{1} & \text{ma}^{1} & \text{yam}^{6} & / & \text{hau}^{2} & \text{ta}^{1} & \text{ma}^{1} & \text{yam}^{6} \\
& & 1\text{PL} & \text{WILL} & \text{NEG} & \text{wet.NEG} & \text{say} & \text{like} & \text{this} & \text{‘We will not get wet’, he spoke like this.’}
\end{align*}
\]

(Phake Story, *The birth and early life of Chaw Mahosatha* No. 39, told by Ee Nyan Khet)

Although it is apparently an innovation in Tai Phake, in all of the examples discussed so far it is redundant, in that it seems never to occur without the negative particle \(ma^{1}\), or to carry any meaning that would be lost if it were not present. This is in contrast to the questioning tone, the absence of which in a sentence like (48) above would change the illocutionary force from an interrogative to a declarative sentence.

Example (57), spoken by Ngo Ong, a Phake speaker from Ningkam village, appears to show a semantic difference, where the negative tone is used only for the habitual negative in (57.2) and not when the action is non-habitual, as in (57.3).

\[\text{Example (57)}\]

\[
\begin{align*}
\text{(57.2)} & & \text{hau}^{2} & \text{ta}^{1} & \text{ma}^{1} & \text{yam}^{6} & / & \text{hau}^{2} & \text{ta}^{1} & \text{ma}^{1} & \text{yam}^{6} \\
& & 1\text{PL} & \text{WILL} & \text{NEG} & \text{wet.NEG} & \text{say} & \text{like} & \text{this} & \text{‘We will not get wet’, he spoke like this.’}
\end{align*}
\]

Although it is apparently an innovation in Tai Phake, in all of the examples discussed so far it is redundant, in that it seems never to occur without the negative particle \(ma^{1}\), or to carry any meaning that would be lost if it were not present. This is in contrast to the questioning tone, the absence of which in a sentence like (48) above would change the illocutionary force from an interrogative to a declarative sentence.

Example (57), spoken by Ngo Ong, a Phake speaker from Ningkam village, appears to show a semantic difference, where the negative tone is used only for the habitual negative in (57.2) and not when the action is non-habitual, as in (57.3).

---

\(^{22}\) In discussing Diller’s findings, I have used the tone numbering in Banchob (1987), to avoid confusion.
57.1) ma¹ kin⁶ ye⁴
NEG eat.NEG PRT
‘As to ma¹ kin⁶.'

57.2) kU5 wan2 kau2 ma1 kin6 nj4 ma1 kin6
every day 1SG NEG eat.NEG DEF NEG eat.NEG
‘(If I) don’t eat fish every day, I would say ma¹ kin⁶.’

57.3) mz5 nai4 kau2 vm1 kin2
today 1SG NEG eat
‘(If I didn’t eat) today, I would say vm1 kin².’

An alternative explanation would appear to be that the negative tone can only be used following the negative marker ma¹, and not when it follows the negative marker vm¹.

Ee Nyan Khet offered a different explanation for why the tone sometimes does not change. In the case of (58), the words were spoken in anger, and therefore the pronunciation was, as Ee Nyan Khet put it con² nüg⁵ h'ai⁵ 'a little strong.'

58) vm1 yaN2 luk4 mav2
NEG have child 2SG
‘You shouldn’t have our child!’

From (57) and (58), it is not clear whether the use of the negative marker ma¹ triggers the negative tone, whilst vm¹ does not, or whether the decision not to use a negative tone in (58) and (57.3) then leads to the use of the marker vm¹. Sometimes the negative tone is not spoken in oral texts, as the contrast between examples (59) and (60) indicates.

59) pU1 nai⁴ haü⁶
grandfather that NEG give.NEG
‘(But), the old man didn’t give (them) the food.’

60) pU1 nai⁴ ma1 haü³ wət⁴
grandfather this NEG give PRT
‘(and so) the old man did not give (them the food).’

In example (59), the negative tone is clearly present, whereas it was not in example (60), from the same text a few moments later. The negative tone is most frequently found with verbs that have the second (high falling) tone. Its generalization to use with words such as haü³, which has the third tone in citation, may be a process which is ongoing, and may explain why the negative tone is not used on all occasions.

The Phake negative tone is probably a fairly recent innovation among the Phake community. However there is one word for which tone alterations may occur not just among
the Phakes. The existential verb *yaN₂*‘have’ is realized as *nYaN₂* in Khamyang, but according to Deben Chowlik, it can be pronounced in Khamyang with both a questioning tone and a negative tone, just as in Phake. As discussed below in section 6.6, the Khamyangs are bidialectal and the tonal alteration on this word in Khamyang may be due to the influence of Phake, rather than an example of true Khamyang usage.

It is interesting to note, in the light of the fact that there is tonal variation on the word *yaN₂*, even in Khamyang, that this word can have both positive and negative meanings in written texts where tonal differences are not notated. In (61) it is negative, whereas in (62) it is positive:

61) ✶✶✶✶✶

62) ✶✶✶✶✶

6.5.3. The Tai Phake imperative tone

One further example of tone alteration has been observed. In Phake, as in Aiton (see above section 6.4, the verbs *kA¹*‘go’, *mA²*‘come’ and *wai⁴*‘keep’, can appear in postverbal or utterance final position as grammaticalized markers of past time.

In example (63), however, the word whose citation form is *kA¹* is pronounced with a different tone, and marks an imperative:

63) ✶✶✶✶✶

When translating this text, Aithown Che explained that each of the three TAM markers that could express past time (*kA¹*‘go’, *mA²*‘come’ and *wai⁴*‘keep’) also had an imperative form, spoken with a high short vowel and with a tone that exhibited glottal constriction and creaky voice. This tone will be marked *ka⁸* as in (63). None of these imperative markers is bleached of its original meaning and native speakers would gloss *ka⁸* as ‘go’.

The word *war⁸* is used in commands when the action will have some long term result, so that in (64), where a stepmother is commanding her stepdaughter to spin, the yarn thus spun will be kept and sold to feed the family. If, on the other hand, the words *pan¹ ka⁸* has been used, this implication would be absent.

64) ✶✶✶✶✶
When the action is towards the speaker, \textit{ma}^8 can be used as an imperative as in \textit{kin}^2 \textit{ma}^8 (eat-COME.IMP), which might be said to a child who was another location and would need to come towards the speaker to eat. The use of these imperative marks is even found with a first person singular agent, as in (65):

\begin{verbatim}
They may go roaming but I will need to finish.
\end{verbatim}

(Discussion of \textit{Rice Pounding Song}, by Ee Nyan het)

The usage of imperative particles is summarized in Table 6.5.3-1:

\begin{table}[h]
\centering
\caption{Imperative Markers in Phake and Aiton}
\begin{tabular}{|c|l|}
\hline
     & TAM$_2$ as markers of imperative \\
\hline
\textit{ka}$^8$ & General imperative marker \\
\hline
\textit{ma}$^8$ & Marker of imperative - used when the scope of the process indicated by the verb is in some way towards the speaker \\
\hline
\textit{wai}$^8$ & Marker of imperative, used when the process indicated by the verb is intended to have long term results. \\
\hline
\end{tabular}
\end{table}

An analogous process is also found with 1st person non-singular reference (Hortative). Here, the word \textit{sq}^8 ‘to persuade’ is recorded with the same short tone and a hortative meaning as in (66). Unlike the markers of imperative for second person, it is utterance initial. In this example it co-occurs with an imperative particle \textit{ta}$^4$, and with the 1st person plural pronoun.

\begin{verbatim}
Let us count the number of stars.
\end{verbatim}

(Phake Story, \textit{Story of deception}, told by Ee Nyan Khet)

Even when there is no 1st person plural pronoun and no imperative particle, \textit{sq}^8 has the same hortative meaning, as in (67):

\begin{verbatim}
Let’s go to the forest.
\end{verbatim}

(Phake Story, \textit{Story of the foolish king}, told by Ee Nyan Khet)

As far as I know, no other Tai languages of the southwestern group of the Tai family exhibit these characteristics which have been demonstrated for Phake.

6.6. BI-DIALECTALISM IN THE TAI KHAMYANG SPEECH COMMUNITY

As discussed above in section 6.1.2.3, the Khamyang variety of Tai is now only spoken in one remaining village, Pawaimukh, near Margherita in Tinsukia district, Assam. Pawaimukh is a small village on the Burhi Dihing River about seven miles downstream of Margherita, situated near a large bend in the river. The community has around 40 houses, stretched along a single road running more or less north-south. In the middle of the village is the Buddhist temple, in front of which is the small sand pagoda (kqng2 muu2 saai2), illustrated by Terwiel (1980: 123).
There are now no more than fifty older adults in Pawaimukh who speak Tai Khamyang as a mother tongue. They use the Tai language in communicating with each other, in certain religious and ritual circumstances, and when they come into contact with other Tai speaking people from one of the eight nearby Tai Phake villages, or from further afield. There has also been considerable intermarriage between the Khamyanges in Pawaimukh and the Phakes.

Only two of the villagers can read the Tai language. One of these, my principal informant Chaw Sa Myat Chowlik, was born around 1920. His enormous knowledge of Tai culture, literature, religion and ceremonies makes him one of the most important informants about the Tai in all Assam.

In addition to the older generation of full speakers, there is a middle generation of what may be described as semi-speakers. Their Tai language usage has not been thoroughly investigated.

Even children in Pawaimukh have some patchy knowledge of the Tai language. In early 2001 one teenage boy sang a Tai song for me, and although he did not know the meaning of the song, he knew it was Tai.

A meeting of the Khamyang elders was held in 2001, and a decision taken to actively promote the language in the village. By early 2002, Chaw Sa Myat’s brother, Chaw Mihingta Chowlik, had begun teaching the Tai language to the younger children in Pawaimukh village. Every evening after school, primary school age children would gather to practise writing – which Chaw Mihingta is himself learning – and Tai vocabulary, as well as some simple Tai dialogues that Chaw Mihingta has written. Some of these children can now communicate in simple Tai sentences and in March 2002 they practised their Tai with me.

Over several years, covering several field trips to Pawaimukh, I have recorded a significant amount of the speech of Chaw Sa Myat Chowlik. Although an excellent informant, he is not easily able to assist with the work of transcribing and analysing those texts.

For this task, I have worked with Chaw Deben Chowlik, otherwise known as Chaw Kyun, who was born around 1940 and never learned to read Tai, although he is fully proficient in reading Assamese and also knows some English. His spoken forms are quite distinct from Phake forms, and he claims that they represent a more ‘authentic’ Khamyang.

When analysing some of Chaw Sa Myat’s texts, Chaw Deben often pointed out that Chaw Sa Myat was actually speaking Phake to me, rather than Khamyang. A good example of this is (68), where Chaw Sa Myat actually spoke line (68.1) with Phake phonology and then repeated it as (68.2) with Khamyang phonology:

68.1) cau³ kha⁶ ye⁴ thaw³ ta¹ kā¹ nai³
RESP 3PL PRT where WILL go get
‘His father said: “Where will you get (them)?”

68.2) thaw³ ti¹ kaa¹ lai³
where WILL go get
‘Where will you get it?’
(Khamyang story, Story of the child and the king, Nos. 8 & 9, told by Sa Myat Chowlik)

The differences between the two relate to the pronunciation of the tones and the use of initial /l/ in (68.2), for the reflex of proto Southwestern Tai u⁹d and u⁹dl which is always /n/.

23 As an indication of the extent to which Pawaimukh is regarded as part of the Phake, in January 2000, I was presented by the Tai Phakes with a document listing all the Phake villages, and Pawaimukh was included as one of them.
in Phake, but is often /l/ in Khamyang. In addition, in the word *thau5 ‘where’, there is a full realization of [ut], the second element of the diphthong, in Phake, whereas [ut] is hardly audible in the Khamyang pronunciation. These phonological features seem to mark out the Khamyang from the Phake.

The differences in the distribution of /b/, /l/ and /m/ in the Khamyang as spoken by Chaw Deben and other Tai varieties are shown in Table 6.6-1:

**TABLE 6.6-1: COMPARISON OF KHAMYANG INITIAL /b/, /l/ AND /m/**

<table>
<thead>
<tr>
<th>English</th>
<th>Khambay (Banchob 1987)</th>
<th>Aiton (Morey 2005)</th>
<th>Khamti (Harris 1976)</th>
<th>proto initial</th>
</tr>
</thead>
<tbody>
<tr>
<td>good</td>
<td>lii⁵</td>
<td>dii²</td>
<td>ni¹</td>
<td>*?d</td>
</tr>
<tr>
<td>star</td>
<td>laau⁵</td>
<td>daau²</td>
<td>naaw¹</td>
<td>*?dl</td>
</tr>
<tr>
<td>cold</td>
<td>laau⁶</td>
<td>naau¹</td>
<td>naaw⁴</td>
<td>*hn</td>
</tr>
<tr>
<td>speak</td>
<td>baa⁵</td>
<td>waa²</td>
<td>wi⁴</td>
<td>*hw</td>
</tr>
<tr>
<td>comb</td>
<td>bii⁶</td>
<td>wii¹</td>
<td>wii²</td>
<td>*w</td>
</tr>
<tr>
<td>shoulder</td>
<td>maa¹</td>
<td>baa¹</td>
<td></td>
<td>*?b</td>
</tr>
<tr>
<td>village</td>
<td>maan³</td>
<td>baan³</td>
<td>maan⁵</td>
<td>*?b</td>
</tr>
</tbody>
</table>

The use of initial /b/, rather than /w/ for the words listed in Table 6.6-1 and presumably for all words with reflexes of initial *w and *hw in proto Southwestern Tai, follows the patterns which have been reconstructed for Ahom (see Diller 1992: 14 fn).

However, Deben Chowlik appears the only Tai Khamyang informant who regularly uses [b] for the initial consonant in these words. Other Khamyang informants pronounce this consonant as [w], which is the form found in Tai Phake. It is not clear whether Deben Chowlik’s use of [b] represents original Khamyang speech standards from the time when the language was more widely spoken, or whether it is an idiosyncratic usage.

Significantly, Grierson (1904: 179) noticed that in Nora, which is usually supposed to be the same as Khamyang, ‘the letter w is sometimes ba, but more usually wa.’

If this use of [b] is indeed preserving the original Khamyang pronunciation, then this seems to be a case of bi-dialectalism, where Khamyang speakers use both the Khamyang [b] and Phake [w] for the reflexes of initial *w and *hw.

The use of initial /l/ for words which are reflexes of initial *d in Proto Southwestern Tai, is similar to that found in modern Shan. However there are a number of words which are now pronounced with initial [l] in Khamyang that had initial *n in Proto Southwestern Tai, such as *laau⁶ ‘cold’. The present situation among the Khamyang seems to be that most words whose initial consonants are reflexes of either initial *d or initial *n, can be realized with either initial /l/ or initial /n/, in relatively free variation. On the other hand, there is no evidence that words whose initial consonants are reflexes of *l are pronounced with initials other than /l/.

Both this usage of initial /b/ and initial /l/ is under pressure in the Khamyang village from the Phake norm to use /w/ and /n/ respectively. Chaw Sa Myat Chowlik often uses /w/ and /n/, following the Phake pattern, even when he is using Khamyang tones.

Recently, some recordings of Tai Khamyang speakers made in the 1960s by Dr Banchob Bandhumedha have come to light. Banchob’s informant was Chaw Kyen Chowlik, and he read a list of words, the initial consonants of which are reflexes of proto *d, including [naau⁵] ‘star’, [naii³] ‘hill’ and [dæn⁵] ‘red’. This use of initial [d] is more typical of Aiton phonology than Phake or Khamyang. It is not yet clear what the status of this material is.

A second feature of Khamyang speech is vowel reduction, found frequently in the speech of Chaw Deben Chowlik, particularly with grammatical words. For example, the word (/luk⁴/ in Phake) ‘from’ is pronounced by him as [luk], and is distinguished from the word for ‘child’, (also /luk⁷/ in Phake). These two were analysed for their formant structure, and this is reported in Table 6.6-2:
TABLE 6.6-2: VOWEL REDUCTION/CENTRALIZATION IN KHAMYANG

<table>
<thead>
<tr>
<th>Khamyang word</th>
<th>Gloss</th>
<th>1st formant</th>
<th>2nd formant</th>
<th>phonetic</th>
</tr>
</thead>
<tbody>
<tr>
<td>luk⁴</td>
<td>from</td>
<td>400</td>
<td>1600</td>
<td>[ŋ], [y]</td>
</tr>
<tr>
<td>luk⁴</td>
<td>child</td>
<td>380</td>
<td>1000</td>
<td>[ŋ]</td>
</tr>
</tbody>
</table>

Centralizations have been observed in Phake on words such as haj² ‘to’, and other very frequent grammatical words, so much so that the Phakes are now writing these words as if they had the vowel [ʊ]. It is unlikely that we will ever find the word luk⁴ ‘from’ written ʃtʃɛ (1 - uu - k - final consonant) in Khamyang, because Chaw Sa Myat would follow the traditional spelling and there is no younger generation of people literate in Khamyang to set new norms.

There is also a process of reduction of the second member of the diphthong /a*/. The latter was already commented above in the speech of Chaw Sa Myat (see above example (68)), and is one of the more noticeable differences between Phake and Khamyang.

The words thau⁶ ‘where’ and hau² ‘give’ occur quite frequently but in each case the final /u/ is barely audible. This could be notated phonetically as [aa]. This is so striking that a casual observer might initially hear the vowels as simply [aa], particularly in comparison with Phake where the final /u/ is so clear.

In addition to these phonological features of Khamyang, there are also grammatical features of Chaw Deben’s speech that are not found in Phake. In April 2001, I elicited the following sentence from him:

69) luk⁴ thau⁶ maan²(1)
    from where come.?
    ‘Where have you come from?’

In (69), there is an affix /-ŋ/ attached to the word maan² ‘come’. The tone shape of the word is not the same as when the word ‘come’ appears in citation form. It is somewhat longer and may be a combination of the tone shape of tone 2 and tone 1, here notated as -2 (1). Table 6.6-3 compares the tones of the citation forms of tone 1 and 2 with the tone on maan².

TABLE 6.6-3: COMPARISON OF KHAMYANG TONES

<table>
<thead>
<tr>
<th></th>
<th>Hz at commencement</th>
<th>Hz at highest point</th>
<th>Hz at end of word</th>
<th>contour</th>
<th>length</th>
</tr>
</thead>
<tbody>
<tr>
<td>tone 2</td>
<td>180Hz</td>
<td>210Hz</td>
<td>110Hz</td>
<td>falling then rising</td>
<td>0.42”</td>
</tr>
<tr>
<td>tone 1</td>
<td>140Hz</td>
<td>140Hz</td>
<td>120Hz</td>
<td>level then falling</td>
<td>0.49”</td>
</tr>
<tr>
<td>the tone on maan²(1)</td>
<td>170Hz</td>
<td>200Hz</td>
<td>150Hz</td>
<td>rising then slowly falling</td>
<td>0.86”</td>
</tr>
</tbody>
</table>

24 These are often treated as final offglides -w, -y, -u. As Diller (1992: 16) points out, ‘an alternative diphthong treatment’ is possible. The phenomena being reported here would seem to support the diphthong hypothesis, at least synchronically.
At first, it seemed that this /-ŋ/ suffix may be a kind of questioning particle, but example (70) makes it clear that it is not.

\[
\begin{align*}
\text{70) } & \text{ u}2 \text{ kau}2 \text{ uu}1 \text{ liiŋ}5 \\
& \text{Yes 1SG stay good} \\
& \text{‘Yes, I am well.’}
\end{align*}
\]

Since Deben Chowlik does not know how to write Tai script, it was not possible to ask him how to write this, and, hence to establish whether final /-ŋ/ would be present in writing. However, Chaw Cha Seng, who also knows Tai script, was present when this was done and wrote ဗကွဲ့ ဗ ဗ ဗ. This does suggest that the final /-ŋ/ is present. Unfortunately it has not yet been possible to categorize this final /-ŋ/ accurately, although it does appear to be some sort of bound morpheme.

Another feature of the Khamyang speech, as exhibited by Deben Chowlik, is the merging of two words into a single syllable, especially when the second word is a grammatical one. This is illustrated in (71), where the words \(m\&^5\) ‘time’ and \(n\&^4\) ‘that’ are merged to be \(m\&n^4\), whilst the words \(k\&^4\) ‘CLF-persons’ and \(l\&^5\) ‘one’ are merged to become \(k\&N^4\).

\[
\begin{align*}
\text{71) } & \text{ m\&n}4 \text{ cau}3 \text{ phaa}4 \text{ k\&n}4 \text{ \&n}5 \text{ bai}4 \\
& \text{time-that king CLF-one have KEEP} \\
& \text{‘At that time there was a king.’} \\
& \text{(Khamyang story, The hunter’s parrot No. 1, told by Deben Chowlik)}
\end{align*}
\]

In both cases the very prominent fourth tone (high rising then falling with glottal final) is adopted by the whole merged word, overtaking the fifth tone (mid level then falling).

Several other merged words of this type were observed, making the transcription and translation of a text very difficult without the informant being present.

These various phonological and syntactic features mark Khamyang as a distinct linguistic variety, one that would be called dialect if mutual intelligibility were the criteria for determining the boundary between language and dialect.

However, many and perhaps most Khamyang speakers do not use these Khamyang norms, at least not with me. All Tai Khamyang speakers are at least bi-dialectal. Several people informed me that it was necessary for them to converge to the speech standards of other Tais when talking to Phake or Khamti speakers, because Khamyang would be difficult for other Tai speakers to understand. That they are able to do this can be seen in examples (68) above and (72) below. Most of the Khanyangs also use what they regard as Phake when speaking to me, because they perceive that I am more competent in Phake than Khamyang. This has made the collection of data on Khamyang more difficult than the other Tai varieties. The exception is Chaw Deben Chowlik who has worked very hard to provide ‘authentic’ Khamyang forms.

This use of Phake standards by Khamyang speakers extends to the use of Phake consonant and vowel phonology (see (68) above), and, less commonly, Phake tones. In example (72), the sentence is repeated, first in Phake and then in Khamyang.

\[
\begin{align*}
\text{72) } & \text{ khau}3 \text{ kin}2 \text{ n\&}4 \text{ khau}3 \text{ kin}5 \text{ lv}4 \\
& \text{want eat meat want eat meat} \\
& \text{‘Want to eat meat.’} \\
& \text{(Khamyang Story, Of children and kings, told by Sa Myat Chowlik)}
\end{align*}
\]

In Phake, the word for ‘eat’ is pronounced with a high rising then falling tone (Tone 2), whereas in Khamyang it is pronounced with a mid level then falling tone (Tone 5). The word for ‘meat’ is on a mid falling tone in Phake (Tone 4), but on a high rising then falling tone with glottal final in Khamyang (Tone 4). Tone 4 in Khamyang has almost exactly the same
contour as tone 2 in Phake, but with a final glottal constriction. The effect is that the tone on ‘eat’ in Phake is higher than that on ‘meat’, but the reverse is true in Khamyang.

In March 2002 several texts collected in previous years were checked through by Deben Chowlik. When listening to Chaw Sa Myat speak on tape, Deben Chowlik gave what he regarded as ‘pure Khamyang’ version for every Phake-ism.

Subsequent to my field research in Pawaimukh, tapes of the Khamyang were played to Phake and Aiton speakers, who commented that whilst understanding the language, it was clearly different from their own varieties and not entirely straightforward.

Unfortunately, this unique speech of the Khamyang is being lost. Only a small fraction of the speech norms, literature and culture has so far been recorded. It is hoped that this will progressively be analysed and made available to scholars.

As mentioned several times above, one of the interesting issues in the analysis of the Tai varieties of Northeast India is constituent order. Sentences with fronted objects are common, but various other constituent orders are possible, such as V-S.

This latter order is exemplified in (73) below, where it is the forgetting of the Khamyang variety by younger people that Chaw Deben wants to stress, and so the verb appears before the subject of the sentence. This example is presented both for its grammatical interest, and also for the message that its content conveys about the future of the Tai Khamyang language:

73) nan⁴ ko¹ lum² can¹ nai³ luk⁴ ne⁴ khau⁶
moreover forget now child DEF 3SG

luk⁶ on¹ khau⁶ unŋ¹ taan³ haa⁶ aa⁴
child 3PL NEG speak disappear PRT(GO)

‘Moreover, they’ve forgotten, those children now, (because) those children can’t speak (Khamyang), it’s all gone.’

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APPENDIX 1

History of the Aiton, told by Nang Wimala Thoumoung, reading from a manuscript copied from the nun Nang Koi Phalung.

This story was initially told by Nang Wimala in January 2000. It was transcribed into Tai script by Bidya Thoumoung and translated by Stephen Morey on return to Australia. This transcription forms the basis of the following analysis. The translation was checked together with Nang Wimala in April 2001, and compared with her own copy of the manuscript, which in Tai language but using Assamese script.

There are thus three versions of the text, that in Bidya Thoumoung’s manuscript, that in Nang Wimala’s manuscript and the reading recorded in January 2000. Some of the lines differ from one version to the next. These alternate versions have been presented below.

1) a1 khiN1 l*N2 cau3 phaa3 yaau2
   ‘At one time there was a king (called) Yau.’

2) man2 cau3 wi3 nj2 an2 l*N2 hit1 kaa1 tii2 m*N2 khau1
   3SG RESP Vinaya* CLF one make GO at city/country 3PL
   ‘He was a just ruler who founded the country.’

3) lai3 pu2 nai3 cau3 phaa3 cau3 phoi3 kup1 tan1 kun2 sun3
   therefore king EUPH with person country

   kun2 mun2 tii2 dai3 tau1 san3 nai3
   person city at hill Tau San this
The Tai-Kadai Languages

The king, together with all the people of the country, went to Mount Tau San in order to pray to the great spirit who had made the world.

Thus king big kneel pray

So the great king (and his people) prayed.

One day, the throne of Lord Sikkya was very hot.

He looked (down) at the earth.

He saw that king Yau and all the people were praying for more people.

So Lord Sikkya called to grandmother Singpha.
9) khai sup khai khaam kan kaa noi hen kaa
tell mouth tell word RECIP GO PRT* call GO

laan caai man son ko thin maa mun kaang
grandchild male 3SG two CLF send COME earth

'They discussed together and then called their two grandchildren and sent them to earth.'

Notes: * Nang Wi translated kaa as 'afterwards'. Nang Wi stated that in her MS, the first words were mun sup mun khaam 'speak-mouth-speak-word'. mun is a word only used in written language version.

On the recording, Nang Wimala read the following two lines:

9.1) yW Aj xj s upq xj x oM knq ka /
Yau3 ai3 khai sup khai khaam kan kaa
FINISHED PRT tell mouth tell word RECIP GO

'When he had done that they iscussed together.'

9.2) xj s upq xj x oM knq h ogq ka /
khai sup khai khaam Yau hqN kaa
laan caai man son ko
grandchild male 3SG two CLF

After discussing he called his two grandsons.'

10) yaa sin phaa kaa kuu lai son kuu lai kham
grandmother Singpha erect ladder diamond ladder gold

noi maa sun wai tii mun hu mun ham
PRT COME send keep to Muang Heu Muang Ham

'Grandmother Singpha erected a diamond and golden ladder and sent them to Muang Heu Muang Ham.'

On the recording, Nang Wimala said:

10.1) yaa sin phaa kaa kuu lai son kuu lai kham
grandmother HESIT grandmother Singpha erect HESIT say

kaai kuu lai maa lun maa dqi tau san
erect ladder COME down COME mountain Tau San

'Grandmother Singpha set up a ladder for them to come down to Mount Tau San.'

10.2) luk dqi tau san maa zau
from mountain Tau San down COME finished
11) From Mount Tau San they came down and founded Muang Heu Muang Ham.

12) ‘After that, those two brothers made a kingdom/country there.’

13) ‘Then the elder brother founded (his) kingdom at Muang Kheu Muang Yaau.’

Notes: * Nang Wi stated that \textit{kgqkaljka} \textit{kaaN3 kaa1 laai1 kaa1} means ‘increase in numbers’, and that \textit{aan1} \textit{aan1} means ‘count with the mouth’ and \textit{tkq} \textit{tak3} means ‘count with writing’.

14) ‘It was said that there were as many Tai people as nine baskets of seeds, ninety thousand pots of rice and nine bundles of bamboo, so many that they could not be counted in voice or on paper.’
On the recording, Nang Wimala said:

14.1) eAhgq Anq yas I ng1k oj xj wj x oM eka
j1 haN1 an2 Yaa2 sii1 naaN2 kqi3 khai2 wai3 khaam2 kq3
HESIT PRT nun Nang Koi tell KEEP word LINK

un1 cau2 na1 kau2 mat3
NEG be QN 1SG remember

‘The nun Nang Koi told these words, and isn’t it so that I remember them.’

14.2) phan2 tai2 pin2 kaa1 kau3 pa3 hui1 thu1 kau3 mun1 ma3
tribe Tai be GO 9 basket seed bean 9 10000 pot

khau3 kau3 pe2 mai1 saan2 aai3 pa1 pe3 tak3 pa1 dai3
rice 9 bundle wood bamboo count NEG can count NEG get

‘There were as many Tai people as nine baskets of seeds, ninety thousand pots of rice and nine bundles of bamboo, so many that they could not be counted in voice or on paper.’

15) nau2 muk3 nan3 aai3 ton2 pin2 kaa1 phan2 aai3
in gather that Aiton be GO tribe 1st son

khun1 lun1 luk3 caai2 man2 kq3 aai3
prince big child male 3SG CLF 1st son

‘In that group, the Aitons were of the first son, (because) Khun Lung was the first son.’

16) khun1 lai1 nii2
Khun Lai 2nd son
‘And Khun Lai was the second son.’

APPENDIX 2

The Story of the crow and the fox, told by Ong Cham on October 1, 1998, Bargoan Village (baan3 lun1), Karbi Anglong District, Assam; translated into English with the help of Chaw Sangea Phalung.

1) an2 luunj2 pun1 an2 luunj2
CLF one story CLF one
‘A Story’

2) ta1 khai2 khaam2 aai3 ton2 tai2 aai3 ton2 pun1 aai3 ton2
WILL tell word Aiton Tai Aiton story Aiton
‘I will tell an Aiton story.’
There was a crow living in the forest.

Note: * This is probably a merging of a final unstressed *nan* with *an*.

One day she was hungry, and she didn’t get to eat anything.

At that time the crow was living in a tree.

Notes: * these two words are spoken so quickly together that it sounds like [kaan].

She went out and saw some smoke.

Someone was making a fire.

Then she went near to the fire.

She saw that the hunters had got a deer, and were slicing it up.

She went to look at that meat!

She wanted to eat and her saliva was running.
Then, she approached close to the hunters.
CHAPTER SEVEN

THE LUE LANGUAGE

John F. Hartmann

7.1. LUE AND NEIGHBOURING DIALECTS

Lue is one of the dialects of the Tai language family, which in its totality stretches from the island of Hainan, through much of the north of Vietnam and areas of southern China (chiefly Guangxi, Guizhou and Yunnan), through Laos and Thailand, across the northern reaches of Burma and finally into Assam in India. A division of the entire family into three branches — Northern, Central and Southwestern — has been proposed by F. K. Li (1959) based on comparative lexicon. More recently, Gedney (1973) suggests a two-way division by combining the Central and Southwestern branches. The dialects of the Northern branch are found in the Guangxi-Guizhou region. The Central branch of dialects covers the border areas between China and the more easterly portions of the north of Vietnam. The Southwestern branch covers the remaining area of the Tai-speaking domain, by far the largest in terms of geographic area. The last is under consideration here, as it includes Lue and the related dialects of Lao, Shan, Khuen, Northern Thai, Siamese, White Tai, Black Tai, and Red Tai.

The old Lue capital of Chieng Rung, ‘City of the Dawn’, sits on the west bank of the Mekong River one thousand kilometers due north of Bangkok.  

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1 Lue is also spelled Lu or Lü. In Siamese, it is pronounced /līi/ with a high level tone. The Lue of Chieng Rung pronounce /līi/ with a low level tone that has a slight fall at the terminus. Contrary to common belief among many Thais and westerners, the Lue are not hill tribe people. They are lowland, wet rice producers who practice Buddhism and speak a Tai dialect closely related to Siamese, or standard Thai. U. S. I. S. (The United States Information Service) has produced a film for distribution in Thailand where in the Lue are classed as hill tribes (chaawkhaw), clearly an error.

2 Many western scholars of comparative and historical Tai include Ong, Be and Li speech of Hainan in their studies. (See Benedict 1942, 1975; Haudricourt 1967 and Chamberlain 1971, for example.) The data on these languages appear to be very sketchy. Their similarity to other Tai languages is found in a handful of words, which may be fortuitous borrowings. In his study of ‘National languages’, Chang Kun (1967) shows Li as an intermediary language between Mia-Yao and Kam-Tai, a classification that I would favor, at least until better data are available. The possibility exists that these languages are Pidgins or Creoles. Mantaro Hashimoto (1980) has published the most reliable data on Be to date.

3 Ahom, the Tai language of Assam, India, died out about 1800 (Gedney 1974). An Ahom-Assamese-English Dictionary by Borua was published in Calcutta in 1920. Other materials include Ahom Lexicons, 1964, Ahom Buranji (Chronicles), an 1872 publication by Dalton of a descriptive ethnography of Bengal. A Thai university professor, Dr Banjob Phantumeetha has written, in Thai, a popular account of her travels in Assam. Grierson (1904) also refers to Ahom in his survey. Anthony Diller (personal communication 1981) reports that he found, during a recent visit of Assam, ‘several older men who could chant historical texts and ceremonial things for hours’. The chanting is apparently done from written texts with an Assamese pronunciation (phonology) and without preservation of the tonal distinctions of the original Ahom texts. Except for vestige phrases used for fun, ‘no one uses Ahom for daily life purposes’.

4 The exact location of Chieng Rung in Yunnan is 1000-101031’ east longitude and 21031’ north latitude (just below the Tropic of Cancer). Many maps show this to be part of an ‘autonomous region’ of which there are several in The People’s Republic of China. In the case of Chieng Rung, it is the capital of the Tai Autonomous Region of Sipsongpanna (Wade-Giles: Hsishuangpanna; Pinyin: Xishuangpanna).
references to this city-state comes from Coedes (1968), who reports that at about the time Assam was captured by the Tais in 1229, the Tai chiefs of Chiang Rung and Ngoen Yang (the site of Chiang Saen) on the upper Mekong arranged a marriage between their children as part of forming an alliance. Phinith (1977) has published an annotated translation of a Chiang Rung Chronicle written originally in Siamese and covering the period 1836-1858.

Today, Lue settlements exist in relative close proximity in Moeng Yong, Burma; Chiangrai and Chiangmai provinces in Thailand; and in and around Muang Sing and Luang Prabang in northern Laos. In the north of Vietnam, Lue reside in the area of Binh Lue and along the border of China just west of the Black River (LeBar, et al. 1964). Close by, to the west and just inside the border of Vietnam is the community of Cheng Tung (not to be confused with Kengtung, Burma), the source of an article on Lue phonology published by F. K. Li (1964). The total population of the Lue in the five-nation region probably does not exceed 500,000, with the major concentration around Chiang Rung.

Detailed information on Lue speech and writing has been published in Chinese (Fu Mao-Chi, et al. 1956). Entitled ‘The phonemic system of Chiang Rung, Sipsongpanna in Yunnan Province’, it is an extensive piece of fieldwork and analysis done by a team over a period of four years. More recently the Chinese have revised the traditional Lue script to facilitate literacy.

Data, in the form of unpublished field notes of Lue of Moeng Yong, Burma and Chiang Rung are available from Gedney (1968-69). Some notes on various aspects of Lue phonology and discourse can be found in Hartmann (1975, 1976a). Weroha (1974), a native speaker of the Chiengkham variety of Lue, has compiled an extensive lexicon and written several papers on his own phonological system. Moerman (1972, 1977) has published an analysis of a segment of a conversation in Chiengkham Lue. Many older and minor works on Lue and neighboring dialects are found in the literature. They will be listed at the conclusion of this chapter. For the moment, we shall deal with the more important, reliable publications.

Li (1964) makes note of the existence of several dialects in Lue. He concludes in his own study of the Cheng Tung variety of Lue that it is simply a ‘close dialect variant’ of the nearby White Tai analyzed by Minot (1940, 1949). The Lue of Chiang Rung recorded by Gedney (1968) displays tonal splits and other phonological similarities which link it to the Lue of Cheng Tung and White Tai just mentioned. On the other hand, the even more recent data on Lue of Moeng Yong (Gedney 1968-69) has a tonal array parallel to Khuen spoken in adjacent areas to the west of Kengtung Province in Burma as well as to Yuan (or Northern Thai) spoken directly to the south (Egerod 1959).

We can begin to see that these relationships and overlaps of varieties of Lue speech as one moves from east to west show the dynamics of a dialect pattern of ‘almost continuous Variation’ (Moerman 1965) among the Tai peoples of this northern geographic region. The unreality of absolutely discrete dialects cannot be overemphasized. Gedney (1967) describes the linguistic situation as ‘gradual transition throughout much of the Tai-speaking domain, except perhaps for the boundary between Northern Tai and the others’.

The *Linguistic Survey of India*, which includes a sizeable portion of the Lue found in the western geographical regions – i.e., the Shan State – indicates that Lue might be closely related to Khuen, Shan, Lao and Siamese. In his introduction to the survey Grierson (1928) states that Lue and Khuen are varieties of ‘Lao’ which is ‘spoken throughout the country situated between the 19th parallel of north latitude and the northern boundary of the kingdom of Siam’. We must realize that he is describing conditions as he saw them at the beginning of the 20th century. The Siamese kingdom did not incorporate the Chiangmai region until the reign of Rama I. Historically, Chiangmai, Chiangrai and other cities of the north were Lao in the sense that they were founded by Mengrai, a Lao prince (Coedes 1968). The Thais of the Central Plains (or ‘middle Menam’) were known by their neighbors as Syâm, i.e., Siam.

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5 The original article is, of course, in Chinese. I have used a copy which is a translation by Mrs James Dew, generously provided by Professor Gedney.
Grierson’s divisions appear to reflect these older historic states. To confuse the issue even more, the term Yuan is often used to refer to the language of the same area – northern Thailand. Again, Coedes tells us that the label Yuan is derived from Yonarààtha or Yonakaraàtha, ‘kingdom of the Yuan’. Chiangmai, ‘the new city’, founded by Mengrai in 1296, was its capital. Yuan (or Yon) has also been used by American missionaries (Dodd 1923) to refer to the alphabet used in the north, varieties of which extended beyond Chiangmai into Kengtung (Khuen) and presumably Chieng Rung (Lue). Egerod and others likewise use the term Yuan to designate the dialect of northern Thailand and its centre at Chiangmai. The Siamese (Bangkok Thais) have another ethnic term of the same shape, Yuan, referring usually to the Vietnamese or, occasionally, to the Mongo dynasty in China.

To return to Grierson’s early study, he considers Lue and Khuen to be a link or transitional dialect area between what he designates as the Northern group – the extinct language Ahom, plus Khamti and Shan – on the one hand, and Siamese, Lao and ‘Southeastern Shan’ (Tai speech east of the Salween River) on the other. In this connection, it is interesting to note the comment made more recently by Gedney (1967):

the speech of those villages and towns in the extreme northeast of Burma where the people refer to themselves and their language as ‘Lue’ seems to be closer linguistically to the Shan and Khuen spoken to the west and the dialects of northern Thailand to the south than it is to the dialect of the Lue capital city of Chieng Rung in Sipsongpanna.

Cushing (1881), in the preface to his Shan-English dictionary, reflects a similar viewpoint in stating that the Khuen of Kengtung and the Lue of Chieng Rung are both dialects of Shan. Still another authority on the Tai dialects of the more northwestern reaches of the Tai domain is the linguist Søren Egerod, who states (1959):

Khun is a sister language of Tai Yuan spoken in the Lanna or Phayap region of Thailand (capital Chiangmai) and Tai Lu spoken in the Sipsong Panna area (capital Kenghung) of Yunnan, China. The three languages of Khun, Yuan, and Lu are closely related and use very similar systems of writing based on the Mon-Burmese tradition as far as the form of letters go, but in usage closer to Siamese than to Shan, especially as far as borrowing of vocabulary is concerned.

Lanna Thai, the alternate term used by Egerod and many others for Northern Thai, was historically used by the Siamese to refer to their northern neighbors (Coedes, op.cit.). Yuan, the general label preferred by Egerod, is used interchangeably with the term Lao by LeBar et al. (1964). Haas (1958) names the same dialect after the chief city in which it is spoken - the Chiangmai dialect. Still another label for the same general dialect is Muang (Mundhenk 1967) following the local custom of the natives calling themselves ‘people of the muang’ (Moerman 1967). The term muang (or mueang) is often translated town, but in some instances it can indicate an area as large as a kingdom or nation. In the case of Kam Muang (language of the mueang), the speaker is probably identifying his speech with that of Meuang Lanna (see maps).6

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6 The interplay between ‘city talk’ and rural speech is dealt with interestingly by Leonard Bloomfield (1927). Here it is doubtful that kam muang means city talk. Looking at the Mission Pavie map at the end of this chapter, we see the label Muang Lan Na ‘country of a million fields’ to cover the old kingdom that had its center at Chiangmai. To translate khon muang simply as people of the muang is really incomplete. Relying on cartography and historical information, the fuller reference is more properly made to the people and the language of Muang Lanna Thai ‘the kingdom of Lanna’.
Finally, more recent works on the language of this region use the term Northern Thai, referring to the dialects of the northern part of Thailand proper. Earlier we have seen the use of Northern Thai in speaking of the branch of the Tai language family found in Guangxi and Guizhou, China.

Clearly, the best works on Northern Thai phonology and lexicon are the volumes by Hope and Purnell (1962) and Purnell (1963). The first work, *A Colorful Colloquial*, is subtitled, ‘An introduction to the study of spoken Northern Thai...’ and is based on the speech of Chiangrai province. A further note on the cover of this work states ‘Adaptation of Chiangmai dialect...’, an indication that we are dealing with a mixed phenomenon. Purnell’s introductory comments are a further recognition of linguistic diversity within Northern Thai itself.

The Northern Thai presented in this volume is that of Chiangrai province. There are seven provinces in northern Thailand, each with a slight though generally mutual intelligible variation of speech... Even in Chiangrai province there are many differences between rural and urban speech, the latter being in the process of assimilation with Central Thai...

At least one of the Tai peoples in Chiangrai province would be some of the Lue. It is estimated that 50,000 Lue live in the Chiangkham district of Chiangrai. The work of an urban Lue from Chiangkham has been cited (cf. Weroha).

Brown (1965) lists Northern Thai as one of the seven Thai dialects dealt with in his study of modern dialects used in his historical reconstruction. He claims that while there are several different dialects, the differences are ‘relatively minor’. He then lists the five dialects of Northern Thai as: Chiangrai, Chiangmai, Phrae, Nan, Lampang. Missing from his list are Maehongson and Tak. His informants were all from the five provincial capitals (*amphur mueng*), and, as such, would probably show less diversity than rural speakers from the same broad region.

Two studies written in Thai are the Master’s thesis on Chiangmai speech by Suntharagul (1963) and a monograph on Lanna Thai by Phayomyong (1968). The latter deals with the Yuan script. Another short work designed to teach the Northern Thai writing system is that of Davis (1970) who did his work in Nan province.

Further impressions of the relationship of Lue to other dialects concern the problem of mutual intelligibility. Seidenfaden (1925) comments, ‘The Lu tonque is – as anyone conversant with colloquial Thai will easily detect – for all purposes a mere dial of the latter, and is practically identical with the language spoken in Chiangmai’. The Lue he refers to is most likely spoken by Lue who have resided in northern Thailand in Chiangkham and around Chiangmai province as long ago as one hundred years when they were moved as a result of skirmishes between Thailand and Burma. Moerman (1965), an American anthropologist who lived among the Lue of Chiangkham, a district in the northeastern part of Chiangrai province, made these remarks based on fourteen months of living there:

7 Moerman (1965) has attempted to deal with the confusing array of ethnic terms. He notes:

The Chinese *Pai-i*, for example, includes some, but not all, of China’s Thai people. The term *Yang* is used by the Siamese for the Karen, by the Eastern Lao for the Lue (Archer 1892: 346), and by the Lue of Ban Ping for non-Buddhist Thai in China. The term *Yuan* is used by the Lue, the Shan (Archer 1892: 346), and the Lao (Mouhot 1864 II: 129) for the Thai of Lannathai, who call themselves ‘people of the myang’ *(khon myang)*. The Siamese call the Yuan *Lao* and reserve the term *Yuan* for the Annamese (i.e. Vietnamese).
Although I am not a linguist, it is perhaps worth recording that my own observations, both in speaking and listening to native speakers, indicate that the Lue, Lao, Yuan and Yong are all mutually intelligible. Chiengkham (Thailand) Lue informants report that their speech was easily understood in the Burmese and Chinese Shan States during World War II. Although speakers of Northern dialect often seem to understand speakers of another dialect more easily than they can understand Siamese (Central Thai), the genetic significance of this relative intelligibility is difficult to evaluate since Northern speakers react to and discuss solely in terms of lexicon. The comparative unintelligibility of Siamese results from its Cambodian and Sanskrit borrowings rather than from differences of tonal structure which might be of greater genetic significance. Differences of tone among the Northern dialects are ignored or ‘automatically’ compensated for by native listeners.

Of the four dialects named by Moerman, two require some explanation. By ‘Yong’ he probably means Lue of Moeng Yong, Burma. This Burmese-based community of Lue speakers appears to be quite large and influential. There is a great deal of communication and cultural contact between Moeng Yong and the Lue communities of Northern Thailand. It is not surprising that they speak mutually intelligible dialects. As for the ‘Lao’ that Moerman mentions, again we do not know if this label is being used in the older historical sense of referring to Northern Thai in general or if it should be reserved for the speech of nearby Lao communities just across the Mekong River at Ban Houei Sai. Without place names such as ‘Lao of Luang Prabang’, we do not know what the intended point of comparison is. There are also Yong speakers in and around Chiengmai (Davies 1979).

The claim made by Simmalawong (1972) is much more specific in this respect. She described the Lao and Lue spoken at Muang Sing, Laos as nearly indistinguishable. Historically, Muang Sing was once part of the Lue circle of ‘twelve (sipsong) cities’.

Another point brought up by Moerman is that of tonal differences among mutually intelligible dialects. He claims that they are ignored or ‘automatically’ adjusted to by speakers of these dialects. It will be shown later that if we examine the tonal splits, i.e., the system of distribution of contrasting tonemes, we find that for Lue of Moeng Yong and the varieties of Northern Thai mentioned, the tonal array is identical even though there may be phonetic differences in the actual shapes. Speakers from Nan, Phrae, Chiengmai, Chiengrai, Lampang or even Khuen from Kengtung all have the same underlying system of tones. We cannot say for certain what the case is for Lue speakers from Chiengkham. It appears that older, more conservative speakers, like the older Lue at Mae Sai, Thailand, have a tonal array identical to that of Chieng Rung in Sipsongpanna. Younger speakers who still identify themselves as Lue but live in Chiengkham district probably have the tonal splits of Northern Thai. Siamese (Central Thai) has a system of tonal splits that is clearly different from the general array for Northern Thai. It is this factor which impedes intelligibility between Siamese and Northern Thai on the one hand and facilitates communication between a speaker of Northern Thai and Lue of Moeng Yong on the other. The system of tonal splits for various dialects will be illustrated in the next chapter.

The coexistence of apparently disparate dialects at the same geographic point, a major city, is not uncommon. Kengtung (Chieng Tung), Burma is the capital of the Khuen, a sister dialect of Lue. At the same time, the city is considered by many to be a Shan-speaking area. After all, it is in the area designated as the Shan State. As far as I could determine from interviewing a single Khuen speaker, his was the major urban dialect. As one moved out into the suburbs and nearby rural areas, the dialects were different, i.e., presumably more like Shan. Until quite recently, the Khuen community supported a powerful chief (or petty prince). For generations, they have maintained close contacts with Chiengmai, which in part explains the closeness of those two dialects. In addition, the Khuen (and Lue) alphabet is nearly identical to the older Yuan script of Chiengmai, which, in turn, is similar to Shan orthography. Of course, all of these alphabets, including Burmese, Siamese, etc., can be traced to their source of Indian script (Coedes, 1968).
From the Shan standpoint, then, Khuen and Lue are subdialects of Shan (Cushing 1914). Brown (1965) divides Shan into three subgroups, which do not include Khuen and Lue, dialects which he does not mention in his work at all.

Shan is spoken in the Shan State of Burma by about two million people. There are apparently three main dialects; northern (centered at Lashio), southern (centered at Taunggyi), and eastern (centered at Chiang Tung, sometimes written Kengtung).

Cushing’s great Shan-English dictionary uses the speech of Laikha and Mongnai, two cities roughly midway between Kengtung and Taunggyi.

The preceding discussion of ethnolinguistic groups suggests a picture of not only gradual transition from one geographic point to another, but also pockets of great diversity at key points like Kengtung (Khuen and Shan), Muang Sing (Lue and Lao), Vientiane (Lao, Black Tai, etc.) and Bangkok (Central Thai, Lao and non-Tai languages). Within each group, subdivisions can be made along the lines of social class differences (Beebe 1974). These are centers of economic and political power which attract linguistically diverse peoples from great distances, especially in politically unstable times. The fluidity of movement of Tai peoples is consequently greater than dialect labels now show. For example, the presence of Saek speakers near Nakorn Phanom, Thailand is one illustration of an extreme geographic movement of Tai people out of southern China into Laos and adjacent areas of Thailand (Gedney 1970a). A group called Lao Song who live outside of Bangkok at Petburi are actually Black Tai who originally came from northeastern Laos (Gedney 1974).

Still another factor that complicates efforts to distinguish people along ethnolinguistic lines is the apparent ease with which some Tai groups (e.g., Shan) can move in and out of unrelated language communities (e.g., Kachin). Leach (1954) has shown how groups in Burma interact and coexist through shifts in language affiliation:

It can easily be established that most of these supposedly distinct ‘races’ and ‘tribes’ intermarry with one another. Moreover it is evident that substantial bodies of population have transferred themselves from one language group to another even within the last century.

Realising that languages change as a function of time, space, political and other forces, we can see that it is somewhat difficult to identify anyone speaker in absolute terms either linguistically or ethnically. In other words, there is no necessary isomorphism between language, culture and race. So, to answer the question, ‘Who is Lue?’ (cf. Moerman 1965), the answer is simply, whoever says he is. To answer the question, ‘What is Lue speech?’ requires an examination of all of the linguistics dimensions of the several varieties of Lue already cited. Such will be part of the task of the next chapter.

Before concluding the discussion of the place of Lue in the Southwestern branch of the Tai family, brief mention should be made of the Tai dialects spoken to the north and west of the Lue communities in Sipsongpanna. Gedney (1965a) suggests that there is a connection between Chinese Shan, Tai-Neua and Lue, dialects which he believes are in their present geographical location in Yunnan as a ‘result of northward movement rather than the reverse’. That is, in arguing against the traditional homeland of Proto-Tai in Yunnan itself (cf. Brown 1965 and the opposing view of Mote 1964, Gedney 1966a and Burling 1965), the parent of the Tai family is now placed in the area along the border separating Vietnam and southern Guangxi province in southeastern China. Of the daughter languages that developed over time and a change of location, White Tai, Lue, Khuen, Northern Tai and possibly some varieties of Shan might be conceived of as one fairly uniform group which took part in a westward migration or what Coedes (1968) describes as a ‘gradual engulfing’ of the region.

For the sake of balanced argument, certain geographical and political factors can also be brought into account for the surprising degree of linguistic unity suggested in the preceding paragraph. Using ethnographic information, LeBar (1964) places these dialects in a region
designated as the ‘central Mekong area, from Luang Prabang north to Sip Song panna, and including northern Thailand and easternmost Burma’. Similarly, Simmonds (1965) comments on geographic factors promoting ‘remarkable homogeneity of the Yuan dialects and of the dialects of the Middle Mekong’. From reading the early travel accounts of American missionaries (Dodd 1923) and the French imperialists (Mission Pavie), the impression is gained that, despite the lack of modern amenities, there are no great barriers to travel in the region. That is not to say that natural geographic boundaries do not exist. The very fact that the Tai live at low riverine elevations has had an impact on their linguistic and cultural development. Indeed Tai peoples monopolize the middle Mekong River area today. Another geographic index is the division between the decidedly flat Central Plains of much of Thailand and the more hilly north beginning approximately at Uttaradit, a demarcation that marks a dialect boundary as well.

While nothing more than a supposition at this point, there is also the factor of political domination to be considered. It is conceivable that the exercise of power by northern kingdoms such as the ones centered at Chiengmai and Chieng Rung was great enough at one time to promote the spread of a metropolitan (mueang) dialect. Certainly today we find the compelling reach of Bangkok speech into areas that until recently were more Lao-like (Khantitanan 1973). The thesis of linguistic homogeneity as a function of political control might also be used to explain the reverse situation. That is, linguistic diversity would be traced to macro-political disunity which may or may not be accompanied by geographical discontinuities.

Another indicator of the relationship of Lue to neighboring dialects comes from comparative lexicon. In the course of translating the two texts used in this study, use was made of vocabularies and dictionaries compiled by Donaldson (1970) for White Tai, Egerod (1971) Purnell (1963) for Northern Thai and Cushing (1914) for Shan. The younger, more creative singer used a ‘literary’ vocabulary that often could be traced to sources in both White Tai and Shan.

Both singers had a core vocabulary that was 90% like Northern Thai and 70% (by their own estimates) like Siamese. No dictionary of Lue has been published to date. Until such time, we can do no more than make guesses about shared vocabularies. Still it is clear that Lue is, as its geographic position would indicate, a dialect that overlaps both White Tai and Shan and is close to Northern Thai.


Finally, maps are shown at the end of this chapter in order to put the Lue and neighbouring dialects into clear perspective linguistically and historically.

Map 7.1-1, hand-drawn, highlights the three points from which the data for the following chapters will be taken. For Lue of Cheng Tung (Sipsongpanna) we have the monograph of Li (1964); for Lue of Chieng Rung (Sipsongpanna), there is the publication of Fu Mao-Chi et al. (1956), the unpublished fieldnotes of Gedney (1968) and my own field data. Likewise, for Lue of Moeng Yong (Burma), we have relied on the unpublished fieldnotes of Gedney (1969) and my own data. The more recent Russian work on Lue (Morev 1978) appears to be in close agreement with the earlier work of Fu Mao-Chi et al. (1956), but has not been utilized here.

Map 7.1-2, from the 1904 Linguistic Survey of India shows the relationship of Lue to Khün and varieties of Shan.

Map 7.1-3 shows the small but distinct Lue enclave in Binh Lu’, Vietnam. The source is Deydier (1954).
MAP 7.1-1: SHOWING AREAS OF GREATEST LUE CONCENTRATION
MAP 7.1-2: SHOWING THE LOCALITIES IN WHICH THE TAI LANGUAGES OF BRITISH INDIA ARE SPOKEN
7.2. PHONOLOGY

In the preceding section, a survey of data from both published and unpublished sources indicated in general terms the close relationship between three varieties of Lue and the following: Shan, Khuen, Northern Thai, Lao and White Tai. In this chapter, we shall proceed to examine the phonological structure of the syllable in these dialects using Siamese as a reference point in the comparisons.

Most discussions of Tai, comparative or otherwise, begin with a description of the syllable, the Tai languages being basically monosyllabic. Tai is also tonal, and the syllable is the unit of
tone placement (Abramson 1962). Depending on the phonemic analysis used – whether the glottal stop or vowel length are given the status of phonemes – the structure of the Tai syllable can be schematized as shown.

<table>
<thead>
<tr>
<th>INITIAL</th>
<th>TONE</th>
</tr>
</thead>
<tbody>
<tr>
<td>C₁ (C) (C)</td>
<td>V₁ (V) VOCALIC NUCLEUS</td>
</tr>
</tbody>
</table>

Giving the glottal stop phonemic status, it then follows that every syllable has an obligatory initial consonant. One or two consonants may follow to form a two or three consonant cluster. In the Southwestern branch, double consonant clusters are the rule with the sonorants r, 1, w, y as the second member. A vowel or vowel cluster will follow, and, optionally, a final consonant or semivowel. The possibilities for finals are limited to the stops p, t, k, (glottal stop), the nasals m, n, ŋ and the semi-vowel w, y, ỹ. The tone, which may be a register or contour (cf. Pike 1948), extends over the voiced portion of the syllable. The unvoiced segments do not carry tone; nevertheless they do have a conditioning effect on the final output of the tone on any particular syllable.

As part of the conditioning effect of finals on the shape of tones, syllables are further categorized as free (or smooth) and dead (or checked). In Siamese the terms khampen and khamtaay respectively. Checked syllables end in the stops p, t, k, ŋ; a smooth syllable ends in a vowel or the sonorants m, n, ŋ, w, y, ỹ (ỹ = i as final offglide).

The conditioning effect of initial consonants is explained not in terms of syllable types but in a taxonomy of the phonetic characteristics of the reconstructed initials of the parent language. For Lue of Chieng Rung and White Tai of Muang Te, for example, it suffices to know whether or not an initial consonant was voiced or unvoiced in the parent, which, in the case of Proto-Southwestern Tai may not go back in time much farther than 1,000 years. For dialects where the distribution of tones is much more complex, a finer four-way grid for classifying the initials is needed. The grid used here is taken from Gedney (1964). The tones A, B, C, D are designations for proto-tones. The D-short and D-long are the tones for the checked syllables with long and short vowel nuclei respectively. The length of the vocalic nucleus in checked syllables is the third variable governing the shape of syllable tone. In analyzing the tone of anyone dialect, the usual procedure is to find minimal pairs in the smooth syllables. Whatever tones then emerge for the checked syllables can be matched up with the closest smooth counterparts. This is not always easily done, especially with knowledge of only one or two dialects. The difficulties in applying this procedure of mapping the tones from checked syllables onto the tones for smooth ones in the Northern Tai dialect is a case in point (cf. Purnell).
The preceding chart covers the salient phonetic features of initial consonants as they govern the historical development of tone in the Central and Southwestern branches. The Northern branch of the Tai family goes further in dividing the High class initials (or proto-voiceless friction sounds) along the lines of a *hm vs. *kh difference affecting the development of tones in the proto-A category (Gedney 1972b, 1974). This fine distinction does not concern Lue. Lue development is one of the simplest among the Tai languages.

If we go back to the time of the parent language, it is assumed that only three tones could be associated with smooth syllables, designated here as A (unmarked or neutral tone), B (Siamese มะยี่ ีก) and C (Siamese มะยี่ ทู). This condition of three simple tones is traced back to Proto-Tai, the period antecedent to the partition of the parent (or more homogeneous original model) into more diverse daughter dialects.8

It is not clear what the case is when the time depth is pushed back even further to include the distantly related speech group called Kam-Sui-Mak (Li 1965, Oshika 1973). The shape of this older family tree can be found in a comparison of models suggested by Gedney (1970a, 1974) and Haudricourt (1967). The general presumption is that the opening stage of tonal splitting was simultaneous if not sudden in its effects on several languages in South-east Asia.

It is interesting to note in both of the models that Saek, classified elsewhere as a dialect of the Northern Tai (Guangxi-Guizhou region), is seen by both scholars as diverging somewhat sooner than its sister dialects. The first scheme is from Gedney, the second from Haudricourt. The latter combines the so-called Tai-Kadai configuration. Haudricourt prefers the single label ‘Kadai’.

At any rate, we are concerned here with the differentiation of the three tones A, B, C into double that number in Lue in the southwestern branch. Using information provided by the Siamese writing system which was reformed by Ram Khamhaeng in 1283 (Coedes 1968) and which uses only the three undifferentiated tones, we can say, as does Gedney (1972b):

This tonal system lasted at least until after the time (about 1300 AD) when alphabetic writing systems were devised for some of the languages of the southwestern part of the Tai-speaking domain, including Siamese.

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8 The tones *ABC were distinguished by pitch registers and syllable-final characteristics. Thus according to Brown (1965), tone A was high, B mid, C low. Correspondingly, syllable endings were whispered, voiced and glottalised. Haudricourt (1961/1972) is in basic agreement with the phonetics of the endings except that he posits a final -h for syllables with the A tone. It is often found that the tones in the C column have a creaky or glottalised quality. There are numerous exceptions, however. See Strecker (1979) for a more recent attempt at reconstruction of tones *ABC.
It is not clear from this whether or not tones began to break up earlier in the Northern branch. This splitting of the tones which occurred some time after 1300 AD in at least the Southwestern branch resulted in Lue, White Tai and many other Tai dialects being left with six tones in place of the original three. The division is what Haudricourt described as a ‘bipartition’ of the three proto-tones along the lines of voicing of the initial consonant at the time of the split. The tonal splits of Lue at Chieng Rung can be diagrammed with a simple two-way division rather than the more complex four-way grid shown earlier.

A. (Gedney)

\[
\begin{array}{c}
\text{Saek (?)} \\
\text{Proto-Tai / Kam} \\
\text{Proto-Tai} \\
\text{Northern Tai} \\
\text{Central Tai} \\
\text{Central/South-western Tai} \\
\text{Kam-Sui-Mak} \\
\text{Central/South-western Tai}
\end{array}
\]

B. (Haudricourt)

\[
\begin{array}{c}
\text{Kadai} \\
\text{Kelao Lati} \\
\text{Laqua Li} \\
\text{Lakkia Kam-Sui} \\
\text{.......... Be} \\
\text{.......... Sek} \\
\text{Thai-tchouang} \\
\text{Caolan (Nun-an, Ts’ unlao)} \\
\text{Thaï Tai} \\
\text{Thaï} \\
\text{Siamois} \\
\text{Shan} \\
\text{Khun} \\
\text{Lu} \\
\text{Lao} \\
\text{Thai blanc} \\
\text{noir}
\end{array}
\]
The general shape of the tones of Chieng Rung are shown in the following diagram using both a system of numbered tones and their description in words along with the scheme used often in phonological description of Chinese tones. In the latter system, a pitch level of 5 is high and 1 is low; 3 would be in the mid range. (* = proto-; vl = voiceless, vd = voiced).

<table>
<thead>
<tr>
<th></th>
<th>*A</th>
<th>*B</th>
<th>*C</th>
<th>*D-long</th>
<th>*D-short</th>
</tr>
</thead>
<tbody>
<tr>
<td>*vl (yin)</td>
<td>1 high-level</td>
<td>2 mid-rising</td>
<td>3 low, glot., slt. rise</td>
<td>= 2</td>
<td>= 1</td>
</tr>
<tr>
<td></td>
<td>55</td>
<td>35</td>
<td>13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>*vd (yang)</td>
<td>4 falling</td>
<td>5 mid-level</td>
<td>6 low, level, slt. rise</td>
<td>= 5</td>
<td>= 5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

In this matrix, the maximum number of six tones is found on the smooth syllables. The tones on the checked syllables are matched up with their nearest counterparts in the class of smooth syllables. As explained earlier, the tones of the smooth and checked are conditioned by different variables so that they stand in complementary distribution. The tones shown here, then, are phonemic, not phonetic. In some works, e.g., Purnell (1963), it is not always clear whether the tones which are enumerated are phonemic or not. Closer examination reveals that the seven tones of Northern Thai, for example, are phonetic; only six can be isolated on free syllables.

Recalling the information from the four-way division of initials of Proto-Tai as they influenced tonal development, we can plot the tonal similarities and differences in the three varieties of Lue along with Khuen, Shan and White Tai.
The data for the tonal charts shown above come from the unpublished fieldnotes of Gedney except for his Publication on White Tai (1964) and F. K. Li’s article on Lue of Cheng Tung (1964). The charts illustrate the nearly identical tonal contours for corresponding tones in Shan and Khuen of Keng Tung and Lue of Moeng Yong. This tonal isomorphism is obscured by the three different ethnic labels. On the other hand, Lue of Chieng Rung is much different from Lue of Moeng Yong or nearby White Tai.

On the following pages, the tonal shapes of Khuen of Keng Tung and Lue of Chieng Rung are compared to dialects studied by Brown (1965) such as Shan, varieties of Lao, and the dialects of Thai spoken at Bangkok, northeastern and southern and northern Thailand. Again, it can be seen that Lue of Chieng Rung is closest to Shan, Khuen and the Northern Thai spoken at Chiengrai and Nan. But the Shan and Lue are closest in exhibiting the simple *voiced-voiceless split. Brown’s Shan informant was located in Chiengrai. It would be informative to know his exact origins. The Shan of Keng Tung from Gedney’s unpublished fieldnotes has tonal splits identical to Khuen of Keng Tung and Lue of Moeng Yong. However, he has Shan data from Hsi Paw, Burma and Chefang, Yunnan with tonal splits identical to the *vd - *vl one seen in Brown’s charts. Another dialect spoken at Hsen wii has six tones,
making it even closer to Lue of Chieng Rung. Most dialects of Shan have only five tones due to coalescence of tones, as in Siamese.

By contrast, Lue does not participate in any of the tonal splits found in the Lao of our data. A glance at the charts reveals that the Lao column C invariably has a split at the top conditioned by the High class initials (proto-voiceless friction).

The shapes of the Bangkok tones seem to share something in common with both the north and the northeast. They appear to mark something of a transitional zone.

Haas (1958) finds that the Siamese and Chiangmai tonal systems are very close, the former being a reduction of the latter. (She presumably means a reduction in the number of tones.) Brown (1965: 113) claims that the Khorat9 and Bangkok dialects are mutually intelligible, presumably on the basis of tone his major interest. To further complicate the picture of the relationship of Siamese (Central and Bangkok Thai included) to other dialects, Haas (op.cit. fn. 4) states: ‘In most other respects, Siamese and Nakhonsithammarat are much closer together than Siamese and Chiangmai.’ The other aspects are not detailed.

The relationship of Bangkok Thai to other dialects is best illuminated by a closer comparison of more data. We recall that the typical pattern of tonal splits for the dialects of northern Thailand showed a division between A12-A34 or the *voiceless friction and *voiceless unaspirated sounds vs. the *pre-glottalized and *voiced initials. In other words, the Mid class initials of the Siamese alphabet are divided, e.g. in Chiangmai. Yet Bangkok Thai splits A column slightly higher – above, not through, the Mid class initials, or at A1-A234.

---

9 In Brown’s chart for Khorat note that only four tones exist. This is something of a surprise and means that, unless an error has been made, Khorat has the fewest number of tones of any Tai dialect.
If the Bangkok system is seen as a reduction of the Northern Thai system, the question is, why does it make the split in the A column at the point it does? Why does Bangkok Thai avoid dividing the Mid class initials? The answer comes from Haudricourt’s astute observations concerning the use (functionalism) of tonal splits as a means of avoiding confusion that would result in homophony if tonal differences were not re-employed. His explanation underscores the basic tenet of de Saussure which says that in language there are only differences. When, in Thai, differences are lost in the classes of initials, the burden is taken up elsewhere: in tones, vowel splits (e.g., the Southern Thai dialects) or vowel lengthening perhaps. In this instance, the Bangkok split, the unique division of column A can be traced to the merging of the High and Low series in ph, th, ch, kh. To quote Haudricourt himself (court translation in Harris and Noss 1972):

Thus the ‘high’ letters and the ‘low’ letters represent the two ancient series of initials - the voiceless aspirates and voiced consonants - which fell together in pronunciation and so caused the tones of the following vowels to split. The ‘mid’ letters on the contrary represent the voiceless, non-aspirated stops, or glottalized consonants. These ‘mid’ consonants were neither modified nor confused with the ‘high’ and ‘low’ series in the course of the change; the three old tones, A, B, and C thus had no reason to be modified phonetically after ‘mid’ initials, but since the confusion of the ‘high’ and ‘low’ initials had given rise to a system of six tonemes for the vowels in the environment following ‘high’ and ‘low’ consonants, then the three tones in the environment following ‘mid’ initials become phonemically speaking three architonemes, each of which tended to be confused phonetically with one or other of its corresponding tonemes...

Haudricourt’s notions of the tripartition and the resulting architonemes in Bangkok and Lao dialects is well illustrated as a real process in Brown’s data. In the dialects of Roi-Et and Ubon, for example, the A-Mid and A-Low tones are nearly identical in shape (rising-falling) contour. They differ only in height. They seem to be remarkably close to coalescing, or coming near to the stage of being an architoneme (A-Mid and A-Low being phonetically identical). The Roi-Et and Ubon charts are adapted from Brown (1965). Special note should be made of the A
column which shows the tripartition and the near-coalescence that would result in a Bangkok-like A split if completed.

Haudricourt goes on to explain the A12-A34 split in Khuen and Yuan as another manifestation of tripartition. I prefer to view it simply as a bipartition of the A column due to the merger of *b, d, g (Low) with *p, t, k (Mid). There is no evidence for a three-way split in the Band C columns of the other dialects with the same A12-A34 division. In effect, in these dialects (Khuen, Yuan) the two-way split simply functions to move the Mid class p-, t-, k- out of the Mid class tonal category. The remaining items in the Mid class initial series can have the same tone as the Low class p-, j-, k- and the other members of their series. Again, the idea is to use tonal partition to avoid general homophony.
Compton (1975) has ‘Southern Lao’ data from Sihadone, Laos. In analysing her data (mohlam), I have found that it fits my scheme previously devised for what I have called Southern Lao: a 3-way split in column A between High-Mid-Low initials. As usual in Lao dialects, the C column shows a High-Mid/Low split. My chart for Compton’s Southern Lao data appears as follows with approximations of tonal shapes and pitch levels. Ideally, one should have data from Bassac (Champasak), the third, or Southern Lao capital, historically speaking.

![Typical Southern Lao/North-eastern Thai](chart1)

![Transitional Lao/North-eastern-Central Thai](chart2)

---

10 Compton (1975) has ‘Southern Lao’ data from Sihadone, Laos. In analysing her data (mohlam), I have found that it fits my scheme previously devised for what I have called Southern Lao: a 3-way split in column A between High-Mid-Low initials. As usual in Lao dialects, the C column shows a High-Mid/Low split. My chart for Compton’s Southern Lao data appears as follows with approximations of tonal shapes and pitch levels. Ideally, one should have data from Bassac (Champasak), the third, or Southern Lao capital, historically speaking.

In her study of Lao dialects, Panka (1980) provides a quotation from the work of Chit Phumisak (1976) where he points to the historical-political divisions of Laos into the kingdoms of Luang Prabang, Vientiane, and Champasak. Panka uses these three points and ethnographic evidence to set up areas called Northern, Central and Southern Lao. See Hartmann (1981) for further discussion.
Haudricourt’s observations allow us to understand not only Bangkok Thai, but the Lao dialects (including Northeastern Thai) and those of southern Thailand as well. These three areas have all participated in tripartition because all of them have undergone the same change of *voiced > voiceless > aspirate initials in the Low series. As a result, the Low and High initials must be distinguished along tonal lines at all cost. But the Mid series in these dialects is free to coalesce tonally with either High or Mid.

Dialects of Lao take all three options for fusion or separation of tones along with lines of tripartition. Again looking at Brown’s charts and rearranging them in a new classification, three patterns of Lao dialect differences emerge. First is the Lao dialect around Luang Prabang where the split is A1-A23. (It may be significant that the A1 tone is falling.) Dialects typified by Vientiane have an A12-A3 split. Typical of the Roi-Et group is the three way A1-A2-A3 split with the tendency to coalesce A23. The fusion is complete in typical Khorat-type dialects.

The grouping of Lao dialects along the lines of preference for coalescence after tripartition suggests three regional dialects: Northern, Central and Southern Lao. A fourth group called transitional is part of the Southern Lao group shown on the preceding page. It is separated out to show the transition toward the same A1-23 split found in Bangkok Thai and its similarity to a transitional Southern Thai found in Chumphon in peninsular Thailand. The A1 tonal contour rises for Khorat and Bangkok, but falls for the Chumphon dialect indicating another significant difference between Central and Southern speech.

It is even more interesting to note that Saek, a dialect from the Northern Tai branch which has relocated in the Lao area around Nakhon Phanom, has undergone the change of merging the High and Low aspirates and the resulting tripartition. The other Northern Tai dialects pattern differently. Wuming, Zhuang, Puyi (cf. Sarawit 1973: dialect points 11, 12, 37, 38, 31, 36) have the simple *vl-*vd split. Yay, Po-ai, and Puyi (dialect points 7-9, 1-6, 10, 13-30, 32-35, 39, 40), also Northern Tai dialects, have tonal splits which parallel the divisions shown in the charts for Khuen and Northern Thai in general. We could say that with Saek we have an isolated instance of a Northern Tai dialect (Gedney 1970a) that has acquired Lao features due to contact factors which override genetic subgrouping.

On the other hand, it is equally interesting to note that Red Tai spoken in Laos is not typical of the Lao dialects. That is, following Gedney’s data (1964) Red Tai does not have the Lao-like tripartition nor do the aspirates replace the *b, d, g... series. Instead, Red Tai has the
features of White and Black Tai and other Tai dialects. The Lao-Central-Southern Thai features do not extend as far north as Red Tai which is spoken just south of the Black Tai community of Son La and north of Sam Neua, Laos. The latter point may well be the north-eastern frontier for the two features of the Lao, Central and Southern Thai dialects we have been considering. Simmonds (1965) states:

The dialect of Sam Neua, if it is to be considered valid as a dialect of Lao, appears in a somewhat anomalous position in that the tonal pattern resembles that of Black Tai while aspirated plosives occur on all tones, which is a feature of Lao.

This dialect could be considered a transitional point between the bipartite and tripartite groups as they have been classified up until now. The divisions of Sam Neua, adapted from Simmonds’ information,\(^\text{11}\) appear in the following chart. Note the Al tone is rising as in the majority of Lao and Central Thai dialects.

\[
\begin{array}{ccc}
A & B & C \\
1 & *vl & \\
2 & *vd & \\
3 & & \\
\end{array}
\]

In order to summarize in a more general way the discussion of the last several pages, reference is made to the charts below showing bipartition (and its variant) contrasted to tripartition. The correlation of the two-way and three-way split with different initials is shown in synchronic terms.

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\(^{11}\) I cite these Sam Neua data with some hesitation. Strictly speaking, it is not a Lao dialect because it does not have the H-M/L split in the C column that is characteristic of Lao. Then too, the data Simmonds has for other dialects do not agree with the work of Brown, for example.
Here is a suggested alignment of dialects in Southwestern Tai into three major subdivisions: upper, middle, and lower Southwestern Tai.

### A. Bipartition: *vl vs *vd. Found in: Shan

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>ph</td>
<td></td>
<td></td>
<td>HIGH</td>
</tr>
<tr>
<td>p, b</td>
<td></td>
<td>MID</td>
<td></td>
</tr>
<tr>
<td>p</td>
<td></td>
<td></td>
<td>LOW</td>
</tr>
</tbody>
</table>

Tai Neua  
Lue C. Rung  
Lue C. Tung  
White Tai  
Black Tai  
Red Tai  
Sam Neua (?)  
Cao Bang  
Wuming

### Variant Bipartition: *vl fr & unasp. vs *Pre-glott. & vd. Found in: Shan Keng Tung

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>ph</td>
<td></td>
<td></td>
<td>HIGH</td>
</tr>
<tr>
<td>p, b</td>
<td></td>
<td>MID</td>
<td></td>
</tr>
<tr>
<td>p</td>
<td></td>
<td></td>
<td>LOW</td>
</tr>
</tbody>
</table>

Khuen Keng Tung  
Lue Moeng Yong  
Chiengrai  
Chiangmai  
Nan  
Phrae  
Phayao  
Tak

### B. Tripartition: High vs Mid vs Low. Found in: Luang Prabang

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>ph</td>
<td></td>
<td></td>
<td>HIGH</td>
</tr>
<tr>
<td>p, b</td>
<td></td>
<td>MID</td>
<td></td>
</tr>
<tr>
<td>ph</td>
<td></td>
<td></td>
<td>LOW</td>
</tr>
</tbody>
</table>

Loei  
Vientiane  
Roi-Et  
Ubon  
Khorat  
Bangkok  
Chumphon  
Saek
A cartogram suggesting an alignment of these dialects is given below.
For the dialects of the Central branch, Sarawit (1973) has five points. In this very small area between White, Black and Red Tai to the west and the Zhuang dialects around Wuming there is a line of continuity. The Central dialects of Lung Chow, Nung, W. Nung and Ning Ming (Gedney 1973) have the *vl - *vd split. Lung Ming shows a tonal split identical to Po-ai, to which it is fairly close geographically, and identical to the Chiengmai split. The remaining dialect, Lei Ping, is aberrant. It has the three-way splits of Lao and Saek, indicating a displacement or unusual history. The schematic diagram below suggests a grouping of the dialects of the northern reaches of the Tai speaking domain along the dimension of bipartition. The largest and most continuous group starts from the east with Wuming and the southeastern segment of the Puyi group and continues across to Shan.

The continuous line indicates simple *vl-vd bipartition. The dotted line encloses dialects where partition is through the center of the so-called Mid initials or rows 12-34.

Comparisons with the tonal splits of the other two branches enlarges our understanding. First the Northern Tai. Southeastern Area: Wuming, Zhuang, Puyi 11, 12, 31, 36-38.
Gedney (1967) advises students of Tai linguistics to advance our understanding of the Tai dialects by preparing an atlas showing various isoglosses. In Sarawit (1973) we find an admirable beginning for the vocalic changes. Our investigation of bipartition and tripartition clearly shows an east to west isogloss for the phenomenon. A map on page 277 shows the *vl-*vd split connecting Wuming in the east to Shan in the west.

Still another isogloss which separates the more southerly dialects where the High and Low class aspirates merge (Lao, Central and Southern Thai) from the long northern band can be sketched, although with some uncertainty. Brown (1965: 14) would draw a line for this purpose from Luang Prabang 'down to Mekong to (and including) the Thai province of Loei'. Adding to this the information found in Simmonds (1965), the boundary for the High ph/Low ph merger can be drawn through Tak. The question is, where does it cross northern Laos? The following map suggests a line connecting Luang Prabang and Sam Neua. From this we predict that the Lue and Lao dialects at Muang Sing, Laos – for which we have no data – will not have the tripartite tonal splits typical of Lao dialects.

If the notion of bipartition is allowed to cover the dialects of northern Thailand, then the isogloss for tonal splits separating bipartition from tripartition and the isogloss separating the aspirated low class initials (So.) from the unaspirated low class initials (No.) are identical.

In this discussion of the classification of dialects based on common patterns of tonal splits, it is worth recalling that F. K. Li (1959) based his categories on lexical groupings. He appears to be following the lead of Leonard Bloomfield who contrasted the differences between the Germanic languages and other European languages first on the basis of vocabulary and then, secondarily, on phonological criteria. However, Li is careful to point out, 'It is not claimed that lexical distribution is the sole, or even necessarily the best criterion for the classification of languages'. Later he continues, 'If a classification based on lexical elements is supported by phonological criteria, or vice versa, it will have more validity'. We have chosen the reverse approach, using the phonological dimensions of tone and their relationship to classes of initial consonants. As for lexical comparisons, earlier it was pointed out that Lue and Northern Tai shared as high as 90% of their vocabulary in common according to estimates of native speakers. The proportion for Lue and Siamese was put at 70%. A thoroughgoing study of
comparative lexicon would doubtless prove extremely interesting, if not exhausting, and would shed further light on the subgrouping of dialects within Southwestern Tai.

For the moment, we shall continue phonological comparisons of the contoids, ignoring variation, which shall be detailed later. The chart (A) directly below takes the data of Fu (1956) and compares it to Siamese (S). Three gaps denoted by a dash require an explanation. First, the glottal stop is not given phonemic status in the Fu analysis. Secondly, Siamese (c) and (ch) merge in Lue of Chieng Rung /ts/. Lastly, Siamese /r/ is Lue /h/ in illiterate speech. Following the comments on the next page, lexical citations (Chart B) are given showing changes from Siamese to Lue, or vice versa.

A. Siamese and Lue (C. R.) initials compared

<table>
<thead>
<tr>
<th>Stops:</th>
<th>Bilabial</th>
<th>Dental</th>
<th>Palatal</th>
<th>Velar</th>
<th>Glottal</th>
</tr>
</thead>
<tbody>
<tr>
<td>vd unasp.</td>
<td>(S) Lue</td>
<td>(S) Lue</td>
<td>(S) Lue</td>
<td>(S) Lue</td>
<td>(S) Lue</td>
</tr>
<tr>
<td>vl unasp.</td>
<td>(p) p</td>
<td>(t) t</td>
<td>(c) ts</td>
<td>(k) k</td>
<td>(?)</td>
</tr>
<tr>
<td>vl asp.</td>
<td>(ph) ph</td>
<td>(th) th</td>
<td>(ch) -</td>
<td>(kh) x</td>
<td>(h) h</td>
</tr>
</tbody>
</table>

The preceding chart requires additional elaboration. The symbol /ts/ used by Fu is later described as having [tɕ] as its actual pronunciation. If such is the case, then this sound must be close if not identical to the /c/ of Siamese, Northern Thai and White Tai. Cognates from Lue of Moeng Yong invariably have /s/ in place of /c/. Perhaps the reason for using /ts/ is the difficulty in analyzing its exact articulation. Fu does not give a description of the mechanics of its production.

Harris (1972) has tackled the description of this troublesome sound with rigor. In the opening paragraphs of his article he takes exception to previous descriptions:

The Siamese syllable initial consonant sounds represented by the symbol  จะ have been described as frontal palatal (Kruatrachue, 1960); palatalized apical dental (Thaweesomboon 1969); palatoalveolar (Richards 1966); and voiced palatal (Fowler and Israsena 1952). I have not observed any of these pronunciations of ชะ either in Siamese or in other Thai dialects. In fact, the description of Siamese as a palatal stop or affricate is misleading.

Later we read his own description, which would appear to cover Lue of Chieng Rung.

チャー represents a voiceless unaspirated alveolopalatal glottalized stop. The fricative release of this sound usually is quite short in duration and not very perceptible. This sound only occurs syllable initially in Siamese. This is a very common pronunciation in Siamese.

\[ tɕʰə:n \] ‘dish’
MAP 7.2-1: SHOWING THE ISOGLOSSES OF CHANGE FROM PROTO-TAI
*d TO MODERN t AND th RESPECTIVELY
B. Siamese and Lue initials are compared below:

<table>
<thead>
<tr>
<th>Siamese</th>
<th>Lue Chieng Rung</th>
<th>Gloss</th>
</tr>
</thead>
<tbody>
<tr>
<td>(b)/b</td>
<td>baa</td>
<td>baa²</td>
</tr>
<tr>
<td>(p)/p</td>
<td>pen</td>
<td>pin¹</td>
</tr>
<tr>
<td>(ph)/ph</td>
<td>phak</td>
<td>phak¹</td>
</tr>
<tr>
<td>(f)/f</td>
<td>fäa</td>
<td>fäa¹</td>
</tr>
<tr>
<td>(w)/v</td>
<td>wan</td>
<td>van⁴</td>
</tr>
<tr>
<td>(m)/m</td>
<td>maa</td>
<td>maa⁴</td>
</tr>
<tr>
<td>(d)/d</td>
<td>dāa</td>
<td>dāa²</td>
</tr>
<tr>
<td>(t)/t</td>
<td>taa</td>
<td>taa¹</td>
</tr>
<tr>
<td>(th)/th</td>
<td>thāk</td>
<td>thak¹</td>
</tr>
<tr>
<td>(s)/s</td>
<td>sīq</td>
<td>sīq⁴</td>
</tr>
<tr>
<td>(n/n)</td>
<td>nāa</td>
<td>nāa⁴</td>
</tr>
<tr>
<td>(l)/l</td>
<td>lāa</td>
<td>lāa⁴</td>
</tr>
<tr>
<td>(r)/-</td>
<td>rian</td>
<td>heen¹</td>
</tr>
<tr>
<td>(c)/ts</td>
<td>cāk</td>
<td>tsak²</td>
</tr>
<tr>
<td>(ch)/-</td>
<td>chiaq</td>
<td>tseg²</td>
</tr>
<tr>
<td>(j)/-</td>
<td>yaa</td>
<td>yaa⁴</td>
</tr>
<tr>
<td>(k)/-</td>
<td>khaa</td>
<td>xaa⁴</td>
</tr>
<tr>
<td>(n)/-</td>
<td>gaa</td>
<td>gaa⁴</td>
</tr>
<tr>
<td>(h)/-</td>
<td>häk</td>
<td>häk¹</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

On the following pages a comparison of Lue to six other dialects in the Southwestern branch with which it has varying degrees of contact is shown. The listing follows Sarawit's reconstruction (1973). In the case of Khuen and Lue of Cheng Tung, educated guesses had to be made due to the lack of citation forms.
In the chart above, one is struck by the similarity of the Lue of Chieng Rung to Siamese. It has not followed the pattern of *l changing to d, b and b, and *n remaining *n as in Lue of Moeng Yong and White Tai, for example. Neither has Lue of Chieng Tung for that matter. The replacement of Siamese /kh/ by Lue of Chieng Rung /x/ is a matter of variation which will be described later. The presence of /w/ in Lue of Cheng Tung (Li 1964), /v/ in Lue of Chieng Rung and Moeng Yong, /v/ in White Tai and /w/ in Khuen, Shan and Northern Thai calls for an explanation. At first glance, it seems that an isogloss would separate the /v/ of White Tai and Lue from the /w/ of Khuen, Shan and Northern Thai, or the eastern dialects from the western. But a closer look is not so convincing.

The reason for the puzzlement over the v-w isogloss may lie in varying conventions, theoretical reasons, or uncertainties of perception. In his phonemic analysis of Lue, Li (1964) chooses /w/ which he describes as ‘labio-dental with no or little friction when it stands alone as an initial, otherwise it means simply lip rounding’. This seems to accord very closely with Harris’s (1972) description of Siamese w and w.

w represents a voiced labio-velar approximant. This sound occurs syllable initially in Siamese:

wa: to say
\[\mathcal{W}\], a voiced labio-velar fricative, is a common pronunciation in emphatic speech. The friction is not very heavy but is perceptible.

To continue, in his article on White, Black and Red Tai, Gedney (1964) describes the White Tai /v-/ as a 'voiced labiodental fricative like English v'.

Similarly, in his unpublished fieldnotes on Lue dialects, Gedney shows a /v-/ for both Chieng Rung and Moeng Yong. In syllable final position a /-w/ is used, as solution to the problem, which is quite like that of the Fippingers (1970), whose phonemic chart of Black Tai phonemes reads, in part:

<table>
<thead>
<tr>
<th>Labial</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>v-</td>
<td>-w</td>
</tr>
</tbody>
</table>

Classical phonemic theory, of course, forces the use of either /v/ or /w/ but not both. In other transcriptions we find w- and -u. Fu (op. cit), for example, uses v-, xv- and -u in his citations.

From the standpoint of phonemic theory, the ideal solution is the one used by Li (1964) where he uses /w/ as his general symbol even though it usually approximates /v/ in syllable initial positions. Still it is intriguing to find that Li uses /w/ in his study of Wuming but /v/ for his analysis of Po-ai and Zhuang. A similar shift is seen in Gedney, who has /v/ in Yay and Saek as well as /v/ in Shan of Chefang, Tai Neua, Khuen and Shan of Keng Tung but /w/ for Shan of Hsi Paw: wool, ox, wi\textsuperscript{4} fan (fieldnote citations).

Egerod consistently uses w in his phonemic charts for Shan, Khuen, Northern Thai and other Thai dialects. Purnell uses w in his Northern Thai dictionary. Davis has w for his description of the Nan dialect. We cannot be sure if they are merely following the ‘Haas tradition’ of using w for Siamese, if they are seeking an ideal phonemic solution to the problem, or if the w rather than v reflects linguistic reality for those dialects.

Up to this point in the comparison of Lue initial consonants with those of surrounding dialects, it is clear that the differences are not great except for Shan. Compared to Siamese, Shan has several changes which are unique among the dialects in the S.W. branch: Siamese b > Shan m, w; Siamese d > Shan n, l; Siamese f > Shan ph; Siamese ch and c > Shan sh. What we have seen and said of Lue initials thus far indicates its dissimilarity to Shan. However, when we examine variation in Lue in greater depth in the next chapter, we will see that Lue points in the western half of Sipsongpanna have Shan initials: m, w and n, l and ph. The Mekong River, which bisects the Lue area of Sipsongpanna, is a major isogloss for these features in Yunnan at least. This does not appear to hold true for vocalic changes which we shall presently examine.

First we shall briefly compare consonant clusters. In spoken Lue of Chieng Rung, the only clusters found in the description of Fu (1956) are kv- and xv-. Otherwise the only other significant development of clusters from Proto-Tai is that *br and *gr appear as ph and kh, x aspirates in the modern Lue low class initial series.

Despite the general observation that only two clusters are found in contemporary Lue and most of the surrounding dialects, other data include some more rarely spoken and literary clusters. The following chart has been prepared showing possible ones. No attempt is made to trace their historical development.
Comparing different sets of data leads to the conclusion that the status of clusters in various dialects is quite uncertain. The 17 clusters for Shan come from Egerod (op. cit.). Contrast this with only three in the Shan study by Phanthumetha (1961): pr, kw, and khw. To the Northern Thai clusters shown (Egerod 1961), adds jw and sl. Roffe (1946) has, for Lao of Luang Prabang, cw, kw, thw, khw, sw, nw, lw, ha. It is clear that many of these more exotic clusters are literary only. The final certainty is that the clusters kw and khw are stable everywhere and comprise the main clusters in the northern geographic points of the Southwestern branch. As we move south toward Bangkok and Southern Thailand, the number of clusters increases, especially those with l or r as a second member. Suffice it to say that in spoken Lue in general, we can expect to find only xw, khw (xw ~ khw) and kw. Sarawit (1973) shows the historical development of clusters using data based on speech rather than literary sources.

When we turn our attention to systems of vocoids, the link between Lue, Shan, Khuen and White Tai is confirmed even more. Unlike Northern Thai, Siamese and Lao which all have the diphthongs [ia], [ia], [ua], these four more northerly dialects have none at all. We find instead that they have been lowered and shortened in length to [e], [a], and [o] respectively.

A second feature is vowel length. In every dialect in the Tai language family, there is a length distinction between [a/aa]. The former is higher and farther back, the latter lower and more central. By using the distinctive feature of height rather than length, length does not need to be considered phonemic in those systems that do not have length contrast in the other vowels. This is the case with respect to Lue of Cheng Tung (Li 1964). That system is shown below.
Finally, we turn to the compendious work of Brown (1965) as arbiter. Surprisingly, he undoes the work of most of the scholars just mentioned. He shows a v all the way from Shan and Chiengmai dialects down through Bangkok. Haas (1964) and most concerned linguists show a w initial for Siamese (Central or Bangkok). Even Brown (1969) himself later opts for w in his A. U. A. Thai language series. Still, in his comparative work (1965), only the Southern Thai dialects starting at Chumphon exhibit a [w]. The possibility exists that Brown’s earlier (1965) solution for v and w is linked to initial clusters involving [w/v] as the second element. In his Bangkok chart, no clusters appear; a v is convenient there as an initial. On the other hand, for Yala and Satun we find a few clusters and the necessary initial [w].

If we were to attempt to draw an isogloss separating v from w, in the Southwestern branch at least, it would be an impossible task using the data we have. Taking a temporary stand, it seems safe to assume that [v] and [w] vary quite widely throughout most of the Southwestern region. In Cambodian, v and w also vary, suggesting a regional feature (Ehrman 1972). In general, the data suggest that v be reserved for the dialects of the northern geographic reaches (White Tai, Lue, Shan, Khuen, Tai Neua) and [w] for the lower portions (Lao, Siamese, Southern Thai). It may turn out that the Northern Thai region is a transitional zone for [v] and [w], as it appears to be for [kh] and [w].

This same description applies to Shan (Egerod 1957), White and Black Tai (Gedney 1964). In most of Lue of Sipsongpanna (Fu 1956) the situation can be considered the same. In a small district of Sipsongpanna, vowel length does appear to be phonemic in the speech of speakers of all age groups. In some other areas, older speakers in Sipsongpanna maintain the length distinction, while the younger do not. As we move southward into the Lue community of Moeng Yong, it appears that vowel length is phonemic. But again, it may depend on the age and personal history of the speaker. The Lue in Thailand likewise may be preserving an older distinction or may have acquired it through contact with Standard Thai taught in the schools and reinforced by the Siamese alphabet.

The map in the following page displays an isogloss separating the northern region, where vowel length is not phonemic, from the southern portions where vowel length contrasts are more common but still not of great significance in terms of functional load.

To illustrate the transition from absence of phonemic vowel length to partial, examine Khuen. While the Khuen system is generally viewed as having phonemic vowel length, the three central vowels – [e, a, o] – are short only before a final glottal stop, clearly non-phonemic. For a fuller discussion of vowel length see Sarawit (1973) and Hartmann (1976a).

Similarly, Lue of Moeng Yong analysed by Sarawit (1973) shows an absence of vowel length contrasts on the high vowels on live syllables. We assume from her rule that these same

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12 Ehrman (1972) says: ‘The Cambodian /w/ varies from speaker to speaker. Some speakers pronounce it like English w but others pronounce it like English v but with both lips rather than the upper lip and lower teeth as in English’. The same appears to be true in Tai dialects in contact with Cambodian at one time or another, but, in particular, those of more recent contact, such as Lao and Northeastern Thai. In Cambodian, it could probably be shown to be a sociolinguistic variable; v appears to be the prestige form.
vowels contrast on dead syllables. We can schematize the transition or gradual change of vowel length contrast below the isogloss shown on the following chart using the Khuen and Lue data.

In addition to the general absence of vowel length and the lowering of diphthongs to single vowels, a unique vowel raising phenomenon called nasal umlaut by Li (1964) exists in all varieties of Lue and White Tai. Defined as a raising of vowels corresponding to Siamese /e/ and /u/ before a final nasal, Li gives the following examples:
Siamese  /khon/  person    Lue  /kun^2/
/pen/  to be          /pin/
/doɔ/  forest       /duɔ/
/phom/  hair        /phum/

The debate over the historical development of vowel length is discussed further in Hartmann (1976a), F. K. Li (1977) and Brown (1979). Brown’s solution is for Proto-Thai (Siamese); Li’s is for Proto-Tai, as it is commonly known (three branches).

Final nasal environments shorten the front and back low vowels in the Lue of Moeng Yong.
The rules according to Sarawit are as follows:

*ɛːɛ / _________
{Nasal
Glide
{[+labial]

*ɔːɔ / _________
{Nasal
Glide
{[+palatal]

We might note that in other White Tai, Lue and Shan data, there appears to be a raising of Siamese /a/ to /i/, completing the raising of all mid vowels to high in the environment of final nasals. For example, in the speech of some informants we find /pin/ silver. Until more data are available, it is best to treat these items as exceptions.13

Quite possibly the most exclusively Lue feature is the raising of Siamese /a/ to Lue /ɛ/ when ‘flanked by a dental or prepalatal initial and a dental final’. Li (1964) gives the following examples.

Siamese  /tat/  ‘to cut’    Lue CT  /tɛt/
/sat/  ‘animal’     /sɛt/

Sarawit (1973) shows the same phenomenon for Lue of Moeng Yong in her rule:

*a a, ɛ / C __________ C
[+dental] [+dental]

Up to this point we have been considering the difference between the vocalic nucleus of Tai Lue and other dialects. The only bothersome issue is whether or not vowel length should be considered phonemic in Lue, or even if the emic/etic distinction is a useful notion.

For White Tai, Shan and Lue of Cheng Tung, it was possible to argue conclusively that vowel length was not distinctive. With those three dialects, then, the emic statement captures a very important generalization. But when we turn to other dialect areas and the speech of different age groups, the emic notion is more difficult to apply. For one thing, vowel length does not always cover the whole vocalic array as illustrated in the Khuen of Keng Tung, and Lue of Cheng Tung data that are available. When it comes to Northern Thai, the situation is

13 Conversely, in Northern Thai, Hope and Purnell (1962) report:
Frequently, /y/ before /k,n/ becomes /a/ in Northern. In Lue too, we find /dɔk/ ‘late at night’ and /sɔk/ ‘war’ for Siamese /dik/ and /sik/. (Lue citations - high tone; Siamese - low tone.)
more difficult to describe in emic terms. In a brief footnote to his work on Northern Thai, Mundhenk (1967) appears to deny any length distinction whatsoever – except [a, aa]. Contrariwise, in the glossary to his translation of a Northern Thai poem based on two oral renditions, Egerod (1971) shows length variation for all of the vowels except [i], and that single exception may be an oversight. Either this means that a conclusive statement about phonemic length cannot be made for Northern Thai or that the distinction is being lost. This unclear picture serves as a cautionary note to anyone doing further fieldwork in Tai dialects.

Certainly for the majority of Lue speakers, vowel length is not distinctive, based on all of the information at our disposal. Variation does exist, however. In the next section, we shall deal with several aspects of variation in Lue in detail.

7.3. VARIATION

The focal point of this chapter will be the dialect map adapted from the admirable work of Fu et al. (1956) referred to in the previous chapters. A copy of their map follows on page 289. On it I have summarized the information on differences in initials found in the three subdialect areas of Sipsongpanna, the area covered by the map. It is this region which has been traditionally regarded as the home of the Lue, the place where they are found in largest concentrations. The capital, Chiang Rung, is shown on the map on the left bank of the Mekong River where it flows out of Yunnan, and into adjoining Burma, Thailand and Laos. This city and the dialect region it dominates naturally have all of the features identifiable as typical Lue speech as outlined in the preceding chapter. In abstracted form, the map shows how the lower half of Sipsongpanna has strictly Lue-like features, while the upper half shows distinct signs of Shan-like features.

Perhaps the most interesting free variant is the /x/ ~ /kh/ oscillation reported throughout all of Sipsongpanna. Apparently this same variation extends into Northern Thai as well. In their language instruction text for Northern Thai, Hope and Purnell (1962) indicate that /kh/ can also be pronounced as ‘/x/ (voiceless velar fricative) or /khx/ combination of the two’. In the preceding chapter, it was seen that /x/ contrasts with /kh/ in White Tai, while /kh/ alone appears in Lao and Siamese.

Similarly, region II in Sipsongpanna has the noticeable free variant /ph/ ~ /f/, showing a transition to the unique Shan feature of /ph/ where other dialects use /f/ only. There is no indication in any publications on these dialects that these are socially conditioned variations. From an anthropological standpoint, it would be enlightening to find out if the speakers in region II or III regard themselves as Lue or Shan or perhaps even Tai Neua.
There is a socially conditioned variant report by Fu (op. cit.) for Lue of Chieng Rung. It mirrors exactly the same phenomenon found in Bangkok speech by Beebe (1974). In the Lue case, the conditioning factor is literacy. For those who are literate a h:l distinction can be found in Siamese h:r cognates. For the illiterate the contrast merges to /h/.

The following list shows the conditioning effect of literacy on the speech of the Lue. No reference is made to socioeconomic class differences. It is probably the case that the former and present ruling classes are of necessity more literate than the peasantry. The comparisons are between standard written Thai and Lue of Chieng Rung. The data are taken from Fu (op. cit.).

(Adapted from Fu Mao-Chi et al., 1956)
In an additional note, the authors state that the illiterate change *r to h- completely, but the literate confuse *r with r-, hr- or hl in addition to l ~ h. It is not clear whether or not a reading pronunciation is meant here. That is, it may be the case that subjects were asked to read from texts and gave all of these variant pronunciations for r- cognates. By the same token, it is even more remarkable to note that Li (1964) has /hr/ as a phoneme in his analysis of Lue of Cheng Tung. He reports:

The phonemic status of /hr/ is interesting. It often alternates with /h/ in tone 2, 4, and 6 ..., /hr/ being the literary and more formal pronunciation, and /h/ being the common form. Thus a word like /hray2/ chicken flea, is likely to be pronounced with /h/, while a word like /hra2-ca4 ma2ta/ mother of a prince, is likely to be pronounced with /hr/.

When we turn our attention to variation in vowel length, diversity is not as great as it was for initials. In the previous chapter, it was stated that, in general, vowel length is not phonemic for Lue of Cheng Tung (Li, 1964) or for Lue of Chieng Rung (Fu, 1956). For Lue of Moeng Yong, Burma and Lue of Chiangkham, Thailand, length distinction varies depending on the vowel height, the age or location of the speaker or other incompletely studied variables. Here we wish to demonstrate only that phonemic vowel length is not to be found throughout most of Sipsongpanna. Again we refer to the map adapted from a translation of the work of Fu (1956). In only one small pocket southeast of Chieng Rung is vowel length phonemic for all age groups (See Map 7.3-2). A generational difference does appear at two points: Chieng Rung and Meng-Hai. There, the older speakers maintain a u:uu and e:ee contrast. Otherwise vowel length differences are phonetically conditioned. In dead syllables with a rising tone, all vowels are lengthened (cf. Li 1964). In another case reported in unpublished notes, Gedney found that his chief Chieng Rung informant has a length distinction between e:ee and o:oo before nasals. Along the same lines, Sarawit’s (1973) rules for Lue of Moeng Yong show an absence of phonemic contrast for the high vowels.
These geographical and generational differences in vowel length distinctions appear to be somewhat idiosyncratic. Or quite possibly they argue well for the theory of lexical diffusion as put forth most recent by Chen and Wang (1975). In that theory of linguistic change, systems are transformed not by sudden and wholesale replacements or alterations of rules. Instead, change is selective and enters the language partially, though regularly, with a preference for naturalness conditions that are not always easy to explain. Thus in Siamese, there is a definite preference for vowel length with the low series: aa, ææ, oo, and the high central vowel ii. In the tonal category *C, vowel length is promoted or at least preserved in Siamese. These detail and supporting data are presented at length by Hartmann (1976a), Li (1977) and Brown (1979).

It is certainly clear that in most Tai dialects, vowel length is not phonemic. In the Proto-Tai reconstructions of both Brown (1965) and Sarawit (1973) vowel length is clearly distinctive. One assumes that the loss of length contrast, along with the loss of distinctions in the initials was absorbed by the development of tonal distinctions resulting from the two- and three-way splits. Similarly for Chinese, Chen and Wang found that of 600-odd dialects they studied, vowel length was phonemic only in Guangzhou and a few Mandarin dialect of Hebei province.
The loss of vocalic length contrasts in the other Chinese dialects apparently was compensated for by the development of tonal differences. The following quote from Chen and Wang (1975) might well parallel what has happened to vowel length in Tai, historically speaking:

A comparative study of a fairly representative sample of Chinese dialects suggests that the phonemic contrast of vowel duration either quickly disappear, being highly unstable, or was re-interpreted as a distinctive pitch contour.

A final variant in Lue worth commenting on, if only for its unusualness, is syllabic ̃. Because it varies chiefly with the full or partially reduced forms for the negative baw1,2 or ba-5, it might be considered a lexical variant as well. But here we take the theoretical stand of Pike (1967) which asserts the obvious overlap of phonology, grammar (syntax) and lexicon (semantics). Because the negative in Lue is in a syntactically weak position typical of function words, it is, as in English, subject to reduction in stress – a phonological phenomenon – and is realized by three apparently different lexical forms.

By way of comparison, syllabic ̃ is found in Northern Thai (Hope and Purnell 1962) as a variant of ba-, a prefix used to indicate fruit and some other roundish, lumpy objects. In Shan, mk is used, as in Lue, to express negation (Cushing 1914; Egerod 1957). Likewise, Cantones and Cambodian use syllabic mk in negation. In Lue, however, ̃ represents at least four other different morphemes. The details are presented in Hartmann (1975).

From the standpoint of phonology, the syllabic ̃ in Lue is remarkable in that it has two tones depending on the tonal category of the following morpheme. Accordingly, ̃ (mid-rising) is followed by syllables bearing tones 1 or 4, the tones of the A column in the charts of historical development of tones. Syllabic ̃ (high-level) is followed by syllables bearing tones 2, 5 (column B), 3, 6 (column C). In synchronic terms, the difference between the A tonal environment on the one hand, and the combined B-C category on the other, is that the former has a higher entry point for the tones (1 & 4) than the latter (2, 3, 5, 6).

Assuming that a reduction of stress precedes the reassignment of tone 1 or 2 to ̃, a final polarization rule can be used to explain the bitonal nature of the syllable.

\[
\tilde{m} \rightarrow [\alpha \text{H}] / [\text{low} + \text{high pitch}] \\
\text{Or in more concrete terms this means}
\]

\[
\tilde{m} \text{ (unstressed) + } \begin{cases} 
\tilde{m}^2 \text{ (low) } / \text{high pitch} \\
\tilde{m}^3 \text{ (high) } / \text{low pitch}
\end{cases}
\]

It should be understood that the actual shape of tone 2 is mid-rising. But for purposes of polarization, it is relatively low with respect to tone 1, which is, in fact, high level.

As a phonological/lexical innovation, then, syllabic ̃ is presented as a variant of Lue baw2 ‘not’, maak2 ‘fruit’, bak1 ‘prefix used for young males, informal’, mii6 ‘day (linear time)’, the vocative prefix as in ml poo ‘father dear’ and in the forms ml tuul ‘door’ and ml saa ‘what’. Because the syllabic mk is found in neighboring Shan and Northern Thai, though to a lesser extent perhaps, and in words of high frequency, this would be an important lexical/phonological isogloss showing the lines of communication among these dialects and the direction of change in Lue towards these more dominant speech communities.

Syllabic mk in Lue must be said to be a feature of ordinary speech. As for the ‘elevated speech’ of the sung narrative, only /baw2/ not appears. One informant, the 70 year old Caw Mom Laa, the last son of the former Prince of Chiang Rung, vehemently denied the existence of mk in any form of Lue. He, of course, was highly literate in Lue and was considered the final authority on all linguistic matters concerning Lue. The innovation of ̃ certainly is not
that recent, as the study by Fu et al. shows. But again, it shows that Lue has participated in changes developing in Shan and Northern Thai, both of which have the syllabic mk.

The same tendency of Lue to reduce the syllable to a syllabic (as in m) is found in polysyllabic words where the reduction results in phonetic ‘clusters’ that resemble the list of exotic phonemic clusters reported by Egerod for Shan and Northern Thai. Such Lue clusters would include sl-, sn-, phy-, sb-, pl-, ky-, xn-, phl-, kl-, none of which were reported earlier as genuine initial consonant clusters in the array of Chieng Rung phonemes.

Syllables involved in the reduction have the short central vowels /a/ and /i/ followed by the glottal stop when pronounced in isolation. In a context of reduced stress in rapid speech, the tone of the syllable (1- high level or 5- mid level) is neutralized and the vowel reduced to zero. Fu (1956) lists the following forms as illustration.

\[
\begin{align*}
\text{sa}^1\text{-la}^1\text{-ta}^2 & \text{ is read as sa}^1\text{-la}^1\text{-ta}^2 \text{ or sla}^1\text{-ta}^2 \text{ grandeur} \\
\text{sa}^1\text{-nam}^1 & \text{ is read as sa-nam}^1 \text{ or nam}^1 \text{ government} \\
\text{sa}^1\text{-nat}^1 & \text{ is read as sa-nat}^1 \text{ or snat}^1 \text{ secret} \\
\text{sa}^1\text{-mut}^1 & \text{ is read as sa-mut}^1 \text{ or smut}^1 \text{ sea} \\
\text{pha}^2\text{-ya}^3 & \text{ is read as pha-ya}^3 \text{ or phy}^3 \text{ wisdom} \\
\text{suk}^1\text{-sa}^1\text{-bay}^4 & \text{ is read as suk}^1\text{-sa-bay}^4 \text{ or suk}^1\text{-sbay}^4 \text{ good fortune} \\
\text{sa}^1\text{-sa}^1\text{-na}^5 & \text{ is read as sa}^1\text{-sa-na}^5 \text{ or saa}^1\text{-sna}^5 \text{ religion} \\
\text{pha}^2\text{-ya}^3 & \text{ is read as pha-ya}^3 \text{ or phy}^3 \text{ a title, rank} \\
\text{pa}^2\text{-la}^3 & \text{ is read as pa-la}^3 \text{ or pla}^3 \text{ to slip, fall} \\
\text{pha}^2\text{-yat}^5 & \text{ is read as pha-tat}^5 \text{ or phya-t sickness} \\
\text{sa}^1\text{-na}^5 & \text{ is read as sa-na}^5 \text{ affect, influence} \\
\text{pa}^2\text{-ya}^5 & \text{ is read as pa-ya}^5 \text{ or pya}^5 \text{ performance} \\
\text{xa}^2\text{-na}^5 & \text{ is read as xa-na}^5 \text{ or xna}^5 \text{ suppress} \\
\text{phi}^3\text{-tln}^6 & \text{ is read as phi-lin}^6 \text{ or philin}^6 \text{ scared and disperse, as a flock of birds} \\
\text{ka}^5\text{-ltln}^6 & \text{ is read as kaltln}^6 \text{ or klin}^6 \text{ noise of a cannon firing} \\
\text{pa}^2\text{-ycc}^2 & \text{ is read as pa-ycc}^2 \text{ or ycc}^2 \text{ comfort}
\end{align*}
\]

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CHAPTER EIGHT

THE TAI DIALECTS OF NGHẸ AN, VIETNAM (TAY DAENNG, TAY YO, TAY MUONG)

Michel Ferlus

8.1. INTRODUCTION


Les formes écrites *tai*, *tay*, *thai* et *thay* proviennent toutes du même étymon *daj* ‘population, êtres humains’. Le sens de ‘homme libre’ qu’on lui attribue parfois est probablement postérieur et lié aux anciennes structures féodales développées par ces populations. En dehors de son emploi d’ethnonyme, le sens primitif s’est bien préservé dans des expressions comme *thay ban* [tʰaj² baŋ] ‘les villageois’ (même s’ils ne sont pas d’ethnie *thai*). Cet étymon *daj* a évolué vers la prononciation [tʰaj²] en siamois et en lao, et vers [taj²] dans les autres langues des groupes *thai* et *tay*. Normalement donc, la forme *thai* (ou *thay*) [tʰaj²] devrait, en raison de sa prononciation, être réservée au siamois et au lao. Cependant, dans les écrits linguistiques et ethnographiques, son usage a été étendu aux autres langues, bien que ce vocable y soit prononcé [taj²], pour former le groupe nommé *thai commun* (ou *southwestern tai*). Au Vietnam, dont la langue nationale est romanisée, les auteurs ont retenu le terme *Thái* pour désigner globalement les ethnies du groupe des langues *thai* localisées au sud et au sud-ouest du Fleuve Rouge, et le terme *Tày* pour couvrir les ethnies du groupe des langues *tay*, *thô* et *nung* (en viet: *tày*, *thô* et *nung*) des provinces du nord. La cohabitation de toutes ces variantes phonétiques, orthographiques et sémantiques d’une même notion est une cause permanente de confusion et il faut une solide habitude aux spécialistes pour en maîtriser l’utilisation. Dans les limites de cette étude nous garderons *thai* (viet: *thái*) pour désigner l’ensemble des langues parlées par des populations Thai au sud et sud-ouest du Fleuve Rouge, mais nous utiliserons *tay* pour désigner chaque langue en particulier (tay noir, tay daeng, tay yo, etc.).
Le groupe des langues (désormais dites) thai forme un vaste ensemble qui couvre une partie de l’Asie du Sud-Est, depuis le Nord Vietnam jusqu’en Assam et vers la Péninsule Malaise. Toutes les langues thai sont très proches les unes des autres et il est très facile de reconstruire un proto thai (PT), autrement dit le thai commun de A. G. Haudricourt, ou encore un proto southwestern tai extractible des reconstructions de Li Fangkuei, quoique non exprimé en tant que tel.

Ici, nous traiterons des trois dialectes parlés dans la province du Nghê An, le tay daeng, le Tay Yo et le tay muong. Il faut bien insister sur le fait que les états de langue décrits ici ne sont représentatifs que du lieu de l’enquête (publiée ou inédite, récente ou ancienne) et ne doivent en aucun cas être considérés comme une norme.

8.2. LES THAI ET LES DIALECTES THAI DU NGHÊ AN

Les Tay Daeng [dɛŋʷ] (écrit aussi Dèng) sont appelés Tay Thanh ou Man Thanh par les Viet. Chez les auteurs occidentaux, ils sont souvent dénommés Tai/Tay rouges d’après la signification du mot ‘daeng’ et ce nom leur est encore fréquemment attribué dans la littérature. Toutefois, selon l’administrateur R. Robert (1941) qui leur a réservé une excellente et célèbre description ethnographique, leur ethnonyme proviendrait de Muong Daeng (aujourd’hui Yên Khương sur le haut Sông Mã), province de Thanh Hóa, d’où ils sont originaires et qui reste leur région par excellence. Nous pensons qu’il faut retenir cette explication et proscrire l’appellation de Tay rouge dans toutes les langues. Le terme thanh, plus particulièrement utilisé au Nghê An, est la forme vietnamisée de theng [tʰɛŋʷ], du nom de l’ancien Muong Theng des récits historiques, localisé dans la plaine de Dien Bien et considéré comme le berceau de la plupart des populations Thai du Nord-Laos et surtout du Nord-Vietnam. Dans les siècles passés, une forte expansion des Tay Daeng les a conduit dans la province de Sam Neua (Laos), où ils constituent aujourd’hui le fond de la population, et dans les districts de l’ouest du Nghê An. Ils sont parfois nommés Tay Meuy [mɛʊj] (écrit aussi Mœy) dans la langue de leurs voisins Tay Yo où ce terme signifie ‘groupe, gens’, et c’est par cet ethnonyme qu’ils sont également connus au Laos.


Les Tay Muong [mɨŋ²], ou Tay Pao [pɑw²] d’après le nom thai, Nam Pao, du fleuve Sông Cà, sont principalement localisés dans le district de Trương Đụng, d’ancien chef-lieu.


Nos enquêtes de terrain ont été menées grâce à la collaboration de M. Trần Trí Dội, professeur à l’Université de Hanoi, et de Mme Võ Thị Thu Trang, ethnologue au Musée d’Ethnographie du Vietnam.

8.3. GÉNÉRALITÉS PHONÉTIQUES

La structure du mot de base dans les trois dialectes, tay daeng (tay thanh), Tay Yo et tay muong, est strictement monosyllabique: CV(C)/T, (C: consonne; V: voyelle; T: ton).

Les trois systèmes d’initiales sont globalement les mêmes, mise à part la particularité du tay daeng où p^b n’est pas représenté (à la suite de sa confusion récente avec f). Cependant, si l’on envisage les unités de chaque système, non du point de vue strictement phonétique, mais du point de vue de la phonétique historique, on constate que certaines initiales reconstruites du proto thai peuvent, dans les correspondances lexicales, attester des réflexes différents selon les dialectes. Ces divergences concernent principalement les initiales *x*, *y* et *j* (aussi *gr>*j). Par ailleurs, les trois dialectes ont connu le même phénomène de dévoisement des anciennes occlusives sonores en sourdes non aspirées (*b- *d- ...> p- t-...*).

Les systèmes vocaliques présentent des différences portant sur la longueur pertinente; le Tay Yo et le tay muong n’attestent que a~a, tandis que le tay daeng possède en plus l’opposition dans les voyelles fermées i~i, i~i et u~u. En revanche et contrairement aux consonnes initiales, les correspondances vocales dans le vocabulaire commun entre les trois dialectes et le proto thai sont assez univoques. Ils ont en outre préservé la voyelle finale -ə du proto thai, voyelle qui, rappelons-le, est devenue -ai en tay noir et tay blanc, et s’est confondue avec -aj en siamois et en lao.

Les trois dialectes ont développé un même système tonal de base à six tons. Le nombre des tons a pu ultérieurement se réduire à cinq, suite à des confusions qui peuvent varier selon les dialectes. Nous suivrons les usages en vigueur dans la notation des catégories tonales: A B C (finales sonores), DL (finales sourdes, voyelles longues) et DS (finales sourdes, voyelles brèves), en combinaison avec les chiffres 1 (série haute) ou 2 (série basse). Dans les reconstructions du proto thai, seules les catégories A B C, qui indiquent les trois tons primordiaux, sont indiquées, les autres catégories DL et DS, ainsi que les séries 1 et 2, se déterminent par la simple observation du consonantisme de la forme reconstruite. Dans les listes comparatives on se contentera d’indiquer les catégories tonales (A1, A2, etc.) des correspondances. S’il y a disharmonie tonale dans une correspondance, la catégorie sera précisée après chaque terme. La mélodie des réalisations phonétiques des tons dans chaque dialecte est indiquée par un nombre composé de deux ou trois chiffres allant de [1'], son le plus bas, à [7'], son le plus haut, auquel peut s’ajouter une constriction glottale ['] . Dans cette étude, la manière de noter les tons dépendra des besoins. Dans les tableaux, la notation des tons sera la plus précise possible. Dans le vocabulaire des dialectes, la notation des tons sera allégée de la constrictio glottale en raison de son rôle distinctif phonologiquement très faible.


8.4. TAY DAENG (OU TAY THANH)

Les données proviennent de sources écrites, publiées (Gedney 1964, Robert 1941) ou manuscrites (Fénard 1920), et de données personnelles recueillies ces dernières années au Vietnam. Nos principaux informateurs ont été: M. Vi Văn An de Con Cuông (Nghệ An), ethnologue au Musée d’ethnographie de Hanoi; MM. Hà Anh Đức, Hà Công Tín et Khả Vấn Tiến de Mai Châu (Hoa Binh).

8.4.1. Système consonantique

<table>
<thead>
<tr>
<th>initiales</th>
<th>finales</th>
</tr>
</thead>
<tbody>
<tr>
<td>tʰ</td>
<td>kʰ</td>
</tr>
<tr>
<td>p t c k ?</td>
<td>p t k</td>
</tr>
<tr>
<td>b d</td>
<td></td>
</tr>
<tr>
<td>m n n n n</td>
<td>m n n</td>
</tr>
<tr>
<td>f s h</td>
<td></td>
</tr>
<tr>
<td>v j w j</td>
<td></td>
</tr>
<tr>
<td>l</td>
<td></td>
</tr>
</tbody>
</table>

L’absence d’un pʰ est le fait notoire du système des initiales du tay daeng (et aussi du tay noir). Cela est dû à la confusion, probablement récente, de pʰ attendu (issu de PT *pʰ et *pʰr > pʰ) avec f (issu de PT *f et *v > f). Donnons quelques exemples par comparaison avec le Tay Yo qui n’a pas connu cette confusion:

<table>
<thead>
<tr>
<th>tay daeng</th>
<th>tay yo</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1 fi:</td>
<td>pʰi:</td>
</tr>
<tr>
<td>A1 fum</td>
<td>pʰom</td>
</tr>
<tr>
<td>A1 fon</td>
<td>fin/fan</td>
</tr>
<tr>
<td>C2 fa:</td>
<td>fa:</td>
</tr>
</tbody>
</table>

A Mai Châu (Hoa Binh), on observe une tendance à la confusion de b avec v, au profit de l’un ou de l’autre, et pareillement de d avec l, parmi les locuteurs adultes. Curieusement, les distinctions sont rétablies dans la jeune génération, peut être sous l’influence du vietnamien.

8.4.2. Système vocalique

Le système comprend dix-sept unités phonétiques (sept longues, trois diphtongues et sept brèves) qui s’organisent en seize unités phonologiques.

<table>
<thead>
<tr>
<th>i</th>
<th>i</th>
<th>u</th>
<th>u</th>
</tr>
</thead>
<tbody>
<tr>
<td>e</td>
<td>æ</td>
<td>/</td>
<td>o</td>
</tr>
<tr>
<td>æ</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ia</td>
<td>ia</td>
<td>ua</td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>a</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

et s’est confondue avec aj en siamois (et en lao). Comparons:

<table>
<thead>
<tr>
<th>proto thai</th>
<th>tay daeng</th>
<th>tay noir</th>
<th>siamois</th>
</tr>
</thead>
<tbody>
<tr>
<td>*b^ma^B</td>
<td>B1</td>
<td>mai</td>
<td>maj</td>
</tr>
<tr>
<td>*maj^C</td>
<td>C2</td>
<td>maj</td>
<td>maj</td>
</tr>
</tbody>
</table>

Les emprunts au vietnamien en -ơ- tendent à introduire l’opposition ơ~ơ en syllabe fermée.

8.4.3. Système tonal

Le tay thanh (tay daeng du Nghe An) parlé à Con Cuông atteste un système tonal à cinq unités, les tons B2 et C1 s’étant confondus. D’après d’autres sources disponibles (Gedney 1964, Robert 1941, Fénart 1920) cette situation caractérise également les dialectes tay daeng parlés au Thanh Hôa et au Laos.

![FIGURE 8.4.3-1: TONS DU TAY THANH (Con Cuông, Nghe An)]

Signalons le cas intéressant des deux sous dialectes tay daeng à six tons parlés à Mai Châu (Hòa Binh), région excentrée aux limites de la zone proprement tay daeng et au contact des Muong (langue viet-muong).

À Mai Châu Thượng (Mai Châu ‘haut’) les tons B2 et C1 sont nettement distincts.

![FIGURE 8.4.3-2: TONS DU TAY DAENG (Mai Chau Thượng, Hòa Binh)]

En revanche, à Mai Châu Hạ (Mai Châu ‘bas’), limitrophe du précédent mais orienté vers le Thanh Hôa, les tons B2 et C1 ont la même mélodie et ne se différencient que par une légère constriction glottale qui n’est réellement audible que dans une prononciation soignée. On peut penser que ces deux tons sont sur le point de se confondre.

![FIGURE 8.4.3-3: TONS DU TAY DAENG (Mai Châu Hạ, Hòa Binh)]

Le fait le plus remarquable des deux variantes dialectales de Mai Châu reste la confusion les tons DS1 et DS2, fait assez rare dans le groupe thai. Ainsi, les mots issus de PT *lak ‘voler, dérober’ et *b^lak ‘poteau’ ont la même prononciation, [lak^33] à Mai Châu Thượng et [lak^22] à Mai Châu Hạ.

8.4.4. Notes grammaticales

Les différences dialectales sont minimes et ne semblent dues qu’à l’influence des langues voisines (lao, tay yo). Les tons des particules et des exemples sont ceux du tay thanh de Con Cuông; les tons des extraits de texte sont ceux du tay daeng de Mai Châu Hạ.

**Groupe verbal:**

Marques et modalités placées avant le verbe: saŋ^45 si^21 action en cours, ‘en train de’; naj^21 ‘en train de, encore’; daj^312 passé; ci^312 [ci] futur; mom^31 passé, ‘terminé de’; bɔ^312 /
baw³¹² négation; na²¹ impératif négatif; ho³¹² ‘faire que’. Placées après le verbe: le:w³¹ passé; daj³¹² / daj³¹² le:w³¹ possibilité; baw³¹² interrogation; la:⁴⁵ expressif de politesse (en fin de phrase).


Interrogatifs:


Pronoms personnels:
kʰu⁴⁵ ‘je’; kʰo:j³¹² ‘je’ (poli); min⁳¹ ‘tu’; tan²¹ ‘tu’ (poli); man²¹ ‘il, elle’; haw²¹ ‘nous’; su⁴⁵ ‘vous’; kʰa:w⁴⁵ ‘ils, elles’; piŋ³¹² ‘ils, elles, on’. L’expression tij⁴⁵ laj⁴⁵ ‘tous’ rajoutée à un pronom singulier sert à former le pluriel: haw²¹ tij⁴⁵ laj⁴⁵ ‘nous tous’; tan²¹ tij⁴⁵ laj⁴⁵ ‘vous tous’.

Démonstratifs:
ni³¹ ‘ce...ci’ (rapproché); nan³¹ ‘ce...là’ (distance moyenne). Exemples: kun²¹ ni³¹ / fu³¹² ni³¹ ‘celui/celle-ci’; kun²¹ nan³¹ / fu³¹² nan³¹ ‘celui/celle-là’; ?an⁴⁵ ni³¹ ‘ceci’; ?an⁴⁵ nan³¹ ‘cela’.

Nombres et classificateur:
L’ordre le plus usité est nom–nombre–class. (maª¹ sǎŋ⁴⁵ to⁴⁵ ‘deux chevaux’), mais l’ordre nombre–class.–nom (sǎŋ⁴⁵ baː⁴⁵ toːuaj³¹² ‘trois tasses’) est également très fréquent.

Principaux classificateurs: kun²¹ / fuː¹² personnes; ?on⁴⁵ personnes importantes; to⁴⁵ et me³¹² animaux; ?an⁴⁵ objets en général; kaː⁴⁵ arbres; baː⁴⁵ objets plats, feuilles, assiettes; mak⁴⁴ couteaux, manches; mak³¹² fruits, formes rondes; naː⁴⁴ objets ronds, oeuvs, noix d’arce; mi⁴⁴ grigns, pilules; hua⁴⁵ tubercules; lam²¹ objets longs, tubes, bateaux; laj⁴⁵ maisons; ñǐ⁴⁵ étoffes, nattes; koː⁴⁵ morceaux; tʰen⁴⁵ lingots; sen⁹²² ficelle; toːuaj³¹² terrains, rizières; kʰaː⁴⁵ armes à feu; ham²¹ rouleaux; pap⁴⁴ livres.

Phrases diverses:
Extraits d’un texte de rituel des funérailles, psalmodié pour guider les âmes du défunt vers le pays des ancêtres. Les tons sont ceux du sous dialecte de Mai Châu Ha.

ni⁴⁴ na²¹³ tʰaŋ⁴⁵ ci⁴⁵ ha²¹³ kʰam³¹³ ‘Année du cheval (Nhâm Ngo), neuvième mois, cinquième jour [14 octobre 1942]’; keː⁴⁵ bía⁴⁴ sãːŋ⁴⁵ paj⁴⁵ taj²² jau²² ‘j’écris le texte Suivre le long chemin’; ...kaj³¹² nan³¹ log⁴⁵ tak²² sãːŋ⁴⁵ nan⁴⁵ log⁴⁵ pai⁴⁵ nan⁴⁵ ‘en face de l’endroit où la princesse a barré le fleuve, [les eaux passent] en vague’; koː₂² du⁴⁵ taː¹² hia²¹ luaj⁴⁵ laj⁴⁵ ‘[elle] attend de voir les grands bateaux descendre’ taw⁴⁵ faw³¹² du⁴⁵ taː¹² hia²¹ laj⁴⁵ log⁴⁵ ‘pour surveiller les grands bateaux qui descendent [et se saisir des âmes]’; ...kaj³¹² nan³¹ log⁴⁵ tak²² saː¹² fàː⁴⁵ taŋ³¹² faː⁴⁵ taj³¹² faː⁴⁵ ‘Après cela, descendre à l’endroit ou les falaises se dressent face à face’; boː⁴⁵ ñàː⁴⁵ boː⁴⁵ kʰam²² la:²¹ nan³¹ ‘il y a] des mines d’argent et d’or sous l’eau’; ...kaj³¹² nan³¹ tak²² mia²¹ hau³⁵ bok⁴⁵ bua³² tiː¹² kaw⁴⁵ ‘Après cela, arriver à l’ancien ruisseau aux fleurs de lotus’; ...kaː⁴⁴ ni³¹ kʰin⁴⁴ hian²² caw²² cet²² sip²² cam³¹ ‘jusqu’ici, monter à la maison [des ancêtres] du clan, [il y a eu] soixante-dix haltes’; kʰo:j³¹² ni³¹ caŋ⁴⁵ kʰin⁴⁴ hian²² tʰen⁴⁵ ‘sortant d’ici, monter vers la maison des Then [divinités célestes]’.
8.5. TAY YO


8.5.1. Système consonantique

initiales    finales
\[\begin{array}{llllll}
p^h & t^h & k^h & p & t & c/k \\
b & d & m & n & \eta & m & n & \eta \\
f & s & h \\
v & j (z) & w & j & \lambda \\
\end{array}\]

L’influence du vietnamien se fait fortement sentir sur la prononciation du tay yo. L’initiale palatale j est fréquemment prononcée z. Les finales palatales c-\eta se sont développées sous l’influence des finales ch-nh du viet.

Le Tay Yo (et aussi le tay muong) se singularise par une évolution originale des fricatives vélaires initiales du proto thai: *x > h et *y > k :

\[
\begin{array}{llll}
proto
\text{thai} & tay
daeng & tay
yo \\
\hline
*x:\nA & k:\n\h & \h & \h & bras' \\
*x:\nC1 & k:\naw & \haw & \haw & enterre' \\
*x:\nA & k:\nun & \hon & \hon & poil' \\
*x:\nDL1 & k:\nxat & \h\h & \h\h & 'déchiré' \\
*y:\nA2 & k:\nwa & \kwaj & \kwaj & 'buffle' \\
*y:\nA2 & k:\nam & \km & \km & 'or' \\
*y:\nB2 & k:\n\e\n & \ke\n & \ke\n & 'mollet' \\
*y:\nDL2 & k:\nep & \ke\n & \ke\n & 'étroit' \\
\end{array}
\]

Tandis que PT *k^h > k^h et *g > k comme dans les autres langues thai (excepté en siamois et en lao où *g > k^h):

\[
\begin{array}{llll}
\k^h:\nC1 & k:\naw & \k^h\aw & \k^h\aw & 'riz' \\
\k^h:\nA1 & k:\n\e\n & \k^h\\e\n & \k^h\\e\n & 'dur' \\
\g\nA2 & \k^n & \km & \km & 'fils' \\
\g\nA2 & \km & \km & \km & 'salé'
\end{array}
\]
8.5.2. Système vocalique

Le système comprend dix-neuf unités phonétiques (neuf longues, trois diptongues et sept brèves) qui s’organisent en treize unités phonologiques.

\[ \begin{align*}
  i &: /i/, \quad i_u: /u/ \\
  e &: /e/, \quad o: /o/ \\
  ia &: /\text{a/}, \quad ua \\
  a &: /\text{a/}
\end{align*} \]

Dans le système vocalique du tay yo, la paire a~a est la seule opposition de longueur. Les termes de chacune des six paires i~/i/, e~/e/, u~/u/, æ~/æ/, ø~/ø/, et o~/o/ sont en distribution complémentaire, les longues n’apparaissant que dans les syllabes ouvertes, et les brèves dans les syllabes fermées. Pour éclairer ces problèmes de distribution, nous donnons ci-dessous les sous systèmes vocaliques selon les contextes.

\[
\begin{array}{cccccccc}
  \text{finales } p-m & \text{et } t-n & \text{finales } c-\eta & \text{finales } k-\eta \\
  i & i & u & i & i & u \\
  e & æ & o & æ & o & æ \\
  ia & ia & ua & ia & ia & ua \\
  a & a & a & a & a & a
\end{array}
\]

La rime -o~/j n’apparaît que dans des emprunts. Les finales palatales c-~ sont en distribution complémentaire avec les vélaire k-~ à l’instar de finales ch-nh par rapport à c-ng en viet. Les rimes -ic/-ac (et -i~/ø/) du Tay Yo correspondent aux rimes -i~/k/-ø/) des autres langues du groupe thai. Donnons quelques exemples:

\[
\begin{array}{cccccccc}
  \text{proto thai} & \text{tay daeng} & \text{tay yo} \\
  *pič & DL1 & pič^DL1 & pie(=\text{DS2}) & \text{‘aile’} \\
  *ličA & A2 & lič & lič(=\text{DS2}) & \text{‘singe’} \\
  *teč & DL1 & teč^DL1 & tac(=\text{DS2}) & \text{‘cassé’} \\
  *kʰččA & A1 & kʰčč & kʰčč & \text{‘dur’}
\end{array}
\]


8.5.3. Système tonal

\[
\begin{array}{ccccccc}
  & A & B & C & DL & DS \\
\end{array}
\]

**FIGURE 8.5.3-1:** TONS DU TAY YO (Quy Châu, Nghê An)

La caractéristique la plus remarquable de ce système tonal réside dans la confusion des tons
DL1 et DL2. Ce fait, que le Tay Yo partage avec le tay muong, est unique dans toute la famille des langues tai-kadai. Ainsi les deux vocables ‘exposer au soleil’ et ‘sangsue de terre’, distincts en proto thai et en tay daeng (ici Mai Châu Hạ), sont homophones en tay yo.

<table>
<thead>
<tr>
<th>Proto thai</th>
<th>tay daeng</th>
<th>tay yo</th>
</tr>
</thead>
<tbody>
<tr>
<td>*tak</td>
<td>ták DL1</td>
<td>ták¹¹</td>
</tr>
<tr>
<td>*dák</td>
<td>ták DL2</td>
<td>ták¹¹</td>
</tr>
</tbody>
</table>

La rareté de ce type de confusion permet de l’utiliser comme traceur linguistique pour suivre les migrations vers le Laos et le nord-est de la Thaïlande. Elle est, par exemple, attestée dans la langue des Phou Thai du Centre-Laos, ce qui permet de confirmer que cette population est bien originaire du Nghê An. Il en est de même pour les Tay Mène et les Tay Nyo.

La détermination des tons dans les mots comportant les brèves fermées i u devant les occlusives finales p t c/k dépend de la qualité longue ou brève de la voyelle dans les mots correspondants en proto thai et dans les autres langues thai ayant préservé cette distinction. Ces faits nous amènent à penser que le Tay Yo (et aussi le tay muong) possédait autrefois l’opposition de longueur pour les voyelles fermées devant les occlusives finales. A la suite de la confusion générale des tons DL1 et DL2, les mots Tay Yo en voyelles brèves fermées, correspondant à des longues en proto thai et en tay daeng, se retrouvent à la suite de l’abrévement vocalique au ton DS2, quelle que soit la qualité sourde ou sonore de l’initiale en proto thai. L’abrévement vocalique a donc eu lieu après la confusion des tons. Cette situation n’est qu’en apparence contraire au schéma de la tonogénèse.

<table>
<thead>
<tr>
<th>proto thai</th>
<th>tay daeng</th>
<th>tay yo (*DL1/2&gt;DS2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>*pík</td>
<td>pik DL1</td>
<td>pik DS1</td>
</tr>
<tr>
<td>*sík</td>
<td>sík DL1</td>
<td>sík DS1</td>
</tr>
<tr>
<td>*cut</td>
<td>cut DL1</td>
<td>cut DS1</td>
</tr>
<tr>
<td>*ruk</td>
<td>huk DL1</td>
<td>huk DS1</td>
</tr>
<tr>
<td>*puk</td>
<td>puk DL1</td>
<td>puk DS1</td>
</tr>
<tr>
<td>*duk</td>
<td>duk DL1</td>
<td>duk DS1</td>
</tr>
<tr>
<td>*mit</td>
<td>mit DL2</td>
<td>mit DS2</td>
</tr>
<tr>
<td>*vip</td>
<td>kip DL2</td>
<td>kip DS2</td>
</tr>
<tr>
<td>*vuk</td>
<td>fuk DL2</td>
<td>fuk DS2</td>
</tr>
</tbody>
</table>

En revanche, dans les mots en voyelles fermées originellement brèves, les correspondances tonales attestent régulièrement la distinction entre DS1 et DS2.

<table>
<thead>
<tr>
<th>proto thai</th>
<th>tay daeng</th>
<th>tay yo</th>
</tr>
</thead>
<tbody>
<tr>
<td>*sip</td>
<td>sip DS1</td>
<td>sip DS1</td>
</tr>
<tr>
<td>*tik</td>
<td>tik DS1</td>
<td>tik DS1</td>
</tr>
<tr>
<td>*kup</td>
<td>kup DS1</td>
<td>kup DS1</td>
</tr>
<tr>
<td>*suk</td>
<td>suk DS1</td>
<td>suk DS1</td>
</tr>
<tr>
<td>*(luk</td>
<td>luk DL2</td>
<td>luk DS2</td>
</tr>
<tr>
<td>*luk</td>
<td>luk DS2</td>
<td>luk DS2</td>
</tr>
</tbody>
</table>

On peut penser que la perte de l’opposition de longueur pour les voyelles fermées i u est la conséquence de l’influence directe des unités homologues i ur u du vietnamien pour lesquelles cette opposition n’existe pas.

Le système tonal du tay maen (mène) donné par J. R. Chamberlain (1991: p. 108) représente un état intermédiaire entre celui du Tay Yo de Quy Châu et celui du tay muong de Tương Đrong. Il confirme la confusion des tons DL1 et DL2 mais s’en différencie par la confusion des tons B1 et B2, confusion également attestée en tay muong. En quelque sorte, le tay maen assure la transition entre le Tay Yo et le tay muong, ces derniers n’étant, il faut le rappeler, que des sous dialectes d’une même langue. Notons que le lieu d’origine des Tay Maen est justement située dans le nord-est du district de Tương Đrong en direction de Quy Châu.
8.5.4. Notes grammaticales


Groupe verbal:


Interrogatifs:


Prénoms personnels:

Démonstratifs:
ni:53 ‘ce…ci’ (rapproché); ?a:13 ‘ce…là’ (moyen); na:33 ‘ce…là’ (loin devant, en face); ?un:31 / ?em:31 ‘ce…là’ (loin, autre); han:53 ‘ce…là’ (autre). Les démonstratifs se placent toujours après le déterminé.


Nombres et classificateurs:


Phrases diverses:
1: kʰaŋ³³ məj⁵⁵ rəŋ³³ ʔaː⁵³ maː⁵⁵ hian⁵⁵ lew⁵³ ‘J’ai invité cette personne-là, [elle] est arrivée chez moi’.

2: man⁵⁵ mia⁵⁵ hian⁵⁵ faŋ⁴³ viː⁵⁵ man⁵⁵ miː⁵⁵ viak¹¹ kaŋ³³ ‘Il rentre à la maison parce qu’il a du travail’.

3: pʰaŋ¹³ puk¹¹ kɔː⁵³ məj⁵³ nîŋ³³ kiː⁵⁵ saː⁵³ kɔː⁵³ baː⁵³ ‘Il faut planter un arbre comme arbre [banian] aux génies’; niː⁵³ puk¹¹ kəm⁵⁵ bəm³³ ‘il est planté à la lisière du village’; kɔː⁵³ baː⁵³ han⁵³ miː⁵³ taj⁴³ pʰaŋ¹³ puk¹¹ laŋ³³ ‘[Si] ce banian meurt, il faudra [en] replanter de nouveau’.


(Traduit par M. Lang Vân O avec la participation du Professeur Trần Trí Dới).

8.5.5. Situation linguistique du Tay Yo:
Le vocabulaire Tay Yo contient des mots dont le phonétisme est en disharmonie avec celui des autres langues thai, la différence pouvant porter sur le consonantisme, le vocalisme ou le ton. Donnons quelques exemples en comparaison avec le proto thai et le tay daeng:

<table>
<thead>
<tr>
<th>Proto Thai</th>
<th>Tay Daeng</th>
<th>Tay Yo (disharmony)</th>
</tr>
</thead>
<tbody>
<tr>
<td>‘éventail’</td>
<td>*wiː⁴⁴</td>
<td>A2 viː</td>
</tr>
<tr>
<td>‘près de’</td>
<td>*kloː⁴⁴C</td>
<td>C1 kɔː</td>
</tr>
<tr>
<td>‘cruiser’</td>
<td>*kʰut⁴⁴DS1</td>
<td>kʰut</td>
</tr>
<tr>
<td>‘chanteur’</td>
<td>*xap⁴⁴</td>
<td>DS1 kʰap</td>
</tr>
<tr>
<td>‘porter’</td>
<td>*bʰi⁴⁴A1</td>
<td>tʰiː</td>
</tr>
<tr>
<td>‘feu’</td>
<td>*vaj⁴⁴A2</td>
<td>faj</td>
</tr>
<tr>
<td>‘film’</td>
<td>*luŋ⁴⁴DL2</td>
<td>luk⁴⁴</td>
</tr>
<tr>
<td>‘je’</td>
<td>*kɾu⁴⁴A1</td>
<td>kuː⁴⁴</td>
</tr>
<tr>
<td>‘ventre’</td>
<td>*pum⁴⁴A1</td>
<td>pum⁴⁴</td>
</tr>
<tr>
<td>‘corps’</td>
<td>*tua⁴⁴A1</td>
<td>toː⁴⁴</td>
</tr>
</tbody>
</table>

Les correspondances suivantes s’expliquent très bien par l’évolution générale de la fricative vélaire *x > h dans le cas particulier de *xw > hw (identifié à PT *bʰw > v):

<table>
<thead>
<tr>
<th>Proto Thai</th>
<th>Tay Daeng</th>
<th>Tay Yo (disharmony)</th>
</tr>
</thead>
<tbody>
<tr>
<td>‘hache’</td>
<td>*xwaŋ⁴⁴A1</td>
<td>A1 kʰwaŋ</td>
</tr>
<tr>
<td>‘âme’</td>
<td>*xwaŋ⁴⁴A1</td>
<td>A1 kʰwaŋ</td>
</tr>
<tr>
<td>‘suspendre’</td>
<td>*xweŋ⁴⁴A1</td>
<td>A1 kʰweŋ</td>
</tr>
</tbody>
</table>

La correspondance suivante ne concerne qu’une liste partielle de mots:

<table>
<thead>
<tr>
<th>Proto Thai</th>
<th>Tay Daeng</th>
<th>Tay Yo (disharmony)</th>
</tr>
</thead>
<tbody>
<tr>
<td>‘avoir peur’</td>
<td>*kluː⁴⁴A1</td>
<td>A1 - koː</td>
</tr>
<tr>
<td>‘rire’</td>
<td>*hua⁴⁴A1</td>
<td>hua</td>
</tr>
<tr>
<td>‘clôture’</td>
<td>*ruː⁴⁴C</td>
<td>C2 hua</td>
</tr>
</tbody>
</table>
Par ailleurs, le Tay Yo atteste du vocabulaire sans correspondance dans les autres langues de la branche thai:

\[
\begin{array}{ll}
tay yo & tay yo \\
ket^{DL/2} & \text{‘malade’} \\
sæ/sæ^{A2} & \text{‘il, elle’} \\
mæj^{C1} & \text{‘groupe, Tay Meuy’} \\
læ^{A1} & \text{‘rêver’} \\
ka^{A2} & \text{‘interrogatif’} \\
\end{array}
\]

\[
\begin{array}{ll}
na^{A2} & \text{‘personne’} \\
næ^{B2} & \text{‘class. d’objet’} \\
k{i}^{A2} & \text{‘manger’} \\
?e^{A2} & \text{‘faire’} \\
?a^{A2} & \text{‘prendre’} \\
\end{array}
\]

Le mot prêpa^{A2} ‘aller’, parfois placé dans cette liste, est en fait attesté dans d’autres langues thai avec le sens de ‘accompagner’.

Quelques uns de ces mots, comme fi^{A2} ‘feu’ et li{k}^{S2} ‘fils, enfant’, sont régulièrement attestés dans la branche yaay. J. R. Chamberlain (1991), à qui ces problèmes n’ont pas échappé, en a conclu un peu hâtivement à propos du tay maen que cette langue devait être classée dans le *northern tai*. Il faut objecter que, mis à part une courte liste de mots, le vocabulaire du Tay Yo relève bien de la branche thai selon des correspondances régulières. L’évolution de la fricative vélaire *x >h, commune au Tay Yo et aux langues yaay, n’est pas la preuve d’une parenté proche car la liste des mots attestant ce changement n’est pas la même dans les deux branches. Toutefois, le vocabulaire atypique contenu dans le Tay Yo pose un réel problème qu’il faut tenter d’élucider. Récemment, Weera Ostapirat (1998) a mis en évidence dans le dialecte chinois de Jízhào, sur la côte sud-ouest du Guangdong, une strate de vocabulaire apparentée au tai en général et plus particulièrement au bé de Hainan. Parmi les dix-sept mots qui nous sont donnés, on relève (notations de l’auteur) vi^{A2} ‘feu’, nam^{A2} (C2) ‘eau’, man^{C2} ‘il, elle’, et surtout ky^{A2} (C2) ‘manger’, forme que l’on ne peut s’empêcher de comparer au Tay Yo ki^{A2} en dépit des différences de voyelle et de ton. Il est vraisemblable que ce substrat tai-bé du dialecte chinois de Jízhào est la survivance d’une langue disparue qui était le chaînon reliant les langues thai-yaay du Guanxi et le bé de Hainan. La situation géographique de Jízhào corrobore tout à fait cette vue.

Comment dans ce cas expliquer la présence d’une strate similaire dans le Tay Yo dont la localisation actuelle ne s’insère pas dans le continuum géographique qui relie la région des langues thai-yaay et celle du bé? L’hypothèse d’une ancienne répartition de la branche yaay (*northern tai*) sur une zone allant du Guizhou au Thanh Hào et au Nghê An, a été avancée par Chamberlain (1991: 120). Cette hypothèse est recevable, mais elle présente l’inconvénient d’escamoter le berceau des langues viet-muong pourtant bien ancré dans le nord du Vietnam. Je pense, quant à moi, qu’il s’agit plutôt d’un ancien déplacement de population, comme il y en a eu beaucoup à l’époque de la domination chinoise, dans le but d’installer des populations fidèles pour mieux contrôler le pays. Par la suite, cette langue déplacée aurait été recouverte par la langue d’une partie des Thai venus du Muong Theng en donnant naissance à ce qui devait devenir le Tay Yo (et le tay muong), ne laissant subsister qu’un substrat réduit. L’autre partie de cette expansion des Thai aurait donné les Tay Daeng actuels.

### 8.6. TAY MUONG

Le tay muong, le Tay Yo et le tay maen peuvent être considérés comme des sous dialectes d’une même langue. Le tay muong se différencie cependant du Tay Yo par une influence moindre de la prononciation du vietnamien, et surtout par une influence du lao, aussi bien dans le vocabulaire que dans certains changements phonétiques. On ne dispose d’aucune publication ni de donnée sur le dialecte tay muong, sinon quelques mots inclus dans le dictionnaire *Laotien-François* du Père Guignard (1912). Nos informateurs ont été: MM. Lô Ván Mai Liêu, Lô Ván Thuổi et Lô Ván Bình, tous des environs de Hòa Bình, Tương Dương (Nghê An).
8.6.1. Système consonantique

Le système consonantique est fondamentalement le même que celui du tay yo, l’influence du viet en moins. L’évolution des fricative vélares du proto thai y est la même: *x >h et *ŋ >k.

Le tay muong, sous l’influence du lao, se différencie cependant du Tay Yo par le changement irrégulier *ŋ >s (en Tay Yo *ŋ >c) qui interfère avec la confusion *z >s.

Les nombreux emprunts au lao ont parfois créé des doublets, paires de mots issus d’un même étymon.

8.6.2. Système vocalique

Le système vocalique est fondamentalement le même que celui du tay yo. Seule particularité, partagée avec le tay maen, les diphtongues se sont simplifiées devant les semi voyelles finales.

8.6.3. Système tonal

FIGURE 8.6.3-1: TONS DU TAY MUONG (Tương Dương, Nghệ An)
En plus de la confusion de DL1 avec DL2, on note la confusion de B1 avec B2. Ce système semble être également celui du tay maen bien que ce dialecte soit plus proche du Tay Yo par l’évolution du consonantisme initial.

8.6.4. Texte


tiǎn¹³ dian¹³ fu¹³ hōj³¹ ʃian³³ vian⁵³ ʃa⁵⁵ mi⁵⁵ soŋ³¹
Trương Dương arrond. Hồi Nguyên district Nga Mi canton

Arrondissement de Trương Dương, district de Hồi Nguyên, canton de Nga Mi, ...

ɲa⁵⁵ mi⁵⁵ sa³¹
Nga Mi commune moi chef

... commune de Nga Mi. Je soussigné [l’ancien] chef, ...

ma:⁵⁵ to:⁵⁵ ni:⁵³ hǎ:³³ ʔeŋ¹³ tun⁵⁵ do:³¹
avoir papier ce pour monsieur Tun là ...

 أولfois conseil # céder parcelle terre Nẩn Hạng

Autrefois, le conseil communal a cédé en location la parcelle de terre Nẩn Hạng ...

... à monsieur Sông Cô pour [le prix de] trois barres [d’argent].

Arrivé à la génération de Cường [fils de Sông Cô]’ ; alors, [Cường] a mis en gage ...

... chez moi [cette terre] pour deux barres [d’argent]. Aujourd’hui, ...

... j’ai des difficultés [je manque d’argent], je n’ai plus rien à dépenser.

Alors, je reprends à Monsieur Tun [du conseil] ...
avoir argent 2 barre conséquence avoir document ce
... deux barres [d’argent]. En conséquence, par ce document, ...

jaw¹³ sak¹¹ din¹³ kaw³¹ hɔ³³ ŋaj⁵⁵
confier abornement terre ancien pour lui
... je lui restitue [le contrat de] l’ancien abornement.

mia³¹ na³³ ban³³ miaj⁵⁵ cuak¹¹ da⁵³ nam⁵⁵ lɔ⁵⁵
désormais communauté reprendre gagner temps quel
A l’avenir, la communauté pourra reprendre [ce terrain], n’importe quand ...

hɔ³³ ma⁵⁵ cuak⁵³ nam⁵⁵ kɔj¹³
pour venir reprendre avec moi...
... et lever le gage avec moi [qui me lie au Conseil].

kɔj⁵³ cin³¹ cuak¹¹ nam⁵⁵ ?eŋ¹³ tun⁵⁵
je alors rendre par monsieur Tun
Je restituerai [la terre], par [l’entremise de] Monsieur Tun ...

hɔ³³ ban³³ hɔ³³ miaj⁵⁵
ti¹³ ta⁵³ jaw¹³
à village à région notifier document confier
au conseil [village et région]’. C’est notifié dans ce procès-verbal.

tʰeŋ⁵⁵ tʰaj¹¹ tʰap¹¹ nian¹¹ tʰɔt⁵⁵ ñwat¹¹ tʰɔ³³ kiw¹³ ñat¹¹
Thành Tháo 10 année 7 mois -ième 9 jour
(Traduit par M. Lô Văn Mai Liêu avec la participation du Professeur Trần Trí Dồi et de Mme Võ Thị Thương)

8.6.5. Texte

Tiən¹³ diaŋ¹³ fu:³¹ hoj³¹ gian³³ vian⁵⁵ ɲa:⁵⁵ mi:⁵⁵ soŋ³¹
Trưởng arrond. Hôi Nguyên district Nga Mi canton
Arrondissement de Trưởng Dương, district de Hôi Nguyên, canton de Nga Mi,

Nga Mi commune / moi chef avoir document ce pour
commune de Nga Mi. Je soussigné [l’ancien] chef, je restitue ce document [contrat] à

?eŋ¹³ tun⁵⁵ dɔ³¹ / te:³¹ kɔŋ³¹ han³³ haŋ⁵⁵ sa:³¹ kɔ:³¹ kɔm⁵⁵ meŋ³¹
monsieur Tun là / autrefois conseil # céder parcelle
Monsieur Tun. Autrefois, le Conseil Communal a cédé en location la parcelle de
Arrivé à la génération de Cường [fils de Sông Cô], alors [Cường] a mis en gage à moi avoir argent 2 barre / arriver aujourd'hui chez moi [cette terre] pour deux barres [d’argent]. Aujourd’hui, j’ai des difficultés [je manque d’argent], je n’ai plus rien à dépenser.

Alors, je reprends à Monsieur Tun [du Conseil] le prix [sous forme] de deux barres. En conséquence, par ce document, je lui restitue [le contrat de]

terre ancien pour lui / désormais communauté reprendre l’ancien abornement.  A l’avenir, la communauté pourra reprendre [ce terrain]

gagner temps quel pour venir reprendre avec moi / n’importe quand et lever le gage avec moi [qui me lie au Conseil].


(Traduit par M. Lô Văn Mai Liệu avec la participation du Professeur Trần Trí Dỗi et de Mme Võ Thị Thùy).
8.7. LE PROTO THAI ET LES DIALECTES

Résumons, à l’aide d’exemples précis, les évolutions des initiales du proto thai (pʰ-r- pʰ- ɓl-  iterable  y- kʰ-r- et gr-) responsables des différences dialectales, en comparaison avec les évolutions uniformes de quelques initiales significatives (f- ɓ- ɗ- c- s- z- et kʰ-).

Abréviations: sm (siamois); t. nr (tay noir); t. bl (tay blanc); t. dg (tay daeng); t. yo (tay yo); t. mg (tay muong).

<table>
<thead>
<tr>
<th>*PT</th>
<th>sm</th>
<th>lao</th>
<th>t. nr</th>
<th>t. bl</th>
<th>t. dg</th>
<th>t. yo</th>
<th>t. mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>pʰri:A</td>
<td>A1</td>
<td>pʰ-</td>
<td>pʰ-</td>
<td>f-</td>
<td>pʰ-</td>
<td>fi:</td>
<td>pʰi:</td>
</tr>
<tr>
<td>pʰu:C</td>
<td>C1</td>
<td>pʰ-</td>
<td>pʰ-</td>
<td>f-</td>
<td>pʰ-</td>
<td>fu:</td>
<td>pʰu:</td>
</tr>
<tr>
<td>fər:A</td>
<td>A1</td>
<td>f-</td>
<td>f-</td>
<td>f-</td>
<td>f-</td>
<td>fə:</td>
<td>fə:</td>
</tr>
<tr>
<td>ɓər:A</td>
<td>A1</td>
<td>ɓ-</td>
<td>ɓ-</td>
<td>ɓ-</td>
<td>ɓ-</td>
<td>ɓə:</td>
<td>ɓə:</td>
</tr>
<tr>
<td>dəŋ:A</td>
<td>A1</td>
<td>d-</td>
<td>d-</td>
<td>d-</td>
<td>d-</td>
<td>dəŋ</td>
<td>dəŋ</td>
</tr>
<tr>
<td>ɓləɔk</td>
<td>A1</td>
<td>ɓ-</td>
<td>d-</td>
<td>b-</td>
<td>b-</td>
<td>ɓləɔk</td>
<td>ɓləɔk</td>
</tr>
<tr>
<td>ɓəɾ:C</td>
<td>A1</td>
<td>c-</td>
<td>c-</td>
<td>c-</td>
<td>c-</td>
<td>ɓəɾ</td>
<td>ɓəɾ</td>
</tr>
<tr>
<td>jəŋ:C</td>
<td>C2</td>
<td>cʰ-</td>
<td>s-</td>
<td>c-</td>
<td>c-</td>
<td>jəŋ</td>
<td>jəŋ</td>
</tr>
<tr>
<td>saŋk</td>
<td>DL1</td>
<td>s-</td>
<td>s-</td>
<td>s-</td>
<td>s-</td>
<td>saŋk</td>
<td>saŋk</td>
</tr>
<tr>
<td>ʐːː C</td>
<td>C2</td>
<td>s-</td>
<td>s-</td>
<td>s-</td>
<td>s-</td>
<td>ʐːː</td>
<td>ʐːː</td>
</tr>
<tr>
<td>xen:A</td>
<td>A1</td>
<td>kʰ-</td>
<td>kʰ-</td>
<td>kʰ-</td>
<td>x-</td>
<td>kʰən</td>
<td>kʰən</td>
</tr>
<tr>
<td>kʰaw:C</td>
<td>C1</td>
<td>kʰ-</td>
<td>kʰ-</td>
<td>kʰ-</td>
<td>kʰ-</td>
<td>kʰaw</td>
<td>kʰaw</td>
</tr>
<tr>
<td>yam:A</td>
<td>A2</td>
<td>kʰ-</td>
<td>kʰ-</td>
<td>k-</td>
<td>x-</td>
<td>kʰam</td>
<td>kʰam</td>
</tr>
<tr>
<td>gem:A</td>
<td>A2</td>
<td>kʰ-</td>
<td>kʰ-</td>
<td>k-</td>
<td>k-</td>
<td>kem</td>
<td>kem</td>
</tr>
<tr>
<td>kʰraj:B</td>
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Du proto thai aux dialectes actuels: évolution des initiales

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CHAPTER NINE

ZHUANG

Yongxian Luo

9.1. INTRODUCTION

9.1.1. Geographic setting

Zhuang is the language of the largest minority group in the People’s Republic of China, with approximately 18 million speakers.1 The majority of Zhuang speakers live in Guangxi in Southern China, between 20° 54’ and 26° 20’ north latitude on the southeastern corner of the Yunnan-Guizhou Plateau. A small number of them are scattered in adjacent areas of Guangdong, Hunan, Guizhou and Yunnan provinces (see Map 9.1.2-1). The name Zhuang is not an indigenous cover term, but more of an administrative term, from which the province of Guangxi, the administrative area of Zhuang, acquired its name – Guangxi Zhuang Autonomous Region. Although Zhuang speakers spread all over Guangxi, the majority of them concentrate in four prefectures: Nanning, Baise, Hechi and Liuzhou along the Xi River system. A passage to Southeast Asia, the Zhuang area is also inhabited by a number of tribal groups such as the Kam, Sui, Mulao and Maonan, as well as the Miao, Yao, Lakkja, along with Hakka, Yue and many varieties of the local Chinese.

9.1.2. Language and its speakers

Zhuang is an important member of the Tai language family, which is divided into three branches – Northern, Central and Southwestern, according to a generally accepted classification (Li 1977; see also the editor’s Introduction to this volume). Chinese linguists divide Zhuang into two dialect groups: Northern and Southern, with the You (Yu) River as the diaglossal line. As the name indicates, Northern Zhuang is located on the north side of the river, north of the provincial capital city Nanning; and Southern Zhuang, the south side, in areas south of Nanning. The two groups belong to different branches of the Tai family under Li’s scheme. Northern Zhuang is in the Northern Branch, while Southern Zhuang, the Central Branch. Northern Zhuang makes up two-thirds of the entire Zhuang population.

The Zhuang are primarily lowland dwellers, who are traditionally an agricultural people. They grow rice in both plains and steep terraces and they raise livestock. They have a well-developed art and handicraft style. They are very musical, capable of composing impromptu verses in songs, to be sung in festivals or in courtships. They have a very rich oral literature. One of the most important pieces is the Baeu-ro-do epic song, which has been the subject of a detailed anthropological study (Holm 2004).

In religion, the Zhuang are basically animistic, with a strong belief in the power of spirits in nature. Witchcraft, shamanism, and ancestor-worship are practiced in the Zhuang area. Buddhism has not had much impact among the Zhuang, unlike in Southwestern Tai, such as the Dai of Sipsongpanna and Dehong. In comparison, Daoism and Confucianism have had

1 The exact figure of Zhuang speakers is unknown. This figure is projected from a population growth of 16.7% for minority people in China between 1990 and 2000, according to the latest population census. In the 1990 government census, Zhuang population was 15.5 million.
more success. Christian missionaries were present in Zhuang areas in the late 19th century, but their impact was minimal.

MAP 9.1.2-1: ZHUANG SPEAKING AREA

9.1.3. Change and variations

It would be correct to assume that linguistically the Zhuang are a homogenous group. However, there is a high degree of variations in the phonological and grammatical structures between Northern and Southern Zhuang. One of the most striking differences between Northern and Southern Zhuang is that Northern Zhuang lacks aspirated stops, while Southern Zhuang possesses them. Also, over 60 distinct tonal systems have been reported, ranging from 5 to 11 tones among individual dialects. These may roughly fall under 13 regional groupings (Zhang et al 1999: 29-31).

Lexical and grammatical variations are common. Northern and Southern Zhuang each possess a set of vocabulary items that are foreign to the other group. For example, the word for ‘moon’ is ʔawn in Northern Zhuang, hai in Southern Zhuang. ‘Tiger’ is kuk in Northern Zhuang, and so in Southern Zhuang. In grammar, for descriptive clauses, Northern Zhuang uses the construction N + Clause + Deictics, while in Southern Zhuang, the same clause is structured as N + Relative pronoun + Clause + Deictics. Such differences have caused problems for mutual intelligibility between speakers of the Northern and Southern groups. Edmondson (1993) has offered a perceptive discussion of change and variations in Zhuang.

In terms of mutual intelligibility, Northern Zhuang and Buyi are much closer. In fact it would be linguistically more appropriate to treat Northern Zhuang and the Buyi as a dialect
continuum. Indeed the division of Northern Zhuang and Buyi is entirely a matter of administration.

9.1.4. Autonyms and ethonyms

If ethnonyms are important to understand a particular speech community, the name Zhuang does not reflect a wide range of self-address terms used by different groups of Zhuang speakers. Over a dozen such terms have been recorded (Zhang et al. 1999: 3-4, 318). Some of them are toponyms referring to the locality. Others carry ethnographic information.

Of the common autonyms for Zhuang, the term pu6 tsuːŋ j (`person-Zhuang`) appears to be used mainly by Northern Zhuang speakers. Another common Zhuang self-reference term is pu6 joints, which is used by those who live further north near Guizhou.\(^2\) This term is also shared by the Buyi (Bouyei) people as self-designation. Southern Zhuang speakers generally call themselves pu6 tə (or tho\(^7\) in some dialects) or pu6 noun who are clearly the same or closely related to the Tho and the Nung in Vietnam. A small number of speakers in the County of Wenshan and Malipo in southeastern Yunnan refer to themselves as pu6 dai or pu6 that.

9.1.5. Early history

Chinese historical records on Zhuang are curiously fragmented. Little systematic account is available in standard historical books on the settlement and movement of the Zhuang people. In view of the reconstructed materials, Zhuang ancestors are believed to have inhabited southern China since ancient times. They are generally thought to be a member of Baiyue or A Hundred Yue, which comprises Luoyue, Dongyue, Dianyue, Nanyue, Shan, Xi’ou, Yelang, among others. All these are designations for the various groups of Yue (Viet) people who spread over a vast territory in what is now Fujian, Zhejiang, Hunan, Guangdong, Guangxi, Guizhou, and Yunnan provinces. The Yue must include some varieties of Han Chinese such as Cantonese as well as the non-Han peoples of the south.

Proto-Zhuang (Tai) is estimated to have a time depth of about 2500 years old, according to authorities in the field (Matisoff 1991, Wyatt 1984). The Zhuang must have had contact with the Han Chinese quite early in history, particularly after Emperor Qin Shihuang conquered Lingnan (modern Guangdong and Guangxi) in 204 BC. Yet the term Zhuang did not appear in Chinese sources until the Song dynasty (960 – 1280 AD).\(^3\)

Some important events unfolded during this time. Nong Zhigao, a Zhuang hero, led a fierce attack against the Song rulers in 1052 from a base in Guangyuan in what is now Jingxi and surrounding areas in Guangxi. The revolt ended in Nong Zhigao’s total defeat in 1055. Then followed a period of relative stability in Yuan and Ming times as the Yuan and Ming rulers adopted a policy of employing local headmen to be in charge of local affairs. This system of tusi or local chieftain system of administration was continued by the Central court through to the beginning of the Manchu or Qing era (early 17\(^{th}\) century).

A new frontier policy was introduced soon after the Qing rulers took power. The policy, known as gai tu gui liu, was aiming to bring the autonomous chieftaincies into the regular bureaucratic system. Gai tu gui liu was often implemented through military repression. By the late 18th century, the majority of local chieftains were replaced by Han officials. This was the period when there were massive migration movements of Han Chinese into the area. Luo (1996: 34-65) has synthesized Chinese textual evidence that are pertinent to the issues

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2 A small number of these speakers have moved from Guizhou to north Vietnam, which has been the subject of a study by Gedney (1991).

3 The current Chinese character for Zhuang, literally meaning ‘robust’, was adopted in 1958 at the suggestion of the late Premier Zhou Enlai when the Guangxi Zhuang Autonomous Region was founded, possibly because of the somewhat derogatory meaning of the original character, ‘house boy’.
discussed here. Barlow (2001) is perhaps the most comprehensive account of Zhuang history from ancient to modern times, although some of his arguments need to be substantiated or verified.

9.1.6. Language contact, convergence and divergence, Chinese influence

The linguistic situation in Zhuang area is complex. As a ‘language corridor’ (Edmondson and Li 1996), Guangxi is an ideal laboratory for linguistic investigation in language contact, language convergence and divergence, being home to over a dozen languages from different language stocks. Zhuang is found to share a number of typological similarities with neighbouring languages in being tonal, basically monosyllabic, and having an SVO order. But what did ancient Zhuang look like? Did Zhuang inherit its tones from its parent language? If not, how did it acquire them? Questions of this kind still remain to be answered.

It seems reasonable to assume that before Qin Shihuang’s southern expansion (q.v), Guangxi was predominantly inhabited by non-Han peoples, among whom were the Zhuang. Intermarriages must have taken place between local women and Han soldiers who settled down in the area, resulting in language mixing in this region. The language of Qin’s army must have left its traces in Pinghua, a kind of local Chinese dialect unique to Guangxi area which possess a number of archaic features of Old Chinese. Pinghua has characteristically absorbed many Zhuang elements and vice versa.

Migration movements of the Han people into Zhuang areas at different times in history had profound impact on Zhuang language and culture. They contributed to different layers of loans into Zhuang. Some of these loans provide valuable clues for the reconstruction of Old Chinese (Bodman 1980). Others raise questions. Attempts have been made to sort out the connections (Zhang 1988, Lan 1999, 2001), but opinions are divided on the directions of borrowing (Zhang 1988, Lan 2001).

Despite close contact with the local Chinese, the Zhuang still retain many distinct traditions and cultural traits of their own. In Zhuang areas, the Zhuang language is alive and well. It seems premature to assume that the Zhuang have been heavily Sinicized.

9.1.7. Zhuang writing

One thing that distinguishes Zhuang from other dialects of the Tai family is its unique writing system. Anthropologists, ethnographers, and historians working in Southern China would not fail to notice a type of Chinese-based writing system used by the Zhuang people in Guangxi and the surrounding regions. This kind of writing system is used by shamen or village headmen to record songs, for account keeping, calendrical reckonings, and other important things and events. Fan Chengda, a scholar official and a traveller in the Song dynasty (date), was credited with the discovery of this type of writing (Fan 1175), which was already nearly 300 years older than the Thai writing system. One can assume that such a writing system must have existed before Fan’s times. For example, Yupian, a dictionary compiled shortly after Han times, contains several dozen words like 鸭, ‘duck’. This is obviously a Zhuang (Tai) word, which is not found in any Chinese dialect. This character is now still used in Zhuang area. Mention must also be made of a little song, Yue Ren Ge, included in Shuo Yuan by Liu Xiang of the Han dynasty. The song was deciphered by a Zhuang linguist Wei Qingwen, and by Zhengzhang (1991), who believed it to be of Zhuang (Tai) origin, recorded in Chinese characters. In a way, this could be seen as early attempts at Zhuang writing.

The Chinese character-based Zhuang writing was modeled on principles of the Chinese writing system, where each character consists of two components: a meaning part and a phonetic part. The meaning part often takes the form of radicals while the phonetic part is represented by certain recurrent and phonetically stable graphs. In some cases, two meaning components are put together to form a character, with no clue of phonetic readings at all, as in the case of 不+长, ‘short’, whose meaning resides primarily in the two composite
semantic elements, ‘not’ and ‘long’, as neither of the two ideographs was employed to signal any phonetic content. Such items are only decypherable to trained scholars or shamen who knew both Zhuang and Chinese well. They would not be understood by outsiders. The chapter by David Holm in this volume treats this issue in greater detail.

In the late 1950s, after the founding of the People’s Republic of China, a new Zhuang writing system was introduced using the Roman alphabets. The system was devised by Chinese linguists with the help from some Russian scholars. The Zhuang dialect of Wuming was taken as the norm for Standard Zhuang. It was promoted in Zhuang areas through to the early 1960s before the Cultural Revolution, with some success. The Romanised Zhuang writing system was reintroduced, with minor revisions, in the early 1980s. A number of dictionaries have been printed using this writing system.

9.2. PHONOLOGY

As mentioned in §9.1.3, substantial differences exist in the phonological systems of Northern and Southern Zhuang. In addition to the absence of aspirated stops in Northern Zhuang, and their presence in Southern Zhuang, Northern Zhuang has a group of /r/ sounds, represented as 鱼, r, δ, j and l according to dialects. These correspond to an array of forms in Southern Zhuang. The following examples illustrate this.

<table>
<thead>
<tr>
<th>TABLE 9.2-1: NORTHERN ZHUANG /r/ AND THEIR SOUTHERN ZHUANG COUNTERPARTS</th>
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<tbody>
<tr>
<td>Northern Zhuang</td>
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<tr>
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</tr>
<tr>
<td>'tail'  yiŋ</td>
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<tr>
<td>'stone'  yin</td>
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<tr>
<td>'fart'  yot</td>
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<tr>
<td>'water'  yam</td>
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<tr>
<td>'ear'  yu</td>
</tr>
<tr>
<td>'sieve'  yan</td>
</tr>
<tr>
<td>'ear (of rice)'  yiŋ</td>
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<tr>
<td>'nest'  yoŋ</td>
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<tr>
<td>'to bark'  yau</td>
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<td>'sesame'  ya</td>
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</tbody>
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In Finals, Northern and Southern Zhuang also exhibit variations:
### TABLE 9.2-2: SOME VARIATIONS IN RHYMES BETWEEN NORTHERN AND SOUTHERN ZHUANG

<table>
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<th>Northern Zhuang</th>
<th>Southern Zhuang</th>
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<td><strong>Wuming</strong></td>
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<tr>
<td>‘bed bug’</td>
<td>yuæt&lt;sup&gt;8&lt;/sup&gt;</td>
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<td>‘bite’</td>
<td>hap&lt;sup&gt;8&lt;/sup&gt;</td>
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<tr>
<td>‘house’</td>
<td>yæ:n&lt;sup&gt;4&lt;/sup&gt;</td>
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<td>‘long’</td>
<td>ya:rd&lt;sup&gt;4&lt;/sup&gt;</td>
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<tr>
<td>‘sleep’</td>
<td>nin&lt;sup&gt;4&lt;/sup&gt;</td>
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</tbody>
</table>

In the Zhuang dialect of Wenshan, a southern Zhuang variety, final -p -t -k were dropped. A number of syllables with final nasals -m, -n, and -ŋ are also undergoing similar sound change, giving rise to the emergence of nasalized vowels.

### TABLE 9.2-3: COMPARISON OF SOME WENSHAN ZHUANG AND WUMING ZHUANG FINALS

<table>
<thead>
<tr>
<th>Gloss</th>
<th>‘bedbug’</th>
<th>‘bite’</th>
<th>‘six’</th>
<th>‘carry’</th>
<th>‘fish bone’</th>
<th>‘yam’</th>
<th>‘skin’</th>
<th>‘grand-child’</th>
<th>‘three’</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wenshan</td>
<td>luæ&lt;sup&gt;5&lt;/sup&gt;</td>
<td>kæ&lt;sup&gt;è&lt;/sup&gt;</td>
<td>tha&lt;sup&gt;4&lt;/sup&gt;</td>
<td>kæ&lt;sup&gt;è&lt;/sup&gt;</td>
<td>ma&lt;sup&gt;è&lt;/sup&gt;</td>
<td>ne&lt;sup&gt;è&lt;/sup&gt;</td>
<td>la&lt;sup&gt;è&lt;/sup&gt;</td>
<td>sa&lt;sup&gt;è&lt;/sup&gt;</td>
<td></td>
</tr>
<tr>
<td>Wuming</td>
<td>yuæt&lt;sup&gt;8&lt;/sup&gt;</td>
<td>hap&lt;sup&gt;8&lt;/sup&gt;</td>
<td>yok&lt;sup&gt;7&lt;/sup&gt;</td>
<td>ya:p&lt;sup&gt;7&lt;/sup&gt;</td>
<td>ma:n&lt;sup&gt;4&lt;/sup&gt;</td>
<td>na:ji&lt;sup&gt;1&lt;/sup&gt;</td>
<td>la:n&lt;sup&gt;1&lt;/sup&gt;</td>
<td>0:æ:m&lt;sup&gt;1&lt;/sup&gt;</td>
<td></td>
</tr>
</tbody>
</table>

Like the initials, tonal variations are noticeable. The tonal pitches of a number of dialects differ substantially from those of Wuming, the speech of Standard Zhuang. Table 9.2-4 contrasts the tones among six Zhuang dialects.

### TABLE 9.2-4: TONE CONTRAST IN SIX ZHUANG DIALECTS

<table>
<thead>
<tr>
<th>Gloss / Phonetics</th>
<th>‘dog’ ma</th>
<th>‘rice field’ na</th>
<th>‘grow’ ma</th>
<th>‘horse’ ma</th>
<th>‘soak’ ma</th>
<th>‘river’ ta</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wuming</td>
<td>24</td>
<td>31</td>
<td>55</td>
<td>42</td>
<td>35</td>
<td>33</td>
</tr>
<tr>
<td>Sanjiang</td>
<td>55</td>
<td>121</td>
<td>54</td>
<td>24</td>
<td>33</td>
<td>11</td>
</tr>
<tr>
<td>Yangshuo</td>
<td>42</td>
<td>231</td>
<td>53</td>
<td>35</td>
<td>55</td>
<td>213</td>
</tr>
<tr>
<td>Daxin</td>
<td>55/53</td>
<td>21</td>
<td>13</td>
<td>44</td>
<td>42</td>
<td>33</td>
</tr>
<tr>
<td>Ningming</td>
<td>343</td>
<td>32</td>
<td>35</td>
<td>43</td>
<td>54</td>
<td>21</td>
</tr>
<tr>
<td>Jingxi</td>
<td>54</td>
<td>31</td>
<td>2323</td>
<td>13</td>
<td>45</td>
<td>214</td>
</tr>
</tbody>
</table>

Below we briefly describe the phonology of Fengshan Zhuang, the author’s native dialect, which will be used for a grammatical sketch of Zhuang in the following sections.

---

4 The numerics in the box indicate the tonal pitch using Chao’s 5-scale notation.
9.2.1. Fengshan Zhuang phonology

9.2.1.1. Consonants

Table 9.2.1.1-1 lists the nineteen segmental consonant phonemes in Fengshan Zhuang.

**TABLE 9.2.1.1-1: FENGSHAN ZHUANG CONSONANTS**

<table>
<thead>
<tr>
<th>Labial</th>
<th>Alveolar</th>
<th>Palatal</th>
<th>Velar</th>
<th>Glottal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stops vls. unaspirated</td>
<td>p</td>
<td>t</td>
<td>ts</td>
<td>k</td>
</tr>
<tr>
<td>Voiced</td>
<td>?b</td>
<td>?d</td>
<td>?j</td>
<td></td>
</tr>
<tr>
<td>Nasals</td>
<td>m</td>
<td>n</td>
<td>ŋ</td>
<td>ŋ</td>
</tr>
<tr>
<td>Fricative vls</td>
<td>f</td>
<td>θ</td>
<td>ç</td>
<td>h</td>
</tr>
<tr>
<td>Voiced vls</td>
<td>v (w)</td>
<td>j</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lateral</td>
<td>l</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

All 19 consonants may appear in initial position. Permitted initial consonant clusters include labial pj, mj. Depending on methods of analysis, labialized tʰ, ?dʰ, lʰ, cʰ, sʰ, tsʰ, jʰ, ŋʰ, kʰ, ŋʰ can be proposed. Only p, t, k, m, n, and ŋ can occur final position. No consonant clusters are permitted in final position.

9.2.1.2. Vowels

Table 9.2.1.2-1 lists the eight vowel phonemes in Fengshan.

**TABLE 9.2.1.2-1: FENGSHAN ZHUANG VOWELS**

<table>
<thead>
<tr>
<th>High</th>
<th>Back unrounded</th>
<th>Back rounded</th>
</tr>
</thead>
<tbody>
<tr>
<td>[i]</td>
<td>u</td>
<td>u</td>
</tr>
<tr>
<td>[e]</td>
<td>o</td>
<td></td>
</tr>
</tbody>
</table>

[a] is inherently long as [aː] when occurring in open syllables, as in pa³ [paː³], ma⁶ [maː⁶], ta¹ [taː¹], ka³ [kaː³]. There is no length contrast in this environment. However, there is a length contrast when [a] is followed by another element, as in [ai] vs. [a:i], [au] vs. [a:u], [am] vs. [a:m], [an] vs. [a:n], [at] vs. [a:t], [ak] vs. [a:k], [ap] vs. [a:p]. Short [a] is phonetically realized as [a].

[o] is phonetically long as [oː], while [ɔ] is short. Since there is no length contrast for each of these phonemes, they are simply written as [o] and [ɔ]. The same holds for [e] (long) and [ɛ] (short).

All the eight vowels may occur as vocalic nuclei, with an initial consonant, with a final consonant or with an initial and final consonant.

9.2.1.3. Diphthongs and triphthongs

There are 14 diphthongs: /ie/, /ua/, /ua:/, /a:i/, /ai/, /oi/, /oi/, /aːu/, /au/, /eːu/, /eːu/, /iu/, along with 4 triphthongs: /iəu/, /uaːi/, /uai/, /uaːu/. In this study, /ua:/ is written as /wa/ to distinguish from /ua/, which is phonetically [uə]. All the simple vowels can take final consonants. But no diphthongs or triphthongs can take final consonants except for /ie/, /ua/ and /ua:/, eg. liet⁵ ‘run’, luta³³ ‘blood’, luaːt³ ‘snatch’. There are no combinations like /aip/, /aːt/, /oip/, or /auk/.
Finals that take /u/ as the first element, namely /-ua/, /-ua:/, /-ua:i/, /-uai/, /-ua:w/, /-uam/, /-ua:n/, /-uau/, /-ua:p/, /-uat/, /-ua:k/ and /-uak/ can combine with initials /t-/, /t?-l/, /t?-s/, /t?-l/, /l-/, /k-/, /h-/, and /h?-l/ only. These finals do not occur with labial initials /p-/, /b-/, /f-/, /v-/, nor the laryngeal fricative /h-/.

9.2.1.4. Tones

Each syllable in Fengshan carries one of six phonemic tones, as illustrated in Table 9.2.1.4-1.

**TABLE 9.2.1.4-1: TONES IN FENGSHAN**

<table>
<thead>
<tr>
<th>Tone mark</th>
<th>Pitch contour</th>
<th>Numeric values</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Rising</td>
<td>24</td>
<td>ma¹ ‘dog’</td>
</tr>
<tr>
<td>2</td>
<td>high level</td>
<td>55</td>
<td>ma² ‘soak’</td>
</tr>
<tr>
<td>3</td>
<td>mid low level</td>
<td>22</td>
<td>ma³ ‘grow’</td>
</tr>
<tr>
<td>4</td>
<td>Low level</td>
<td>11</td>
<td>na⁴ ‘rice field’</td>
</tr>
<tr>
<td>5</td>
<td>mid level</td>
<td>33</td>
<td>ta⁵ ‘river’</td>
</tr>
<tr>
<td>6</td>
<td>high fall</td>
<td>41</td>
<td>ma⁶ ‘horse’</td>
</tr>
</tbody>
</table>


9.3. WORD CLASSES AND BASIC SYNTACTIC PATTERNS

9.3.1. Word classes

The following word classes can be recognized, for Zhuang:

1) Noun, with subclasses: common noun, place name, personal name, and question word
2) Pronoun
3) Classifier
4) Numeral
5) Demonstrative
6) Time word
7) Verb, with subclasses: common verb, adjectival verb, auxiliary verb
8) Adverb
9) Preposition
10) Conjunction
11) Speech act particle
12) Interjection

9.3.2. Word structure

The majority of words in Zhuang are monosyllabic. Examples:

9.3.2.1 Compounding

Compounding in Zhuang accounts for a large number of nouns, adjectives and verbs. In most cases, the part of speech of the compound can be determined from the first element of the compound. The meaning of the compound is more or less related to its components. Compounds in Zhuang are generally patterned as follows:

A. Noun compounds

(i) Noun + Verb

(1) ‘body + wear = clothing’
   ‘tsau 3 tok2’ ‘head + hammer in = headache’
   ‘gan4 ni3’ ‘money + owe = debt, debt money’
   ‘hau6 naq3’ ‘rice + steam = steamed rice’

(ii) Noun + Noun

This group is the most productive and most versatile. Various semantic links can be observed between the head noun and the modifying noun.

(2) ‘grain + seeds = grain seeds’ (head-purpose)
   ‘lam6 bo5’ ‘water + spring/well = spring water’ (head + source)
   ‘tin6 tui5’ ‘foot + hand = techniques, skills’ (coordinate compounding)
   ‘la:n4 fat6’ ‘house + timber = timber house’ (head + material)
   ‘naq3 pa:k2’ ‘skin + mouth = lips’ (head + location)

B. Verb/Adjectival Compounds

(iii) Coordinating verb compounds

(3) ‘drop + jump = startle’
   ‘jop5 jua6’ ‘instigate + abet = instigate, abet’
   ‘hum3 la5f’ ‘descend + ascend = communicate, be in contact, have connections’
   ‘ka:i1 cu6’ ‘selling + buying = (to do) business, trade’
   ‘tuk2 lam6’ ‘be + tumble = fall, tumble’
(iv) Verb + Noun

Many of this kind of compound appear to have a Verb-Object relationship between the verb and the noun.

(4) \(lo^6 na^3 \) ‘know + face = to know, recognize’
\(la:u^1 hi^2 \) ‘fear + breath = to fear’
\(tsai^4 ho^4 \) ‘love + throat = be concerned about’

But this is not always the case. The noun after the verb may indicate the subject of the verb, or the cause, or be metaphorical, among others.

(5) \(ta:i^1 la^2 \) ‘die + epidemic = to die of pestilence’ (cause)
\(?ok^5 pni^4 \) ‘to urinate’ (exit + urine = to urinate) (subject)
\(luan^t \ va:i^t \) ‘crawl + buffalo = (of baby) to crawl’ (metaphorical, to (walk) on all fours like a buffalo)
\(la:i^t \ m?\acute{a}^t \) ‘creep + ant = feel numb’ (metaphorical, to have the feeling as if ants were creeping on you)
\(pan^t \ hut\acute{a}^t \) ‘become + night = to dream’ (metaphorical)
\(va:n^t \ tsua^t \) ‘sweet + salt = tastes like salt’ (metaphorical)

(v) Noun + Adjective

(6) \(na^3 mo\acute{t}^t \) ‘shy’ (face + grey)
\(\acute{t}hi\acute{t} \ han^t \) ‘quick-tempered’ (temper + strong)
\(\acute{t}ha:u^t \ ?di^t \) ‘beautiful’ (girl + good)
\(\acute{t}da:ji^t \ pjiet^t \) ‘sad’ (body + depart)
\(ho^t \ ?da:t^t \) ‘angry’ (throat + hot)

(vi) Resultative Verb Compounds

The second verb in the compound denotes the resulting state of the first verb.

(7) \(tum^2 cuk^t \) ‘boil + cooked = cooked as a result of boiling’
\(tup^t \ tek^t \) ‘hit + broken = broken from being hit’
\(\acute{h}\acute{a}t^t \ ko^t \) ‘bend + crooked = crooked as a result of being bent’
\(kuak^t \ pan^t \) ‘do + accomplished = achieved through working’

Quite a significant number of compounds are formed with prefixes or suffixes. For details, see §9.4.1.1.

9.3.3. Basic word order

Subject-verb-object is the preferred word order in Zhuang.
9.3.4. Demonstrative adjectives

The generic demonstrative adjectives in Zhuang are ni6 ‘this’ and te1 ‘that’. They are seldom used alone to function as demonstrative pronouns. ni6 and te1 often combine with other elements to form compound deictic expressions:

(10) tsi4 ni6 ‘here, this place’, tsi4 te1 ‘there, that place, yonder’
    ten5 ni6 ‘this place, here’, ten5 te1 ‘that place, there’
    mua4 ni6 ‘now, this time’, mua4 te1 ‘then, that time’
    ηn4 ni6 ‘today, this day’, ηn4 te1 ‘that day’
    ta4 ni6 ‘this way, like this’, ta4 te6 ‘that way, like that’
    ka:u5 ni6 ‘this much’, ka:u5 te1 ‘that much’.

te1 has other functions, such as third person singular pronoun and a relative marker, which will be discussed later.

9.3.5. Pronouns and other pronominal items

9.3.5.1. Personal pronouns

The Zhuang pronoun system is quite simple, compared with Thai and other Southwestern Tai dialects such as Sipsongpanna Dai Lue. There are no honorific pronouns in Zhuang of the sort found in Thai and Lue. But it doesn’t mean that Zhuang pronouns can be used freely without any constraints. The choice of pronouns in Zhuang is sensitive to social factors such as age, social position and attitude of the speaker towards the addressee.

As a general rule, the use of the first and second person singular pronoun is to be avoided, in polite conversation with strangers and acquaintances, between relatives or when speaking to a superior. In such situations, a kinship term is used for the addressee and the term hoi2, literally ‘slave’, is used for self reference by the speaker.

Parents would use kinship terms to refer to themselves when they speak to their children. The use of first person plural (inclusive) is considered polite.

Table 9.3.5.1-1 lists the personal pronouns in Fengshan Zhuang.

### TABLE 9.3.5.1-1: PERSONAL PRONOUNS IN FENGSHAN ZHUANG

<table>
<thead>
<tr>
<th>First person</th>
<th>Second Person</th>
<th>Third Person</th>
</tr>
</thead>
<tbody>
<tr>
<td>Singular</td>
<td>Plural (excl.)</td>
<td>Plural (incl.)</td>
</tr>
<tr>
<td>ku1</td>
<td>tu1, po1, tu1</td>
<td>lau4</td>
</tr>
</tbody>
</table>
In Wuming, there is a plural marker, \( \text{kjo} \), which is used to form second and third plural pronouns: \( \text{kjo} \text{\muu} \) ‘you (plural)’; \( \text{kjo} \text{\te} \) ‘they’. In Southern Zhuang, such as the dialects of Jingxi, Lungzhou, and Lungming, first person singular is \( \text{\ro} \) (\( \text{\ku} \) is also used) and second person singular is \( \text{\ni} \), which appear to have been borrowed from Chinese.

No dual personal pronouns are found in Zhuang. To express this concept, \( \text{\thetao} \text{\pu} \) ‘two-person’ is to be used along with the pronouns, as in \( \text{\thetao} \text{\pu} \text{\lau} \) ‘both of us, the two of us’, \( \text{\thetao} \text{\pu} \text{\thi} \) ‘both of you, the two of you’, \( \text{\thetao} \text{\pu} \text{\te} \) ‘both of them, the two of them’.

9.3.5.2. Interrogative and indefinite pronouns

The most common interrogative pronominal stem in Zhuang is \( \text{lau} \), which is used to form a paradigm of interrogative pronouns.

<table>
<thead>
<tr>
<th>Form</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>( \pu \text{lau} )</td>
<td>‘which person, who’</td>
</tr>
<tr>
<td>( \text{\tsie} \text{lau} )</td>
<td>‘what/place, where’</td>
</tr>
<tr>
<td>( \text{\ten} \text{lau} )</td>
<td>‘what/place, where’</td>
</tr>
<tr>
<td>( \text{\pai} \text{lau} )</td>
<td>‘which side/direction, what side/direction’</td>
</tr>
<tr>
<td>( \text{\muu} \text{lau} )</td>
<td>‘what time (long period), when’</td>
</tr>
<tr>
<td>( \text{\ku} \text{lau} )</td>
<td>‘what time (short period), when’</td>
</tr>
<tr>
<td>( \text{\kuak} \text{lau} )</td>
<td>‘how (do), what (do)’</td>
</tr>
<tr>
<td>( \text{\pan} \text{lau} )</td>
<td>‘how’</td>
</tr>
<tr>
<td>( \text{\vi} \text{lau} )</td>
<td>‘for what (reason), why’</td>
</tr>
<tr>
<td>( \text{\ka:u} \text{lau} )</td>
<td>‘what amount, how many, how much’</td>
</tr>
</tbody>
</table>

The element \( \text{lau} \) generally does not occur alone as an interrogative pronoun, except in utterances like \( \text{\muu} \text{\lau} \text{\le} \) ‘where are you going?’, which is a short form of \( \text{\muu} \text{\lau} \text{\lau} \text{\le} \). Other interrogative and indefinite pronouns include \( \text{\ma} \) ‘what’, which also functions as a stem in \( \text{\ka} \text{\ma} \) ‘what’, \( \text{\kuak} \text{\ma} \) ‘what (do)’, \( \text{\tu} \text{\ma} \) ‘what (animals)’, \( \text{\ji} \text{\ma} \) ‘what kind, what sort’.

Two items may be included under this category, \( \text{\fu} \) and \( \text{\\am} \), both roughly translatable into English as ‘other’, with different pragmatic functions. They both function as adjectives. Examples:

\( (11) \text{\tsie} \text{\fu} \) ‘other (people’s) place’ (as opposed to \( \text{\tsie} \text{lau} \) ‘our place’)
\( \text{\pu} \text{\fu} \) ‘other/foreign country’ (as opposed to \( \text{\muu} \text{lau} \) ‘our country’)
\( \text{\pu} \text{\\am} \) ‘other people, someone else’ (not this person)
\( \text{\ka} \text{\\am} \) ‘other things, something else’ (not this piece/item, but something else)
\( \text{\muu} \text{\\am} \) ‘other times, a different time’ (not this time/moment)

9.3.5.3. Reflexives

The following reflexive pronouns can be recognized for Zhuang:
### TABLE 9.3.5.3-1: REFLEXIVES

<table>
<thead>
<tr>
<th>Form</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>la³ le²</td>
<td>‘self’ (colloquial)</td>
</tr>
<tr>
<td>la³ ūla:yi</td>
<td>‘self’ (lit. ‘below-body’)</td>
</tr>
<tr>
<td>fan⁵</td>
<td>‘-self (lit. ‘share’)</td>
</tr>
<tr>
<td>pon⁵ fan⁵</td>
<td>‘self’ (in Standard Zhuang, ‘original share’)</td>
</tr>
<tr>
<td>ūla:yi kau²</td>
<td>‘self’ (lit. ‘body-old – the old body’)</td>
</tr>
</tbody>
</table>

The first three items are bare reflexives, which are indefinite. They can be qualified by other pronouns to form compound reflexive pronouns, as in la³ le² hoi² / ku¹ ‘(I) myself (polite / equal)’, la³ le² lau⁴ ‘(we) ourselves’, la³ le² mūn⁴ ‘(you) yourself’, la³ le² te¹ ‘(he/she) him/herself’, fan⁵ ku¹ ‘myself’, mūn⁴ paï¹ fan⁵ mūn⁴ ‘I go by myself/on my own and you go by yourself/on your own.’ Of these two, la³ le² may also function as a qualifier, as in la:n⁴ la³ le² ‘one’s own home, our own home’, la³ le² ‘one’s own field, our own field’. pon⁵ fan⁵ is mainly used in Wuming area and is normally used alone in the sense of an impersonal reflexive pronoun. Similarly, ūla:yi kau² is often used alone without a qualifier, unlike la³ le² and la³ ūla:yi.

9.3.5.4. Reciprocal: toō⁶/toö⁶

Two reciprocal prefixes, which are free variants of one another, are used in Zhuang to form reciprocal expressions.

(12) toō⁶/toö⁶ tsai⁴ ‘love each other’
    toō⁶/toö⁶ aua⁴ ‘meet with each other’
    toō⁶ ūk¹ ‘have sexual intercourse with each other’ (vulgar)
    toō⁶/toö⁶ hut² ‘to abuse each other verbally’

9.3.6. Classifiers and quantifiers

9.3.6.1. Numbers

9.3.6.1.1. Cardinals

The cardinals for Zhuang from ‘one’ to ‘ten’ are listed below.

### TABLE 9.3.6.1.1-1: CARDINALS

<table>
<thead>
<tr>
<th>ʔdeu¹</th>
<th>ʔoŋ⁴</th>
<th>ʔa:m¹</th>
<th>ūk²</th>
<th>ha³</th>
<th>li³</th>
<th>a:e⁴</th>
<th>per²</th>
<th>ku³</th>
<th>ʔip⁴</th>
</tr>
</thead>
<tbody>
<tr>
<td>one</td>
<td>two</td>
<td>three</td>
<td>four</td>
<td>five</td>
<td>six</td>
<td>seven</td>
<td>eight</td>
<td>nine</td>
<td>ten</td>
</tr>
</tbody>
</table>

In Wuming, there is a cardinal mūn⁴, ‘one’.

‘Eleven’ to ‘nineteen’ are formed by putting an appropriate number after ‘ten’, with the exception of ‘eleven’ and ‘twelve’, which are formed respectively by adding ūk² ‘one’ and ūk⁵ ‘two’ after ‘ten’.
### Table 9.3.6.1.1-2: ‘ELEVEN’ TO ‘NINETEEN’

<table>
<thead>
<tr>
<th>cip⁴</th>
<th>ñi⁵</th>
<th>cip⁴</th>
<th>ña:m¹</th>
<th>cip⁴</th>
<th>ña³</th>
<th>cip⁴</th>
<th>lɔk²</th>
<th>cip⁴</th>
<th>cɛɾ²</th>
<th>cip⁴</th>
<th>pɛɾ²</th>
<th>cip⁴</th>
<th>ku³</th>
</tr>
</thead>
<tbody>
<tr>
<td>eleven</td>
<td>twelve</td>
<td>thirteen</td>
<td>fourteen</td>
<td>fifteen</td>
<td>sixteen</td>
<td>seventeen</td>
<td>eighteen</td>
<td>nineteen</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

‘Twenty’ to ‘ninety’ are formed by reversing the word order of each of the numbers from ‘twelve’ to ‘nineteen’:

### Table 9.3.6.1.1-3: ‘TWENTY’ TO ‘NINETY’

<table>
<thead>
<tr>
<th>ñi⁵</th>
<th>cip⁴</th>
<th>ña:m¹</th>
<th>cip⁴</th>
<th>ña³</th>
<th>cip⁴</th>
<th>lɔk²</th>
<th>cip⁴</th>
<th>cɛɾ²</th>
<th>cip⁴</th>
<th>pɛɾ²</th>
<th>cip⁴</th>
<th>ku³</th>
</tr>
</thead>
<tbody>
<tr>
<td>twenty</td>
<td>thirty</td>
<td>forty</td>
<td>fifty</td>
<td>sixty</td>
<td>seventy</td>
<td>eighty</td>
<td>ninety</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Other units of numbers in Zhuang include `pa:k²` ‘hundred’, `ciên¹` ‘thousand’, and `fa:n⁵` ‘ten thousand’.

Note the use of `ñi⁵` and `ñi²` with these numbers:

(13) `pa:k² `ñi⁵` ‘one hundred and ten’  Cf. `pa:k² `ñdeu¹` ‘one hundred’
`pa:k² `ñi²` ‘one hundred and twenty’  Cf. `ðò:ñ² `pa:k²` ‘two hundred’
`fa:n⁵ `ñi⁵` ‘eleven thousand’  Cf. `fa:n⁵ `ñdeu¹` ‘ten thousand’
`fa:n⁵ `ñi²` ‘twelve thousand’  Cf. `ðò:ñ² `fa:n⁵` ‘twenty thousand’

#### 9.3.6.1.2. Ordinals

Ordinals are formed by adding the ordinal prefix `ta:i⁵` to a cardinal, except for ‘first’ and ‘second’, in which case the forms `ñi²` ‘one’ and `ñi⁵` ‘two’, rather than `ñdeu¹` and `ðò:ñ²`, are used.

(14) `ta:i⁵` `ñi²` ‘first’, `ta:i⁵` `ñi⁵` ‘second’, `ta:i⁵` `ña:m¹` ‘third’, `ta:i⁵` `cip⁴` ‘tenth’.

For ordinals over ten, `ta:i⁵` is generally omitted, probably for prosodic reasons.

#### 9.3.6.1.3. Approximates and other number-related concepts

Approximate numbers can be expressed by using `θak²` before a numeral: `θak² `pa:k²` ‘about a hundred’, `mi⁴` `θak² `ña³ `lɔk² `pu⁶` ‘there are about five or six people’. The concept of ‘exceeding, over’ can be expressed by putting `tu² hun³` after the numeral-classifier phrase, as in `cip⁴ `pu⁶` `tu² hun³`.

In the case of ten, or ten folds, the element `lai¹` or `tši³` is used after the numerals, as in `cip⁴ `la:i¹ `tua² `pit²` ‘over ten ducks’, `ñi⁵ `cip⁴ `tši³ `pu⁶ `hek²` ‘over twenty guests’, `pa:k² `la:i¹` (OR: `tši³`) `man⁴ `pam¹` ‘over a hundred dollars’. Other concepts related to numbers are `ti⁴` ‘half’, `fawaj¹` ‘quarter’. Examples: `ti⁴ `ñdeu¹` ‘a half’, `ti⁴ `la:i¹` ‘a bigger half, over a half’, `θò:ñ¹ `fawaj¹` ‘two halves’, `θa:m¹ `fawaj¹` ‘three parts’, `θn⁵ `ñdeu¹` ‘a quarter’.

Fractions and percentages are expressed by `ci⁵` ‘10%’, `kai:i²` X ‘one-Xth’, eg. `ts³/θet⁵` `θò:ñ¹ `ci⁵` ‘increase/decrease by twenty percent’, `cip⁴ `ci⁵` ‘one hundred percent’, `kai:i²` `θa:m¹` ‘one-third’.

#### 9.3.6.1.4. Names of the month

Zhuang has two sets of names of the month, one native, and the other, loans from Chinese. The native names are formed by putting the number after and the head word, `ñduan¹` ‘month’, while in the case of the Chinese loans, the order is reverse, that is, the number
comes before the head word, \( \gamma uat^5 \). Table 9.3.6.1.4-1 lists these names.

**TABLE 9.3.6.1.4-1: NAMES OF THE MONTH**

<table>
<thead>
<tr>
<th></th>
<th>Native name</th>
<th>Chinese Loan</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>( \ddot{\text{d} \text{i} \text{m} \text{a} \text{n}^1} \ cie \text{f}^1 )</td>
<td>–</td>
</tr>
<tr>
<td>February</td>
<td>( \ddot{\text{d} \text{i} \text{m} \text{a} \text{n}^1} \ p\text{i}^5 )</td>
<td>( p\text{i}^5 \ \gamma uat^5 )</td>
</tr>
<tr>
<td>March</td>
<td>( \ddot{\text{d} \text{i} \text{m} \text{a} \text{n}^1} \ \theta \text{a} \text{m}^1 )</td>
<td>( \theta \text{a} \text{m}^1 \ \gamma uat^5 )</td>
</tr>
<tr>
<td>April</td>
<td>( \ddot{\text{d} \text{i} \text{m} \text{a} \text{n}^1} \ \theta^2 )</td>
<td>( \theta^2 \ \gamma uat^5 )</td>
</tr>
<tr>
<td>May</td>
<td>( \ddot{\text{d} \text{i} \text{m} \text{a} \text{n}^1} \ ha^3 )</td>
<td>( ha^3 \ \gamma uat^4 )</td>
</tr>
<tr>
<td>June</td>
<td>( \ddot{\text{d} \text{i} \text{m} \text{a} \text{n}^1} \ \text{la}^2 )</td>
<td>( \text{la}^2 \ \gamma uat^5 )</td>
</tr>
<tr>
<td>July</td>
<td>( \ddot{\text{d} \text{i} \text{m} \text{a} \text{n}^1} \ c\text{e}^2 )</td>
<td>( c\text{e}^2 \ \gamma uat^3 )</td>
</tr>
<tr>
<td>August</td>
<td>( \ddot{\text{d} \text{i} \text{m} \text{a} \text{n}^1} \ \text{pe}^2 )</td>
<td>( \text{pe}^2 \ \gamma uat^5 )</td>
</tr>
<tr>
<td>September</td>
<td>( \ddot{\text{d} \text{i} \text{m} \text{a} \text{n}^1} \ \text{ku}^3 )</td>
<td>( \text{ku}^3 \ \gamma uat^5 )</td>
</tr>
<tr>
<td>October</td>
<td>( \ddot{\text{d} \text{i} \text{m} \text{a} \text{n}^1} \ \text{ci}^4 )</td>
<td>( \text{ci}^4 \ \gamma uat^5 )</td>
</tr>
<tr>
<td>November</td>
<td>( \ddot{\text{d} \text{i} \text{m} \text{a} \text{n}^1} \ \text{hi}^1 )</td>
<td>( \text{hi}^1 \ \gamma uat^5 )</td>
</tr>
<tr>
<td>December</td>
<td>( \ddot{\text{d} \text{i} \text{m} \text{a} \text{n}^1} \ \text{la:p}^5 )</td>
<td>–</td>
</tr>
</tbody>
</table>

It is interesting to note that no numerals are used for January and December in both systems. This seems to be an indication that a ten-month calendar was once used by the Zhuang.

9.3.6.1.5. **Questions seeking numbers as answers**

Questions seeking numbers or quantities as answers usually have the following elements: \( \text{tsi}^3 \) ‘how many (where the answer is expected to be a concrete number lesser than ‘ten’), \( \text{tsi}^3 \ \text{la}:i^4 \) ‘how many, how much’, \( \text{ka}:\text{u}^5 \ \text{la:u}^d \) ‘how much, how many’. Examples:

(15) \( \ddot{\text{c}m}^1 \ \text{tsi}^3 \ \text{tua}^4 \ \text{va}:i^4 ? \)

missing \ how many \ CL \ buffalo

‘How many buffalos are missing?’

(16) \( \ddot{\text{nam}}^4 \ \text{ni}^4 \ \text{mu}^4 \ \text{pa}^i \ \text{kwa}^2 \ \text{tsi}^3 \ \text{la}:i^4 \ \ddot{\text{ba}:\text{i}}^5 \)

Nanning \ 2sg \ go \ ASP \ how many \ time

‘How many times have you been to Nanning?’

(17) \( \ddot{\text{ba}:\text{n}}^6 \ \text{la}^4 \ \text{ma}^4 \ \text{ka}:\text{u}^5 \ \text{la:u}^d \ \text{hu}:i^4 ? \)

village \ 1pl \ have \ how many \ person

‘How many people are there in our village?’

9.3.6.2. **Numeral-classifier constructions**

9.3.6.2.1. **Basic structure**

Numeral-classifier constructions in Zhuang have the structure ‘Numeral + Classifier + Noun’: 
However, if the numeral is ‘one’, the construction is: Classifier + Noun + Numeral:

(19)  ʔoroŋ tua4 va:i4 ‘one buffalo’  
  pu6 hun4 to:k5 ‘one person only’

This is different from Thai and other Southwestern Tai dialects, where the construction is: Noun + Numeral + Classifier. In Zhuang, such construction is permitted for pragmatic purposes:

(20)  la:n4 lau4 mì4 mu1 ʔoroŋ tua4,  kai2 ʔα:m1 čip4 tua4  
  house 1sg have pig two CL, chicken thirty CL  
  ‘Our family has two pigs and thirty chickens.’

The unmarked counterpart of the above construction is:

(21)  la:n4 lau4 mì4 ʔoroŋ tua4 mu1,  ʔα:m1 čip4 tua4 kai2

The reduplication of classifiers has the meaning of ‘every…, all’:

(22)  mu1 tua4 tua4 pi4  
  pig CL CL fat  
  ‘These pigs are all fat/every pig is fat.’

(23)  po4 te1 pu6 pu6 pai1.  
  3pl CL CL go  
  ‘They all went.’

When a classifier is used without a numeral, its function is to categorize. Examples:

(24)  ltuəŋ ʔtə ‘grapes (fruit), koŋ ʔtə ‘grape plants’, kau1 ʔtə ‘grape vine’;  
  kau1 kwa1 ‘pumpkin vine’, ltuəŋ kwa1 ‘pumpkin (the fruit)’, ʔbatəŋ kwa1 ‘pumpkin leaf’;  
  tua4 kuk2 ‘tiger’, tua4 ʔt̄uan1 ‘earthworm’, tua4 tsua:ul ‘spider’

Without the use of classifiers, the meaning of some of the above examples is still comprehensible, such as kuku ‘tiger’. For others, such as kwa1, the use of classifiers specifies the type, rather than the prototypical meaning of the noun in question.

9.3.6.2.2. Commonly used classifiers
Below is a list of some of the most commonly used classifiers in Zhuang.

A. Noun classifiers

(25)  ʔen1 – general classifier for inanimate things, big or small objects, eg. ʔeŋ ʔen1 tsoi1 ‘four bananas’, ha3 ʔen1 la:n4 ‘five houses’.
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*tua*—general classifier for animals, children, eg. *θoŋ* tua ma ‘two dogs’, *θa:m* tua luk ‘three children’.

*pu*—general classifier for human being, eg. *tsi* pu hek ‘several guests’,

*ko*—general classifier for plants eg. *θa:m* ko fa ‘three trees’.

*θɛn*—classifier for long, thin, stiff objects such as sticks, eg. *θoŋ* *θɛn* *tua* ‘two sticks’.

*net*—classifier for grains, eg. *lok* net hau ‘six grains’.

*ka:i*—classifier for things conceptualised as ‘piece’, eg. *θoŋ* *ka:i* *n* ‘two pieces of meat’.

*la*—classifier for winds, rains, eg. *la* hun deu ‘a shower’.

*kon*—classifier for stones, eg. *tsi* kon hin ‘several stones/rocks’.

*hoj*—measure for rooms, eg. *ha* hoj la:n ‘five rooms’.

*fa:k*—classifier for tools, eg. *fa:k* mit deu ‘a knife’.

*ʔba*—classifier for flat and relatively big objects such as quilt, blankets, land, eg. *θa:m* *ʔba* li ‘three upland field’.

*ʔbau*—flat, thin, relatively small objects (derived from ‘leaf’), eg. *θoŋ* *ʔbau* *f* ‘two leaves’.

B. Measures of events

In addition to things and objects, actions and events can also be measured.

(26) *ʔba:*t, *pat*—measure for actions or events

*ta:*u—measure for events involving trips

C. Derivational measures

A number of measure words are derived from verbs, indicating ‘an instance of V-ing’:

(27) *la*p ‘load’ (from ‘to carry on shoulder poles’)

*kap* ‘a handful’ (from ‘to hold’)

*kop* ‘handful (from ‘to scoop’)

*lo*p ‘bundle, string of’ (from ‘to string’)

D. Measures of length and weight

The following are some common measures of length and weight in Zhuang:

(28) *hup* ‘a length span between thumb and middle finger’

*θa:m* ‘a span of arms-spread’

*pa:n* ‘a span of one arm’

*ca:*y ‘a measure of weight, 50 grams’

*kan* ‘a measure of weight (from Chinese *jin*) = 500 grams’

*tieu* ‘a measure of weight, 5 kilograms’
E. Aggregate classifiers/measures

A number of aggregate classifiers/measures are found in Zhuang. Some are for animate things and others, inanimate things.

(29) fɔn\(^2\) ‘flock, group’, eg. fɔn\(^2\) lɔk\(^4\) ʔdeu\(^1\) ‘a flock of birds’
pa:ʃj\(^1\) ‘group, gang (of people)’, eg. pa:ʃj hun\(^4\) nɪ\(^6\) ‘this group of people’
toi\(^2\) ‘team (of people)’, eg. toi\(^2\) lɪuk\(^4\) ha:k\(^4\) ‘several teams of school children’
toi\(^2\) ‘pair (of animate things)’, eg. toi\(^2\) lɪuk\(^4\) va ʔdeu\(^1\) ‘a twin’
ku\(^5\) ‘pair of (inanimate things)’, eg. ʔκɪ:m\(^4\) ku\(^5\) tɔu\(^3\) ‘three pairs of chopsticks’
mɛŋ\(^5\) ‘pile, heap’, eg. ʔθoŋ\(^1\) mɛŋ\(^5\) tau\(^5\) ‘two piles of ash’

9.3.7. Closed functional classes

9.3.7.1. Auxiliaries

A number of auxiliaries can be found in Zhuang. These can take another verb as their argument.

(30) jieu\(^2\) jiaŋ\(^5\) pi\(^1\) nɪ\(^6\) ʔja:k\(^5\) pan\(^4\) loŋ\(^4\).

Look manner year this AUX become flooded

‘It seems that there is going to be a flood this year.’

(31) kɔ\(^1\) lo\(^6\) kuak\(^5\) ʔca:ʃj\(^5\) fai\(^6\).

elder brother know do carpentry’

‘Elder brother knows how to do carpentry work’.

(32) pi\(^6\) ʔca:ʃj\(^5\) jen\(^5\) / pan\(^4\) na:i\(^2\).

sister-in-law AUX be moody / get sick.

‘Sister-in-law tends to be moody / is easy to get sick.’

Auxiliaries that can fill this slot include ʔbau\(^5\) jɛŋ ‘no need to’, ʔbau\(^5\) ce ‘no need to, unnecessary to’, cun ‘allow to’, hau ‘let, allow to, permit to’, rɛ ‘crave to, wish to’, jen ‘be willing to’, ma:i ‘like to, love to’, mi\(^2\) na ‘have the cheek to, dare to’, ʔbau\(^5\) mi\(^4\) na ‘dare not, too shy to (do); ʔbau\(^5\) ʔdi ‘no good (doing sth.)’, ʔκ ‘dare to’, la:u ‘fear to’, ʔda ‘succeeded in, got to’, ʔbau ʔda ‘have to, cannot but (do sth.)’, among others. See §9.5.2 below for a discussion of syntactic properties of modal-auxiliaries.

9.3.7.2. Negatives

Negative words in Zhuang include ʔbau, ʔam\(^6\) and ʔca:ʃj. ʔbau\(^5\) is the most general, which is found across the Tai language family.

(33) te\(^1\) ʔbau\(^2\) lo\(^6\) na\(^3\) ku\(^1\)

he/she not know face 1sg

‘He/She doesn’t know me.’

ʔbau\(^5\) can have an emphatic form, ʔbau\(^5\) ... na:u\(^2\), translatable into English as ‘not ... at all’.

(34) mʊŋ\(^4\) tau\(^3\) ku\(^1\) ʔbau\(^5\) lo\(^6\) ʔde\(^5\) na:u\(^2\)

you come 1sg NEG know EMPH

‘I knew nothing about your arrival.’
\( \text{am}^6 \) can be used interchangeably with \( \text{bau}^5 \). This form is mainly found in Northern Zhuang.

\( \text{ca}^f \) carries tense/aspect meanings. It designates that an event or situation expressed by the verb in question has not eventualized at the time of speaking.

(35) \( \text{me}^5 \)\( \text{pai}^1 \)\( \text{hu}^d \)\( \text{ca}^f \)\( \text{ta}:u^2 \).

mother go market NEG return

‘Mother went to the market, and has not returned yet.’

A mild negation may be expressed by \( \text{bau}^5 / \text{am}^6 / \text{ca}^f \ldots \text{ka}:u^5 \text{la}^d \) meaning ‘not … too much, not very…’.

(36) \( \text{te}^l \text{li}^6 \)\( \text{nom}^3 \), \( \text{ca}^f \)\( \text{lo}^\prime \text{jieu}^3 \)\( \text{ka}:u^5 \text{la}^d \)

3sg still young NEG sensible much

‘He/she is still young; hence he/she is not very sensible.’

There are a few negative imperative markers in Zhuang. See §9.3.7.2 for discussion.

9.3.7.3. Prepositions, locative words

**Prepositions.** Genuine prepositions in Zhuang are few. Most prepositions in Zhuang are derived from verbs.

(37) \( \text{te}^l \)\( \text{di}^6 \)\( \text{a}^1 \text{ta}^3 \text{à}^u^6 \)

3sg with uncle talk

‘He/she is talking to/with his/her uncle.’

(38) \( \text{k}^\prime \text{ta}:^5 \text{ka}:^f \text{to}^3 \text{k}^\prime \text{pi}^5 \)

brother first tall MORE THAN brother second

‘First elder brother is taller than second elder brother.’

(39) \( \text{te}^l \)\( \text{pan}^4 \)\( \text{na}:^i^2 \text{ni}^4 \)\( \text{ju}^5 \text{bon}^5 \)

3sg become sick sleep in bed

‘He/she is sick, and is lying in bed.’

(40) \( \text{ok}^5 \text{pi}^1 \text{tau}^1 \text{ta}^f \text{pi}^1 \text{ni}^6 \text{te}^l \text{pa}^l \text{tsie}^l \text{lo}^k^5 \text{kuak}^5 \text{thuan}^2 \)

from years before to year this 3sg go place outside do work

‘From the year before till this year he went out to work.’

(41) \( \text{lak}^4 \text{thwi}^l \text{hu}^\mu \text{te}^l \)

don’t tell to 3sg.

‘Don’t tell (this) to him.’

Preprepositions of this kind may be analysed as coverbs. Other examples include \( \text{ta}:u^5 \) ‘towards’, eg. \( \text{jia}u^5 \text{ta}:u^5 \text{la}^f \) ‘look back’; \( \text{kwa}^2 \) ‘comparative marker’, eg. \( \text{thu}:^f \text{kwa}^2 \text{mu}^a^f \) ‘taller than you’; \( \text{num}^3 \) ‘like, as’, eg. \( \text{kan}^6 \text{num}^3 \text{me}^5 \) ‘(as) hardworking as mother’; \( \text{luan}^f \) ‘along’, eg. \( \text{ltuan}^g \text{vi}^3 \text{pja}:i^2 \) ‘walk along the stream’; \( \text{co}^5 \) ‘facing, towards’, eg. \( \text{pja}:i^2 \text{co}^5 \text{bha}:n^6 \) ‘walk towards the village’.
**Locative words.** Zhuang has a set of locative or direction words to express the concepts like ‘above’, ‘below’, ‘inside’, ‘outside’, ‘beside’, ‘in the middle of’ and the like. Table 9.3.7.3-1 lists the locative words in Zhuang.

**TABLE 9.3.7.3-1: LOCATIVE WORDS**

<table>
<thead>
<tr>
<th>Locative Word</th>
<th>Chinese Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>kum⁴</td>
<td>‘on top of, above’</td>
</tr>
<tr>
<td>la³</td>
<td>‘under, below’</td>
</tr>
<tr>
<td>ᵗdau⁴</td>
<td>‘in, inside’</td>
</tr>
<tr>
<td>lok⁵</td>
<td>‘out, outside’</td>
</tr>
<tr>
<td>ᵗden¹</td>
<td>‘beside’</td>
</tr>
<tr>
<td>tsaj¹</td>
<td>‘in the centre of’</td>
</tr>
<tr>
<td>na³</td>
<td>‘front, in front of’</td>
</tr>
<tr>
<td>laf⁴</td>
<td>‘back, behind’</td>
</tr>
</tbody>
</table>

Locative words can take nouns as their arguments.

(42) ᵗdau⁴ ᶧtuan¹ ‘inside the garden’

- ᵗden¹ la:n⁴ ‘beside the house’
- kum⁴ coh⁴ ‘on the table’
- tsaj¹ huw¹ ‘in the centre of the market’

They can also function as modifiers. Thus there is a distinction between:

(43) kum⁴ la:n⁴ ‘on (top of) the house’ cf. la:n⁴ kum⁴ ‘the house above’

- lok⁵ ba:n⁶ ‘outside the village’ cf. ba:n⁶ lok⁵ ‘the other village’
- ᵗden¹ coh⁴ ‘on the side of the table’ cf. coh⁴ ᵗden¹ ‘the table nearby’

Directional phrases involving locative words can be formed by putting a directional particle pa:i⁵ before the locative words, except for tsaj¹ ‘in the centre of’.

(44) pa:i⁵ kum⁴ ‘above, up’

- pa:i⁵ la³ ‘below, beneath’
- pa:i⁵ ᵗdau⁴ ‘inside’
- pa:i⁵ lok⁵ ‘outside’
- pa:i⁵ ta’⁵ na:n⁶ ᵗlok⁵ ‘the east (lit. ‘the side/direction where the sun comes out’)’
- pa:i⁵ tho¹/kwa⁴ ‘the left/right side’

To describe different part of a vertical object, such as a mountain, or a tree, Zhuang uses the concepts tin¹ ‘foot, bottom’, kɔk² ‘base’, tsaj¹ ‘middle’ and pja:i¹ ‘tip, top’. E.g. kɔk² fa⁶ ‘the base of a tree’, pja:i¹ fa⁶ ‘tree top’, tin¹ ᵗla⁶ ‘the foot of a mountain’, tsaj¹ ᵗla⁶ ‘the middle of a mountain – half way up the mountain’, pja:i¹ ᵗla⁶ ‘the top of the mountain’.

For syntactic behaviours of locative and directional phrases, see §9.5.1.3 for discussion.
9.3.7.4. Adverbials and adverbial phrases

Adverbials and adverbial phrases in Zhuang can be divided into two types: preverbal and post-verbal. They denote degree, frequency, time and place.

9.3.7.4.1. Preverbal adverbials

Most adverbials are preverbal. Examples of preverbal adverbials are *li6 ‘still’, *cam5 ‘together’, *cam⁵ *ciai⁶ ‘all together’, *cay⁷ *la:i⁶ ‘fortunately’, *lak³ *liem⁴ ‘quietly, secretly’, *pa:i⁴ *la:ŋ⁴ ‘nearly, almost’, *nai³ *niem⁴ *tem¹ ‘on the verge of’, *tau³ *fa:n⁷ ‘on the contrary’, *fam⁶ *fuk⁴ ‘suddenly’, *ka:k⁶ ‘only, alone’, *ji⁶ *ji⁶ ‘the more…the more’, *ka³ *ko³ ‘the more…the more…’, *mi⁴ *nai⁵ ‘a little bit, somewhat…’, *ma:n⁵ ‘…then’.

(45) tsuʃ⁷ *te¹⁴ *cam⁵ *pai¹⁴ *hu¹⁴ 3pl together go market

‘They went to the market together.’

(46) va:i¹⁴ *tʃ² *la:k² *pa:i¹⁴ *la:ŋ⁴ *ta:i¹⁴ buffalo drop fall nearly die

‘The buffalo nearly died from falling over the cliff.’

(47) *te¹⁴ *ka:k⁶ *kum¹⁴ *ka:k⁵ *ji⁶ 3sg alone eat alone live

‘He lives on his own and does his own cooking.’

The majority of preverbal adverbs are non-movable. They do not occur anywhere else in the sentence other than right before the verb they modify. Thus, examples (45), (46) and (47) will become unacceptable if the adverbs are moved to other places:

(45’) *cam⁵ *tsuʃ⁷ *te¹⁴ *pai¹⁴ *hu¹⁴.

(46’) *pa:i¹⁴ *la:ŋ⁴ *va:i¹⁴ *tʃ² *la:k² *ta:i¹⁴.

(47’) *te¹⁴ *kum¹⁴ *ka:k⁶ *ji⁶ *ka:k⁵.

9.3.7.4.2. Post-verbal adverbials

These include adverbials of frequency, as well as adverbials degree, among others. They, too, are non-movable. Examples:

(48) kuak⁵ *tʃɔŋ⁷ *ʃa:ŋ⁷ ‘do twice’

(49) *tʃɔnj³ *tsi³ *tʃa:ŋ³ ‘wash several times’

(50) tup⁴ *ʃa:ŋ¹⁴ *pai⁴ 3sg go before, you slowly follow later

‘I go first. You follow.’

Other post-verbal adverbs include *kon² ‘first’, *laŋ⁷ ‘later’, *tem¹ ‘in addition’, *pja:ŋ⁷ ‘wrongly, adversely’.

(51) ku¹⁴ *pai¹⁴ *kon⁷, *mtʃɔŋ⁷ *ma:n⁷ *laŋ¹⁴ *laŋ⁷ 1sg go before, you slowly follow later

‘I go first. You follow.’
(52) te¹ nga⁵ kuak⁵ pja:gf
3sg love do wrong
‘He/she likes to tell lies.’

(53) muaŋ⁸ nau⁴ tsie⁴ ni⁶ tsai¹ ha, tsie⁴ te¹ fa⁶ tsai¹ tem¹.
you say place this far PART, place that even far evenmore
‘You said this place is quite far away (from town), that place is even further.’

In Standard Zhuang, la:i¹ can be used both pre-verbally and post-verbally, with a difference in meaning. Preverbal la:i¹ is translatable into English as ‘quite, rather’, while post-verbal la:i¹ means ‘very, excessively’, eg. la:i¹ Ɂlii⁷ ‘quite red’, Ɂlii⁷ la:i¹ ‘very red’.

9.3.7.5. Temporal adverbs, time words

Temporal adverbs in Zhuang typically immediately precede the verb phrase. Examples of common temporal adverbs include: lien⁴ ‘just’, gam⁵ pa:m² just, just now’, pa:m² lian⁴ ‘just now, right at this moment’, ci⁷ ‘not yet’, Ɂli⁷ ‘already’, mo² na³ ‘later, in the future’. Examples:

(54) te¹ lien⁴ /pa:m¹ pa:m² taŋ⁴
3sg just /justnow arrive
‘He just arrived.’

(55) ku¹ Ɂľ⁴ ku¹m¹ Ɂlie⁴ le²
1sg already eat finish PART
‘I’ve already eaten.’

Like other preverbal adverbs, temporal adverbs are non-movable.

Time words in Zhuang are prototypically compounds of disyllabic words. Common time words in Zhuang are formed by compound heads ku² ‘moment’ and mua⁵, as well as monosyllabic words like on⁴ ‘day’, har² ‘morning’, ham⁵ ‘evening, night’ and pi¹, plus the demonstrative adjectives ni⁶ ‘this’ and te¹ ‘that’ and so on.

(56) ku² ni⁶ ‘now, at the moment’, ku² pan⁵ ‘just now, a while ago’, ku² tem¹ ‘in a minute’

mua⁵ kon² ‘before, previously, formerly’, mua⁵ ni⁶ ‘now, at present’, mua⁵ te¹ ‘then, in those times’, mua⁵ Ɂlh⁰ ‘previous times’, mua⁵ lai⁷ ‘later times’.

gan⁴ kon² ‘(several) days ago’, gan⁴ ni⁶ ‘today’, gan⁴ luan⁴ ‘yesterday’, gan⁴ co⁵ ‘tomorrow’, gan⁴ lu⁵ ‘the day after tomorrow’, gan⁴ lai⁴ ‘in three days’, gan⁴ mo²/na³ ‘later, later on, in the future’, gan⁴ Ɂlh⁰ ‘previous day’, gan⁴ lai⁷ ‘next day’.

har² ‘morning’ and ham⁵ ‘evening, night’ can take the same modifiers as gan⁴.

pi¹ kwa² ‘last year’, pi¹ tau¹ ‘two years ago, the year before last’, pi¹ ni⁶ ‘this year’, pi¹ mo² ‘next year’, pi¹ ná³ ‘in two years, the years ahead’.

The locative word tsa:gf ‘in the centre of’, discussed earlier in §9.3.7.3 above, can also be used to form temporal expressions in Zhuang, as illustrated below.
Time words are movable adverbials. They can occur at the beginning of a sentence. They can also occur before or after the verb phrase. Thus the sentence ‘he came home yesterday’ can be said in Zhuang as:

(58) ɳɔn⁴ ɬuₐn⁴ te¹ taːw² laːn⁴ (yesterday-3sg-return-home)
    te¹ ɳɔn⁴ ɬuₐn⁴ taːw² laːn⁴ (3sg-yesterday-return-home)
    te¹ taːw² laːn⁴ ɳɔn⁴ ɬuₐn⁴ (3sg-return-home-yesterday)

where the time word ɳɔn⁴ ɬuₐn⁴ ‘yesterday’ can occur freely in the initial, middle or final position of the sentence. This is different from adverbials of duration and of frequency, which can occur post-verbally only:

(59) pa¹ hə³ ɳɔn⁴ ‘go-five-day – go for five days’
    ʔmu⁵ Ɂip⁴ pi¹ ‘live-ten-year – live for ten years’
    ʔdɔm⁵ Ɂaːm⁵ ɬuₐn¹ ‘pickle-three-month – to pickle for three months’

where change of the order of the time phrase will render the sentence unacceptable.

9.3.7.6. Imperative and negative imperative markers

There is no special marker for positive imperatives in Zhuang. However, a number of negative imperative markers are found in Zhuang, with different shades in meaning. These include ɬbəu⁵ lak⁴ ‘don’t’, ɬbəu⁵ pa⁷ ‘don’t do…yet (but do it later)’, taːf⁶ pa⁷ (same as ɬbəu⁵ pa⁷).

(60) ɬbəu⁵ lak⁴ caːw⁶ taːf⁶ te¹
don’t speak way that
‘Don’t talk like that.’

In fast speech, ɬbəu⁵ lak⁴ can be shortened as ɬlak⁴ or simply lak⁴.

(61) ɬbəu⁵ pa⁷ pa³ OR: taːf⁶ pa⁷ pa³
don’t go don’t go
‘Don’t go now (but go later).’

ɬbəu⁵ pa⁷ and taːf⁶ pa⁷ can be shortened as pa⁷.

In Wuming, the negative imperative markers for the above are kəi² ‘don’t’ and kəi² pa⁷ ‘don’t do … yet.’
9.3.7.7. Particles and interjections

Zhuang has a number of sentence particles for discourse purposes. They indicate the speaker’s attitude in the utterances. The tones of these particles are not fixed. They may vary from speaker to speaker, and the degree of intensity of the utterances. Some examples follow.

(62) hun¹ təx² lo.
    rain fall PART
    ‘It is raining.’ (assertive)

(63) te¹ ʔbaːj³ ʔaː:i³ ʔaː³ laː:n⁴ pa.
    3sg perhaps stay home PART
    ‘S/he is probably at home.’ (assumption)

(64) le¹ pu⁶ lak⁴ nə
    guard thief PART
    ‘Keep an eye on thieves.’ (warning, suggestion)

(65) kaːi² ni⁶ ʔdi¹ na
    piece this good PART
    ‘This one is good, isn’t it?’ (seeking affirmation)

(66) pai¹ ʔam⁶ pai¹ le?
    go not go PART
    ‘Are you going (or not)?’ (question)

(67) ʔaː! laː:i⁴ na⁴ ni⁶ mi⁴ non¹ laː!
    INTERJ. CLF. field this have insect PART
    ‘Oh God, there are pests in this field!’ (alarmed, surprise)

(68) ne, ʔau¹ kaː:i² ni⁶ pai¹.
    INTERJ. take piece this go
    ‘Take this, then/Here you are.’ (impatience)

It must be pointed out that there is a wide range of particles and interjections available in each dialect, whose usages and functions need to be further investigated.

9.3.7.8. Intensifiers

A small set of words in Zhuang function as intensifiers to describe the degree of intensity of a state or situation. These include laː:i¹ ‘excessively, too’, ta⁶ laː:i⁶ ‘indeed’, pan⁴ ma⁴ ‘very’, tem¹ ‘also, in addition’, and ʔaː:k³ taː:i¹ ‘extremely, … to death (vulgar)’, among others. Intensifiers in Zhuang follow the adjectival verb they modify. Examples: tsai¹ laː:i¹ ‘too far away’, tin³ laː:i¹ ‘too short’, hun⁴ laː:i¹ laː:i¹ ‘(there are) too many people’; ʔaː! ta⁶ laː:i⁶ ‘very good indeed’, ʔeːʔaː pu⁴ ma⁴ ‘extremely/really clean’, fa⁶ laː:i⁴ tem¹ ‘even longer’; ʔaː laːu¹ ʔaː:k³ taː:i¹ ‘extremely scared, scared to death’, ham⁴ ʔaː:k³ taː:i¹ ‘exceptionally/extremely bitter’.
9.3.8. Elaborate expressions

Elaborate expressions are four-syllabled idiomatic expressions, often carrying rich cultural connotations.

(69) ʔf²ka¹la³tu⁶f ‘fond of moving around, tend not to stay in one place’
pi³nua⁶f pau²ʔa:u¹ ‘relatives’
̣hun¹t.ə₂pja³lai⁴ ‘bad weather’
tsa¹tse¹ta¹laːt⁴ ‘adversity, times of misfortune’
hai¹li⁶caːu⁶na⁴ ‘to open up new land’

9.3.9. Colour terms

Basic colour terms in Zhuang include ʔdi¹f ‘red’, haːu¹ ‘white’, and fon⁶ ‘black’ (ʔdam¹ in Wuming and a number of other dialects). To ‘black’ we may add mi³ ‘soot’ (the colour of charcoal) and fot⁵ ‘black (of wound)’. Related to ‘red’ are non⁵ ‘pink’ and tsam² ‘purple’.

‘Green’ is heu¹. There are two words for ‘blue’, lək⁴ and ʔəp⁵. lək⁴ appears to be related to Chinese lu⁴, which means ‘green’ and ʔəp⁵ is a native word. Also, there are two items for ‘yellow’, hen³ and l–an², with different shades of meaning. hen³ is the general term for ‘yellow’, while ləuan² specifically refers to orange colour, or the colour of fruits about to ripen.

To describe a specific type of colour, Zhuang often associates it with a prototypical object that it best represents, very much like the English expressions such as ‘snow-white’ and ‘sky-blue’. Examples are ʔdi¹f ləuan² ‘red (as) blood blood-red’, hen³ tsoi³ ‘yellow (as) banana banana-yellow’, and ʔəp⁵ lom³ ‘blue (as) indigo indigo-blue’, among others.

9.3.10. Emotional concepts

Like many other cultures, Zhuang make heavy use of body part terms in expressing emotional concepts. The majority of emotional concepts in Zhuang are associated with the face, the throat, and the heart. Colour, taste, dimension, touch, direction and so on also play an important role in the formation of concepts of this kind.


Concepts with ho⁴ ‘throat’. These are typically associated with inner feelings. It is interesting to see that Zhuang uses ‘throat’ as the locus of emotions that are cross-linguistically related to the mind. Examples: ho⁴han¹ (‘itchy, the taste/feel of uncooked taro’) ‘jealous’, ho⁴ptaːʃ (‘itchy’) ‘irritated’, ho⁴taːʃ (‘erect’) ‘grudged’, ho⁴laːd (‘long’) ‘good tempered’, ho⁴luːʃ (‘slack’) ‘good-tempered, gentle-hearted’, ho⁴ʔuːn³ (‘ascend’) ‘angry’, ho⁴laːʃ (‘descend’) ‘convinced’, ho⁴ʔloːʃ (‘stiff’) ‘hard-lined, cruel’; ho⁴ʔan¹ (‘soft’) ‘soft, not strict’; naːt¹ (‘happy’) ho⁴ ‘happy, glad (not shown on the face), tsət¹ (‘love’) ho⁴ ‘concerned’, ʔen¹ (‘stuck’) ho⁴ ‘to have grievance, feel uncomfortable with’, ʔuːʃ (‘suspend’) ho⁴ ‘keep in suspense, uneasy’.

Concepts with ʔam¹ ‘heart’. Many languages use ‘heart’ as the locus of emotion, and Zhuang is no exception. Examples: ʔam¹ʔo³ (‘straight’) ‘honest’, ʔam¹ʔli¹ (‘good’) ‘kind-hearted’, ʔam¹ʔəlˈuːk² (‘rotten’) ‘black-hearted’; caːu² (‘fry’) ʔam¹ ‘worried (about), anxious’, nak² (‘heavy’) ʔam¹ ‘concentrated, determined’. 
Other related concepts. In addition to the above, Zhuang uses the eye, stomach, body and breath to describe emotions. Examples: \( ta^1 \ddi \) (‘eye-red’) ‘jealous, envy’, \( ta^1 \ddi^{\prime} \) (‘eye-high/tall’) ‘arrogant, snobbish’; \( tu^i \ddi^{\prime} \) (‘stomach-bad’) ‘evil-hearted’; \( \ddi^{\prime} \ddi^{\prime} \) (‘body-separate’) ‘sad’; \( jk^2 \) ‘drop-breath’ ‘pity’. There are also concepts that do not involve the use of body part terms, such as \( ma\ddi \) ‘happy’, \( \ddi^{\prime} \ddi^{\prime} \) ‘joyful, hilarious’, among others.

9.4. GRAMMATICAL PROCESSES

9.4.1. Grammar and grammatical processes

Zhuang is a non-inflexional language. It has no inflections for case, gender, tense or number. Affixing and reduplicating represent the major morphological processes.

9.4.1.1. Affixing

There are more prefixes than suffixes in Zhuang. Some commonly-used prefixes are listed below.

A. Noun prefixes:

(70) \( pu^6 \) – general prefix for human beings:

- \( pu^6 \) hek\( ^2 \) ‘guests’
- \( pu^6\) n\( ^\ddi \) ‘the Nung people’
- \( pu^6\) jieu\( ^4 \) ‘the Yao people’

(71) \( pau^2 \) – prefix for adult male person:

- \( pau^2\) ta\(^1 \) ‘father-in-law’
- \( pau^2\) lu\( ^\ddi \) ‘father’s elder brother’
- \( pau^2 \) mo\( ^1 \) ‘shaman’

Nouns taking the above prefixes are generally used as reference terms, and not as address terms.

(72) \( la:u^6 \) – honorific prefix for people:

- \( la:u^6 \) \( \ddi^{\prime} \ddi^{\prime} \) ‘teacher’
- \( la:u^6\) \( ?do\ddi \) ‘relative by the marriage of one’s children’
- \( la:u^6\) \( ta\ddi \) ‘friends who is the same age’

Nouns with \( la:u^6 \) can be used as address terms.

(73) \( ta^6 \) – prefix for kinships of seniority:

- \( ta^6\) ta\(^1 \) ‘maternal grandpa’
- \( ta^6\) po\( ^5 \) ‘father’
- \( ta^6\) po\( ^3 \) ‘father or mother’s elder sisters’

(74) \( ta^5 \) – prefix for girls:

- \( ta^5\) \( ma\ddi \) ‘younger sister’
- \( ta^5\) \( \ddi^{\prime} u^l \) ‘girl’
(75) **pɔ4** – plural prefix for human beings:

\*pɔ4 lau4 \* ‘us, we’
\*pɔ4 ṭəl \* ‘you (plural)’
\*pɔ4 te1 \* ‘they, those (people)’

(76) **na3** – prefix for abstract nouns indicating position in the social or family hierarchy:

\*na3 po5 \* ‘father’s generation’
\*na3 ṭi6 \* ‘elder siblings’ generations’
\*na3 la:n1 \* ‘grandchild’s generation’

(77) **luk4** – prefix for fruits, small objects:

\*luk4 puak2 \* ‘taro’
\*luk4 ma:n5 \* ‘chilli pepper’
\*luk4 ta1 \* ‘pupil, eyeball’

(78) **kai2** – prefix for things, attached to verbs to form a noun, nominalizer:

\*kai2 kən1 \* ‘things to eat – food’
\*kai2 ten3 \* ‘things to wear – clothing’
\*kai2 jəf5 \* ‘things to use – spending money, utensil’

(79) **tin1** – compounding head for ‘seedlings’:

\*tin1 ma:k2 \* ‘seedlings of fruit plants’
\*tin1 pjak2 \* ‘vegetable seedlings’
\*tin1 puak2 \* ‘taro seedlings’

(80) **tsau3** – compounding head for ‘source, end’:

\*tsau3 ta5 \* ‘source of a river’
\*tsau3 ṭba:n6 \* ‘the front of the village’
\*tsau3 ha:n4 \* ‘the ends of a shoulder pole’

(81) **ten5** – compounding head for ‘site, place, location’:

\*ten5 la:n4 \* ‘house site’
\*ten5 ṭmaan1 \* ‘garden site’
\*ten5 ṭu5 \* ‘address, residence’

B. Verb/adjectival prefix

The form **pan4** merits special attention. This item is polysemous. It can be used as a lexical verb, meaning ‘to become, to be’. It can also function as an aspectual marker to denote an achieved result. As a prefix, it has two meanings.

(i) Verb/adjectival prefix, detransitiviser, whose meaning may be described as ‘-able’. All activity verbs can take this prefix.
(82) pan⁴ kum¹ ‘edible’
   pan⁴ kuak⁵ ‘workable’
   pan⁴ jú⁰ ‘livable’
   pan⁴ pai¹ ‘goable’
   pan⁴ nin⁴ ‘able to be slept on’

(ii) Prefix for disease terms. The majority of disease terms in Zhuang are formed with this prefix. Some common disease terms are given below.

(83) pan⁴ ?ai¹ ‘to caugh’
   pan⁴ ?aːːt⁵ ‘have a fever’
   pan⁴ muː⁴ ‘have asthma’
   pan⁴ paːk⁵ ‘be insane’
   pan⁴ pai⁴ ‘have a skin ulcer’

9.4.1.2. Suffixing

Suffixes in Zhuang mainly occur with nouns and verbs. Noun suffixes function like noun qualifiers. Verb suffixes express certain aspectual meaning.

A. Diminutive suffix lʊk⁴:

(84) mu¹ lʊk⁴ ‘piglet’
   vaːi⁴ lʊk⁴ ‘calf, veal’
   ma¹ lʊk⁴ ‘puppy’
   piː⁴ lʊk⁴ ‘duckling’

B. Gender suffixes tak⁴ ‘male (animals), pu⁶ ‘male’ (birds); me⁵ ‘female’:

(85) vaːi⁴ tak⁴ ‘bull, (male) buffalo’
   ma¹ tak⁴ ‘(male) dog’
   ma⁶ tak⁴ ‘horse’
   kai² pu⁶ ‘rooster’

(86) vaːi⁴ me⁵ ‘cow’
   ma¹ me⁵ ‘(female) dog, bitch’
   ma⁶ me⁵ ‘hare’
   kai² me⁵ ‘hen’

C. Verb + C + ʔaː (Standard Zhuang C + ʔaː): do something quickly, or casually. In this pattern, the initial consonant of the verb is copied, plus the final /-ʔaː/.

(87) kum¹ kua⁵ ‘eat straight away’
   ʔałam¹ ʔaː⁵ ‘plant (it) straight away’
   lsk² lwa⁵ ‘just pull (it) out’
   msk² rua⁵ ‘simply bury (it)’
   fan⁴ faː⁵ ‘just slash (it), cut randomly’
   hua⁵ hua⁵ ‘tie up quickly’
D. Verb + >jɔ̄ː: do something tentatively, try to do

(88) kuak⁵ jɔ̄ː  ‘do (something) tentatively’
  cim⁴ jɔ̄ː  ‘try to taste (it)’
  tut⁴ jɔ̄ː  ‘try to harness’
  ñam₁ jɔ̄ː  ‘try to plant’
  lua:m¹ jɔ̄ː  ‘try to carry (by two or more people)’

E. Suffix for disease terms: Noun + tsiet²

This is quite a productive pattern. The suffix tsiet² is obviously derived from the lexeme tsiet², meaning ‘ache’.

(89) ña:st⁴ tsiet²  ‘feel pain all through’
  htau⁴ tsiet⁷  ‘have a back pain’
  ta¹ tsiet⁷  ‘have a sore eye’
  tuf⁶ tsiet⁷  ‘have a stomach ache’
  tsau³ tsiet²  ‘have a headache’

9.4.2. Reduplication

Reduplication in Zhuang occurs with verbs, adjectives, nouns and classifiers. Reduplication of verbs prototypically refers to repeated action. Reduplication in Zhuang takes the following forms:

9.4.2.1. Reduplication of verbs

Only simple verbs, i.e. phonologically monosyllabic verbs, can be reduplicated. Reduplication of verbs takes the following forms.

A. AABB

This occurs with verbs of opposite polarity. Examples:

(90) hau³ hau³ ñok³ ñok³  ‘keep coming in and out’
  pai¹ pai¹ ta:u² ta:u²  ‘come and go, keep passing by’
  htau³ htau³ ta:u² ta:u²  ‘keep in close contact’; ‘keep going up and down’

B. A pai¹ A tæ:u² (lit. ‘A go A come’). Examples:

(91) çua⁶ pai¹ çua⁶ tæ:u²  ‘keep persuading/talking for a long time’
  pja:i³ pai¹ pja:i³ tæ:u²  ‘keep walking; walk back and forth’
  la¹ pai¹ la¹ tæ:u²  ‘keep searching for a long time’

C. A hæn³ A tæf (lit. ‘A ascend A descend’). Examples:

(92) ñuan² hæn³ ñuan³ tæf  ‘keep counting’
  ñiap³ hæn³ ñiap³ tæf  ‘keep thinking’ (also as ñiap¹ pai¹ ñiap tæ:u²)
  kam³ hæn³ kam³ tæf  ‘try hard to convince’
D. A la:i⁵ A ta:i⁵ – do too much/excessively. Examples:

(93) ka:ʒ⁴ la:i⁵ ka:ʒ⁴ ta:i⁵ ‘talk too much, talk excessively’

lən¹ la:i⁵ lən¹ ta:i⁵ ‘see a lot, see too much’

pəi¹ la:i⁵ pəi¹ ta:i⁵ ‘go too often’

ham² la:i⁵ ham² ta:i⁵ ‘ask too much’

9.4.2.2. Reduplication of adjectives

Reduplication of adjectives designates the high degree of tensity of the situation described by the adjective in question. Only gradable adjectives are permitted to undergo this process.

(94) na³ Ɂding⁴ Ɂding⁴ ‘very red face’

ək⁴ Ɋeu² Ɋeu² ‘wash extremely clean’

pja:i³ Ʉam⁴ Ʉam⁴ ‘walk very fast’

Ʉdam¹ n³ n³ ‘plant very close together’

A number of preverbal adverbs can be reduplicated this way.

(95) ma:n⁵ ma:n⁵ pja:i³ ‘walk very slowly’ (ma:n⁵ ‘slow’)

na:n⁴ na:n⁴ pəi¹ ‘go occasionally’ (na:n⁴ ‘long (time)’)

ɡa:m² ɡa:m² ɡa:j⁴ ‘just arrived’ (ɡa:m² ‘suitable, just’)

liam⁴ liam⁴ Ɂaa:k⁵ ‘dodge quietly’ (liam⁴ ‘quietly’)

9.4.2.3. Reduplication of nouns and classifiers

Reduplication of nouns and classifiers has the meaning ‘all, every’.

(96) la:n⁴ la:n⁴ m³ m¹ ciən⁴

house house have pig Spring Festival
‘Every household has a pig for the Spring Festival.’

(97) maːk² Ɂen¹ Ɂen¹ va:n¹

fruit CLF CLF sweet
‘All the fruits are sweet.’

Sometimes, two nouns can be reduplicated in AABB form.

(98) Ɂdaːw⁴ Ɂdaːw⁴ Ɂok⁵ Ɂok⁵ (inside + outside) ‘inside and outside, every corner’

pi⁴ pi⁶ Ɂuaːf⁴ Ɂuaːf⁴ (elder sibling + younger sibling) ‘all the relatives’

pi⁴ pi⁶ Ɂər² Ɂər² (duck + chicken) ‘ducks and chickens, all domestic fowls’

9.4.3. Lexical nominalization

As mentioned in §9.4.1.1, the element kaːi² can function as a nominalizer in Zhuang. It can be combined with verbs, adjectives and pronouns to form nominal compounds.
(99) ka:i² kum¹ ‘things to eat – food’
    ka:i² ten³ ‘things to wear – clothing’
    ka:i² jɔj⁶ ‘things to use – spending money; utensil’
    ka:i² ɔdi¹ ‘things good – good things, things of superior quality’

Items with similar function include tua⁴ and ʔden¹. tua⁴ is used for animals and ʔden¹, utensils.

(100) tua⁴ ʔbin¹ ‘flying insects/birds/animals’ (ʔbin¹ ‘to fly’)
    tua⁴ tua² ‘beasts of burden’ (tua² ‘to harness, hold’)
    tua⁴ ɕiep⁶ ‘domesticated animals’ (ɕiep⁶ ‘to raise’)
    tua⁴ ptua⁶ ‘untamed domestic animals’ (ptua⁶ ‘untamed, set free’)
    tua⁴ ka:i¹ ‘animals for sale’ (ka:i¹ ‘to sell’)

(101) ʔden¹ ɔdi⁵ ‘utensils, tools’ (the meaning of ɔdi⁵ is unknown. It also occurs in the compound for ʔda:u¹ ɔdi⁵ ‘star’)
    ʔden¹ jɔj⁶ ‘utensils’ (jɔj⁶ ‘to use’)
    ʔden¹ ڪaʃ⁶ ‘containers’ (ڪaʃ⁶ ‘to contain’)
    ʔden¹ ʨoP⁵ ‘cover (noun)’ (ʨoP⁵ ‘to cover’)

9.5. SIMPLE MAIN CLAUSES

Simple clauses in Zhuang may be divided into two types: transitive and intransitive. As mentioned in §9.3.3, Zhuang is an SVO language, with Subject-Verb-Object as the preferred word order. However, V-S order occasionally occurs.

(102) tɔk² hun¹ le.
    drop rain PART
    ‘It is raining.’

(103) pt² paɪ¹ ha³ tua⁴ va:i⁴ lo.
    escape go five CL buffalo PART
    ‘Five buffalos escaped.’

See §9.6.2.3 for treatment of related phenomena.

9.5.1. Types of predicate arguments

9.5.1.1. Double-subject/topic-comment sentences

One type of sentences in Zhuang structurally involves two subjects, a typological feature also found in Chinese. This type of constructions may be referred to as ‘double-subject sentences’ (Chao 1968: 67-104) or ‘Topic-comment sentences’ (Li and Thompson 1981: 92-108), depending on the type of analysis one chooses to adopt. There is some kind of semantic relationship between the two subjects, such as ‘part’ vs. ‘whole’. In the following examples, the topic noun phrases are underlined in bold.
(104) la:i⁴ na⁴ ni⁶ hau⁶ pan⁴
CLF field this rice grow well
‘This piece of land, rice grows well in it.’

(105) ʔba:n⁴ te¹ hun⁴ la:i¹
village that people many
‘That village has a lot of people/There are a lot of people in that village.’

(106) naa⁶ ʔdaa⁶ tau³ luwa⁵
y. sibling nose come blood
‘Younger brother’s nose is bleeding/Younger brother has got a bleeding nose.’

(107) tua⁴ miu⁶ lai⁴ net⁴ fa:k⁵
Bean season late grain plump
‘Late-season beans, they have plump grains./The grains of late-season beans are plump.’

(108) ha³ tua⁴ kai² me⁵ ni⁶ tua⁴ tua⁴ ʔok⁵ tsai².
Five CLF chicken female this CLF CLF lay egg
‘These five chooks, all (of them) are laying eggs.’

9.5.1.2. Direct vs. indirect objects
It is important to recognize in Zhuang a number of verbs that can take two objects, a direct object (DO) and an indirect object (IO). Some of these verbs require the preposition or co-verb ha—3 (derived from the lexical verb ‘to give’) before the indirect object. The word order is: V + DO + hau² + IO. Examples:

(109) a. ae¹ ‘leave, save’: ae¹ hau⁶ hau² te¹ ‘leave (some) rice to him’
    b. ae² ‘lend’: aei³ pa⁴ hau² ku¹ ‘lend some money to me’
    c. jien⁵ ‘pass on to’: jien⁵ jien⁵ hau² kɔ³ ‘pass a cigarette to elder brother’
    d. ka:i⁵ ‘sell…(to)’: ka:i⁵ va:i⁴ hau² mua⁴ ‘sell the buffalo to you’
    e. pan¹ ‘allocate’: pan¹ hau⁶ hɔn¹ hau² pɔ⁴ te¹ ‘allocate some seeds to them’
    f. thui⁷ ‘tell’: thui⁷ tɔ⁷ hau² maaf⁶ ‘tell younger brother/sister a story’

The use of hau² is obligatory in constructions of this kind. Note that the direct object can be fronted, as in hau² ae¹ hau² te¹ ‘food, (we have) left him’, but not the indirect object, as utterances like *te¹hau⁶ ae¹ hau² te¹ are not acceptable. In addition, when the contexts are clear, the direct object can be omitted, as in la:k⁴ ae¹ hau² te¹ ‘Don’t leave (it) to him.’

Unlike the above, some verbs take optional hau². These include lok² ‘give for free, bestow’, pot⁴ ‘pay back, return’, thɔ⁷ ‘send, present’. These have the pattern: V + (hau²) + IO + DO.

(110) lok² (hau³) te¹ tai⁵ hau⁶ thɔ:n¹ ʔdeu¹
give H 3sg bag rice husked one
‘Give him a bag of rice for free’
Sentences like (110) and (111) can be rearranged into the ‘V + DO + hau\textdegree + IO’ construction just discussed above, in which case the use of hau\textdegree is obligatory.

(110') lok\textdegree tai\textdegree hau\textdegree \textalpha: n\textdegree deu\textdegree hau\textdegree te\textdegree ‘give him a bag of rice’

(111') poi\textdegree \textalpha: m\textdegree pa: k\textdegree man\textdegree \textgamma: ku\textdegree ‘pay back three hundred dollars to me’

It is worth pointing out that sentences like (109a) do not have a parallel construction ‘V + IO + DO’ unless the direct object is specified or quantified. In other words, specification/quantification plays a role in the syntax of Zhuang. Thus, (109a') is unacceptable as the direct object is unspecified and unquantified while (109a") is OK with a quantified direct object.

(109a') *ce\textdegree hau\textdegree te\textdegree hau\textdegree ‘leave him some rice’

(109a") ce\textdegree hau\textdegree te\textdegree \textbeta: oyi\textdegree tai\textdegree hau\textdegree ‘leave him two bags of rice’

The main verb ‘to give’ hau\textdegree does not allow ‘Verb + hau\textdegree + IO + DO’:

(112) *ku\textdegree hau\textdegree hau\textdegree te\textdegree \textalpha: m\textdegree man\textdegree \textgamma: ‘I gave him three dollars.’

but rather ‘Verb + IO + DO’ or ‘Verb + DO + hau\textdegree + IO’:

(113) ku\textdegree hau\textdegree te\textdegree \textalpha: m\textdegree man\textdegree \textgamma: ‘I gave him three dollars.’

(114) ku\textdegree hau\textdegree \textalpha: m\textdegree man\textdegree \textgamma: hau\textdegree te\textdegree. (same as above)

Quantification also interacts with aspect in Zhuang, a point we will pick up later.

Furthermore, some verbs never take hau\textdegree. Verbs of this kind allow ‘V + IO + DO’ pattern only. Examples:

(115) te\textdegree ham\textdegree ku\textdegree tsi\textdegree \textepsilon: \textomega: ‘He asked me several questions.’

(116) pau\textdegree kuak\textdegree p\textomega: te\textdegree \textepsilon: pir\textdegree man\textdegree \textgamma: ‘The vender ripped him off 10 dollars.’

9.5.1.3. Locative and directional phrases

9.5.1.3.1. Locative phrases

Locative expressions in Zhuang are typically introduced by the locative marker \textgamma: ju\textdegree. Locative expressions can occur before or after the verb, depending on event types.
(116) a. ʔjuᶞ kum⁴ lau⁴ nin⁴ (OR: nin⁴ ʔjuᶞ kum⁴ lau⁴) ‘to sleep upstairs’
    b. ʔjuᶞ d̥avun⁴ la:n⁴ nas (OR: nas ʔjuᶞ d̥avun⁴ la:n⁴) ‘to sit inside the house’
    c. ʔjuᶞ kum⁴ heŋ⁴ lon² (OR: lon² ʔjuᶞ kum⁴ heŋ⁴) ‘to chop on the chopping board’.

If the event is a volitional, and if the action is involves a purpose, the locative phrase comes before the verb phrase.

(117) ʔjuᶞ la:n⁴ t̥u̞⁴ la:k⁴ ‘to look after children at home/to stay at home to look after children’

(117’) ?? t̥u̞⁴ la:k⁴ ʔjuᶞ la:n⁴ ‘to look after children at home’

But if the action is non-volitional, or if the verb is one of placement, the locative comes after the verb. Consider the following pairs:

(118) hɔm³ ʔjuᶞ tsə:t¹ la:n⁴ ‘to fall in the centre of the house’

(118’) ?? ʔjuᶞ tsə:t¹ la:n⁴ hɔm³ ‘to fall in the centre of the house’

(119) ta:i¹ ʔjuᶞ la³ ʔba:n⁶ ‘to die (on the road) down the village’

(119’) ?? ʔjuᶞ la³ ʔba:n⁶ ta:i¹ ‘to die (on the road) down the village’

(120) cœ¹ ʔjuᶞ kum⁴ cœ¹ ‘leave on the table’

(120’) *ʔjuᶞ kum⁴ cœ¹ cœ¹ ‘leave on the table’

(121) tœ² ʔjuᶞ tin¹ ḏœ³⁴ ‘drop at the foot of the hill’

(121’) *ʔjuᶞ tin¹ ḏœ³⁴ tœ² ‘drop at the foot of the hill’

When locative expressions occur in the slots of a subject, or of an object of a transitive verb, ʔjuᶞ is not used.

(122) d̥avun¹ ḏa:w¹ mi¹ hau² la:i¹ pjak².

inside garden plant have many vegetable
‘There are a lot of vegetables in the garden.’

(123) mœ⁶ taw¹ lok⁵ la:n⁴ ku¹ jieu² d̥avun¹ la:n⁴

2sg guard outside house, 1sg search inside house
‘You guard outside the house, and I’ll search inside.’
9.5.1.3.2. Directional phrases with pai¹ and ma¹

Directional phrases in Zhuang proto-typically involve the use of the directional verbs *pai¹* ‘go’ and *ma¹* (OR: *tau³*) ‘come’, which function like co-verbs. Like locative phrases, directional phrases can occur both pre-verbally and post-verbally.

(125) *tsəŋ³ te¹ pai¹ na⁴ ñuu⁴ hau⁶.*
3pl go field harvest crops
‘They went to the field and harvested crops.’
‘They went to the field to harvest crops.’

(126) *tu⁴ kai² me⁵ ni⁶ on⁴ on⁴ tau³ la:n⁴ la¹ kum¹.*
CL hen this day day come house look for eat
‘This hen comes into the house to look for food every day.’

In post-verbal usage, the directional phrase has selectional restrictions. It can occur with verbs that involve destination. The choice of *pai¹* and *ma¹* depends on whether the arrival point is towards or away from the speaker.

(127) *va:i⁴ ciəŋ³ pai¹ pa² le.*
buffalo release go pasture PART
‘The buffalos were released to pasture land.’

(128) *te¹ yən⁴ latt⁴ ta:u² pai¹/ma¹?*
3sg day which return go/come
‘What day will he return (away from speaker/towards speaker)?’

9.5.1.4. Manner and instrumental adjuncts

One of the most common ways in which manner and instrumental adjuncts are introduced in Zhuang is through the use of the construction ‘Verb + ?au¹’, roughly translated as ‘do sth. by way of V-ing’.

(129) *no²kai² ni⁶ tum² ?uu¹ ?di¹ kum¹, ca:u³ ?uu¹*
meatchicken this boil SUFF. good eat, fry SUFF.
?am⁶ ?di¹ kum¹.
not good eat
‘This chicken tastes good if it is boiled, it doesn’t taste good if stir fried.’
In the above examples, ʔau¹ functions like a suffix or a clitic. This pattern is quite characteristic of Zhuang. ʔau¹ can also be used as a lexical verb meaning 'take, use', which can introduce the instrument with which an act is carried out.

(131) kɔ̀ ʔau¹ lo kɔ̀ tak² lam⁶.
elder brother take ladle scoop water
‘Elder brother scooped water with a ladle.’

Similar items with this function include tui² ‘hold, carry’, and joŋ⁵ ‘use’.

(132) ta:i² tui²/joŋ⁵ lap² tsaiŋ¹ pit².
grandma use coop hold duck
‘Grandma used the coop to hold ducks.’

(133) ʔa:u¹ tui² ca: kɔ̀ la:m⁵ ma:⁶.
uncle take rope tie horse
‘Uncle tied the horse with a rope’.

9.5.1.5. ‘Missing’ arguments

It is a salient feature of Zhuang grammar that noun phrases do not need to be specified when they are understood from contexts. This is not unique to Zhuang. Many languages have this property. Utterances like the following are very common in Zhuang daily conversation.

(134) pai¹ ʔam⁶ pai⁰? — pai¹.
go not go go
‘Are (you/we) going?’—’Yes.’

In narrative discourse, the information chain characteristically requires only the actions to be specified. The following is an instruction on division of labour during a planting season:

(135) ʔən⁴ni⁶ tsa:ŋ¹hat² lwai² na⁴, ʔən⁴ pa:i⁵
today morning rake field, afternoon reinforce
va:i¹. ʔən⁴ ʃok⁵ har² lom⁵ lɔ̀² tsai³,
dam tomorrow morning-early pull rice seedling,
lieu⁶ ci¹ ʔam¹ na⁴, ʔu:⁴ li:⁵ ʔie⁵
finish then plant field, eat lunch finish
tha⁵ m̥u³, ʔən⁴ tui² tsa:ŋ¹ hat² kih⁵ tua⁵,
carry manure day after tomorrow morning harvest bean
afternoon repair ditch

‘(We’ll) rake the field in the morning today. In the afternoon, (we’ll) reinforce the dam. Tomorrow morning (we’ll) pull the rice seedlings. Then (we’ll) plant the field. After lunch (we’ll) deliver manure to the field. The day after tomorrow, (we’ll) harvest beans in the morning. In the afternoon, (we’ll) repair the ditch.’

This is true also of proverbs or other similar construction types, where impersonal pronouns are involved, which do not need to be specified.

(136) kuak⁵ na⁴ ŭau⁵ la:u¹ la:i¹, kuak⁵ va:i¹ ŭau⁵
Make field not worry many make dam not

la:u¹ lai⁴
worry long

‘When (one) opens new fields, (one) doesn’t need to be worried about the quantity being too large; when (one) makes dams, (one) doesn’t need to be concerned about them being too long.’ (proverb)

A number of complement taking verbs in Zhuang display ‘pro-drop’ properties. In languages like English, such pronouns need to be supplied.

(137) Łak⁴ ha:k⁵ ni⁶ ŭde⁵ lwa² leu.
Child school this know wrong PART
‘The student knows that (s/he) is wrong.’

(138) nuag⁶ ŭdiep⁵ nau⁴ jγa:k⁵ pai¹ to:k⁵ nau⁴ su¹ tem¹
y._sibling think say want go read some book more
‘Younger sister/brother thought (s/he) would want to go to do some more studies.’

(139) te¹ lum³ pu⁶ lau² nau⁴ mi⁴ ma⁴ ŭu⁵ ŭdat¹ ho⁴.
3sg like who say have sth. at inside throat
‘S/he looks as if (s/he) has something in her/his mind.’

9.5.2. Modality: irrealis and epistemic

As mentioned in §9.3.7.1, a closed class of modal-auxiliaries in Zhuang express irrealis and epistemic meanings. Modal-auxiliaries in Zhuang display a number of syntactic properties found in their counterparts in other languages. They retain some characteristic of verbs.

9.5.2.1. Irrealis jγa:k⁵

When used with non-volitional subject, this item characteristically marks future meaning.

(140) hau⁶ jγa:k⁵ lieu⁶ lo.
Rice IRR finished PART
‘Rice is running out.’
The harvest of this field is about to accomplish.

In sentences like (140) and (141) cancels the truth conditions of the event described by the verb phrase. Without the use of \( \text{ja:k}^5 \), (140) and (141) mean ‘rice has run out’ and ‘the harvest has been accomplished’ respectively.

With volitional subject, \( \text{ja:k}^5 \) expresses the intention of the subject in question.

Not only can \( \text{ja:k}^5 \) modify main verbs, it can also take other modal-auxiliaries that express irrealis, e.g.:

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They may also be expressed through the construction ‘Clause + na\( \sim \) pan\( \sim \)’.

The concepts of ‘must’, ‘should’ and ‘have to’ in Zhuang can be expressed through double negative constructions like ‘\( \text{bau}^5 + \text{Verb} + \text{bau}^5 \text{pan}^4 \)’, or ‘\( \text{bau}^5 + \text{dai}^6 + \text{bau}^3 + \text{Verb} \)’. They may also be expressed through the construction ‘Clause + na\( \sim \) pan\( \sim \)’.
9.5.2.3. Compound verbs with nau⁴ ‘to say’

A set of compound verbs in Zhuang take the verb nau⁴ ‘to say’ as head. These describe certain psychological state or activities that are associated with a range of modal meanings such as counter-factual, supposition, assumption and so on. Examples:

(148) **ku¹ lwa² nau⁴ mwaŋ⁴ ?am⁶ lo⁶.**
1sg thought 2sg not know
‘I thought you didn’t know (but I was mistaken).’ (counterfactual)

(149) **ku¹ ñbau³ ñiⁿ nau⁴ te¹ pan⁴ hun⁴ taj⁷ ni⁶.**
1sg not doubt 3sg become person kind this
‘I didn’t realize that s/he should have become a person like this.’ (contrary to what was expected)

(150) **te¹ ñi⁴ nau⁴ tsaj⁷ te¹ nau⁴ hau³ ku¹ lo⁶ ñde⁵ le.**
3sg suspect 3pl tell give 1sg know PART
‘S/he thought/suspected that they had already told me.’ (supposition)

(151) **te¹ lum³ pu⁶ nau⁴ ñaj⁴ lo⁶ ñde⁵ le.**
3sg seem/look as if already know PART
‘It seems that he already knew about it.’ (supposition)

Other verbs in this category include **la:u¹ hi² nau⁴ ‘fear (that)…’, lo⁶ ñie¹ nau⁴ ‘hear say (that)…’, ñdiep⁵ nau⁴ ‘(I/she/he/we…) was thinking that…’, pa:k² nau⁴ ‘verbally say that...(but think or do otherwise)…’, ñi⁵ tsie⁴ nau⁴ ‘hope/wish that…, desire that…’, among others.

(152) **te¹ la:u¹ hi² nau⁴ mwaŋ⁴ lum⁴, vi⁵ nau⁴ hau³ ku¹ tau³ heu³.**
3sg fear 2sg forget therefore let 1sg come call
‘Fearing that you might forget, s/he asked me to come and call you.’

(153) **ku¹ lo⁶ ñie¹ nau⁴ la:n¹ te¹ kwə¹ lau³ ñə⁴ lauw⁴.**
1sg hear say grandchild 3sg get married yesterday
‘I was told that his/her grandson/granddaughter got married yesterday.’

(154) **te¹ pa:k² nau⁴ tau³ pa:ʃj₁, ñdau¹ ho⁴ ñbau⁵ ñien⁵ pa:ʃj.**
1sg mouth say come help inside throat not willing help
‘S/he said s/he would like to come and help but in fact s/he was unwilling to.’

(155) **pa³ ñi⁵ tsie⁴ nau⁴ hau³ mwaŋ⁴ pai¹ jie² te¹.**
aunt crave say let 2sg go see 3sg
‘Aunty would very much hope that you go and visit her.’
9.5.2.4. Scope of negation with modal-auxiliaries

The scope of negation with modal-auxiliaries in Zhuang is determined by the position of the negator. If the negator occurs before the auxiliary, it has scope over the entire verb phrase. If the negator follows the auxiliary, only the clause outside the auxiliary is affected.

(156)  

\[
\text{they call} 3\text{sg go, 3sg not dare go} \\
\text{‘If you tell him to go, he doesn’t dare to go (i.e. he is scared to).’}
\]

(157)  

\[
\text{you say 3sg go 3sg dare not go} \\
\text{‘If you tell him to go, how dare he not go? (i.e. he has to go).’}
\]

Note that unlike other modal auxiliaries, the irrealis marker \( \text{ja:k}^5 \) does not allow a negator to occur before it. It can only take a negator after it.

(158)  

\[
\text{IRR go not good IRR NOT go also NOT good} \\
\text{‘It is not good planning to go; it is equally no good not to go.’}
\]

9.5.2.5. Auxiliaries in serial verb constructions

While auxiliaries typically occur before a verb phrase, they can also occur in the middle of a clause that involves serial verb constructions.

(159)  

\[
\text{1sg have bit thing one IRR request 2sg help} \\
\text{‘I have something on which I would like to seek your help.’}
\]

In such cases, the scope of modification is for the events or situations expressed by the verbs that come after the auxiliary, not the entire serial verb constructions.

9.5.3. Interrogative sentences

Interrogative sentences in Zhuang can be divided into yes-no questions, alternative questions and substantive questions, as illustrated below.

9.5.3.1. Yes-no questions

Yes-no questions in Zhuang take the form of ‘A-not-A’ or ‘A-not’, like Mandarin Chinese. A positive answer is given by repeating the verb. A negative answer is provided by repeating the negator.

(160)  

\[
2\text{sg do NOT do – do} \\
\text{‘Are you going to do it?’ – ‘Yes, I am.’}
\]

(161)  

\[
\text{Aunt eat lunch NOTYET not yet} \\
\text{‘Have you eaten your lunch yet, aunty?’ – ‘No, not yet.’}
\]
Alternatively, yes-no questions can also be formed by adding a question marker \( mi^2 le^4 \) (short form: \( mi^2 \) or \( mia^2 \)) at the end of a sentence:

(162) \[ te^1 \tauau^3 \, mi^2? \, - \tauau^3. \]
1sg come PART come
‘Will he be coming?’ – ‘Yes, he will.’

(163) \[ muu^4 \, lo^6 na^3 \, te^1 \, mi^2 le^4? \, - \, lo^6 na^3 \]
2sg know 3sg PART know
‘Do you know him/her?’ – ‘Yes, I do.’

9.5.3.2. Alternative questions

Alternative questions are formed by putting the conjunction \( lo^6 nau^4 \) ‘or’ in between the two clauses or phrases in question.

(164) \[ lau^4 \, pai^1 \, lo^6 nau^4 \, pa^4 \, te^1 \, tau^3? \]
1pl know OR 3pl come
‘Are we going or are they coming?’

(165) \[ muu^4 \, \tauau^1 \, ka:i^2 \, ni^6 \, lo^6 nau^4 \, (\tauau^1) \, ka:i^2 \, te^1? \]
2sg take CL this OR take CL that
‘Do you take this one or that one?’

(166) \[ \thetah^1 \, pai^1 \, lo^6 nau^4 \, \taubau^3 \, pai^1? \]
2pl go OR NOT go
‘Are you going or not?’

9.5.3.3. Substantive questions

Substantive questions are formed by using interrogative pronouns or adverbs ‘who, what, when, which/what…, how, why/how come…’.

(167) \[ pu^6 \, lau^4 \, nau^4 \, hau^3 \, muu^4? \]
who tell give 2sg
‘Who told you (that)?’

(168) \[ pu^6 \, te^1 \, \, pu^6 \, lau^4? \]
CL that who
‘Who is that person?’

(169) \[ muu^4 \, \eta:n^4 \, la:n^4 \, \tauu^5 \, la:n^4 \, kuak^5 \, ma^4? \]
2sg yesterday stay home do what
‘What were you doing at home yesterday?’
(170)  te³  mwa⁵ laa⁴  ta:u²  tau³?
3sg  when  return  come
‘When did he/she come back?’ OR ‘When is he/she coming back?’

(171)  luɡ⁴  ham⁵  lau⁴  kuak⁵  laa⁴  ɪbɑu⁵  tau³?
uncle  last night  why  not  come
‘Why didn’t uncle come last night?’

(172)  ve⁵  tɑj⁴  laa⁴  te¹  ṭam⁶  pai¹  le?
For  what  3sg  not  go  PART
‘Why didn’t s/he go?’

(173)  ku¹  kuak⁵  tɑj⁴  laa⁴  ham²  te¹  le?
1sg  how  ask  3sg  PART
‘How shall/should I ask him/her?’

Questions may occur in indirect speech, where more than one element can be asked.

(174)  ta¹  pa⁵  tsie⁴  lo⁶  pu⁴  lau⁴  vɪ⁴  tɑj⁴  laa⁴  ɪbɑu⁵  tau³
grandpa  like  know  who  forwhat  not  come
‘Grandpa wanted to know who didn’t come and why.’

9.5.3.4. Negative questions/rhetorical questions

Negative questions or rhetorical questions in Zhuang do not seek any information. They are discourse-oriented, expressing the speaker’s intense feeling or expectation in seeking agreement or confirmation from the listener.

(175)  te¹  mwa⁴  to³  ɪbɑu⁵  lo⁶  na³?
3sg  2sg  PART  NOT  know
‘Don’t you even know him?’

(176)  mwa⁴  kuak⁵  lau⁴  ɪbɑu⁵  pai¹  ham²  te¹
2sg  why  NOT  go  ask  3sg
‘Why don’t you go and ask him?’

(177)  ku¹  to³  ɪbɑu⁵  ho⁴  hta³,  mwa⁴  ɲen²  kuak⁵  ma⁴  le?
1sg  even  NOT  angry  2sg  moody  forwhat  PART
‘I am not even angry. Why should you be in a bad mood, then?’

9.5.4. Comparative sentences

Comparisons in Zhuang are formed with comparative markers. The three degrees of universal comparison are present in Zhuang: similarity, comparative, and superlative.
9.5.4.1. Similarity

The generic comparison marker for similarity is \textit{lum}^3, which is derived from the lexical verb ‘resemble, to be like’.

\begin{align*}
\text{(178)} & \quad \text{te}^1 \ \text{\textipa{\textit{\texttheta}a:\textit{\texteta}}} \ \text{\textit{lum}}^3 \ \text{po}^5. \\
& \quad 3\text{sg tall LIKE father} \\
& \quad \text{‘He/she is as tall as his/her father’}. \\
\end{align*}

Sentences like (178) can be said in a different way as (179):

\begin{align*}
\text{(179)} & \quad \text{te}^1 \ \text{\textipa{\textit{\texttheta}a:\textit{\texteta}}} \ \text{\textit{di}^6} \ \text{po}^6 \ \text{tu}^f \ \text{\textit{lum}}^3. \\
& \quad 3\text{sg tall with father reciprocal resemble} \\
& \quad \text{(same as above)} \\
\end{align*}

To make sentences like (178) into a negative, the construction is: ‘Noun 1 + \textit{bau}^5/\textit{am}^6 + adjective + \textit{ka:u}^5 + Noun 2’.

\begin{align*}
\text{(178') } & \quad \text{te}^1 \ \text{\textipa{\textit{\texttheta}a:\textit{\texteta}}} \ \text{\textit{bau}^5/\textit{am}^6} \ \text{\textipa{\textit{\texttheta}a:\textit{\texteta}}} \ \text{\textit{ka:u}^5} \ \text{po}^5. \\
& \quad 3\text{sg NOT tall AS father} \\
& \quad \text{‘He/she is not as tall as his/her father’}. \\
\end{align*}

9.5.4.2. Comparative

The comparative degree is formed by \textit{kwa}^2 (from the lexical verb ‘pass’) or \textit{t}^6 (from the lexical verb ‘more’).

\begin{align*}
\text{(180)} & \quad \text{te}^1 \ \text{\textipa{\textit{\texttheta}a:\textit{\texteta}}} \ \text{\textit{kwa}^2/\textit{t}^6} \ \text{po}^5. \\
& \quad 3\text{sg tall COMP father} \\
& \quad \text{‘He/she is taller than his/her father’}. \\
\end{align*}

\begin{align*}
\text{(181)} & \quad \text{pi}^1 \ \text{\textit{ni}^6} \ \text{\textit{\texteta}a:\textit{\texteta}} \ \text{\textit{t}^6} \ \text{\textit{pi}^1} \ \text{\textit{kwa}^2}. \\
& \quad \text{This year hot COMP last year} \\
& \quad \text{‘This year is hotter than last father.’} \\
\end{align*}

\begin{align*}
\text{(182)} & \quad \text{tsi}^3 \ \text{\textit{\texteta}n^l} \ \text{\textit{ni}^6} \ \text{\textit{\texteta}n^l} \ \text{\textit{la}u^4} \ \text{\textit{\texteta}di^l} \ \text{\textit{t}^6}? \\
& \quad \text{Several CL this CL which good COMP} \\
& \quad \text{‘Of these, which is one is better?’} \\
\end{align*}

In some dialects, the comparative marker \textit{la:i}^l ‘more’ is used before the verb or adjective in question.

\begin{align*}
\text{(183)} & \quad \text{\textit{\texteta}a:\textit{\texteta}} \ \text{\textit{ni}^6} \ \text{\textit{la}i^l} \ \text{\textit{kwa}^6}. \\
& \quad \text{CL boy this COMP. smart} \\
& \quad \text{‘This boy is smarter.’} \\
\end{align*}
9.5.4.3. Superlative

There are several ways in which the superlative degree can be expressed in Zhuang. The concept ‘he is the tallest in his family’ can be said in the following ways:

(184) \[ \text{la:n}^{4} \text{ te}^{l} \text{ te}^{l} \text{ \( \alpha \text{-ng} \text{j} \text{ t}^{l} \text{ pu}^{6} \text{ \(\text{\text{-}w}^{4} \text{j} \text{.} \right.} \]

family 3sg 3sg tall COMP CL other

‘He/she is taller than anyone else in his/her family.’

(185) \[ \text{la:n}^{4} \text{ te}^{l} \text{ te}^{l} \text{ \( \alpha \text{-ng} \text{j} \text{ ta:i}^{5} \text{ \(\text{\text{-}r}^{3} \text{.} \right.} \]

family 3sg 3sg tall the first

‘He/she is the tallest in his/her family (lit. he/she is the number one in body height.’

(186) \[ \text{la:n}^{4} \text{ te}^{l} \text{ te}^{l} \text{ \( \alpha \text{-ng} \text{j} \text{ \(\text{\text{-}wai}^{3} \text{ \(\text{\text{-}ng} \text{j} \text{.} \right.} \]

family 3sg 3sg SUP tall

(as above)

The superlative marker \( \alpha \text{-wai}^{3} \text{ in (186) appears to be a recent loan from Chinese.

9.5.5. Existential sentences and copula sentences

Zhuang has a number of devices for making existential assertion and statements that would require a copula sentence to express in English. Some of these constructions have typological implications while others appear to be characteristic of Zhuang.

9.5.5.1. The \text{mi}^{4} ‘there + be’ constructions

Sentences with \text{mi}^{4}. Existential assertion can be made in Zhuang using the generic existential verb \text{mi}^{4} ‘to have, to exist’. \text{mi}^{4} displays a number of syntactic properties which deserve attention. It can be used as a main verb taking a subject and an object. It can introduce an indefinite NP, and it can occur after another verb, indicating a situation expressed by the verb in which the entity indicated by the NP is in.

When used as a main verb, \text{mi}^{4} takes an object which denotes an entity that exists or is located in a place expressed by the subject NP, very much like the English ‘There + Be’ construction.

(187) \[ \text{\(\text{\text{-}da}^{4} \text{ ta}^{5} \text{ ni}^{6} \text{ mi}^{4} \text{ pja}^{1} \text{ la:i}^{l} \text{.} \right.} \]

inside river this have fish many

‘There’s a lot of fish in this river.’

(188) \[ \text{la:n}^{4} \text{ li}^{6} \text{ mi}^{4} \text{ ka:u}^{5} \text{ la}^{4} \text{ hau}^{6} \text{?} \]

house still have how much rice

‘How much rice do we still have in our house?’

An important function of \text{mi}^{4} is to introduce an indefinite NP.

(189) \[ \text{mi}^{4} \text{ pu}^{6} \text{ hek}^{2} \text{ tau}^{3} \text{ la:n}^{4} \text{.} \]

have guest come house

‘We have visitors to our house.’
The Zhuang language has a rich system of copula verbs, similar to English "be." In Zhuang, one of the most commonly used copula verbs is `tak4` which can mean "to be." This verb can be used in a variety of ways to express the concept of being or existence.

For example, in the sentence `te1 tak4 la:u5 la:1 la4 pu2 leu.` (grandchild 3sg achieve two anniversary PART), Zhuang expresses that a grandchild is two years old now.

Another example is `heu5 kuo5 kuak5 kuak5 co5 ma4?` (Boy that call do name what), which translates to "What’s that boy’s name?"

Zhuang also has verb compounds that can express the concept of being, such as `mi4 ha:u2 la:1 hun4 tak2 pjai1` (have many people stay river hunt for fish), which means "There are a lot of people fishing in the river."

Verb compounds in Zhuang can be more characteristic, for instance, `la3 la4 mi4 mu1.` (below animal pen raise have pig) which means "Raised in the pen are some pigs."

There are also examples of verb compounds that express possession, such as `da1 17 an1 12 dam1 mi4 pja1.` (inside garden plant have vegetable) which means "Planted in the garden are some vegetables."

These examples show how Zhuang uses its copula verbs and verb compounds to express concepts of being, existence, and possession in a unique and rich way, similar to how English expresses these concepts.

9.5.5.2. Sentences with `tak4` and other copula verbs

What is usually expressed in English with the copula ‘be’ can be said in various ways in Zhuang. Apart from the generic copula verb `tak4` ‘be’, a number of copula verbs are available in Zhuang with similar syntactic functions and semantic content.

For example, in `te1 tak4 la:u6 la:1 la4 mu1.` (3sg BE teacher), Zhuang expresses that someone is a teacher.

In `la:n1 te1 dai6 ho2 leu.` (grandchild 3sg achieve two anniversary PART), Zhuang expresses that a grandchild is two years old now.

In `ba:u5 heu5 kuak5 ma4?` (Boy that call do name what), Zhuang expresses a question about someone’s name.

In `tho:u7 pu6 te1 pan4 tsau3 ja4.` (two CL that BE husband-wife), Zhuang expresses that a couple is husband and wife.

In `hau6 va:n4 hau6, pja1 va:n4 pja1.` (rice BE rice vegetable BE vegetable), Zhuang expresses that rice is rice; vegetable is vegetable. (They should be kept apart.)

These examples illustrate the diversity and richness of the copula verb system in Zhuang, which can be used to express a wide range of meanings related to being and possession.
9.5.5.3. Nominal predicates

Copula sentences in Zhuang very often take the form of nominal predicates, that is, the predicate is made up of only a noun phrase, without a verb.

(199)  
\[ \text{ta:i}^2 \text{ pi}^1 \text{ mo}^2 \text{ pet}^2 \text{ eip}^4 \]  
\[ \text{grandma next year eighty} \]  
\[ \text{‘Grandma will be eighty next year.’} \]

(200)  
\[ \text{γm}^4 \text{ źok}^5 \text{ γm}^4 \text{ hu}^4 \]  
\[ \text{tomorrow day market} \]  
\[ \text{‘Tomorrow is market day.’} \]

(201)  
\[ \text{tua}^4 \text{ mu}^1 \text{ ni}^6 \thetaωj^2 \text{ pa:k}^2 \text{ kan}^1 \]  
\[ \text{CL pig this two hundred MEASURE-WEIGHT} \]  
\[ \text{‘This pig weighs two hundred kan (= a hundred kilograms).’ (1 kan'}^1 = 500g) \]

(202)  
\[ \text{pau}^2 \text{ mo}^1 \text{ hun}^4 \text{ pu}^6 \text{ nγj}^4 \]  
\[ \text{CL shaman person CL Nung} \]  
\[ \text{‘The shaman is a Nung speaker.’} \]

(203)  
\[ \text{ka:i}^2 \text{ ni}^6 \text{ ka:i}^2 \text{ ku}', \text{ ka:i}^2 \text{ te}^1 \text{ ka:i}^2 \text{ mωj}^4 \]  
\[ \text{CL this CL 1sg CL that CL 2sg} \]  
\[ \text{‘This one is mine/belongs to me, and that one is yours/belongs to you.’} \]

(204)  
\[ \text{te}^1 \text{ (pan}^4\text{) na}^3 \text{ na}^6, \text{ mωj}^4 \text{ (pan}^4\text{) na}^3 \text{ la:n}^1 \]  
\[ \text{3sg be face uncle/aunt 2sg be face niece/nephew} \]  
\[ \text{‘(In the family linear order), he/she is your uncle/aunt, and you are his/her niece/nephew.’} \]

As (204) has shown, a copula verb can often be supplied for sentences of this kind.

9.5.6. Passive and pseudo-passive

Passive in Zhuang is formed with \text{tuk}^4 and \text{ga:i}^6, the former being a native word, the latter appearing to be a Chinese loan.

(205)  
\[ \text{tuk}^4 \text{ ni}^6 \text{ tuk}^4 \text{ ca:j}^4 \text{ la:i}^1. \]  
\[ \text{child this PASS hate much} \]  
\[ \text{‘This child is most hated.’} \]

(206)  
\[ \text{te}^1 \text{ mωj}^5 \text{ cai}^6 \text{ ca:j}^6 \text{ cau}^4 \text{ tuk}^4 \text{ \text{?da}}^3 \]  
\[ \text{3sg when young often PASS scold} \]  
\[ \text{‘He/she was often scolded when young.’} \]

(207)  
\[ \text{te}^1 \text{ γm}^4 \text{ lan}^4 \text{ ga:i}^6 \text{ mωj}^4 \text{ hap}^4 \]  
\[ \text{3sg yesterday PASS snake bite} \]  
\[ \text{‘He/she was bitten by a snake yesterday.’} \]
In Wuming and some other dialects, teŋ is used alongside with tsuk⁴, with similar function. Like many other languages in the region, the Zhuang passive often carries ‘aversive’ meaning, an areal feature which is shared by languages like Mandarin. In Zhuang this feature was probably inherent in the meaning of lexical verbs, ‘to undergo, to suffer, to endure’, as reflected in some lexical compounds: tsuk⁴ liaŋ ‘suffer from a cold’, tsuk⁴ leŋ ‘tiring (lit. ‘endure strength/effort’).

When no ‘aversive’ meaning is involved, ‘pragmatic passive’ or what might be called ‘pseudo passive’ is used, depending on how ‘passive’ is defined. In examples (208) and (209), the subject of the sentence is the patient of the predicate verb, which is characteristic of a passive construction.

(208) pjiaŋ⁴ ʔdam⁴ le.
    vegetable plant PART
‘The vegetables were planted.’

(209) kai² ʔka³ leu.
    chicken kill PART
‘The chicken was killed.’

The auxiliary ʔdai⁶ may also be used as a passive marker, with non-aversive meaning.

(210) te³ ʔdai⁶ ha₃ kuak⁵ pau² mo₁ ta₄:u² poi⁴.
    3sg PASS allow do shaman as before
‘He was allowed to practice shamanism as before.’

9.5.7. Tense and aspect
Zhuang has no markers of tense. However, it has a number of aspect markers. These include ʔja:k⁵ — futurity/irrealis (see also §9.5.2.1 above); ciŋ⁴, tsuk⁴ — progressive/durative; liu⁶, ʔte⁴, paŋ⁴, pai¹ — completive/perfective; paŋ⁴ — accomplishment; and kwə’, va:i³ — experiential. All are post-verbal aspect markers with the exception of ʔja:k⁵ and ciŋ⁴. As will be seen below, the aspectual system of Zhuang is quite sensitive to quantification and other semantic considerations.

9.5.7.1. Futurity / irrealis: ʔja:k⁵
This item is widely distributed across all the Zhuang dialects. Some examples have already been given in §9.5.2.1.

(211) jieŋ⁴ jieŋ⁴ ʔja:k⁵ tsuk⁴ hun⁴.
    look manner FUT drop rain
‘It looks as if it is going to rain.’

9.5.7.2. Progressive/durative/continuative: ciŋ⁴ and tsuk⁴
These two markers have different syntactic properties. ciŋ⁴ is a preverbal aspectual marker, while tsuk⁴ is a postverbal marker, which is mainly used in Wuming and surrounding regions. Both can be used as lexical verbs, ciŋ⁴ meaning ‘straight (not off the mark)’ and tsuk⁴, ‘to fetch, to do V-ing’.
(212)  \(\text{pai}^1 \text{ nan}^4 \text{ nai}^5 \),  \(\text{hun}^4 \text{ la}^1 \text{ ci}^2 \text{ ca}^3 \text{ m}^\text{tai}^4\).
goose quick a bit everybody PROG wait 2sg

‘Hurry up. Everybody is waiting for you.’

(213)  \(\text{tu}^2 \text{ ku}^4 \text{ kaut}^1 \text{ ni}^6 \text{ tai}^3 \text{ tu}^2 \text{ ta}^1 \text{ n}^\text{xin}^4\)

girl this cry PROG all day

‘The girl kept crying for a whole day.’

(214)  \(\text{ta}^6 \text{ po}^5 \text{ da}^1 \text{ Mu}^5 \text{ k}^\text{m}^\text{na}^4 \text{ na}^5 \text{ t}^\text{k}^\text{a}^4 \text{ ta}^3 \text{ au}^6\).
father and grandpa stay up veranda sit PROG talk

‘(While) sitting on the veranda, father talked with grandpa.’

9.5.7.3. **Complettive/accomplishment lieu\(^6\), jie\(^5\), pan\(^4\), pai\(^1\)**

These items are put together as a class because of their similar function. However, each of these has preference over a particular type of verbs. **lieu\(^6\)** typically goes with consumption verbs.

(215)  \(\text{gan}^4 \text{ j}^\text{y}^5 \text{ lieu}^6 \text{ le}\).

money use ASP PART

‘Money has been used up.’

Without **lieu\(^6\)**, (215) would have different readings, as (215’).

(215’) \(\text{gan}^4 \text{ j}^\text{y}^5 \text{ le}\).

‘Money is being used.’

‘Money has been used.’

With verbs of change, the use of **lieu\(^6\)** describes a quantified event, and requires a plural subject.

(216)  \(\text{ha}^3 \text{ tua}^4 \text{ kai}^2 \text{ ta}^1 \text{ lieu}^6\).
five CL chicken die ASP

‘Five chickens (have) all died.’

Even if the subject is not quantified, plurality is still implied.

(217)  \(\text{kai}^2 \text{ ta}^1 \text{ lieu}^6 \text{ le}\).

chicken die ASP PART

‘All chickens (have) died.’

If the above two conditions are violated, the use of **lieu\(^6\)** will be ruled out.
Like \textit{lieu}"\textsubscript{a}, \textit{pai}" also marks a quantified event. It typically occurs with verbs of disappearance.

(219) \textit{ka:li} \textit{pai} \textit{\thetaoij} \textit{tua}"\textsubscript{a} \textit{mu}" \textit{le}  

\begin{verbatim}
 sell ASP  two  CL  pig  PART  
\end{verbatim}

‘Two pigs have been sold.’

Note that in sentences like (219), only indefinite and quantified NPs can occur in that position. Definite NPs with sentences of this kind must occur in subject position. (219a) and (219b) are both unacceptable they violate these conditions:

(219a) \textit{*ka:li} \textit{pai} \textit{\thetaoij} \textit{tua}"\textsubscript{a} \textit{mu}" \textit{te}" \textit{le}  

\begin{verbatim}
 sell ASP  two  CL  pig  that  PART  
\end{verbatim}

‘Those two pigs have been sold.’

(219b) \textit{*ka:li} \textit{pai} \textit{mu}" \textit{le}  

\begin{verbatim}
 sell ASP  pig  PART  
\end{verbatim}

‘Pigs have been sold.’

(219a,b) will be acceptable if the NP occurs in subject position, as in (219c):

(219c) \textit{\thetaoij} \textit{tua}"\textsubscript{a} \textit{mu}" \textit{(te')} \textit{ka:li} \textit{pai}" \textit{le}  

\begin{verbatim}
 two  CL  pig  that  sell  ASP  PART  
\end{verbatim}

‘(Those two) pigs have been sold.’

\textit{pan}"\textsubscript{a} goes with achievement verbs.

(220) \textit{pjia}"\textsubscript{a} \textit{kuak}"\textsubscript{a} \textit{pan}"\textsubscript{a} \textit{cay}"\textsubscript{a}  

\begin{verbatim}
 vegetable  do  ASP  not  yet  
\end{verbatim}

‘Has the vegetable been cooked (ready) yet?’

Without the use of \textit{pan}"\textsubscript{a}, (220) will have two readings: ‘Is the vegetable/dish being cooked?’ or ‘Has the vegetable/dish been cooked?’ No meaning of achievement is implied.

\textit{\textsc{jie}}"\textsubscript{a} does not express the type of aspectual meaning as \textit{lieu}"\textsubscript{a} and \textit{pan}"\textsubscript{a}. It simply means that an action or event was brought to an end at the time of speech event. Very often another event is expected to follow. Thus \textit{\textsc{jie}}"\textsubscript{a} typically functions as event punctuator.
After we have had our lunch, we’ll go and reinforce the dam.’

9.5.7.4. Experiential: kwa^2, va:i^3

These two are used to mark what is generally known as the experiential aspect. Both are derived from their use as lexical verbs meaning ‘pass’, which is quite iconic.

I’ve been to Nanning before.’

With change-of-state verbs, kwa^2 marks an unbounded event.

‘S/he broke her/his leg before.’

(223) does not mean that the person’s leg was still in a state of being broken at the time of speech event. The sentence simply means that some sort of effect is being felt as a result of the event in question. Similarly, sentences like (224) doesn’t imply a natural consequence of the event. In other words, it does not mean that the speaker is still in debt. Rather, some pragmatic meaning is conveyed.

‘S/he once lent us money before.’ (We know her/his personality).

va:i^3 is not so widely distributed as kwa^2. It mainly occurs in the Zhuang dialects in the northwest.

This place has been frequented before.’

9.6. COMPLEX CONSTRUCTIONS

Complex constructions in Zhuang are divided into two types: subordinate constructions and co-ordinate constructions.

9.6.1. Subordinate constructions

Subordinate constructions in Zhuang include relative clauses, conditionals, concessions, cause-effect, resultative/change of state, and so on.
9.6.1.1. Relative clauses

Relative clauses in Zhuang are introduced by a classifier and a deictic word te₁, which is also used as a third personal singular pronoun. The classifier and the deictic word together function like relative clause markers.

(226) \[ pu^6 \, ku^2 \, pan^3 \, lau^4 \, cuang^1 \, te^1 \, ceu^3 \, tuuk^4 \, pu^6 \]
\[ \text{CL} \, \text{just now} \, 1pl \, \text{meet} \, \textbf{that} \, \text{just} \, \text{BE} \, \text{CL} \]
\[ \etaon^4 \, lutan^4 \, ku^l \, \ddi^6 \, mtn^4 \, tuan^l \, te^1 \]
\[ \text{yesterday} \, 1sg \, \text{with} \, 2sg \, \text{mention} \, \text{that} \]

‘The person we met a while ago is just the person I mentioned to you yesterday.’

(227) \[ tua^4 \, lau^d \, tuuk^4 \, tua^4 \, pi^2 \, \etaon^4 \, lutan^4 \, lau^4 \]
\[ \text{CL} \, \text{which} \, \text{BE} \, \text{CL} \, \text{escape} \, \text{yesterday} \, 1pl \]
\[ \ddja:k^5 \, tua^4 \, pa^l \, ka:i^l \, \etaon^4 \, n^i^6 \, te^1 \]
\[ \text{want} \, \text{carry} \, \text{go} \, \text{sell} \, \text{today} \, \text{that} \]

‘Which (pig) is the one that escaped yesterday and which we want to sell today?’

Nested relative clauses are possible, as (227) shows. In nested relative clauses, only one relative marker is used, unlike English.

(228) \[ ku^l \, ga^4tsie^4 \, pai^l \, jieu^2 \, \textbf{pu}^6 \, pau^2mo^2 \, mtn^4 \]
\[ 1sg \, \text{wish} \, \text{go} \, \text{see} \, \text{CL} \, \text{doctor} \, 2sg \]
\[ lutan^4 \, \etaon^4kon^2 \, tsiu^2 \, tuuk^4 \ddba:u^5 \, ja:k^5 \, tau^3 \, ham^2 \]
\[ \text{mention} \, \text{daybefore} \, \text{save} \, \text{boy} \, \text{want} \, \text{com} \, \text{propose} \]
\[ la:n^1 \, lau^d \, te^l \]
\[ \text{niece} \, 1pl \, \textbf{that} \]

‘I might as well want to see the doctor whom you mentioned to me the other day and who saved the boy who was proposing for the hand of our niece.’

9.6.1.2. Conditionals

Conditionals in Zhuang are introduced by ta:gy₅ nau₄...ạ...‘if...then...’, ... na₅ ‘(only by...)...then...’, ϱbau₅ lutm₅ nau₄...tu₄...‘no matter...’. The order of the clauses cannot be reversed.

(229) \[ ta:gy₅ \, nau₄ \, \etaon^4 \, co^6 \, \ddtum^l \, lef^6, \, lau^d \, \ddi^4 \, kwa^6 \, tua^6 \]
\[ \text{if} \, \text{tomorrow} \, \text{sky} \, \text{sunny} \, 1pl \, \text{then} \, \text{weed} \, \text{bean} \]

‘If the weather is fine tomorrow, we will weed the bean field.’
(230) \( \text{kan}^6 \text{ co}^3 \text{ pum}^5, \text{ pjak}^2 \text{ na}^j \text{ ma}^3 \)
diligent put fertiliser vegetable then grow

‘Only by applying fertiliser more often will the vegetables grow.’

(231) \( \text{bau}^5 \text{ tun}^5 \text{ nau}^4 \text{ ku}^l \text{ nau}^d \text{ ta}^j \text{ la}^u^l, \text{ te}^l \text{ tu}^3 \text{ bau}^5 \text{ ha:n}^l \)
no matter lsg say kind which 3sg CONJ not answer

‘No matter what I said, he just wouldn’t answer.’

Sometimes, no conditional marker is used. The conditional meaning is inferred from the contexts.

(232) \( \text{ mw}^f \text{ bau}^5 \text{ pai}^l \text{ heu}^s, \text{ ta}^l \text{ ci}^d \text{ bau}^5 \text{ tau}^3 \)
2sg not go call grandpa then not come

‘If you don’t go call grandpa, he won’t come.’

9.6.1.3. Concessions

Concession is expressed by \( \text{jien}^4 \text{ nau}^4 \ldots \) ‘although…’, \( \ldots \text{ ho}^j \) ‘but’, \( \text{ ha:n}^d \ldots \text{ ko}^3 \ldots \) ‘even though’. \( \text{ ho}^j \) and \( \text{ ha:n}^d \ldots \text{ ko}^3 \ldots \) are used mainly in Wuming and surrounding regions.

(233) \( \text{ ta}^l \text{ jien}^4 \text{ nau}^4 \text{ pi}^n \text{ nien}^4 \text{ tse}^2, \text{ kuak}^5 \text{ ho}^j \text{ li}^f \text{ han}^l \)
grandpa although age old do work still strong

‘Although he is already old, grandpa is still pretty strong at work.’

(234) \( \text{ te}^l \text{ mi}^4 \text{ y}^n^4 \text{ la:i}^l, \text{ ho}^j \text{ pai}^l \text{ hun}^d \text{ tse}^5. \)
3sg have money much but be person mean

‘He is very rich, but he is very mean.’

(235) \( \text{ ha:n}^4 \text{ nau}^f \text{ kuak}^5 \text{ tiu}^l, \text{ mw}^f \text{ ko}^3 \text{ bau}^5 \text{ ce}^3 \text{ ho}^d \text{ da:t}^5 \)
even y.sibling do not right 2sg CONJ no-need angry

‘Even if younger brother/sister was wrong, you shouldn’t flare up.’

9.6.1.4. Cause-effect

Cause-effect is expressed through \( \text{ vi}^5 \text{ nau}^4 \ldots \) ‘because…’, and \( \text{ ci}^5 \text{ nau}^4 \ldots \text{ ci}^4 \ldots \) ‘since… then…’
Because there was a bad draught, harvest was not good last year.

Since you are unwell, you might just as well stay at home for a rest.

He/she coughed so much that his/her throat became coarse.

The thunder roared so loud that the house trembled.

You, your brother, your sister-in-law and your nephew go to the market.

Elder brother and sister-in-law argued./E. brother argued with sister-in-law.

(iii) Juxtaposed references

Elder brother and sister-in-law argued./E. brother argued with sister-in-law.
(242) $\text{lau}^4 \text{ pey}^4 \text{ kum}^1 \text{ pey}^4 \text{ ta}^3 \text{ ca}^6$.

1pl as eat as talk

‘Let’s eat while we talk./Let’s eat and talk.’

(iii) Correlative

(243) $\text{lau}^3 \text{ ̄do}\text{y}^1 \text{ kum}^3 \text{ na:n}^4 \text{ kum}^3 \text{ hom}^1$

wine brew the more long time the more fragrant

‘Wines, the longer you brew them, the more flavour they have.’

(244) $\text{mu}^4 \text{ pai}^1 \text{ ku}^1 \text{ je}^5 \text{ pai}^1$

2sg go 1sg also go

‘You go, and I also go.’/ ‘If you go, I’ll go, too.’

(245) $\text{te}^1 \text{ ̄bau}\text{ta:n}^4 \text{ nau}^4 \text{ lo}^6 \text{ kuak}^5 \text{ ca:y}^4 \text{ fai}^4 \text{ li}^6 \text{ lo}^6$

3sg not only know do carpentry also know

$\text{tam}^3 \text{ lo}^2 \text{ tem}^1$

weave in addition

‘He not only can do carpentry work, but also knows how to weave.’

(iv) Temporal succession

(246) $\text{pu}^6 \text{ lau}^4 \text{ len}^1 \text{ pu}^6 \text{ te}^1 \text{ (ci)}^4 \text{ mi}^4 \text{ fan}^5$

CL which see CL that then have share

‘Whoever spotted (the game) will have a share.’ (As a saying in hunting.)

(iv) Temporal succession

(247) $\text{lau}^4 \text{ hat}^2 \text{ hom}^5 \text{ lwai}^2 \text{ na}^4$, $\text{lieu}^5 \text{ ci}^4 \text{ ̄dam}^1 \text{ na}^2$

1pl morning rake field then plant field

‘We’ll rake the field in the morning, and then we’ll transplant rice seedlings.’

(248) $\text{tum}^1 \text{ kum}^1 \text{ hau}^6 \text{ kon}^2$, $\text{zie}^5 \text{ na}^5 \text{ tuy}^6 \text{ tan}^5$.

2pl eat food first after that together discuss

‘You have your meal first. After that we’ll have a talk.’

Disjunction. Disjunctions in Zhuang include $\text{bau}^5 \text{ ̄dik}^1$ ‘or else’, $\text{bau}^5 \text{ mi}^4$ ‘otherwise’ and $\text{lo}^6 \text{ nau}^4$ ‘or’. These all occur clause or phrase initially. $\text{bau}^5 \text{ ̄dik}^1$ and $\text{bau}^5 \text{ mi}^4$ are used in declarative sentences while $\text{lo}^6 \text{ nau}^4$ only occurs in alternative questions.
1pl want make ditch first or-else then pass season
‘We got to make the ditch first, or else it will be too late.’

Do then do PURP well otherwise then don’t do
‘If you want to do it, do it well; otherwise don’t do it.’

9.6.2.2. **Coordinate serialization**

Among coordinate clauses in Zhuang, perhaps most notable are what is generally known as serial verb constructions (SVC), constructions that involve multiple clauses in one single verb complex without overt coordinate markers. According to the event types, these can be grouped into stance-activity sequence and parallel action sequence. The sequences may be concurrent, consecutive, alternative, purpose-result, causative, and so on. In some cases, ambiguities exist.

3sg often invite friends eat wine
‘He/she often invites friends for a drink’. (consecutive)

drink mouthful wine one warm body first
‘Have a little wine first and it will warm you up.’ (cause-effect)
‘Have a bit of wine to warm yourself up first.’ (purpose)
‘Warm yourself up first by drinking a little wine.’ (manner)

3pl eat wine make folk song
‘They drank and sang.’ (alternative)
‘They drank in order to sing.’ (purpose)
‘They sang while drinking.’ (comitative)

y.sibling ride horse leg broken
‘Younger brother broke his leg from riding a horse.’ (cause-result)
‘Younger brother rode a horse and broke his leg.’ (consecutive)
‘Younger brother rode a horse that had a broken leg.’ (descriptive)
(255)  luŋ⁴ ʔau¹  caːk⁵  laːm⁵  vaːi⁴
uncle   take   rope   tieup   buffalo
‘Uncle tied the buffalo with a rope.’ (instrumental)
‘Uncle used a rope to tie the buffalo.’ (consecutive)

(256)  kuŋ⁴  pjaːi³  ləŋ¹  maːi³  kaːk⁵  ʔdi¹  laːlɛ³  tə⁵  ɕua⁶
grandpa   walk   road   love   alone   with   self   talk
‘Grandpa likes to talk to himself when he goes for a walk.’ (descriptive)

(257)  ʔaːu¹  naŋ⁵  ce¹  pəi¹  hʊ¹
uncle   sit   bus   go   market
‘Uncle went to the market by bus.’ (manner)
‘Uncle took a bus to the market.’ (instrument)

(258)  pa³  ʔdam¹  θaːm¹  ko¹  kwa¹  paːn⁴  ʔen¹  laːu⁶.
Aunt   plant   three   CL   pumpkin   bear   CL   big
‘Aunt planted three pumpkin plants, (and they) produced big pumpkins.’ (descriptive)

(259)  ʔən⁴  ʨun⁴  mʊŋ¹  ɕuː³  ʔdai⁶  tsi³  ʔen¹  maːk²
yesterday   2sg   buy   obtain   several   CL   fruit
‘You bought some fruits yesterday that grandma enjoyed eating.’ (descriptive)
‘You bought some fruits yesterday and grandma liked (to eat) them.’ (consecutive)

(260)  ta¹  ɕieŋ⁶  paːn⁴  ha³  tua⁴  ma⁶  ɲa⁴  tɕie⁴
grandpa   raise   ASP   five   CL   horse   wish
‘Grandpa has raised five horses that he would like someone to exchange for buffalos.’ (descriptive)

(261)  laːu⁶  θai¹  haːr³  lʊŋ⁴  haːk⁵  ʔu⁵  laːn⁴  tək⁵  θai¹
teacher   let   student   stay   home   read   book
‘The teacher allowed the students to stay at home to read.’ (benefactive/purposive)
‘The teacher made the student work at home.’ (causative)
Simplex clauses

In addition to the above-discussed clause types, there is a distinctive type of clause in Zhuang which syntactically looks like a simple clause but which expresses the same meaning as a complex clause. Clauses of this type have only one subject NP and a VP consisting of two conjoining VPs. Prosodically, there are no pauses in between the two VPs as there are in complex clauses. But semantically, some sort of subordinate relationship can be accounted for between the two VPs in clauses of this kind. In most cases, a simplex clause can readily be paraphrased into a complex clause containing two clauses — a main clause and a subordinate clause. Quite often, the subject NP may function both as A and O of the two verbs respectively, which provides insight into ergativity-related issues.

(262) tua⁴ lau⁴ pi⁴ ø⁴ ka³.  
CL which fat CONJ kill  
‘Whichever one that is fat will be killed.’

(263) te¹ ?bau⁵ θon¹ je³ lo⁶.  
3sg NEG each CONJ know  
‘He/she knows (what to do) even though he/she is not taught.’

(264) hau⁶ lu³ θai⁴ hau⁷ la:i¹ na:n⁴ li⁰ ?dip².  
Rice cook get a lot long still raw  
‘Although cooked for quite a while, the rice was still not ready.’

(265) te¹ lian⁴ hau³ θon⁵ nin⁴ ø⁴ tsen¹.  
3sg just enter bed sleep CONJ snore  
‘As soon as he went to bed he started snoring.’

(266) tuuk⁴ pe³ jiet² θda³ jiet² θbau⁵ tag’lua⁵  
child-small themore scold themore not listen  
‘As for children, the more you scold them, the more disobedient they would become.’

(267) mta⁷ ma⁵ lau⁴ je³ θa:k⁵ pai¹ jieu² θdo:uj¹.  
2sg busy howmuch CONJ AUX go see relative  
‘Even though you are very busy, you’ll have to go and visit our relatives.’

Anaphora and binding

Zhuang appears to follow some principles of government and binding proposed by Chomsky (1981).
(268) $ku^1 \lo^6 \dla^5 \la^3 \le^2 \dla:ja^5$.  
Grandpa know self body weak  
‘Grandpa knows that he himself is failing.’

(269) $na^6pa^6 \nau^4 \pa^3 \ta:i^3 \px^5 \la^3 \le^2 \ka:k^5 \pa^1$.  
mother’s sb. swife say aunt great crave self lone go  
‘Aunty said great aunt would like to go by herself.’

(270) $na^6pa^6 \nau^4 \la^3 \le^2 \te^1 \ka:k^5 \cieu^6 \la^3 \le^2 \dla^6 \va:i^3$.  
y.sibling say self 3sg alone support self able pass  
‘Younger brother says he can support himself OK.’

However, bare reflexives in Zhuang exhibit long-distance binding in cases like the following, which apparently violate the binding principle that an anaphor is bound in its governing category.

(271) $j\ci^i \nau^4 \pa^j \cieu^6 \hun^4 \dha\au^5 \han^5 \la^3 \le^2_{ij}$.  
uncle say aunt lifetime not praise self  
‘Uncle said that aunty never praised himself/herself.’

(272) $j\ci^i \dla\au^4 \ho^4 \nau^4 \pa^j \dha\au^5 \ku^2 \la^3 \le^2_{ij}$.  
uncle inside throat say aunt not care self  
‘Uncle thought/felt that aunty never cared about himself/herself.’

Such long-distance binding is subject to the condition that the remote antecedent of $\la^3 \le^2$ must agree with all its closer potential antecedents in person (and number). If this condition is not met, then only local binding is allowed.

(273) $j\ci^i \nau^4 \hoi^2 \dha\au^4 \ku^2 \la^3 \le^2_{ij}$.  
uncle say slave not care self  
‘Uncle said that I never cared about myself.’

(274) $\te^1 \dla\au^4 \ho^4 \nau^4 \muau^1 \dha\au^4 \ku^2 \la^3 \le^2_{ij}$.  
3sg inside throat say you not care self  
‘S/he thought/felt that you never cared about yourself.’

Like English, Zhuang exhibits the specificity effects. (275) and (276) illustrate.

(275) $\muau^1 \kun^1 \kwa^2 \pjak^2 \pu^6 \dla\au^4 \luf^1 \le$?  
2sg eat ASP dish who cook PART  
‘Who have you eaten the dish cooked by ti before?’
It, too, displays weak cross-over effects. Thus, the subject and the predicate NPs in (277) cannot have the same reference.

(277) \[ pu^6 ca^4 te^l \; te^l \; tu^4 \; pu^6\, lau^d? \]
CL hate 3sg REL BE who

*‘Who, is the person that hates himi?’

‘Who, is the person that hates himj?’

For the so-called donkey sentences, Zhuang exhibits interesting paradigms.

(278) a. \[ mw\, y^d \; y^d \; ?a^l \; tu^4 \; lau^d, \; ku^l \; ha\, \, m^w\, y^d \]
2sg desire want CL which 1sg give 2sg

\[ tu^4 \; lau^d \]
CL which

‘I’ll give you whichever one you like.’ (Lit. ‘You like which one, I’ll give you which one.’)

b. \[ mw\, y^d \; y^d \; ?a^l \; tu^4 \; lau^d, \; ku^l \; ha\, \, m^w\, y^d \]
2sg desire want CL which 1sg give 2sg

\[ tu^4 \; te^l. \]
CL that

(same as above)

(279) a. \[ pu^6\, lau^d \; pa:\, y^d \; ho^2 \; kwa^2, \; ho^2 \; ?a^5 \; lu^4 \; pu^6\, lau^d \]
who help slave ASP slave not forget who

**‘Whoever has helped me before, I won’t forget whom.’

b. \[ pu^6\, lau^d \; pa:\, y^d \; ho^2 \; kwa^2, \; ho^2 \; ?a^5 \; lu^4 \; te^l \]
who help slave ASP slave not forget 3sg

‘Whoever has helped me before, I won’t forget him.’

c. \[ pu^6\, lau^d \; pa:\, y^d \; ho^2 \; kwa^2, \; ho^2 \; ?a^5 \; lu^4 \; pu^6 \; te^l \]
who help slave ASP slave not forget CL that

‘I won’t forget those who have helped me before.’
The unacceptability of (279a) and (279b) indicates that sentences of this kind behave quite differently from those like (278).

9.7. ACKNOWLEDGEMENTS

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CHAPTER TEN

BOUYEI PHONOLOGY

Wil C. Snyder

10.1. INTRODUCTION

The Bouyei are a relatively populous people of Guizhou province, China. According to the 1990 government census, there were almost two and a half million Bouyei living in Guizhou at that time. The largest percentage of Bouyei resides in the Qiannan Bouyei-Miao autonomous prefecture, the Qianxinan Bouyei-Miao autonomous prefecture, the Anshun region, the Liupenshui city area and the Guiyang city area. In addition, a small percentage of Bouyei reside in the Zunyi area, the Bijie area, the Qiandongnan Miao-Dong autonomous prefecture, and Yunnan province.

The Bouyei language is classified as a Northern Tai language, part of the Kadai language family. It is very similar to the Zhuang language of Guangxi province. Actually, southern Zhuang, northern Zhuang and Bouyei can be viewed as a continuum of dialects. In many ways, Bouyei and northern Zhuang are linguistically closer than northern Zhuang and southern Zhuang. The Bouyei language itself has various dialects, many dialects being mutually unintelligible to a significant degree in vocabulary and semantics. However, the grammar and basic vocabulary of the various dialects is quite similar. According to the Bouyei language survey done in the 1950’s, there are three major dialectal areas. Geographically, the first dialectal area covers the southern part of the Bouyei language area, and is comprised of Wangmo, Ceheng, Luodian, Dushan, Libo, Duyun, Pingtang, Zhenfeng, Anlong, Xingren and Xingyi counties. The second dialectal area is made up of Longli, Guiding, Qingzhen, Pingba, Kaiyang counties, the Guiyang city area, and the Anshun area, and covers the northeastern part of the language area. Zhenning, Guanling, Ziyun, Qinglong, Pu’an, Liuzhi, Panxian, Shuicheng, Bijie, and Weining counties make up the third dialectal area, in the western part of the language area. In general, with regard to the phonologies of the various dialects, the 2000 survey [Wu, Snyder, Liang] bore these results out as well, though intelligibility groupings differed somewhat.

Historically, the Bouyei have no script of their own. In many Bouyei areas, some Bouyei songs and scriptures have been written with a kind of modified Chinese character script, though the script is often different in each place. In 1956, under the direction of the government of the People’s Republic of China, a roman script was created for the Bouyei language. The Bouyei language is spoken by virtually all Bouyei people in the rural parts of these areas, and by many in the towns and cities as well. Many Bouyei can also communicate in the local variety of Mandarin to some degree, and some are completely bilingual.

10.2. PHONOLOGY OF WANGMO BOUYEI

Based on the 1950’s Bouyei language survey, the Chinese government chose the Bouyei variety of Wangmo county as the standard, or representative dialect of Bouyei. Based on the survey published in 2000, Wangmo still makes a good choice for a representative dialect. In doing intelligibility analysis, the Bouyei of Ceheng, Wangmo and Luodian counties came out to be the main ‘center of communication’ for the entire Bouyei language, ‘center of
communication’ being the dialectal area most intelligible to all other dialects. In addition, the Bouyei population is heavily concentrated in these areas, and there is less Chinese influence in these counties than most other Bouyei areas. Wangmo county is on the Guizhou-Guangxi border, and has many of the characteristics of northern Zhuang. The basic phonology of Wangmo (Fuxing county) is outlined below. Some of its characteristics are then compared with other Bouyei dialects. This article is based on the data from the more recent survey published in 2000, which used a 500 item word list.

Below are the phoneme charts for the Bouyei dialect of Fuxing town, Wangmo county. Allophones are listed in square brackets [ ].

10.2.1. Initial consonants

<table>
<thead>
<tr>
<th>Plos.</th>
<th>BiLab</th>
<th>LaDe</th>
<th>InDe</th>
<th>Alv</th>
<th>AlPal</th>
<th>Pal</th>
<th>Vel</th>
<th>Glo</th>
</tr>
</thead>
<tbody>
<tr>
<td>vl</td>
<td>p, pj</td>
<td></td>
<td></td>
<td>t</td>
<td></td>
<td></td>
<td></td>
<td>k, kw</td>
</tr>
<tr>
<td>?b</td>
<td></td>
<td>f</td>
<td>0</td>
<td>?d</td>
<td></td>
<td></td>
<td>tɕ</td>
<td></td>
</tr>
<tr>
<td>vl</td>
<td></td>
<td>v</td>
<td></td>
<td>[s], [s]</td>
<td></td>
<td>n</td>
<td>x, [xw]</td>
<td>[h]</td>
</tr>
<tr>
<td>vl</td>
<td></td>
<td></td>
<td>δ, [ðw]</td>
<td></td>
<td></td>
<td></td>
<td>[i]</td>
<td></td>
</tr>
<tr>
<td>vd</td>
<td></td>
<td>m</td>
<td></td>
<td></td>
<td>n</td>
<td></td>
<td></td>
<td>[i]</td>
</tr>
<tr>
<td>vd</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

10.2.2. Final consonants

p, t, k, m, n, η

10.2.3. Vowels

<table>
<thead>
<tr>
<th>Front</th>
<th>Central</th>
<th>Back</th>
</tr>
</thead>
<tbody>
<tr>
<td>Close</td>
<td>unrd</td>
<td>unrd</td>
</tr>
<tr>
<td>Near-Close</td>
<td>[i]</td>
<td>i</td>
</tr>
<tr>
<td>Close-mid</td>
<td>[e]</td>
<td>[ə]</td>
</tr>
<tr>
<td>Mid</td>
<td>ě</td>
<td>ě</td>
</tr>
<tr>
<td>Open-mid</td>
<td>ě</td>
<td>v</td>
</tr>
<tr>
<td>Near-open</td>
<td>a, a:</td>
<td></td>
</tr>
<tr>
<td>Open</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

10.2.4. Tones

<table>
<thead>
<tr>
<th>Category</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pitch value</td>
<td>24</td>
<td>42</td>
<td>52</td>
<td>31</td>
<td>35</td>
<td>33</td>
<td>35</td>
<td>34</td>
</tr>
</tbody>
</table>

The phoneme inventory of this dialect is quite typical of Bouyei. There is a series of voiceless unaspirated stops /p, t, k, g/, and a series of pre-glottalized stops /ʔb, ʔd/ (there is no instance of a velar pre-glottalized stop anywhere in Bouyei). There is an alveo-palatal affricate /tɕ/ (there are dialects with alveolar and even palatal affricates in addition to the alveo-palatal). The fricatives include the bi-labial fricatives /f/ and /v/, a series of voiced and voiceless interdental/alveolar fricatives (some dialects have both interdental and alveolar fricatives which are phonemic), an alveo-palatal /ɕ/, and the velar fricative /ʃ/. Nasals include /m/, /n/, /ŋ/ and /ŋ/, and there is one lateral /l/, and the palatal approximate /j/.

[f] and [v] often occur in complimentary distribution, but not exclusively. The instances of [f] in the data corresponds mainly to *mw and *v of proto-tai, and [v] corresponds to *v, *v, *w, *hw, *f and *xw. [v] occurs mainly with odd numbered tones, and [f] only occurs with an odd tone once, all other instances being with even numbered tones. Examples:

[s], [s] and [θ] are all variants of one phoneme. The degree of dental fronting on any lexical item varies from person to person within the village, and for any one speaker can vary on a single lexical item depending on the phonological environment. Some words are most often pronounced with say, [s], but if pronounced with [θ] they are never confused with any other word. Similarly, [z] and [θ] are both variants of a single phoneme. [θ] only occurs in the data once, following a closely bound open syllable morpheme. This is also a variant with [θ]. All these alveolar and dental fricatives seem to be in a state of flux, with a large degree of variation allowed over each phoneme. Examples:

[z]: [xo⁶ zau²] ‘we (inclusive)’
[z]: [zn³] ‘long’, [za⁸ fa³] ‘root’

[n] is phonemic, occurring before low vowels as well as high, as in [na¹] ‘grass’. [x], [h] and [ŋ] are all variants, [h] only occurring once in the data, and [ŋ] twice.

[ŋ], [ŋw], [ɲ], [kw], [ðw] and [xw] are listed among the initial consonant inventory, but whether the palatalization and labialization are phonemic or not is difficult to tell from simply eliciting word lists. See Section 10.3.3 for discussion of using word games to distinguish C+j, and C+u from Cw.

Kadai languages have length distinction on some vowels, and Bouyei is no different. In the 2000 survey, the vowel lengths for each dialect were measured computationally. The Wangmo Fuxing variety has phonemic /a:/, /a/ and /o:/, /o/. Each of [a], [7] and [a:] are all phonemic, and occur many times.

In this variety, [e]/[e], [i]/[i], and [u]/[u] are allophone pairs. [ə] and [i] are allophones, according to the following rule:

/ə/ → [i] in the environments /C(V) #; /C a (C)#.

Each Bouyei dialect has a number of diphthongs and a few triphthongs. On open syllables Wangmo has the following diphthongs and triphthongs:

ia, ie, iu, ia, ue, u, ai, au, ai, vi, vu, vi, i, eu, ei
iai, ieu, uai, uai, uei, uau, oui

On syllables ending in a nasal, Wangmo has the following diphthongs:

ie, io, ia, ua, u, uo, iə

Finally, Wangmo has the following diphthongs on syllables closed by a stop:

iu, ia, ie, iu, uə, iə

This dialect has six open tones corresponding to the historical voiced/voiceless split of the A, B and C tones. The D tone split into voiceless and voiced sets (but not long and short sets). So tone 7 has words from the 7th and 9th categories, and tone 8 has words from the 8th and 10th categories. Looking at the pitch values, we can see that the odd numbered tone category pitch values are generally high or rising, and the even numbered category values are lower or falling. Each tone category therefore follows the voiced-low principle in this dialect. The pitch of tone category 3 is listed as falling [53], but is not a true falling tone. The fall only occurs in isolation or at the end of an utterance, otherwise the pitch is [55].
10.3. COMPARISON WITH OTHER DIALECTS

10.3.1. Aspiration

The Wangmo dialect, like most Bouyei dialects, has no aspirated stops or affricates. The only dialects with phonemic aspiration are in Shuicheng (Fa’er), Zhenning (Shitouzhai) and Ziyun (Nonghe), which are western dialect areas. Both Zhenning (Banle) and Ziyun (Huohua) are in this western area, but have no aspirated stops, and seem to be phonologically closer to the first dialectal area. Zhenning (Shitouzhai) and Ziyun (Nonghe) both have phonemic /ph, th, kh/, the occurrence of aspiration on certain words is regular and constant. Shuicheng (Fa’er), on the other hand, has many instances of aspiration, but the aspiration is quite often sporadic. Only [ph] occurs regularly on particular words. However, there are instances of [pfh, th, kh, tsh, teh].

Qinglong (Zitang), also considered a western dialect, has very little evidence of aspiration on stops. In the data are recorded a total of five instances of [th], [tsh] or [tch], but the aspiration that occurs is sporadic and non-phonemic. Anshun (Huangla), another western dialect, only has phonemic aspiration on the alveolar affricates, [tsh] and [tch], with no instances of [ph, th, kh]. The Huishui (Danggu) dialect and the Longli (Yangchang) dialect are in the second or northeast dialectal area, and there are a few instances of aspiration [th, tsh, teh] in these two dialects, but again the aspiration is sporadic and not phonemic.

In each of these dialects with aspirated stops or affricates, though, very few of the items match with aspirated proto-forms. For example, in the Zhenning (Shitouzhai) data, [ph] occurs on six lexical items, but only two of these lexical items have aspiration on the proto-form. [th] occurs on eleven items, but only one out of those eleven has an aspirated proto-form. In each dialect with aspirated stops or affricates, the preponderance of aspiration occurs on lexical items which don’t often evidence aspiration in other Kadai languages, and so have unaspirated proto-forms. Oddly though, many of the aspirated items are aspirated in each of the third dialectal area dialects. For example, there are six items with initial [ph] in the the Zhenning (Shitouzhai) data, five in Ziyuan (Nonghe), and four in Shuicheng (Fa’er) (one with [pf]). Each of the five Ziyuan (Nonghe) examples are also aspirated in Zhenning (Shitouzhai), though only one of the Shuicheng (Fa’er) items is also aspirated in Zhenning (Shitouzhai). However, the Longli (Yangchang) and Huishui (Danggu) aspirated items do not overlap with those of Zhenning (Shitouzhai), Ziyun (Nonghe), or Shuicheng (Fa’er). So it seems that in the Bouyei dialects with aspiration, the occurrence of aspiration on most lexical items is not often due to historical aspiration on those same items, but due to some other process. See examples in chart below.

<table>
<thead>
<tr>
<th>Lexical items</th>
<th>Zhenning (Shitouzhai)</th>
<th>Ziyun (Nonghe)</th>
<th>Shuicheng (Fa’er)</th>
<th>Proto-Tai 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>thunder</td>
<td>pha˧˧</td>
<td>pha˧˧</td>
<td>phaʔ˧</td>
<td>*phl/ra C1</td>
</tr>
<tr>
<td>mountain</td>
<td>pu˧</td>
<td>po˧</td>
<td>pu˧</td>
<td>*b/puo A1</td>
</tr>
<tr>
<td>navel</td>
<td>phoʔ˧ ʔle˦˥ 6</td>
<td>phoʔ˧ ʔdu˦˥ 1</td>
<td>phŋ̣ʔ˧ ʔdŋ̣˥ 1</td>
<td>*gbl/ru A1</td>
</tr>
<tr>
<td>swell up</td>
<td>pha:u˧</td>
<td>pha:u˧</td>
<td>p uczniów</td>
<td>*bŋŋ A2</td>
</tr>
<tr>
<td>walk</td>
<td>pʰḥ˧</td>
<td>pʰḥ˧</td>
<td>jän˧</td>
<td>*phl/rai C1</td>
</tr>
<tr>
<td>flat</td>
<td>phŋ̣˧</td>
<td>pha:m˧</td>
<td>?ben˧</td>
<td>*pën A1</td>
</tr>
<tr>
<td>blow</td>
<td>*</td>
<td>pu˧</td>
<td>pʰo˩, phu˧</td>
<td>*p– C1</td>
</tr>
<tr>
<td>father</td>
<td>pu untrue 6</td>
<td>pu˧</td>
<td>pʰu, pʰu untrue 6</td>
<td>*bọ B2</td>
</tr>
</tbody>
</table>

1 The Proto-Tai data is taken from Li Fang-Kuei (1977).
10.3.2. Dental and alveolar fricatives

As discussed above, in the Wangmo (Fuxing) dialect there is a fair degree of synchronic variation on the dental/alveolar fricatives. This variation is very common over the whole language. Also, in many dialects, this set of fricatives tends toward the dental point of articulation, while in others it tends more toward alveolar/alveo-palatal. For example, we see that Wangmo (Fuxing) generally tends toward the dental point of articulation, but the Changshun (Guyang) dialect shows [s, ʒ]. However, regardless of whether this set of fricatives is more dental or alveolar/alveo-palatal, each dialect always has the alveo-palatal voiced fricative [ɕ]. The point of articulation for this phoneme is constant throughout each dialect, with few exceptions.

In many dialects, the variation is sporadic and doesn’t depend on the phonological environment to any significant degree. Sometimes though, the variation is influenced most often by environment. For example, in the Anlong (Pingle) dialect, the lexical item ‘bird’ was pronounced with [ɾ], [ʊ] and [ŋ] on three different examples, with the environment being different on each occasion.

‘bird’ [tu² ɾak⁷] ‘bird nest’ [doŋ² ʣok⁷] ‘owl’ [ʒak⁷ ʨeu⁵ ʨeu⁵]

In many dialects, [ʒ] occurs most often before rounded vowels. But the Dushan (Nanzhai) dialect shows [s/sʃ], [ɕ] and [ʒ/ʃ], both [ʒ] and [ʃ] being phonemic.

‘root’ [za⁶], ‘pull, to’ [zą⁶] ‘go down, to’ [zoŋ⁷], ‘bird nest’ [ʒoŋ² ʒo³]

In addition to the alveolar and dental fricatives, two of the western dialects, Zhenning (Shitouzhai) and Ziyun (Nonghe) also have a lateral fricative [ɻ]. This sound corresponds to dental/alveolar sounds in other dialects. Below are some items from these two dialects with the lateral fricative, compared with Wangmo (Fuxing).

<table>
<thead>
<tr>
<th>lexical item</th>
<th>Zhenning (Shitouzhai)</th>
<th>Ziyun (Nonghe)</th>
<th>Wangmo (Fuxing)</th>
</tr>
</thead>
<tbody>
<tr>
<td>fly (insect)</td>
<td>nian⁷ ɻa⁷</td>
<td>nien² ɻa⁵</td>
<td>nen² ūa⁵</td>
</tr>
<tr>
<td>intestines</td>
<td>ɻai³</td>
<td>ɻai³</td>
<td>ɕi³</td>
</tr>
<tr>
<td>sour</td>
<td>ɻan⁵</td>
<td>ɻam⁴</td>
<td>ʒam³</td>
</tr>
<tr>
<td>paper</td>
<td>ɻa¹</td>
<td>ɻa¹</td>
<td>ūa³</td>
</tr>
</tbody>
</table>

To summarize, within most dialects Bouyei varies widely with respect to the point of articulation of dental and alveolar fricatives. For the voiceless dental/alveolar fricative, point of articulation can range from [ʃ] to [ɕ], and the voiced dental/alveolar fricative can range from [ʊ] to [ŋ]. These fricative sounds may be in a state of flux, but this can only be ascertained by future survey work.

10.3.3. Palatalization and labialization

Each of the dialects have many instances of palatalization and labialization on stops (and sometimes on other initial consonants). Traditionally, these palatalized and labialized initials have been considered phonemic. However, whether the palatalization and labialization is phonemic or not is difficult to ascertain. For example, the word for vegetable is most often something like [pʃjek⁷]. In many dialects, the palatalization seems quite strong, the high semi-vowel closely bound to the initial stop. In other dialects, the pronunciation seems closer to initial stop plus high vowel [i]. Analyzing the sounds on the computer verifies these observations. In some dialects, the palatal or labial part of the initial is relatively long, much like a high vowel. In others, it is very short. Judging the phonemic status of these sounds by ear is of course subjective and most often inaccurate. But even if the palatalization (or labialization) is tightly bound phonetically to the initial stop, the phonemic status is still in question. In the Luodian (Luokun) dialect, we used a word game to ascertain
the phonemic status of these initials. In this dialect, a sort of ‘pig latin’ involves saying a word and following it with the initial of the word + [in] + the tone of the word. So dog [ma’] would be [ma’m[in]1], and ‘bird’ [ðsk’] would be [ðsk’ð[in]1]. Here are some samples of words, as spoken in the word game, with the initials [pj, kw, ?j, ?w, ñw].

‘stupid’ [?wa’?win]   ‘wipe’ [?wet’o?win6]
‘difficult’ [?ja’?jin]   ‘live/stay’ [?ju’?jin6]
‘vegetable’ [pjek’pin]   ‘fish’ [pja’pin]
‘right’ [kwa’kin]   ‘kneel’ [kwi’kin6]
‘seed’ [ñwih’ñwin]   ‘roof tile’ [ñwa’ñwin6]

The labialization on [?w] and [ñw] moves with the initial onto the second syllable, indicating it is part of the phoneme, whereas the labialization of [kw] does not, indicating that ‘right’ is [kua’] phonemically and ‘kneel’ is [kui’] phonemically. Similarly, [?j] is phonemic (/?j/), whereas [pj] is actually /p/ + /i/. Luodian (Luokun) is the only dialect where this kind of word game has been used to analyze the phonemic status of labialized and palatalized stops. Most likely similar analysis of other dialects would give sometimes similar and sometimes divergent results.

Although for [kw] and [pj] the labialization and palatalization are not phonemic, they are clearly a result of historical processes, as shown by the reflexes for some of the items above.

<table>
<thead>
<tr>
<th>Lexical item</th>
<th>Luodian (Luokun)</th>
<th>Proto-Tai</th>
</tr>
</thead>
<tbody>
<tr>
<td>wipe</td>
<td>?wet’o</td>
<td>*kw _t D1 L</td>
</tr>
<tr>
<td>live/stay</td>
<td>?ju’6</td>
<td>*?ju B1</td>
</tr>
<tr>
<td>vegetable</td>
<td>piak’7</td>
<td>*phl/rak D1S</td>
</tr>
<tr>
<td>right</td>
<td>kwa’2</td>
<td>*kw/gwa A1/2</td>
</tr>
</tbody>
</table>

10.3.4. Vowels

Vowel length is a common phonological feature of Kadai languages, but whether length is phonemic, or whether a phonemic distinction is based on quality rather than length, needs careful evaluation. Most Bouyei dialects have a phonemic length distinction on [a], /a/ and /a:/, though not all. For example, in the Dushan (Nanzhai) and Guiding (Gugong) dialects, [a:] occurs only a few times, always in the environment C_i#. In the data, many dialects have instances of length on other vowels, but these are not phonemic. The data was analyzed on the computer to check vowel length. In the Ceheng data, for example, there were some instances of [o:] and [a:], but their occurrence was sporadic, and always preceding a nasal. Dushan (Shuiyan) also had some instances of [o:], always preceding a nasal. In the Wangmo (Fuxing) data, [o:] occurs in a total of nine items, again always preceding a nasal. In the Xingyi (Bajie) dialect, [a:] occurs on five items. In most other dialects, four of these five items are diphthongs. The length on [a:] in Xingyi (Bajie) is possibly becoming phonemic due to loss of diphthong.

[a] occurs phonemically (separate from both [a] and [e]) in Anshun (Huangla), Qinglong (Zitang), Shuicheng (Fa’er), Zhenning (Shitouzhai), and Ziyun (Nonghe). The occurrence of this vowel is one of the characteristics of western dialects. Of these few dialects, Anshun (Huangla) and Ziyun (Nonghe) each have about 30 or more instances of [æ] within the data, with many of these lexical items being the same. Zhenning (Shitouzhai) has only about a dozen or so instances, and only a few of these also have [æ] in Anshun (Huangla) and Ziyuan (Nonghe). Finally, Shuicheng (Fa’er) only has about half a dozen instances, with only one item, ‘rice’, also having [æ] in the other three dialects. Comparing items from Anshun (Huangla), Ziyun (Nonghe), and Zhenning (Shitouzhai) with Wangmo (Fuxing), we see that /æ/ in western dialects corresponds with /a/ in most other Bouyei dialects.
The Tai-Kadai Languages

<table>
<thead>
<tr>
<th>Lexical item</th>
<th>Anshun (Huangla)</th>
<th>Ziyun (Nonghe)</th>
<th>Zhenning (Shitouzhai)</th>
<th>Wangmo (Fuxing)</th>
</tr>
</thead>
<tbody>
<tr>
<td>dirt</td>
<td>næ:m⁶</td>
<td>næ:m⁶</td>
<td>næ:j⁶</td>
<td>nam⁶</td>
</tr>
<tr>
<td>spider</td>
<td>kæu¹</td>
<td>ko¹</td>
<td>ko¹</td>
<td>kuau¹</td>
</tr>
<tr>
<td>body</td>
<td>?dan¹</td>
<td>?dan¹</td>
<td>?dan¹</td>
<td>?dan¹</td>
</tr>
<tr>
<td>mouth</td>
<td>pæk⁷</td>
<td>pa³</td>
<td>pa¹</td>
<td>pa³</td>
</tr>
<tr>
<td>chest</td>
<td>?ak⁷</td>
<td>?ak⁷</td>
<td>?ak⁷</td>
<td>?ak⁷</td>
</tr>
<tr>
<td>ghost</td>
<td>væn²</td>
<td>væn²</td>
<td>væn²</td>
<td>faŋ²</td>
</tr>
<tr>
<td>dry (in the sun)</td>
<td>tæk⁷</td>
<td>ta⁵</td>
<td>ta³</td>
<td>ta³</td>
</tr>
<tr>
<td>rope</td>
<td>tsæk⁸</td>
<td>tsæ⁹</td>
<td>tsæ⁷¹</td>
<td>ca⁶</td>
</tr>
<tr>
<td>three</td>
<td>ðæm¹</td>
<td>ðæm¹</td>
<td>ðæm¹</td>
<td>sam¹</td>
</tr>
<tr>
<td>hundred</td>
<td>pæk⁷</td>
<td>pa³</td>
<td>pa¹</td>
<td>pa³</td>
</tr>
<tr>
<td>tall</td>
<td>ðæn¹</td>
<td>ðæn¹</td>
<td>ðæn¹</td>
<td>ðæn¹</td>
</tr>
<tr>
<td>white</td>
<td>þæ:u¹</td>
<td>xo¹</td>
<td>xo¹</td>
<td>xau¹</td>
</tr>
</tbody>
</table>

With regard to mid vowels, some dialects have a symmetrical distribution of /e/, /e/, /o/ and /ɔ/. Luodian (Luokun) has the following minimal pairs:

- ‘flying insect’ [mez²], ‘top, crest’ [mez³]
- ‘cat’ [mez²], ‘hair’ [mez³]
- ‘early’ [ðem⁶], ‘eagle’ [ðem⁶]
- ‘cut (meat)’ [ðen³], ‘road’ [ðen¹]

We’ve seen that Wangmo (Fuxing) has /e/ (with the allophone [e]), /o/ and /ɔ/. Some other dialects have only two mid vowel phonemes, sometimes with allophones. Anshun (Huangla), for example has /e/ and /o/, with allophones [e] and [ɔ] respectively.

10.3.5. Tones

The pitch value pattern of the Libo (Fucun) dialect is an example of a common pattern among the Bouyei dialects.

**Libo (Fucun)**

<table>
<thead>
<tr>
<th>Category</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pitch value</td>
<td>13</td>
<td>21</td>
<td>33</td>
<td>53</td>
<td>35</td>
<td>55</td>
</tr>
</tbody>
</table>

The pitch value pattern is symmetric, two rising pitches (one low one high), two falling (one high and one low), and two level pitches. However, there are many divergent patterns among the various dialects, almost a dozen different patterns out of 24 dialects.² For example,

**Duyan (Fuxi)**

<table>
<thead>
<tr>
<th>Category</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pitch value</td>
<td>24</td>
<td>33</td>
<td>31</td>
<td>41</td>
<td>44</td>
<td>35</td>
</tr>
</tbody>
</table>

² For each dialect, Gedney boxes were used to chart the pitch values of each tone, and the computer was used to visualize the pitch values.
The majority of Bouyei dialects have six tones on open syllables, with the exception of four dialects with only five tones.

**Guiding (Gonggu)**

<table>
<thead>
<tr>
<th>Category</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pitch value</td>
<td>35</td>
<td>23</td>
<td>14</td>
<td>32</td>
<td>44</td>
<td>42</td>
</tr>
</tbody>
</table>

**Luodian (Luokun)**

<table>
<thead>
<tr>
<th>Category</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pitch value</td>
<td>24</td>
<td>423</td>
<td>33</td>
<td>31</td>
<td>35</td>
<td>41</td>
</tr>
</tbody>
</table>

**Xingyi (Bajie)**

<table>
<thead>
<tr>
<th>Category</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pitch value</td>
<td>33</td>
<td>52</td>
<td>25</td>
<td>35</td>
<td>24</td>
<td>41</td>
</tr>
</tbody>
</table>

The third and fourth tones have merged in three of these dialects, with the fifth and sixth tone having merged in Pingtang (Xiliang).

Like other Kadai languages, Bouyei exhibits evidence of a four way split among the closed (checked) syllable lexical items. Only four of the twenty-four dialects in the data retain all four checked tones.

**Pingtang (Xiliang)**

<table>
<thead>
<tr>
<th>Category</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5,6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pitch value</td>
<td>13</td>
<td>31</td>
<td>33</td>
<td>42</td>
<td>35</td>
</tr>
</tbody>
</table>

**Shuicheng (Fa’er)**

<table>
<thead>
<tr>
<th>Category</th>
<th>1</th>
<th>2</th>
<th>3,4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pitch value</td>
<td>44</td>
<td>33 or 31</td>
<td>41</td>
<td>55</td>
<td>24</td>
</tr>
</tbody>
</table>

**Zhenning (Shitouzhai)**

<table>
<thead>
<tr>
<th>Category</th>
<th>1</th>
<th>2</th>
<th>3,4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pitch value</td>
<td>44</td>
<td>31</td>
<td>42</td>
<td>34</td>
<td>24</td>
</tr>
</tbody>
</table>

The third and fourth tones have merged in three of these dialects, with the fifth and sixth tone having merged in Pingtang (Xiliang).

**Ziyun (Nonghe)**

<table>
<thead>
<tr>
<th>Category</th>
<th>1</th>
<th>2</th>
<th>3,4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pitch value</td>
<td>33</td>
<td>31</td>
<td>41</td>
<td>35</td>
<td>24</td>
</tr>
</tbody>
</table>

**Duyan (Fuxi)**

<table>
<thead>
<tr>
<th>Category</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pitch value</td>
<td>45</td>
<td>33</td>
<td>44</td>
<td>25</td>
</tr>
</tbody>
</table>

**Guiding (Gonggu)**

<table>
<thead>
<tr>
<th>Category</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pitch value</td>
<td>45</td>
<td>13</td>
<td>33 or 34</td>
<td>44</td>
</tr>
</tbody>
</table>
Longli (Yangchang)

<table>
<thead>
<tr>
<th>Category</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pitch value</td>
<td>45</td>
<td>24</td>
<td>34</td>
<td>55</td>
</tr>
</tbody>
</table>

Xingyi (Bajie)

<table>
<thead>
<tr>
<th>Category</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pitch value</td>
<td>24</td>
<td>44</td>
<td>23 or 22</td>
<td>31</td>
</tr>
</tbody>
</table>

The seventh tone always tends to be high rising, the eighth either low rising or mid level, the ninth tone mid or mid rising. The tenth tone varies most widely, from high rising, to high level, to low falling.

Most common are dialects where the seventh and ninth tones have merged, and the eighth and tenth tones have merged. These tones are labeled 7 and 8 respectively. About half the dialects in the data fall into this category. In these dialects, the seventh tone is again always high rising, but the eighth tone varies widely, from mid level (several dialects), to high level (Ceheng (Huarong), Pingtang (Xiliang)), to high falling (Zhenfeng (Mingu)), and mid rising (four of the dialects).

In several dialects, the seventh and ninth tones have merged, but the eighth and tenth have been retained. The seventh tone is always high rising, and the eighth is either low falling or mid level. The tenth tone again varies most widely, from mid level, to high falling, to high level. Finally, each of the D tones in Shuicheng (Fa’er) have merged into a high level tone.

The phonemic pitch of most Kadai languages follow the voiced-low voiceless-high principle. That is, on words with original, historic voiced initials, the pitch tends to be lower or falling, whereas on words with original voiceless initials, the pitch tends to be higher or rising. In general, Bouyei holds to this principle as well, though there are numerous exceptions. The exceptions are generally distributed over most of the dialects, with no dialectal area standing out. As noted above, the Libo (Fucun) dialect has a common pitch value pattern over its six open tones. However, the third tone is a mid level tone, whereas the sixth tone is high level. The Duyun (Fuxi) dialect has a low falling third tone, and a high rising sixth tone. In Xingyi (Bajie), the fourth tone is high rising. Many other dialects have exceptions as well. Among the checked tones, the seventh tone is amazingly consistent as a high rising pitch. In the four dialects with a separate ninth tone, the values are high level, mid level or rising, which is more or less consistent with the voiced-voiceless principle. In the dialects with separate eighth and tenth tones, the eighth tone is most often low falling or mid level, but in Guiding (Gonggu) and Longli (Yangchang) the eighth tone is low but rising, and in Xingyi (Bajie) it is high level. Where the eighth and tenth tones have merged, four dialects have a mid rising pitch, and two have a high level pitch.

We can see that the different patterns of pitch value are distributed over each major dialectal region, with no apparent correlation of any one pattern to any one major dialectal area. However, concerning checked tones, each of the western dialects have merged the seventh and ninth tones, and the eighth and tenth tones, but several other dialects in both the southern and northeastern dialectal areas fall into this pattern as well. Also, of the four dialects with less than six tones on open syllables, three are western area dialects (Shuicheng (Fa’er), Zhenning (Shitouzhai) and Ziyun (Nonghe)). So the western dialects have somewhat of a trend to merge tones, as compared to the southern and northeastern dialects.

10.3.6. Finals

The majority of Bouyei dialects have the nasal finals /m, n, n/. Few of the dialects seem to be losing these sounds. There are very few occurrences of vowel nasalization in any of the dialects, none of it phonemic. Only Shuicheng (Fa’er) and Zhenning (Shitouzhai) have lost any of the final nasals, both dialects having lost final /m/. The finals /n/ and /n/ still occur in these dialects.
Most dialects have the final stops [p, t, k, ?]. Some of the dialects are losing final /k/, with these dialects having fewer instances of final /k/ compared to other dialects. Where final /k/ has been lost, most often final /ʔ/ occurs instead, though sometimes the syllable has become completely open. Four of the dialects have lost final /k/ completely. Three of these four are in the northeastern dialectal area, Changshun (Guyang), Dushan (Shuiyan), and Guiding (Gonggu), the other being Pingtang (Xiliang) in the south. Finally, Zhenning (Shitouzhai) has lost the final /p/, the final /p/ being replaced by final /k/. Below we compare three items with final /p/ in Ziyun (Nonghe) with Zhenning (Shitouzhai).

<table>
<thead>
<tr>
<th>Item</th>
<th>Zhenning (Shitouzhai)</th>
<th>Ziyun (Nonghe)</th>
</tr>
</thead>
<tbody>
<tr>
<td>‘claw’</td>
<td>jik’</td>
<td>jip’</td>
</tr>
<tr>
<td>‘liver’</td>
<td>tak’</td>
<td>tap’</td>
</tr>
<tr>
<td>‘bamboo hat’</td>
<td>kak’</td>
<td>kap’</td>
</tr>
</tbody>
</table>

10.3.7. Summary

The phonology of Bouyei is fairly typical for a Kadai language, with relatively few initial consonants, a relatively large number of vowels, diphthongs and some triphthongs, normally six open tones and up to four checked tones.

In general, the phonemes and tones of most lexical items match up well with Proto-Tai, though we can see some small tendencies within Bouyei for phonological change. For example, in some western dialects aspiration is occurring on items with no aspiration on the proto-form. Only Zhenning (Shitouzhai) and Ziyun (Nonghe) have a fairly consistent inventory of aspirated initials. Also, the point of articulation of dental and alveolar fricatives seems to be unstable, this phenomena occurring over most Bouyei dialects.

With regard to vowels, there is no significant difference among the phonemic inventory of the various Bouyei dialects, with the exception of /æ/, which is a characteristic of the western dialects. Each dialect has numerous diphthongs as well as some triphthongs.

Most Bouyei dialects have six open tones, though some have only five. Most dialects have at least two D tones, some having up to four D tones. Whether there is a tendency among Bouyei dialects to merge tones or not is unclear, future survey will need to be done to see any tendency. Tone sandhi does not appear to be a phenomenon in Bouyei, which is surprising since it occurs in some Zhuang dialects. However, extensive research in the many various dialects may well turn up tone sandhi in some areas.

The finals are typical of a Kadai language, having only nasal and stopped finals. In some dialects, loss of final [k] is occurring.

In each of the dialects investigated so far, very few phonological rules are in evidence, and virtually all of these involve vowels. Many dialects have rules such as /i/ assimilating to [I], or /i/ assimilating to [u] or [a], but there is very little assimilation or other kinds of processes going on with the consonants, and no known tone sandhi. In light of this, we would predict very little change in the phonology of Bouyei in the near future.

REFERENCES


CHAPTER ELEVEN

SAEK REVISITED

Wilaiwan Khanittanan

Saek in Nakhon Phanom has been referred to by those who study it as a ‘displaced’ language. It shows basic features of the Northern branch of Tai, including many characteristic Northern lexical items, but is undergoing substantial contact-induced change from nearby Southwestern varieties. It is endangered (Boltz 1991; Wilaiwan Khanittanan 1976; Gedney 1970, 1993) but there are efforts to preserve it (see below). The purpose here is to follow up and briefly to update earlier more extensive descriptions of Saek (Gedney 1970, 1993; Wilaiwan Khanittanan 1976). The reader is referred to these studies for further detail and for diachronic discussion.

Earlier observations on Saek (Wilaiwan Khanittanan 1976) indicated that at that time there were many consonant and consonant cluster variations in the language. A prediction was made that under Siamese and Lao influence Saek would lose consonant clusters, the sound /r/ would merge with /l/ or /h/, and that /f/ would be added to the sound system. Thirty years have passed and the results of the present study show that some of the predictions have come true while others have not. For this study, the same list of 1300 words used in 1976 has been used to collect data. Ban Bawa was selected for the site of the update study, some 90 kilometers from Ban Atsamart of the first study. The main informant of this study is a 23-year-old male university student, in contrast to a 45-year-old female school teacher of the first study. Below is the comparison between Saek in 1976 (henceforth Saek 1) and Saek in 2006 (henceforth Saek 2).

The comparison in this study is limited to consonants as the most salient indicators of language contrast. Sets on Table 11-1 overleaf illustrate the initial consonants, final consonants, and consonant clusters of Saek 1 (Wilaiwan Khanittanan 1976) and of Saek 2.

/f/ is analyzed as a new sound in the system though it occurs only twice in the word list, as in /fii1/ ‘boil’ (noun) and /faay1/ ‘cotton’. Saek 1 has /phay4/ and /paay1/ respectively for these words. /f/ in /fii1/ contrasts with /vii4/ ‘fire’ and /vii6 gaw6/ ‘to fan’, as does /faay1/ with /vaay4/ ‘buffalo’. Besides many new words with the initial /f/ from Siamese have come into use, for example /fay6-fa4/ ‘electricity’ and /fa n6 phleen6/ ‘listen to a song’.

The voice velar stop /g/, which is not found in Lao and Siamese, is stable in Saek. Of the 50 words for which Saek 1 has /g/ as initial, Saek 2 has the same in 48 words. The two words for which Saek 2 has other initials are /keen1/ ‘arm’ and /kheep5/ ‘narrow’. The sound /g/ in both Saek 1 and Saek 2 corresponds to Proto-Tai voiceless fricative *x, unaspirated voiceless stop *k, and voiced fricative *y.
### TABLE 11-1: COMPARISON OF SAEK PHONEMES AS SPOKEN BY ONE SPEAKER IN 1976 AND ANOTHER IN 2006

<table>
<thead>
<tr>
<th>Saek 1</th>
<th>Saek 2</th>
</tr>
</thead>
</table>

#### (i) Initial consonants
- **b**
- **d**
- **g**
- **p**
- **t**
- **c**
- **k**
- **ph**
- **th**
- **kh**
- **m**
- **n**
- **ñ**
- **v**
- **s**
- **h**
- **l**
- **y**
- **r**

#### (ii) Final consonants:
- **-p**
- **-t**
- **-k**
- **-?**
- **-m**
- **-n**
- **-ŋ**
- **-w**
- **-y**
- **-l**

#### (iii) Consonant clusters:
- **bl-**
- **pl-**
- **tl-**
- **kw-**
- **pr-**
- **tr-**
- **phl-**
- **thl-**
- **khw-**
- **phr-**
- **thr-**
- **ml-**

#### (iv) Tones
- **Tone 1** rising
- **Tone 2** low
- **Tone 3** mid falling
- **Tone 4** high falling
- **Tone 5** high rising-falling
- **Tone 6** mid

---

<table>
<thead>
<tr>
<th>Li’s Proto-Tai</th>
<th>Saek List 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>xau C2</em></td>
<td>‘rice’ gaw²</td>
</tr>
<tr>
<td><em>kat D15</em></td>
<td>‘to bite’ gat⁴</td>
</tr>
<tr>
<td><em>yɔɔ A2</em></td>
<td>‘neck’ goɔɔ²</td>
</tr>
</tbody>
</table>
/r/ is a clear trill in both Saek 1 and Saek 2. Of the 88 words with the initial /r-/ in the word list in Saek 1, Saek 2 uses /r/ in 72 words. Of the 16 words which Saek 2 differs, four substitute /r/ with /l/. Some words have dropped out of use. Other items are replaced by Siamese or Lao words with different initials, in some cases etymologically distinct.

<table>
<thead>
<tr>
<th>Gloss</th>
<th>Saek 1</th>
<th>Saek 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>‘matter, affairs’</td>
<td>ruan⁵</td>
<td>luan⁴</td>
</tr>
<tr>
<td>‘to receive’</td>
<td>rap³</td>
<td>lap²</td>
</tr>
<tr>
<td>‘car’</td>
<td>rot²</td>
<td>lot²</td>
</tr>
<tr>
<td>‘school’</td>
<td>roon⁴-rian⁴</td>
<td>loon⁴-lian⁴</td>
</tr>
<tr>
<td>‘to tighten, to pull’</td>
<td>rat²</td>
<td>del¹</td>
</tr>
<tr>
<td>‘thread’</td>
<td>raay⁳</td>
<td>daay⁵</td>
</tr>
<tr>
<td>‘eczema’</td>
<td>reet²</td>
<td>hit⁴</td>
</tr>
<tr>
<td>‘underneath’</td>
<td>reek⁵</td>
<td>thaon⁴-tv⁴³</td>
</tr>
<tr>
<td>‘rim, edge’</td>
<td>rim⁴</td>
<td>khœp³</td>
</tr>
<tr>
<td>‘raw’</td>
<td>rip⁴</td>
<td>dip⁴</td>
</tr>
<tr>
<td>‘fast’</td>
<td>riw⁴</td>
<td>ñam⁴</td>
</tr>
<tr>
<td>‘place, land’</td>
<td>rii⁶</td>
<td>boo³</td>
</tr>
<tr>
<td>‘to remove’</td>
<td>ruk⁴</td>
<td>thuut²</td>
</tr>
<tr>
<td>‘mountain’</td>
<td>rœy¹</td>
<td>phuu⁴</td>
</tr>
<tr>
<td>‘to string’</td>
<td>rœy⁶</td>
<td>hœ⁶</td>
</tr>
<tr>
<td>‘personal pronoun for the third person’</td>
<td>raw²</td>
<td>(not in use)</td>
</tr>
</tbody>
</table>

Consonant clusters

Saek 2 does not have /ml-/ /kw-/, and /khw-/ clusters. Otherwise it has all other clusters that Saek 1 does. Some clusters are retained in only one or two words. /bl-/ is used only in the word in the corpus: /blêt⁴ ‘to modify a form’. The /ml-/ cluster is simplified to /m/, /kw-/ and /khw-/ become /kua/ and khua. This particular sound shift, characteristic also of Lao, has put an Isan or Northeastern touch on Saek. Examples:

<table>
<thead>
<tr>
<th></th>
<th>Saek 1</th>
<th>Saek 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>‘more’</td>
<td>kwaa²</td>
<td>kua⁴</td>
</tr>
<tr>
<td>‘mad’</td>
<td>kwaa³</td>
<td>kua³</td>
</tr>
<tr>
<td>‘scratch’</td>
<td>kwaaw⁴</td>
<td>kaw¹</td>
</tr>
<tr>
<td>‘to sell’</td>
<td>kwaay¹</td>
<td>kuay¹</td>
</tr>
<tr>
<td>‘to sweep’</td>
<td>kwaat⁶</td>
<td>kuat²</td>
</tr>
<tr>
<td>‘slippery’</td>
<td>mluun⁵-mluun⁵</td>
<td>muun⁵</td>
</tr>
<tr>
<td>‘meat’</td>
<td>mlœ³</td>
<td>mœ³</td>
</tr>
<tr>
<td>‘to open one’s eyes’</td>
<td>mlœn⁴</td>
<td>mœn⁴</td>
</tr>
</tbody>
</table>

Clusters with /-r-/ and /-l-/ are numerous in both Saek 1 and Saek 2. They are apparently used interchangeably in most words. Contrary to the /-ua-/ sound, these clusters mark Saek off from other Northeastern dialects.
Structurally Saek 1 and Saek 2 are very much alike. Saek 2, of the younger generation, shows more variation in all the sounds above. With new ways of life and new subjects to talk about it is natural for the younger generation of Saek speakers to be more open to the new vocabulary coming into the language. They have added the new sound /f/ to their language but they still retain the old Saek words such as /kuuk2/ ‘tiger’, /maa4/ ‘ghost’, and /ia5/ ‘finger’. In Ban Bawa, there has been a campaign to keep Saek alive and it has worked well. Precha Chaipanha, father of our main informant, is the head of this successful campaign. It appears that Saek is not going to be extinct in the near future.

REFERENCES


PART 3

TAI LANGUAGES:
SPECIAL TOPICS
FOUR-WORD ELABORATE EXPRESSIONS IN YUNNAN TAI LUE: A PAN-TAI CULTURAL TRAIT?

Amara Prasithratsint

12.1. INTRODUCTION

A four-word elaborate expression is an idiom that is composed of four monosyllabic words; thus, it is named a ‘four-syllable word’ or a ‘four-syllable compound’ by some linguists.

Examples of four-word elaborate expressions in Standard Thai are as follows:

(1) yûu dii kin dii
    stay good eat good
    ‘to be well-off’

(2) kin khâaw kin plaa
    eat rice eat fish
    to eat (rice)

(3) tham rây thây naa
    make farm plough rice paddy
    ‘to do rice-farming’

(4) yûu yen pen sûk
    stay cool stay happy
    ‘to live happily’

---

1 The earlier version of this paper was presented at the International Conference on Hua Yao Dai Culture of Upper Red River in Xin Ping County, Yunnan Province, People’s Republic of China, January 3-8, 2001. All the data on which this study is based was from Wu Ling Yun and his book while he was in Thailand in 1987. He often encouraged me to write a paper on this topic, but it took me very long to finish writing the paper as he wished. I am very grateful to him and dedicate this paper to him. I would also like to thank Dr Pranee Kullavanijaya, an expert in Tai linguistics, for her valuable advice and suggestions, which have helped me improve this paper.
Expressions shown above are labeled differently by different scholars. Haas (1964: xvii) named them ‘elaborate expressions’. According to her, such expressions are frequently based on compounds... and are expanded by repeating a part of the compound and adding a new part, by inserting a syllable for the sake of rhyme, or by inserting a syllable with some vague semantic relation to one of the original parts.

Karnchana Nacaskul (1976) in her paper entitled ‘Types of elaboration in some Southeast Asian Languages’ maintains that four-word expressions are a type of elaboration called ‘compound elaboration’, which is commonly found in Khmer and Thai. According to her, compound elaboration is derived from elaboration of various kinds; for instance, /kʰáw-ók-kʰáw-cay/ (enter-chest-enter-heart) ‘to understand’ is derived from /kʰáw/ ‘to enter’ + /ók cay/ (chest + heart) with the repetition of the word /kʰáw/. Such four-word expressions marked by repetition of some parts are labeled ‘reduplicatives’ (=/kham-sám/ in Thai) by Bandhumetha (1977, cited in Thongdaeng 1998: 18-20). As for those which do not have repetition but in which components have similar meanings, Bandhumetha labels them ‘doublets’ (=/kham-sɔn/ in Thai). Both reduplicatives and doublets which are composed of four monosyllabic words are called ‘four-syllable words’ in Bandhumetha 1984 (cited in Thongdaeng 1998: 20).
In addition to Thai, some other Tai languages are also found to have four-word expressions. Examples of such words in Debao Zhuang are given by Meng Wen Piao (1986, cited in Thongdaeng 1998: 25). Those in Tai Nuea, Tai Mao, and Dehong Tai are treated by Banchob Bhandhumetha (1985), Young (1985) and Wu Ling Yun (1990), respectively. Thongdaeng’s thesis (1998) shows a detailed analysis of ‘four-syllable words’ in Tai Mau. She defines a four-syllable word as a word formulated by arranging four syllables or four words successively; all the syllables are related phonologically or semantically. Functionally, the whole word is a single unit. She found four patterns of the structure of the four-syllable words in Tai Mau. They are as follows (ordered from the most frequently used to the least frequently used):

**Pattern 1: ABAC (The first and third syllables repeat each other.)**
Example: (11)  
\[ \text{paaj tin paaj mǐ} \]  
(end foot end hand) ‘easy’

**Pattern 2: ABCD (All four syllables are different.)**
Example: (12)  
\[ \text{kha\, t\, tsa\, sa\, v\, h} \]  
(obstruct heart put strength) ‘to try hard’

**Pattern 3: AABB (the second syllable repeats the first and the fourth repeats the third)**
Example: (13)  
\[ \text{h\, h\, la\, an la\, an} \]  
(long long long long) ‘long (time)’

**Pattern 4: ABCB (the second and fourth syllables repeat each other.)**
Example: (14)  
\[ \text{ka\, a\, aaj ma\, a\, aaj} \]  
(go easy come easy) ‘go easily’ (Thongdaeng 1998: 42-54)

In this study, I will analyze the structure of the four-word expressions in Tai Lue in the light of the previous studies on the same phenomenon in other Tai languages. I will also argue that syntactically, a four-word expression is a word, not a phrase or a clause.

**12.2. EXAMPLES OF FOUR-WORD EXPRESSIONS IN TAI LUE**

Four-word expressions are abundant in Tai Lue. The following are examples from the data. The gloss of each word and the meaning of the whole expression are provided for each example.

(15)  
\[ \text{pu\, hay\, dām\, nāa}^3 \]  
grow farm transplant rice paddy  
‘to do rice farming.’

---

2 All of these are cited in Thongdaeng (1998: 25-30)

3 Tai Lue has 6 tones. They are: 1. Mid (3-3), 2. High (4-4), 3. Falling (4-2), 4. Rising (2-4), 5. Low (1-1) and 6. Low-mid (2-1-3). In this paper the mid tone will not be marked. All the rest will be marked as follows: ‘for high,’ ‘for falling,’ ‘for rising,’ ‘for low,’ and ‘for low-mid.’
(16) pho sän me són
father command mother teach
‘to be taught by parents; to be well brought up’

(17) xañw náa páa thók
rice much fish cheap
‘to be abundant; to be fertile’

(18) fáa dét dáw dí
sky sunny star good
‘The weather is fine’

(19) páak dà́y waa pén
speak able say able
‘to be able to speak but unable to do’

(20) sì thók kháy fêŋ
buy cheap sell expensive
‘to cheat; to be dishonest’

(21) yu dí kíñ wáan
stay good eat sweet
‘to be well; to be well-off’

(22) dík dám kám kíñ
late at night dark night start
‘nightfall, to become dark’

(23) kíñ xañw kíñ nàm
eat rice eat water
‘to eat (rice)’

(24) tsîñ nàm tsîñ díñ
snatch away water snatch away soil
‘to take away land from others’
(25)  kìn yâ yìn lûŋ
eat big eat big
‘to be greedy’

(26)  sì nûk sì núu
buy bird buy mouse
‘to buy birds’

(27)  xáw káat xáw lî
enter market enter market
‘to go to a market’

(28)  mûn tðá tûn khô
burn heart burn neck
‘to be unhappy’

(29)  nûn sîp nûn sôw
money ten money twenty
‘little money’

(30)  wáa sôp wáa pâak
sweet lip sweet mouth
‘to speak nicely’

(31)  kâm fâa kâm dîn
hold up sky hold up earth
‘to be brave’

(32)  tûn dî tûn wáa
heart good heart sweet
‘to be kind-hearted’

(33)  hû tûñ tûa tûñ
ear bright eye bright
‘to be wise’
12.3. THE STRUCTURE OF THE FOUR-WORD EXPRESSIONS IN TAI LUE

The above examples show that the structure of the four-word expressions in Tai Lue exhibits five characteristics: 1) components: 4 monosyllabic words (ABCD); 2) reduplication: ABAC, ABCB, or AABB; 3) rhyme: ABB'D; 4) semantic parallelism. The four words can be split into two parallel sets of semantic units (AB–CD); and 5) Idiomatic meaning: The meaning of a four-word expression must be learned as a whole. These will be discussed below.

12.3.1. Components: A four-word expression is composed of four monosyllabic words

A four-word expression in Tai Lue is composed of four isolating or monosyllabic words, as can be seen in the examples above. There are some words in Tai Lue that are similar to a four-word expression in the pronunciation because they have four syllables, but they are composed of only two or three words. In this study I do not treat them as four-word expressions, as in the following examples.

(36) mano ho-tsay (2 words)
heart heart ‘heart’

(37) pi noy wo-sa (3 words)
elder sibling younger sibling relative ‘kin’

Also, it should be noted that the four words that are components in the four-word expression can be different or reduplicative. If they are different, the structure of the expression will be ABCD, following Thongdaeng’s analysis of Tai Mau (Thongdaeng 1998: 54). If they are reduplicative, the structure will be ABAC, ABCB, or AABB, as shown below.

12.3.2. Reduplication: A four-word expression may have reduplication

Most of the four-word expressions in Tai Lue have repetition of some components. Two patterns of repetition are found: 1) the first and third words repeat each other (ABAC) as in Examples (23)–(32); 2) the first and second words repeat each other, and the third and fourth repeat each other (AABB), as in Examples (34)–(35). It may be interesting to note that in Pattern ABAC, B and C or the second and third words are related semantically (See detail in 3.4) or derive from two-word compounds in the language. For example, in (25) /yay/ and /luen/ derive from a common compound /yay-luen/ meaning ‘big’. Also, /sa/ and /khak/ in (28) correspond to /tsay-khak/ ‘mood, disposition, character’, which is a common two-word compound in Tai Lue (and also in Standard Thai too).

Another pattern that has reduplication is ABCB, in which the second and fourth words repeat each other. This pattern is very rare. There is only one in the list of examples—Example No. 33 /hutsa tsay tsen/ (car-bright-eye-bright) ‘to be wise’.

As for the pattern AABB, each reduplicative pair is a two word compound; for example, /nayo noy yay yay/ in (35) is composed of two pairs of reduplicatives – /nayo-nayo/ ‘small’, and /yay-yay/ ‘big’.
12.3.3. Rhyme: In most four-word expressions, the second and third words rhyme or alliterate

As can be seen in Examples (17) and (22), the second and third words rhyme, forming the pattern ABB'C (the symbol ' signifies the rhyme). In (17) the words /náːa/ and /páːa/ rhyme. In Example (18), the second and third words alliterate, forming the pattern ABB"C (" signifies alliteration). Alliteration means the condition whereby two or more words have the same initial sound. The words /dét/ and /dáw/ begin with the same consonant sound. There is also alliteration between the second and fourth words – ABCB", for example in (26) and (29) – the words /nök/ and /núː/ alliterate, and so do /sip/ and /sǎw/.

12.3.4. Semantic parallelism: The four words can be split into two parallel sets of semantic units (AB~ CD)

In each four-word expression there are two semantic units: one unit is composed of the first and second words, and the other is composed of the third and fourth words – AB–CD. The two semantic units (AB and CD) are parallel (the sign ~ signifies parallelism); that is, the meaning of the first unit is the same, similar, opposite or somewhat related to that of the second unit. All the examples (15)–(35) show this characteristic. In (15), /pük hay/ ‘to do farming’ and /dám náːa/ ‘to do rice-farming’ parallel—both have similar meanings. In (16), /phó sàːn t/ ‘Father commands’ and /mɛː sɔːn t/ ‘Mother teaches’ are also parallel because the concepts ‘father’ and ‘mother’ contrast with each other. Both words normally form a compound meaning ‘parents’. The words for ‘command’ and ‘teach’ in Tai Lue (and also in Thai) have some features in common, such as implying power on the part of the performer of the action. Also, both words form a compound meaning ‘to teach and bring up somebody’. In (27), /xaw káːt/ and /xaw lì/ mean exactly the same (‘to go to a market’). The words /káːt/ and /lì/ are synonymous, both meaning ‘market’.

12.3.5. Idiomatic meaning: The meaning of a four-word expression must be learned as a whole

A four-word expression is an idiomatic word; i.e., its meaning must be interpreted as a whole. The whole meaning is not derived directly from the meanings of the four words put together. Even the denotative meaning is idiomatic; for example, the meaning of (26) (‘to buy birds’) is not predictable from the meanings of the four words put together (‘buy birds and mice’). Also, in (22), the meaning of the whole word (‘to eat rice) is not the same as the meanings of the fourth word (‘to eat rice and water’).

Most four-word expressions have figurative or metaphorical meanings. Almost all of the examples support this. For instance, in (30) /wàːn sɔp wàːn páːk/ ‘sweet lips’ means ‘to speak nicely’. Also, in (33) the denotative meaning is ‘to have good ears and bright eyes’ but the figurative meaning of this expression is ‘to be wise.’ Therefore, it is clear that a four-word expression is an idiom. Its meaning has to be learned as a whole through cultural transmission.

12.4. THE GRAMMATICAL STATUS OF FOUR-WORD EXPRESSIONS

I maintain that four-word expressions are words, not phrases or clauses for several reasons. First, the positions of the four parts cannot be shifted. For example, in (15) if we shift the parts and get /dám náːa pük hay/, which mean exactly the same (to do rice-farming’), instead of the original one–/pük hay dám náːa/, it would no longer be acceptable as a four-word expression. Second, none of the parts can be omitted; for example, if we change /hù tʃɛŋ tǎː tʃɛŋ/ (‘ear-bright-eye-bright’) ‘to be wise’ into /hù tʃɛŋ/, it would not be an expression any more, but would be interpreted as a clause meaning ‘the ears and the eyes are bright or clear.’ Therefore, it is clear that a four-word expression is an idiom. Its meaning has to be learned as a whole through cultural transmission.
expression any more. Lastly, a four-word expression is used as a single word, mostly as a verb. It can replace a single verb in a clause, as in the following examples in Thai:

(38) khāw ruay
he rich 'He is rich.'

(39) khāw yiu dii kin dii
he well-off 'He is well-off.'

As can be seen, /ruay/ and /yiu dii kin dii/ behave exactly the same syntactically. Both of them are the verbs of the two clauses.

12.5. CONCLUSION

In the preceding pages, I have shown the structure of the four-word expressions in Tai Lue. Concerning the components, a four-word expression is composed of four monosyllabic words. Phonologically, it is marked by repetition, rhyme and alliteration. Semantically, each four-word expression can be split into two parallel semantic units, and the whole meaning of the expression is idiomatic. I have also argued that syntactically, four-word expressions are words, not phrases or clauses.

The result of my analysis suggests that the structure of four-word expressions in Tai Lue is the same as that in Thai and other Tai languages. It seems very likely that the occurrence of four-word expressions is a common feature in Tai language and culture. Since four-word expressions are marked by characteristics of verse, idiomaticity, and redundancy, it is safe to say that Tai people value rhetoric ability, metaphor, and wordiness in their speech. These are characteristics of oral communication. Can we conclude that Tai society is more like an oral society than a literate society? Why is the use of four-word expressions persistent in Tai culture? The persistence is evident in Tai Lue, which has been in contact with Chinese for a long time but still maintains this feature, which is missing in Chinese. Can we say that it is an inherent feature in Tai culture or a Pan-Tai cultural trait? In order to make a definite conclusion about this, we need more evidence from more Tai languages.

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CHAPTER THIRTEEN

TAI AESTHETICS

Thomas John Hudak

The Tai family of languages and dialects extends across Southeast Asia from the island of Hainan in the east, through northern Vietnam, Laos, Thailand, Myanmar (Burma), and into Assam in the west, and from the Chinese provinces of Yunnan, Guizhou (Kweichow), and Guangxi (Kwanssi) in the north to the northern border of Malaysia in the south. Following Fang-kuei Li (1960), linguists generally divide this family into three main branches: the Northern (N), the Central (C), and the Southwestern (SW). Representative members include Bouyei (Pu-Yi), Saek, and Yay in the Northern Branch; Tày (Thô), Western Nung, the dialects at Lungming, Lungchow, and Wuming in the Central; and Thai (or Siamese), Lao, Shan, and Lue in the Southwestern.

Traditionally, literature, both oral and written, in these languages has been equated with poetry; and it has only been recently, primarily in Thai and Lao literature through western influence, that poetry has turned to the lyric and to expressions of social concern. Outside of Thailand and Laos, poetry is more often than not referred to as songs. And this more traditional poetry has been and remains the vehicle for myths, epics, princely accolades, courting songs, and didactic lessons, with the type of song (or poem) often recognized more by the content than by the melody. In addition to poetic topics and themes, these languages share a common aesthetic that is most clearly defined for Thai where poets and critics have viewed poetry from an analytical perspective. Highly esteemed and valued poetry is described as phay’só – sweet, melodious, musical, harmonious, worth listening to. Scholars talk about Thai poetry as resembling music (Mosel 1959: 28; 1961). Gedney (1989: 489) elaborates in greater detail when he claims, ‘the paramount importance of form [of poetry] is reminiscent of eighteenth-century Western music; in both cases, in Siamese poetry as well as, say, in minuets by Haydn and Mozart, one feels that the main purpose was not so much to produce something basically new and different as to exploit existing patterns in elegant and graceful ways’. Young (1985: 169) claims that Tai Mau Shan has ‘unique rhythmic and reduplicative techniques.’ Compton (1979; 1992) explores the techniques used to create the melodiousness found in the Lao mohlam. And in a less literary vein, the Thai cultural scholar Phya Anuman Rajadhon (1968: 77) discusses how new Thai compounds are created with musicality and melodiousness in mind: ‘... there is an unconscious selection of sounds. A word with a prominent or more musical sound is selected as the second of two words.’ Sound, and more precisely pleasing sound, is the common overriding aesthetic that pervades all of the Tai languages. To achieve this goal, one must select the appropriate word for the appropriate situation and topic; and at the same time select words that do not jar or disturb the ear (khat’huu).

13.1. LINGUISTIC TECHNIQUES FOR THE CREATION OF phay’só

Forms that contribute to the aesthetics of phay’só occur in everyday language; and when formalized, they constitute the requirements for poetic composition. When Phya Anuman talks about more musical sounds, he means sounds produced through alliteration and vocalic rhyme, two techniques highly exploited in everyday speech as well as in more formal poetic.

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1 Thai or Siamese, Southwestern Branch, has the following tonal system: 1 - mid level, 2 - low level, 3 - falling, 4 - high level, 5 - rising (Haas 1964).
compositions. A glance through any Tai language dictionary will reveal any number of compounds that are linked by either consonantal or vocalic rhyme:

- biaf\textsuperscript{6}bian\textsuperscript{1} – to crowd, Saek (N)
- hap\textsuperscript{4}haw\textsuperscript{1} – to bite into, close, Yay (N)
- ci\textsuperscript{4}ceen\textsuperscript{1} – to owe money, Lungming, (C)
- buk\textsuperscript{5}baŋ\textsuperscript{3} – tube, Western Nung, (C)
- caa\textsuperscript{6}maa\textsuperscript{6} – packhorse saddle, Lue (SW)
- dam\textsuperscript{6}nam\textsuperscript{6} – to dive into water, Thai (SW)

Many of these compounds result from what Haas (1942; 1946; 1964: xviii-xix) describes for Thai as reduplicative techniques that involve qualitative, quantitative, and tonal aspects of the lexical items. For example, in the creation of Thai compounds, front and back vowels may alternate. Thus, in yun\textsuperscript{5}yiŋ\textsuperscript{5} – to be confused, confusing, the back vowel [u] alternates with the front vowel [i]; in soo\textsuperscript{1}see\textsuperscript{1} – to stagger, the back vowel [o] alternates with the front vowel [e]; and in jɔs\textsuperscript{5}jëe\textsuperscript{1} – fussy or childish, the back vowel [B] alternates with the front vowel [e]. In addition, any vowel may alternate with [a]: chiŋ\textsuperscript{1}chan\textsuperscript{1} – to hate. Quantitative changes also occur, put\textsuperscript{4}puut\textsuperscript{4} – sound of car honking, as do tonal: krasi\textsuperscript{4}kraasaap\textsuperscript{4} – to whisper. Increasing evidence suggests that sound symbolism is closely related to these reduplicative techniques. In a study of vowels in modifiers and intensifiers found in the northeastern dialect of Thai (Northeastern Thai or Isaan), Theraphan (1979: 254) notes than rounded and unrounded back vowels [u o B] ‘... suggest a larger size or a higher degree of intensity’ whereas [i e a] ‘... suggest a smaller size or lower degree of intensity.’ Young (1985: 19) in her work with Tai Mau Shan records reduplicated or rhyming syllables that when combined with adjectives and intensifiers indicate good or bad connotations. Generally the vowels [i e a] induce pleasant associations and the vowels [u o aa] unpleasant ones: ̀bù\textsuperscript{4}n̄n̄ ̀yùn̄m̄ ̀yùn̄m̄ – soft with a good connotation and ̀bù\textsuperscript{4}n̄n̄ ̀yùn̄m̄ ̀yùn̄m̄ – soft with a bad connotation.\textsuperscript{3} Scovel (1975) in his study of Northern Thai (Chiengmai dialect), on the other hand, finds it difficult to substantiate the claim that sound symbolism exists.

Based upon compounding and reduplicative patterns and occurring throughout the Tai languages, as well as other unrelated languages in the region, are elaborate expressions. An elaborate expression is a four-syllable compound which has an idiomatic meaning. Expansion of the original compound or word occurs in a number of ways: by repeating a part of the compound, by inserting a syllable for rhyme, or by inserting a syllable that has some semantic relationship to one of the other syllables. When rhyme occurs, as it does frequently, it is between the second and third syllables. Examples include the following:

1. repetition of part of a compound, from Thai:

   nam\textsuperscript{6} taa\textsuperscript{6} nam\textsuperscript{6} huu\textsuperscript{5}

   water-eye-water-ear

   ‘tear’

\textsuperscript{2} Saek, Northern Branch, has the following tonal system: 1 - mid with a rise on the end, 2 - low level, 3 - mid-falling to low, 4 - high rising-falling, 5 - high-falling, 6 - mid with a slight fall (Hudak 1993).

Yay, Northern Branch, has the following system: 1 - level, slightly lower than mid, 2 - low level, 3 - rising, 4 - high level, 5 - falling, 6 - higher than mid with a slight rise toward the end (Hudak 1991a). The dialect of Lungming, Central Branch, has the following system: 1 - high level, 2 - high-rising, 3 - mid level, 4 - low-falling, from mid-low to low, 5 - low level, 6 - falling from mid-low to low and then rising to mid-low (Hudak 1991b). Western Nung, Central Branch, has the following system: 1 - low-rising, 2 - low-falling, 3 - mid-low, 4 - mid-high, 5 - mid-falling, 6 - falling (Hudak 1995). Lue, Southwestern Branch, has the following system: 1 - high level, 2 - low-rising, 3 - low level, 4 - low-falling, 5 - mid level, 6 - falling (Hudak 1996).

\textsuperscript{3} Tai Mau Shan, Southwestern Branch, has the following tonal system: 1 - high level, 2 - high-falling, 3 - mid level, 4 - mid-falling, 5 - low-rising, 6 - low level (Young 1985).
2. insertion of syllable for rhyme, from Yay:
\[\text{rak}^1 \text{ ma}^6 \text{ ka}^3 \text{ hun}^4\]
steal-horse-kill-people
‘expression for the worst crime’

3. insertion of syllable with semantic relation, from Saek:
\[\text{rim}^2 \text{ lua}^3 \text{ rim}^2 \text{ sɔ̣m}^4]\nfill-space below the house-fill-couplet with no meaning
‘to fill the space below the house’

Cushing (1914: 13) describes another variation of these expressions. In Shan, he finds what he calls ‘phonetic couplets’ in which meaningless syllables are joined to words for the euphonic sound they create. These added syllables usually have the same consonant and tone as the base word with only the vowels differing. While infrequent, the couplets are used by children or old women to express anger or to create an atmosphere of fun. In many cases used alone, these couplets also appear in elaborate expressions, as in the following:4

\[\text{shuk}^5 \text{ shi}^3 \text{ shuk}^5 \text{ shak}^5\]
confused-redundant syllable-confused-phonetic couplet
‘confused, disordered’

The base word in this expression is \text{shuk}^5 with \text{shak}^5 the meaningless syllable that forms the couplet. The complete expression is created by following the base word with a nonsense syllable consisting of the initial of the base word [sh] plus the high front vowel [i]; to this is added the full phonetic couplet (the base word plus the euphonic syllable). A slightly different variation occurs with \text{maak}^2 \text{ ke}^4 – tamarind. In this case, the first syllable is repeated with the phonetic couplet then added: \text{maak}^2 \text{ ke}^4 \text{ maak}^2 \text{ kaan}^4.

Since these expressions exist in large numbers throughout the Tai languages, as well as in other languages in the region, Gedney (1989: 536) has suggested that they are part of the language and that, regardless of their phonetic structure, they are not something that has been created for formal poetic composition by poets. Roffe (1975: 288) in the conclusion to his study of Lao four-syllable expressions summarizes their contribution to the production of \text{phay}^1r\text{ɔ̣}: ‘Without them the speaker or writer will make himself understood, but will prove to be rather dull and pedestrian. With them, he enthralls his audience with both lilt and light, making his message both meaningful and melodious.’

Proverbs, also common to the Tai languages, incorporate both rhyming and reduplicative techniques to create pleasing sounds. But added to these phonological techniques are parallel structures and similar or identical syllable number per line to create a cohesive and tightly structured unit. While the number of syllables per line varies, five is a fairly common number, probably because Tai phrases tend to fall into phonological and syntactic groups of five syllables. The number of lines per proverb also varies but in a large number of cases two lines predominate with the end syllable of the first line rhyming with either the second or third syllable of the following line, effectively creating a rhyming couplet, which as we will see later is a basic component in the creation of formal verse. The following Bouyei proverb (Snyder 1998: 69) has unequal lines of four and five syllables linked by the optional rhyming syllables (\text{diti}^1 and \text{pi}^1). The original spelling recently created and used in the proverb has been changed to a phonetic transcription to show the rhyme:5

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4 Shan, Southwestern Branch, has the following tonal system: 1 - rising, 2 - low level, 3 - mid level, 4 - high level, 5 - falling (Cushing 1914; Hudak 2000).

5 Other than Snyder’s and Hartmann’s all translations are mine. Bouyei, Northern Branch, has the following tonal system: 1 - low-rising, 2 - low-falling, 3 - mid level, 4 - high-falling, 5 - high-rising, 6 - high (Snyder 1998).
'It’s impossible to change a bad character. [lit., For a murderer to change, one must wait for the fifteenth year of the cat.]'

In the following Lue example from Muong Yong6 (Hudak 1996: 1344), the cohesion is even tighter with each line having five syllables and identical syntactic structures, linked with the rhyming pair law1 and kaw4:

\[
yaa^2 \text{pay}^4 \text{cok}^1 \text{huu}^1 \text{law}^4 \\
\text{don’t-go-take out-deep pit}
\]

\[
yaa^2 \text{pay}^4 \text{kaw}^4 \text{kun}^4 \text{bay}^3 \\
\text{don’t-go-talk to-person-stupid}
\]

‘Don’t dig deep pits.
Don’t go and talk to a stupid person.’

The following five-syllable Red Tai example7 (DeGeorge 1928: 912) exemplifies the use of alliteration as well as rhyme between the second and third syllable, the scheme typical to the elaborate expressions:

\[
kay^2 \text{say}^2 \text{Kay}^2 \text{katak}^1 \\
\text{chicken-lay egg-chicken-crow}
\]

‘It’s the chicken with eggs that crows.’

Comparable patterns of parallelism and rhyme can be found in puns (Manas 1972; Aporn 1973), limericks (Hudak 1996; 2001), riddles and tongue-twisters (Hudak 1996).

13.2. \textit{phay}^4 \textit{r̂}̂\textit{ph}^6 AND POETIC CONSTRAINTS

In poems and songs, the aesthetic-producing techniques used in everyday language to create interest and melodiousness have been formalized and over time canonized. Almost all of the Tai languages favor the five-syllable line so common to the proverbs. These lines are arranged in couplets with the end syllable of the first line rhyming with another syllable, usually the second, in the second line:

\[
\begin{align*}
O & O O O O O \\
O & O O O O O
\end{align*}
\]

---

6 Muong Yong Lue, Southwestern Branch, has the following tonal system: 1 - high-rising, 2 - low-rising, 3 - low level, 4 - mid, with slight rise and fall, 5 - mid level, 6 - falling (Hudak 1996).

7 DeGeorge’s transcription of the Red Tai tones was largely impressionistic. To indicate them, he used the symbols from Vietnamese orthography; hence they should be treated as approximate at best. Red Tai, Southwestern Branch, has the following tonal system: 1 - rising, 2 - low level, 3 - falling, 4 - mid level, 5 - low-rising, 6 - high level,
This syllabic couplet arrangement forms the most basic stanzaic pattern upon which longer poems are built. Thus a poem may consist of an unlimited number of couplets linked to one another by rhyme. Two syllables rhyme when they share the same final vowel or vowel plus consonant. Prior to the tonal changes that swept through the Tai languages, the two syllables also had to have the same tone in order to rhyme. While the five-syllable line is the ideal, a more common pattern is to show various lengths with the rhyme sometimes omitted. Both of these characteristics appear in the following selection from a Lue oral narrative (Hartmann 1992: 268):

```
say1 m
       B
     n1 nam6
       2
   aa
     ƾ

say1 m
       B
     n1 v
       İ
     in5
       İİ
   ƾ

say1 m
       B
     n1 v
       İ
     in5
       İİ
   ƾ
```

`clear-like-water-jar-glass`

`like-mirror-shine-eye`

`older sibling-come-investigate`

'As clear as water in a glass jar
Like a mirror shining into the eye
I have studied the story'

The Lue narrative is an example of oral literature that has been handed down from one generation to another. But the same characteristics that define these examples as literature also occur in pieces that are created extemporaneously. While doing fieldwork with the speakers of Western Nung, William J. Gedney asked for some sample texts. Having seen two older women sitting along side the road singing, he asked for them to sing their songs. The result was a 226 line song based on the five-syllable couplet. From the topics covered in the song, Gedney realized that much of it was created extemporaneously. And while parts of the song violated the requirements of syllable number and rhyme scheme, as in the Lue narrative, large sections of the song followed the requirements exactly as in these four lines (Hudak 1995: 787):

```
pan4 dew1 mat4 pii1 kaa2
be-one-is-year-past

lum4 cii2 chaa2 pii1 caay1
like-I-old-year before last

cuut4 cin1 nam6 too2 baw3
when-eat-water-with-water dipper

cha2 paak4 khaw1 too2 pen1
old-eat-rice-with-teapot
```

'It is the same as the year gone by,
I, formerly, in the year before last,
When I drank water from a dipper,
I ate rice with a teapot.'

For elaborations on this basic couplet arrangement, one must look to Thai and Laotian poetry. In both Thai and Lao there exist handbooks known as `chan’tha4lak4` which describe and prescribe each verse form in terms of the number of syllables required per line, the number of lines per stanza, and the required rhyme scheme. To each of these schematic descriptions is added an example that sometimes fulfills the requirements exactly and at other times only approaches fulfillment. In the `chan’tha4lak4`, there is a verse form known as `raay5 yaaw1`
which is identical to those described above for Lue and Western Nung and used throughout the Tai family. This meter consists of any number of syllables per line with the end syllable of that line usually rhyming with the second syllable of the next line; any number of lines can complete a stanza. Found throughout the Tai family, it probably can be regarded as the oldest and the original Tai verse form (Gedney 1989; Hudak 1990; Hartmann 1992). While line lengths in raay'y yaaw' are not set and tend to vary, the five-syllable length appears to be the underlying structure. In both Thai and Lao, other types of raay'y also occur. There has not been enough research on the oral literatures of the other Tai languages to see whether or not this may also be the case for them.

While the syllabic raay'y yaaw' with its end rhyme and occasional alliteration has remained the favored verse form of most of the Tai languages, Thai and Lao, by contrast, show a far richer development and elaboration of types and aesthetic techniques. Thai, for example, has five classical verse forms used for poetry composed before 1932: raay'y, khloo'y, kaap' borrowed from Cambodian, chan' borrowed from Pali, and kl'oo'n. The stanzas of these verse forms, with various numbers of lines per stanza, are all based upon the five-syllable line, with the borrowed forms modified to fit this syllabic constraint (Hudak 1990). At the same time, the rhyme schemes used for the stanzas fall into three general patterns, each dependent upon the number of lines in the stanza (Hudak 1986; see Apiluck 2001 for a slightly different interpretation). But what becomes apparent is the explosion of rhyming techniques. The rhyme as prescribed for the raay'y forms remains but another between the end syllables of two lines, termed external or outer rhyme (sam'phat' n oo k3), has been added to help define the various new stanzas. The following example from the eighteenth century Bun'noo'waat' kham' chan' shows both types of rhymes: hɔɔ̌ y3 y y4 represent the original rhyme scheme while ra' th1 da' th1 the new one:

bay' phoo' su'wan' hɔɔ̌ y3
leaf-Bo tree-gold-hang
ra'yaad' y.ɔɔ̌ y b.ɔ̌ run'raŋ'
pendant-hang loosely-not-ragged
lom' phai' kra'duŋ' dan'
wind-blow-bell-sound
sa'n.ɔ sap'tha' ɔn'la'weep'
melodious-sounds-agreeable to the ears

‘The leaves of the golden Bo hang down,
Loose pendants moving freely.
The wind blows sounding the bells
Making melodious and agreeable sounds’

Even more numerous are the alliterative and vocalic patterns, termed internal or inner rhyme (sam'phat' nay' ), that occur between syllables within a line. Rhyme can occur between two adjacent syllables, three adjacent syllables, four adjacent syllables, and two syllables with one or two intervening non-rhyming syllables (Hudak 1987). In addition, syllabic, phonological, and syntactic parallelism become increasingly important as components of verse. At the same time, variations in syntax, frequently employed to accommodate metrical requirements, remain common (Udom 1992). Compton (1979; 1992) and Koret (1995; 2000) outline and describe in depth comparable patterns for Lao.

All of the verse forms, as defined in Thai, have some requirements for tonal placement, with those for khloo'n, known as ɔek' thoo', the most complicated (Cooke 1980). Originally Thai had a three tone system with one group of words unmarked, a second with the tone marker known as may' ɔek', and the third with may' thoo'. In the original khloo'n, certain syllables required the first tone marker and others the second, which Gedney (1989: 499)
hypothesizes may have given the verses a lilting or rocking sensation. Composition of these verse forms when Thai had a three tone system was probably relatively easy, all based on the actual pronunciation of the words with no confusion as to which tone belonged where. However, after the tone splits had occurred in Thai, as well as in the other Tai languages, composition became more difficult. Because of merging of tones, each of the tone markers now represented two tones, not one – low and falling for *may⁴ eek⁵*, falling and high for *may⁴ thoo¹*. With this change, the poets had to decide whether to follow the actual pronunciation, which now offered choices, or to ignore it and follow the spelling. In modern Thai with its emphasis upon the written form, poets have focused on the spelling of the word rather than its actual pronunciation. Bickner (1991) provides a detailed and convincing argument for the development of *raay³* and *khloo¹* when Thai had a three tone system.

With the borrowing of *chan⁵* from Pali, the Thai poets were forced to redefine the syllable since the phonological concept of the Pali syllable differed from that of the Thai. The Pali *chan⁵* forms were based on two types of syllables, light and heavy, with syllable and word boundaries ignored in defining the syllable. Light syllables consisted of a short vowel followed by not more than one consonant. By contrast, a heavy syllable contained a long vowel or any vowel followed by two or more consonants. Once redefined, the Thai light syllable (*la⁴hu²*) consisted of a short vowel with no final consonant and the unwritten final glottal stop ignored; a heavy syllable (*kha⁴ru⁴*) terminated in a long vowel or any vowel plus a final consonant. This redefinition of the syllable conformed to the possible syllable types in Thai: CVC, CVVC, CCVC, CCVVC, and CCVV (with VV indicating a long vowel). By ignoring the unwritten glottal stop, the distinction between the two syllable types remained; otherwise all the syllables would be heavy. Of the 108 possible Pali meters, only eighteen were used by the poets, six for compositions prior to 1913 and twelve for those after 1913. Those finally chosen were probably selected because the light and heavy sequence closely fit the phonological structure of Thai (see Hudak 1985 and 1990 for a complete discussion.)

Even with the redefinition of the syllable, the poets encountered problems fulfilling the requirements if only because Thai syllables lack large numbers of light syllables, particularly in sequence. To remedy this situation, a number of unwritten conventions for reciting the meters were devised that altered the pronunciation of words. The results were twofold. First, an application of the conventions fulfilled the requirements demanded by the meter. Second, the techniques used to recite the meters contributed to the production of *phay¹r⁴* while at the same time created a more complicated and sophisticated meter. Sound remained important but what constituted an appropriate and melodious sound had expanded to include words that were no longer pronounced in the usual way. To meet the demands of the light and heavy syllable requirements more and more Indic loanwords were used. As a result, the *chan⁵* meters came to be regarded as difficult and erudite, meters understood and enjoyed only by the educated and the intelligentsia. There are six main conventions.

1) *syllable substitution and addition*. In Thai, Indic loanwords, which were heavily used in the *chan⁵* forms, generally have two forms, a shorter form which was the usual pronunciation and a longer form which was used as a combining form. Thus, *soŋ⁵*, the usual word for ‘monk’, would fulfill a heavy syllable sequence. However, if a heavy-light sequence was needed the longer alternant, *soŋ¹kha¹*, would be used.

2) *syllable breaking*. To obtain two light syllables a monosyllabic heavy syllable could be divided: *khot⁴* – ‘elephant’ could be rewritten as *kho⁴cha⁴*. In this case, the second syllable begins with [ch] because the final sound of *khot⁴* is spelled with the orthographic symbol for [ch] which is pronounced as [t] when in the final position.

3) *syllable crossover*. With this convention a word could be divided between two lines. For *khat²ti²ya⁴* – ‘king’, *khat-²*, a heavy syllable, ends the first line with *-ti²ya⁴*, two light syllables, beginning the second line.

4) *syncopation*. In this case, a short vowel usually pronounced is muted; *sa²deñ¹* becomes *sdeñ¹*, a light-heavy sequence becomes a single heavy syllable.
5) **vowel reduction.** In natural speech, unstressed long vowels in polysyllabic words are reduced to short vowels, although the reduced vowel may not be as short as a natural short vowel: *daa1 bot2* – ‘hermit’, which consists of two heavy syllables when the syllables are given equal stress, becomes *dābof*, a light-heavy sequence, when recited.

6) **alternate pronunciations.** A number of words have a variety of pronunciations, the choice dependent upon the metrical requirements: cave – *khuu1 ha**, khu’haa*; lion – *si*, *sih*.

While these conventions are most common in the *chan* meters, they can also be found in the other classical verse forms (Hudak 1992).

With the proliferation of verse types and rhyming techniques, poetry written in Thai, particularly in the nineteenth century, became more and more a showcase for sound, with *kl̄oon1* becoming the favored meter (Kuo 1980; Bofman 1984; Gedney 1997). Over time, sound has seemingly become more important than content. One genre still popular today, *kon1 la4 bot2*, gave strict emphasis to alliterative and vocalic patterns, resulting in a wide variety of tongue-twisters. In the 1940s, 1950s, and 1970s, the aesthetics of sound came under heavy criticism from poets and critics alike who claimed that this type of verse had no importance for the people. Content dealing with social concerns became paramount. But looking closely at much of this social realism, one can still find all of the techniques that were used to produce *phay1 rɔɔ*. Over time, this criticism subsided and poets once again consciously turned their attention to the production of melodious verse even though the content had changed. Today’s contemporary poetry, and even jingles used in advertising, continues to use these same techniques.

A final question concerns how far an analysis of *phay1 rɔɔ* can be taken. All of the techniques discussed above are used in the poetry. But what about patterns that are not formally recognized by the poets as in the following examples from the classic nineteenth century *kl̄oon1* narrative poem *R̄naw* (Hudak 1987):

1) *pra2 saam5 sian5 phian1 phin1 phaat3 kh̄oo4*

   unite-sound-as-orchestra-ring

   ‘[The bees] unite their sounds like the sounds of an orchestra.’

2) *sun4 meek3 mək3 mua3 mua3 thu3 tha4 tri1*

   which-clouds-mist-overcast-everywhere-earth

   ‘Gloomy clouds and mist covered the earth everywhere.’

In the first example, all but two of the syllables end in a nasal, the difference being in the point of articulation. This is an example of semi-consonance, which Mark and Li noted for the dialect found at Wuming. In the second example, *meek3* and *mək3* have the same initial and final consonants, which is para-rhyme. Neither of these two techniques is attested by the poets, but they do occur on a regular basis in all forms of poetry. Do these two techniques then and others such as semi-assonance and consonance, contribute to the aesthetics of *phay1 rɔɔ* or are they merely the result of a western-orientated poetic analysis? Speaking from a strictly Thai perspective, the author of the most respected *chan* *thə lak*, Phya Uppakit Silpasarn (1968: 353-54), maintains that these are not true examples of rhyme and should be avoided. Nevertheless, an examination of highly valued compositions (i.e., melodious), such as those by Rama II or Sunthorn Phu, reveals these techniques in great number whereas in less melodious pieces they are lacking.
13.3. CONCLUSION

Throughout the Tai family of languages, those who can use the language in creative and, most importantly, melodious ways are held in great esteem. These may be farmers and merchants who can use a clever turn of speech or professional poets and storytellers. For their production of pleasing speech, the farmer and merchant can look to the language they use on a daily basis with intensifiers; limericks; proverbs; elaborate expressions; puns and word play; and consonantal and vocalic rhyme found in compounds. The poets and professional storytellers can utilize the same techniques as well as those formalized and canonized into patterns to create an expressive and pleasing oral and written literature. In both cases, what is said is important. But how something is said may be even more significant. To make and carry a point, the language must be $\text{phay}1\text{r}\text{at}$.

REFERENCES


CHAPTER FOURTEEN

THE OLD ZHUANG SCRIPT

David Holm

The Chinese writing system reigned supreme throughout East Asia until the European incursions of the last two centuries. The Chinese character script was employed not only in China itself, and in Japan, but also in Korea and Vietnam. Korea and Vietnam have since gone their separate ways, but even now, the Chinese character script continues to be used by literati, poets, and religious practitioners to write Korean and Vietnamese. For minority peoples inside the Chinese empire and within this wider ambit – the Sinosphere, the Chinese script was for many centuries the only writing system available, and was widely regarded as one of the sources of Chinese power and prestige. The script itself is regarded as a national treasure and a source of spiritual power as well as cultural prestige.

‘Zhuang’ is the current designation for the largest Tai-speaking national minority living in the south of China, mainly in the province of Guangxi (currently designated the Guangxi Zhuang Autonomous Region), but also in contiguous provinces. The term includes a number of recognisable sub-groups, and includes speakers of both Northern Tai and Central Tai dialects. They are arguably indigenous to sub-tropical southern China, and are closely related linguistically and culturally to the Bouyei of Guizhou and to the Nùng, Thố and Tải in the northernmost part of Vietnam. They are also by far the largest minority in China, with a population of around 17 million. The Zhuang and their forebears have been in close contact with the Chinese state since the invasion of Chinese armies under Qin Shihuang in 219 BCE, a history of over two millennia. They remain today linguistically, ethnically, and culturally distinct from Han Chinese. How they have maintained this identity is a question of considerable interest. While ethnic conflict may be endemic elsewhere in the world, symbiosis as well as conflict has characterized inter-ethnic relations between the Zhuang and the Han, at least in recent centuries.

The Old Zhuang Script is a key instance of this symbiosis. Although there is a romanised script for the Zhuang language (called Zhuangwen 壮文), officially promoted by the People’s Government since the 1950’s, many literate people in Zhuang society continue to use a modified version of the Chinese character script for writing in the Zhuang language. Indeed, we have good evidence that they have done so since at least the Song dynasty a thousand years ago (Holm 2003: 39). This character script, called gu Zhuang zi 古壯字 (‘old Zhuang characters’) in Chinese and sawndip (‘uncooked script’) in Zhuang, is rather like the vernacular scripts used for writing southern dialects of Chinese, such as Cantonese, Hakka and Hokkien.¹ In the vernacular scripts of such dialects, most of the characters are the same as standard Chinese graphs, such as one would find in a Chinese dictionary, but dialect words which have no counterpart in Standard Chinese are written by making up new characters out of the same graphic elements, radicals, and phonetic graphs as are available in the graphic repertoire of the Chinese script. The ways in which new characters are composed follow mostly the same ‘rules’ of composition – the liu shu 六書, ‘six ways of writing’ – as found in the standard Chinese script.² Thus, for example (and most commonly), a semantic determinative (‘radical’), may be combined with a phonophoric element (‘phonetic’), a

¹ The script is called ndip ‘uncooked’ because it is unstandardised, and graphic renderings of Zhuang words are made in a ‘raw’, that is, unmediated and impromptu fashion. ‘Uncooked’ when applied to subject peoples of the Chinese empire also tended to mean ‘uncivilized’.

graphic element indicating the pronunciation of the word in question. Less commonly, the semantic meaning of a word is formed by the combination of graphic elements.

Characters in the Old Zhuang Script for the most part obey the same graphic rules, but the script differs from the vernacular dialect scripts because the language it represents is Tai rather than Han Chinese. This means that there is much less overlap with standard Chinese in both lexicon and phonology than is the case with Chinese dialects. This has a number of important consequences. Firstly, in terms of the lexicon: even though there are a good many Han Chinese loan-words in Zhuang, most of the words found in Zhuang are not cognate with those of Chinese, or at least are not recognized as such by those who use the script. The consequence is that for most words in the Zhuang lexicon, there is an initial choice between borrowing a Chinese character for its sound (a phonetic reading), and borrowing a Chinese character for its meaning (a semantic reading). Logically, of course, only in the case of recognisable Han Chinese loan-words is it possible to adopt a character for both its sound and its meaning at the same time. Then, as processes of secondary elaboration, semantic elements may be added to characters being read phonetically, in order to designate their semantic field; and phonophoric elements may be added to characters read semantically.

Secondly, in terms of phonology: while Zhuang, like Chinese, is in the main an isolating language in which morphemes (basic units of meaning) are monosyllabic, the repertoire of initial consonants, vowels, codas and tones is different. Most dialects of Zhuang tend to be less phonetically impoverished than Standard Chinese, at least, and some Zhuang initial consonants, vowels, and tonal contours are not found in Chinese at all. For Chinese characters borrowed for their sound (and read phonetically), then, the phonetic match between the original Chinese word and the Zhuang word is more or less approximate.

Unlike the Chinese script itself, which was standardised by the First Emperor of Qin over 2000 years ago and in principle is the same all over China, the Old Zhuang Script has never been subject to full-scale standardization at the hands of a centralised political authority. There is therefore a great deal of variation in the script, both from place to place and even from person to person. There is variation in terms of which Chinese characters have been borrowed to represent which Zhuang words, and in the ways in which Chinese characters used as phonetic signs are read in Zhuang. Thus, for instance, the common Chinese character er² 翹 ‘then, and; you, your’ is used to write as many as ten different morphemes (see Table 14-1 below). Not only are particular characters used to write more than one Zhuang morpheme, but the converse is also true: the same Zhuang morpheme can be written in more than one way, even in a single text. This is quite unlike written Chinese, where by and large (and at least in principle) there is a one-to-one correspondence between character graph and morpheme.

<table>
<thead>
<tr>
<th>Zhuangwen</th>
<th>IPA</th>
<th>gloss</th>
</tr>
</thead>
<tbody>
<tr>
<td>rox</td>
<td>yo⁴</td>
<td>‘to know’</td>
</tr>
<tr>
<td>rieg</td>
<td>yi:k⁸</td>
<td>‘to change (clothes)’</td>
</tr>
<tr>
<td>ra</td>
<td>ya¹</td>
<td>‘to look for’</td>
</tr>
<tr>
<td>raep</td>
<td>yep⁷</td>
<td>‘to plait (straw)’</td>
</tr>
<tr>
<td>raet</td>
<td>yet¹</td>
<td>‘mushroom’</td>
</tr>
<tr>
<td>roiz</td>
<td>yoi²</td>
<td>classifier for male human beings</td>
</tr>
<tr>
<td>rwz</td>
<td>yur²</td>
<td>‘ear’</td>
</tr>
<tr>
<td>lawz</td>
<td>ywu²</td>
<td>‘what’</td>
</tr>
</tbody>
</table>

3 The possible role of Zhuang local chieftains in promoting standardised scripts within their domains is a question that has yet to be investigated. On local chieftaincy in Guangxi during the Ming and Qing dynasties, see Jennifer Took (2005).

4 Indeed, cases can be found where the same word in Zhuang has been written with two different Chinese characters in successive lines of text. A number of instances are discussed in Holm (2003).
The old Zhuang script was commonly used as the main written medium for a variety of literary forms in the Zhuang language, including cosmogonic songs, ritual texts used by vernacular priests (mogong 梓公), ritual masters (shigong 師公), and Taoist priests (daogong 道公), song-texts used in the annual springtime ‘song markets’ and on other ceremonial occasions such as weddings and funerals, moral homilies in verse such as the Cienzyiengzgo 傳揚歌 (Song of Civilization), cheap novelettes and story-teller’s tales such as Dangzvuengz 唐皇 (Emperor of the Tang), and playscripts for the marionette theatre, ritual masters’ plays (shigongxi 師公戲), and Zhuang opera. These materials circulate in the form of manuscripts, rather than printed books (see Ouyang Ruoxiu 1986 vols.1–2 and Holm 2003: 182–6). They come from different strata in regional cultures: ritual texts often contain the oldest material, and circulate in a very limited fashion from masters to disciples; story-teller’s tales are often Zhuang adaptations of Chinese chapbook materials, and probably date mostly from the Qing and early Republican periods; while song-texts have much wider circulation in rural communities, and may in many cases represent first-generation transcription of what were originally orally-transmitted lyrics. Many of these materials are still in circulation today, though song markets have been transformed since the 1980s by the introduction of Canto-pop and lavish sponsorship by local and regional governments.

The high degree of variability in the Old Zhuang Script often makes it difficult to read. Zhuang speakers who are literate in Chinese can puzzle out the meaning of more popular texts and works of literature from their own dialect area. For older texts, such as ritual and cosmogonic texts, it is impossible to read the script without the assistance of the traditional owners of the manuscript. For vernacular priests, at least, the script serves as a mnemonic device for recitations and other forms of religious performance which include special religious vocabulary and archaic words and phrases. Like the texts themselves, the script is lineage property and is not intended to be read by outsiders.

Little is known for certain about the history of the Old Zhuang Script. Pre-modern Chinese sources confine themselves to short lists of non-standard characters and their meanings. Basic questions about the age of the script have to be pieced together from internal evidence and from indirect evidence on the cultural history and historical geography of the Zhuang in Guangxi (Holm 2003: 159–71). The internal evidence is abundant, but to analyze it requires a systematic approach that encompasses Chinese historical phonology, dialectology, and comparative and historical Tai phonology. To provide a firm basis for such analysis, the readings of texts written in the Old Zhuang Script have first to be established, and this is no easy matter, as I will explain below.

There are some signs that the Old Zhuang Script is finally attracting the attention of scholars internationally. Robert Bauer has written a preliminary study (2000), based on the readings given in the only published dictionary of the old Zhuang script, the Gu Zhuang zi zidian 古壯字字典 (Su Yongqin et al. 1989). A recent study of Zhuang identity politics (Kaup 2000) has mentioned the prevalence of the old Zhuang script in Zhuang society, and, by contrast, noted the resistance officials have encountered in propagating Zhuangwen, the official romanised script. In China itself, there have been a number of article-length studies devoted to the old Zhuang script in specific localities (see e.g. Zheng Yiqing 1988, and Huang Ge 1982), and more general overviews (e.g. Zhang Yuansheng 1990).

None of these studies so far has been based on a text corpus. Most have looked at relatively small samples of characters, and concentrated attention on examples of the more exotic non-standard Zhuang characters found in particular localities. Thus they have tended to overlook the much more basic question of how the script actually works. In fact, in any particular Zhuang text, standard Chinese characters outnumber the specially made-up Zhuang characters by a large margin, in some cases by a factor of at least 10 to 1. The Old Zhuang
Script dictionary, likewise, concentrates on the non-standard ‘invented’ characters, and is relatively poor as a guide to the readings of regular Chinese characters in Zhuang texts.5

14.1. METHODOLOGY

The elements of a more constructive approach to the old Zhuang script are already exemplified in the work of Li Fang-Kuei. In his *The Tai Dialect of Wu-ming* (1956), Li edited a number of song texts from his target area, Matou village in the eastern part of Wuming, transcribing the contents of song-books and providing transcriptions in the local lect, glosses in Chinese, translations in Chinese and English, and a concordance. The way forward to more substantial breakthroughs, and an appropriate methodology and set of protocols, can be developed on this basis. Over the last decade, I have edited two major corpuses of ritual texts belonging to vernacular priests (mogong) from two different localities, Donglan county in the northwest of Guangxi (Holm 2001a and 2003), and the area along the Tianyang-Bama border in the central-west (Holm 2004). I have also edited the text of a ritual play from eastern Bama performed at funerals by Taoist priests (2001b). In the course of this work I have developed a methodology for transcribing, glossing, translating and annotating traditional Zhuang texts, and for tracking the underlying morphemes where these have been obscured by processes of synonym substitution (very common in recitations of texts of the oldest stratum). The methodology (described fully in Holm 2003: 36–41) ensures a high degree of accuracy in the identification of Zhuang morphemes represented in the script, and thereby provides a base for the reliable collation of textual readings and comparisons between texts cross-regionally.

Briefly, this methodology involves recording complete recitations of manuscripts by their original owners or by others trained by the same master; lengthy and systematic interviews with them covering the semantic and pragmatic aspects of texts in performance; investigations of local Zhuang dialect and local history, including village and family history; comparisons with similar bodies of song and narrative song from other parts of Guangxi, Yunnan and Guizhou; comparisons of readings with pronunciations in Middle Chinese, Old Chinese, the *Pinghua* dialect (the dialect spoken by the older strata of Han Chinese settlers in Guangxi), Cantonese, and Southwestern Mandarin; and identification of Tai morphemes by reference to a growing body of lexical material on Zhuang and other Tai languages.6 Some priests know very little about the texts they recite, except how to recite them, and very few of them have the meta-linguistic skills needed to isolate and identify the meaning of individual words. The process of establishing a text (and investigating all possible variant readings) can be a lengthy one, involving a reiterative process.

This work is still in progress. In the rest of this chapter, I will present first a sample text, then some of our preliminary findings.

14.2. A SAMPLE TEXT

The following example comes from a manuscript from Laiman village in the south of Bama county, and is the opening passage from a mogong scripture on the creation of fire. The passage we will be examining here starts with the third column from the right, beginning with the characters 三盖:

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5 Also, and most unfortunately, it gives no information about the geographical provenance of any of its entries, designating characters found in areas other than Wuming county (the home of the standard Zhuang lect) simply as *fang fu* ‘dialect’.

6 Most notably Li Fang-Kuei’s researches on Lungchow (1940), Wuming (1956) and Po-ai (1988, 1990), and Thomas Hudak’s edited versions of William J. Gedney’s material for Yay (1991a), Lungming (1991b), and other languages.
Plate 1 Scripture on the creation of fire

The first eight lines may be translated into English as follows (see Holm 2004: 126):

The Three Realms were established by the Three Kings,
The Four Realms were created by the Four Kings.
In times of yore fire had not yet been created,
In times of yore fire had not yet been established.
People ate their meat raw like crows,
People ate their fish raw like otters.
People ate their grain in the ear like monkeys,
People ate their meat red like tigers.

The transcription into IPA in the interlinear glosses below represents the local pronunciation, while the lines below provide Standard Zhuang equivalents (in Zhuangwen) and glosses in English:

```
1 sam gaiq sam vuengz ciq
three realm three king establish

2 seiq gaiq seiq vuengz cauh
four realm four king create

3 ceuŋ kiŋŋ ciŋŋ cauŋ fiŋ
generation before not yet create fire
```
The following information is pertinent to these readings:

A number of typical phenomena are evident in this short passage:

* Readings of characters in northern Mandarin (also called Modern Standard Chinese or Putonghua) are irrelevant. They are given here for reference only.

* Readings that are most pertinent are those of Middle Chinese and Pinghua.

* Words like sam ‘three’, seiq ‘four’, and gak ‘horn; spikey’ (written here as 三, 四 and 角), which are found in all branches of the Tai family and are best deemed ‘common morphemes’ rather than Chinese loan words.

* Chinese loan-words written with a borrowed character that is homophonic in MC or Pinghua, such as 方 (for 方), 呈 (for 呈), and 至 (for 至).

* Zhuang morphemes written with Chinese characters homophonic in MC or Pinghua, e.g. 呈 and 呈.

* Zhuang graphs composed of a semantic determinative (radical) plus phonophoric element, e.g. 犭. The number of these graphs in this sample is higher than average because of the density of animal names. In one case, the phonophoric graph comes not from Chinese, but from a well-established Zhuang graph.
* Existing Chinese characters reinterpreted graphically as a radical plus phonetic, of which there is one instance, 亻.

* Close inspection of the manuscripts will confirm that there are quite a number of graphic variations of standard Chinese characters. Such variants are sometimes called 土俗字 tusuzi ‘local and vernacular characters’. While not found in modern Chinese printed material, they are commonly found in Chinese manuscripts, and are primarily a feature of the Chinese graphic tradition rather than a specifically Zhuang phenomenon. A number of the variants evident here – e.g. 徴 for 徵 – can be shown to date back to at least the Northern Wei period (386–534 CE).

* Zhuang morphemes can appear written with different characters in the same text, and even in successive lines. There are two instances of that here: 確 in line 3 for gonq is followed by 貫 in line 4; and 眼 for gwn ‘eat’ in line 6 is followed by 眼 in line 7.

* A number of words in this passage beginning with initial c- [c] are written with characters that were and are pronounced with alveolar or retroflexive affricate initials (ciq, cauh, ciuh, and caengz). Affricated stop initials are not found in the Bama-Tianyang lect or in standard Zhuang based on the dialect of Wuming; they are however found in other Zhuang dialects. Caengz ‘not yet’, for example, is pronounced with initial ts- in Hengxian and initial ts- in Liujiang, Rong’an, Longsheng, Laibin, Guigang, Lianshan, southern Yongning, Debao, Jingxi, and Wenzhou-Malipo (Zhang Junru et al., 807). 8

Phonetically, most Zhuang readings will be seen to be most closely aligned with Middle Chinese, with Pinghua, or with both. The reading of 鷹 as a for ‘crow’ and 貫 as baenz can be seen as closer to Pinghua readings. In other cases sound changes in Zhuang (Tai) seem to have run broadly parallel to sound changes in Chinese, as with feiz ‘fire’ and 徵.

14.3. RELATIVE FREQUENCY OF CHARACTER TYPES AND READINGS

When one examines a typical Zhuang manuscript, one's first impression is of a text written in standard Chinese characters. The proportion of made-up characters peculiar to Zhuang and not found in Han Chinese manuscripts is quite low, even if the presence of such characters is salient to readers literate in Chinese.

In order to test this impression, I have calculated the proportion of standard Chinese graphs to non-standard Zhuang characters for a number of ritual texts from Donglan and Bama. Each character in the text was classified as a character read phonetically, a character read semantically, as a Han loan-word, or as a common morpheme (a so-called guanxici 关系词, a word which, whatever its origins, has been part of a common Han-Tai lexical stock for so long that it is difficult to judge whether it is a Han borrowing into Tai or a Tai borrowing into Han), or as a Zhuang creation. 9 The texts chosen were two ritual texts from Donglan and two texts from the Tianyang-Bama border area. 10 The results are given in the following table:

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8 There is more than one source for affricate initials in Zhuang. See Zhang Junru (1983).
9 Such guanxici include words like gaeq ‘chicken’ (cf. 鷹 MSC ji1) and many of the numbers below ten. Such words are tallied in the table below as phonetic/semantic readings.
10 These were texts 1–2 in Killing a Buffalo for the Ancestors, a total of 152 + 466 = 618 lines, and texts 1 and 2 from Recalling Lost Souls, a total of 194 + 125 + 95 = 414 lines.
The impression of a preponderance of standard Chinese characters in Zhuang manuscripts is borne out by this survey. Only 3% of the graphs in the Donglan text, and 9% of the graphs in the Tianyang-Bama texts, were found to be sawndip. All the others – 97% and 91% respectively – were found to be either standard Chinese characters or vernacular characters in common use in Han Chinese manuscripts. The table also indicates that phonetic reading is by far the most common way of reading ordinary Chinese characters in Zhuang texts – at least texts of this type. Semantic readings of Chinese characters, such as reading 月 (MSC yue4 ‘moon’) as ndwen ‘moon’ or 里 (MSC li3 ‘inside’) as ndaw ‘inside’, account only for 2.4% and 4.2% respectively of the total. By contrast, the relatively high percentages of Chinese characters read as Han loan words and common morphemes will come as no surprise, given the long period of contact between the Zhuang and the Chinese state.

### 14.4. PHONETIC READINGS

In employing the Chinese script, phonetic correspondences with Zhuang morphosyllables are often only approximate. Indeed, correspondence can only be approximate, given that Chinese and Zhuang differ in their inventories of initial consonants, rhymes, and tones. Lacking entirely from Chinese are sounds like Zhuang initial r- (realized as [ɣ] in many areas), pre-glottalized initials [ʔb] and [ʔd], geminate consonant initials like pl- and ngv-, and high back vowels like [ŋ]. It is often assumed by Chinese scholars that approximate and partial correspondence (correspondence of initials only, or of finals only) is fairly common, and that the latitude is fairly wide. The inference that seems to be drawn is that phonetic correspondences are too idiosyncratic to be worth careful investigation. Thus correspondences between Chinese and Zhuang readings have not yet been worked out systematically. When this is done, we often find that the phonetic match is actually quite close.

What I have found thus far, briefly, is this: that Zhuang phonetic readings of Chinese characters often evince a range of different pronunciations reflecting the pronunciation of Chinese at different historical periods. While isolated readings reflect the pronunciation of modern Southwestern Mandarin, many more correspond quite closely to reconstructions of Early Middle Chinese – that is, the language of the Qieyun 切韻, a rhyme book completed in 621.

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11 An example of the latter would be the character 解 instead of the standard character 解 for MSC jie1 ‘to release’. Both of these have the semantic classifier ‘horn’ (角) on the left-hand side of the character, but the vernacular character has the graph for ‘sheep, goat’ (羊) on the right-hand side, rather than a graph for ‘knife’ (刀) over the graph for ‘cattle’ (牛). On the phenomenon of vernacular characters in Han Chinese texts, see especially Zhang Yongquan (1995).

12 The content of these texts was old non-Chinese material probably derived from orally-transmitted ‘ancient song’ (fwengeq). In ritual texts translated from Chinese originals, such as the Taoist-derived ‘Thirty-six Passes’ (Sanshiliu guan 三十六關) texts from Jingxi in the Melbourne collection, the proportion of semantic readings is much higher.
601 CE (see Baxter 1992: 35–8). For example, the character for ‘ant’ (蟻, pronounced yi³ in Modern Standard Chinese) is used in Zhuang texts from Bama and Tianyang to represent nyi ‘to hear’. The actual pronunciation of nyi, with a palatalized nasal initial and a short ‘a’ offglide after the central -i- vowel (niá), is very close phonetically to the Early Middle Chinese pronunciation of ‘ant’, niá (as reconstructed by Pulleyblank 1991: 367). Such examples abound (Holm 2001a, 2003, and 2004, passim). This might suggest a date for the early layers of the script to around the time of the Sui-Tang transition, if not earlier. This would be exciting enough in itself, but other readings can be shown to correspond more closely to reconstructions of Old Chinese, a still older layer (see especially Baxter 1992). One example will have to suffice: the character 贊, now read as guan⁴ in MSC, meaning ‘pass through; string of cash’, is frequently read as the common word gomq (ko⁵) ‘first, before’ in Zhuang texts. This reading corresponds closely to Old Chinese *kons, but less well to Middle Chinese kwanH (Baxter 1992: 761; cf. Pulleyblank 1991: 114), to say nothing of Southwestern Mandarin. What this seems to suggest is that Zhuang readings of Chinese characters might be used to check the validity of reconstructions of Middle Chinese and Old Chinese, just as other foreign-language borrowings have been so used.¹³

Such readings need to be checked against their pronunciations in Pinghua. We often find that Zhuang readings could equally well come from more recent reading pronunciations in Pinghua, and this means they do not necessarily represent older layers of borrowings. The word for ‘ant’ in the Pinghua of the Tianyang-Bama area is pronounced variously as (j)i¹³ (Tiandong) and ni¹³ (Bose); a majority of other locations in Guangxi also have the pronunciation ni or ñi (with various tonal contours).¹⁴ The Bose pronunciation is very close to the Zhuang pronunciation, both in initial ([n] and [ŋ] being very close in articulation and hard to distinguish), final rhyme, and in tonal contour (the Tianyang-Bama first tone having a 213 contour). There is therefore no need to assume that the reading nyi ‘to hear’ must have been borrowed from Middle Chinese. The close correspondence of the Zhuang reading with both MC and Pinghua, and the close correspondence of MC and the modern Pinghua reading, mean that the borrowing could have taken place at any time during the last 1400 years. The character 贊, on the other hand, has Pinghua readings like kun⁵⁴ (Tiandong and Bose), and kun (with various tonal contours) in most other places. Lingui near Guilin, which has koŋ³³, is one of the few exceptions.¹⁵ Lingui belongs to the oldest historical layer of Pinghua. In this case, there is a prima facie case for supposing that the Zhuang reading is quite old. Of course, in order to be fully convincing, we would need many more examples of this type.

Secondly, the script often reflects local dialect words and local pronunciations of standard Zhuang words. These reflections often serve as clues to the geographic provenance of texts, and also diachronically the movement of textual traditions. In some cases, characters used to render particular Zhuang words may have come from elsewhere, and may therefore correspond best to the pronunciation of the word in a different dialect or sub-dialect. For example, in the Donglan manuscripts the Zhuang word youq (jou⁵ or ju⁵) ‘to stay, be at’ is represented by the character ֖ which, as pronounced in any Chinese dialect, is a poor phonetic fit for youq (jou⁵ or ju⁵).¹⁷ However, in certain Bouyei dialects of Guizhou we find the morpheme ?ju’ is pronounced as ji’.¹⁶

¹³ On the evidence of Tibetan, Sino-Vietnamese, Sino-Korean, and Uighur inscriptions, see Hashimoto (1984), 63–139 and 190–206.
¹⁴ Li Lianjin (2000), 94, item 931.
¹⁵ Ibid. 236, item 2357.
¹⁶ See Donglan 1: 48 in Holm (2003), 79.
¹⁷ 係 is not included in Pulleyblank (1991). a closely related character, 系, is reconstructed as EMC ye⁴, LMC xīaj, and Early Mandarin xi (p. 332); see also Karlgren (1957) 876c. The Cantonese pronunciation for 系 is hnn², though this does not help very much either; nor do Pinghua readings (Li Lianjin 2000, 76, item 758).
county, Weng’an village), jie⁵ (Dushan county, Nanzhai village), or ju⁵ (Libo county, Chaoyang village). In Zhuang dialects the same word is pronounced as ju⁵ in the Liujiang-Yishan area, ji⁵ in Nandan, and ju² in Longsheng, all places near the Guizhou border. Any one of these pronunciations would be a much better phonetic fit than the local pronunciation in Donglan, which is ?ju⁵. In fact, in this case these indications are corroborated by what is known of the history of the priestly lineage. The Donglan manuscript tradition originated further to the north and east, in the Libo-Huanjiang area, and the use of  傾 for youq has been transported southwards along with that tradition.

Similarly, a character used to render a Zhuang word may occasionally provide evidence of diachronic sound change. For example, in a manuscript from Shanglin county in the central part of Guangxi, there is the line Μbwn miz fwnz raq daeuj gou lwg (‘In the sky there is a gust of wind coming, my child’), in which the word for ‘gust (of wind), bout (of illness)’ raq (ŋa⁵) is written with the character  迈 MSC jia¹, a character commonly used in Chinese for the transliteration of the Sanskrit syllables [ka] and [kâ]. Pulleyblank’s reconstruction of this character in Middle Chinese is kia (or kai) for EMC, and kia for LMC. The initial does not correspond well with the initial of this morpheme in most Northern Zhuang dialects, including Shanglin. By contrast, Jingxi and Debao in the far southwest of Guangxi have initial kh-, which is a much closer fit. Li Fang-Kuei constructs an initial *xr- for this item in Proto-Tai. While it is not entirely impossible that the text may incorporate graphic renderings borrowed from the Jingxi area, it is much more plausible in this case to suppose that  迈 represents an older pronunciation, now long since obsolete in the Shanglin area.

14.5. REGIONAL VARIATION

For all their obvious variability, most manuscripts tend to use only one (or at most two or three) characters for the most common words in the lexicon (words like ‘come’, ‘go’, ‘up’, ‘down’, etc.). Colleagues and I are currently engaged in a survey of regional variations in the 50 or so Zhuang-speaking counties of Guangxi and contiguous provinces. By mapping which characters are used for a core vocabulary (of, say, 60 commonly-used words), we expect to gain a preliminary idea of the likely degree of underlying similarity between the scripts of different areas. It will also be possible to develop a statistical measure for the relative age of the script in different areas, based on the age of individual borrowings among the core vocabulary items (Holm, forthcoming). For ritual and literary texts, a preliminary survey I have conducted suggests that historically there were several geographical areas where initial generation of the Old Zhuang Script took place. Also, it is interesting to note that Middle Chinese readings are found in considerable numbers in most Old Zhuang Script locations in Guangxi, while Southwestern Mandarin readings predominate in the old Bouyei scripts of Guizhou, the province to the north of Guangxi. This in turn suggests that the Old Zhuang Script in Guangxi is – at least in most places – considerably older than the Bouyei script.

14.6. ZHUANG CHARACTERS

When Chinese scholars say of the Old Zhuang Script that the composition of graphs conforms to liushu principles, this is usually understood in a very general sense. Namely, that (1) graphic components are arranged within a square matrix so as to form a ‘square character’

18 See Zhongguo kexueyuan Shaoshu minzu yuyan yanjiusuo (1959), 310.
19 Zhang Junru et al. (1999), 724.
20 ‘Ciengq Sunzngeih’ [The song of Shun as a boy], in Zhang Yuansheng et al. (1992), 291 (line 67b).
21 Also, initial r- is usually represented by Chinese characters with initial l- or j-.
23 Li Fang-Kuei (1977), 233-234. Haudricourt (1974: 467, 471) reconstructs the initial of this morpheme in proto-Daic as *sr-.
(fangkuazi 方块字), with graphic elements arranged in a balanced left-right and up-down fashion; (2) all of the graphic elements used are either Chinese characters themselves, or are elements found in Chinese characters; (3) graphic elements are used for their phonetic value or their semantic value, or both in some cases; (4) traditional Chinese radicals are used frequently as semantic determinatives, in preference to other graphs.

One of the earliest attempts to classify Zhuang characters on the basis of a corpus of texts was by Li Fang-Kuei (1957: 20–24). Li’s classification into ten types of graph is summarized in Holm (2003: 45–47). Li himself only made oblique reference to the liushu, labelling his third category xieshengzi 諧聲字 (‘graphs which harmonize the sound’). His categories 3–10 apply to sawndip. In his third category, phonetic compounds, he distinguishes between characters which employ a semantically borrowed character for their semantic element (e.g.  işle for ok ‘to emerge, come or go out’) those which indicate the general semantic field by means of one of the traditional 214 radicals, and those which employ the mouth radical to indicate that the other component is to be read phonetically.

The characters in a number of Li’s categories can be considered to be in conformity with the liushu only in the broadest possible sense. From a Chinese point of view, a double-phonetic character such as 島 san (fan1) ‘white rice (already pounded)’ may appear to have 岳 ‘mountain’ as a radical (semantic determinative); a double-semantic character such as 估 gaeuj (kau4) ‘to look’ may appear to have 目 ‘eye’ as a radical, but in fact, as Li’s analysis makes clear, a different mechanism is in operation. In other cases meaning and word identification is indicated by purely graphic means. In û ndwi (ndwi1) ‘not; empty’, the meaning is derived from a host character 有 ‘to have, to exist’ by removal of two horizontal strokes.24 The character mbengj (mban1) ‘side’ is produced by removing one side from the common graph 門 men2 ‘door’ (Li p.23). Li calls such characters biaoyizi 表意字 ‘graphs which exteriorise the meaning’. The two examples given are subtractive; that is, they involve the elimination of brushstrokes or graphic elements.

In other cases I have discovered, meaning is generated by an innovative reinterpretation of graphic elements. For example, in a text from Bama, the character Ɨ is used to represent the Zhuang word canz (ca2n2) ‘drying platform’ (Holm and Meng, forthcoming, line 1502). This character is composed of three symmetrically arranged 正 graphs, the meaning of 正 zheng being ‘straight, upright; correct’. None of these elements either alone or in combination is phonophoric. Rather, the three characters represent graphically the way in which firewood is stacked neatly under the drying platform of Zhuang farmhouses, and hence (metonymically) represent the drying platform itself. In Chinese, by contrast, the character script continues to exhibit this kind of graphic creativity only within the context of folk poetry, Taoist-inspired word games, and riddles based on the graphic composition of characters.

14.7. CONCLUSION

Zhuang texts exhibit a pattern of combined phonetic and semantic readings of standard Chinese characters, with special Zhuang characters occupying an important but largely supplementary role. The creation of new characters follows liushu principles, but not exclusively. Each graph, representing a monosyllabic morpheme in Chinese, is also used in Zhuang to represent a single monosyllabic morpheme. Literacy in the Old Zhuang Script is heavily dependent on literacy in Chinese.

Phonetically, representation of Zhuang morphosyllables is often approximate, but investigation will often indicate that the phonetic match at the point of borrowing is much closer than has often been supposed. By and large, readings correspond most frequently to Pinghua and Middle Chinese readings of Chinese characters, and much less frequently to Southwestern Mandarin pronunciation. While it is not always possible to distinguish between

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24 This character is found in Pinghua as well as in Cantonese. For the latter, see Cheung and Bauer (2002).
Pinghua and the reconstructed pronunciation of Middle Chinese, Zhuang readings of Chinese characters occasionally provide evidence of even older strata of borrowings.

Graphically, the script shows signs of close integration with the Chinese world of signs, but also shows signs of innovation.

Historically, it is likely that the Chinese script has always had the capacity to represent languages other than Chinese, and the development of the Old Zhuang Script may have begun very early in the contact period. Given the likely age of the Old Zhuang Script, it is not unlikely that the remote ancestors of the Thai and Lao used a character script like the Old Zhuang Script during the period before they migrated southwards.

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PART 4

GRAMMATICALIZATION
AND HISTORICAL SYNTAX
CHAPTER FIFTEEN

AN ETYMOLOGICAL SPECULATION ON THE SEQUENTIAL INDICATOR $k\ddot{o}t$ IN THAI NARRATIVE

Somsonge Burusphat *

15.1. INTRODUCTION

This paper aims to study a selected discourse feature in Southeast Asian narrative and its areal diffusion to determine its source. This feature serves as a sequential indicator highlighting a chronological theme-line or storyline of the narrative. The focus will be on the preverbal auxiliary $k\ddot{o}t$ in Thai narrative in comparison with the preverbal auxiliaries of other Southeast Asian languages having the same function in order to determine the historical implication of $k\ddot{o}t$.

The data are drawn from various documents such as theses, articles, and books. Some data, i.e. Black Tai, Kam, Sgaw Karen, and Kui are collected by the author. The total number of Southeast Asian narratives used for this study is 23. All these narratives are compared as to forms of the preverbal auxiliary functioning as the sequential indicator. The preverbal auxiliary may be truly absent in particular languages or it may exist in the languages but does not appear in the data due to the shortness of the narratives or the style of the narrator.

15.2. SEQUENTIALITY AS A SIGNIFICANT FEATURE OF NARRATIVE DISCOURSE

Longacre (1996: 8-9) classifies all possible discourses in all languages according to two basic etic parameters: contingent temporal succession and agent orientation. Both parameters are defined as follows:

Contingent temporal succession (henceforth contingent succession) refers to a framework of temporal succession in which some (often most) of the events or doings are contingent on previous events or doings. Agent orientation refers to orientation towards agents with at least a partial identity of agent reference running through the discourse.

Narrative discourse is plus in respect to both parameters. This study will focus on the concept of contingent succession or more concretely chronological linkage as characteristic of Southeast Asian narrative. The event-series which are reported in chronological succession in the narrative constitute the main line or storyline of the narrative. The storyline is a generic term to include any happenings that push the story forward. The important characteristics of these happenings are punctuality, sequentiality, and (most often) volition (Longacre 1990). Punctiliar happenings include actions and events that are well articulated as to inception, terminus, or both. The sequential happenings involve the regular chronological succession of actions and events; volitional happenings are actions or events that are conscious or planned.

* I would like to extend my thanks to Prof. Anthony Diller for editing the final draft of this paper and Megan Sinnott for editing the first draft of the paper. I also thank Sophana Srichampa for providing me with useful information on the sequential indicator in Vietnamese.
Longacre (1996) asserts that each surface type of discourse has characteristic tense/aspect/voice features in the verbs that occur on its mainline in discourse in a particular language. Hence narrative (story) discourse has some sort of nondurative preterit, or historical present. In languages with tense-aspect systems such as English, successive actions and events which advance the story are reported in simple past tense forms. The Southeast Asian languages examined in this paper do not have verbal inflection and therefore the storyline cannot be characterized on the basis of verb forms as in English. The storyline in these languages is realized by a conspiracy of various devices, that is, the use of aspectual auxiliaries to mark the completeness of actions or events; the use of temporal auxiliaries, expressions, or adverbial clauses to indicate the temporal succession of actions and events; and simple juxtaposition of chronological successive clauses in iconic order, i.e. prior clauses referring to prior actions or events in a reported event sequence.

The major concern of this chapter is the preverbal temporal auxiliary which marks the chronological succession of actions and events. The languages of the Southeast Asia area use this sequential indicator characterized by various forms to move the story forward as illustrated in languages of various language families below.

15.2.1. Austroasiatic language family

Vietnamese: thì ‘then’

(1) Ngôô ôi em vao nhaô tröôuc chaøng vöoa bôôuc
  person younger brother comein house first 3rd per just step

chaën qua ngööngcöœa thì ngöôøi chödaäu ôœ trong buoàng
  foot across doorstep then person sister-in-law at in room

chaïy ra laàm chaøng laô choâng mình voäï oâmchaàm laáy
  run out mistake 3rd per be husband oneself hurry embrace take

‘The younger brother entered the house first. When he had just walked pass the doorstep, his sister-in-law came out. She thought that he was the elder brother then embraced him with sudden haste.’ (Suksiri ms)

Kammu: koo ‘then’

(2) lee koo dëe koo yôh yaam, sat, pë koo
  and then also then go cry, animal, goat then

yôh yaam taam pasaa pë ni le:
  go cry follow language goat that perf:

‘And then other animals as well came to bewail him. The goat wailed in the goat language: …’ (Lindell 1989: 32)

So: ka: ‘then’

(3) mi: l:a:t muay ci:yay wak an ba:r to: ka: pia
  have exist one day group 3psg two CLSF_body then invite

ra:nv p: cu:a:y ne:w cia nuøy tru:ŋ ki:
  together go search something eat in forest there
‘It happened one day, the two of them invited each other to go searching for something to eat in the forest.’ (Migliazza 1998: 191)

15.2.2. Tai-Kadai Language Family

Southwestern Tai

Khün: \textit{k\textasciitilde{\textalpha}}\textcircled{3} ‘then’

(4) \textit{pho\textasciitilde{\textalpha} man\textasciitilde{\textalpha}} \textit{k\textcirci} \textcircled{3} \textit{khaw\textasciitilde{\textalpha}} \textit{paj\textasciitilde{\textalpha}} \textit{naj\textasciitilde{\textalpha} we\textasciitilde{\textalpha}} \textit{paj\textasciitilde{\textalpha}} \textit{ha\textasciitilde{\textalpha}} \textit{sw\textasciitilde{\textalpha}} \textit{khaw\textasciitilde{\textalpha}} \textit{sa\textasciitilde{\textalpha} n\textasciitilde{\textalpha}}

father then enter go in town go find buy milled rice

‘One day the husband went into town to buy some milled rice.’ (Rasi 1978: 118)

Northern Tai

Zhuang: \textit{cou\textasciitilde{\textalpha}} ‘then’

(5) \textit{kjo\textasciitilde{\textalpha} vun\textasciitilde{\textalpha}} \textit{cou\textasciitilde{\textalpha}} \textit{pai\textasciitilde{\textalpha}} \textit{heu\textasciitilde{\textalpha}} \textit{ma\textasciitilde{\textalpha}} \textit{pa\textasciitilde{\textalpha}} ‘

CLS man then go call he come help

‘So people turned to the almighty god Pauloktau for help.’ (Somsonge and Sinnott 1998: 182)

Kam: \textit{cu\textasciitilde{\textalpha}} \textasciitilde{\textalpha} ‘then’

(6) \textit{ja\textasciitilde{\textalpha}} \textasciitilde{\textalpha} \textit{mau\textasciitilde{\textalpha}} \textit{cu\textasciitilde{\textalpha}} \textit{lay\textasciitilde{\textalpha}} \textit{ju\textasciitilde{\textalpha}} \textit{ta\textasciitilde{\textalpha}} \textit{ma\textasciitilde{\textalpha}} \textit{na\textasciitilde{\textalpha}} \textit{pai\textasciitilde{\textalpha}} \textit{ju\textasciitilde{\textalpha}} \textit{qe\textasciitilde{\textalpha}}

two he/she then at once again from two side river go two CLS

‘They went separately to the banks of the river.’ (Somsonge and Sinnott 1998: 152)

Hlai (Li): \textit{fan\textasciitilde{\textalpha}} ‘then’

(7) \textit{lu\textasciitilde{\textalpha} k\textasciitilde{\textalpha}} \textit{khau\textasciitilde{\textalpha}} \textit{fan\textasciitilde{\textalpha}} \textit{tsau\textasciitilde{\textalpha}} \textit{\textasciitilde{\textalpha}} \textit{e\textasciitilde{\textalpha}} \textit{ko\textasciitilde{\textalpha}} \textit{tha\textasciitilde{\textalpha}} \textit{ku\textasciitilde{\textalpha}} \textit{je\textasciitilde{\textalpha}}

elder sister then put down jar food to have a look

‘The elder sister then put down the jar of food for her brother to take a look.’ (Somsonge and Sinnott 1998: 94)

15.2.3. Sino-Tibetan language family

Chinese: \textit{jiu} ‘then’

(8) \textit{ta bu you fenshuo, jiu jiao ren ba neige tuhao}

he not let explain, then order person ba That local-thug

\textit{tuhao tuidao shui li.}

\textit{local-thug push -into water inside}

‘Accepting no further explanation [from the thug], he immediately ordered to have him pushed into the water.’ (Chauncey 1998: 384)

Moken: \textit{ka\textasciitilde{\textalpha}} ‘particle’

(9) \textit{pe\textasciitilde{\textalpha}} \textit{ju\textasciitilde{\textalpha}} \textit{pa\textasciitilde{\textalpha}} \textit{ka\textasciitilde{\textalpha}} \textit{meta\textasciitilde{\textalpha}} \textit{\textasciitilde{\textalpha}} \textit{\textasciitilde{\textalpha}} \textit{enpa\textasciitilde{\textalpha}} \textit{pa\textasciitilde{\textalpha}} \textit{ka\textasciitilde{\textalpha}} \textit{lakaw \textasciitilde{\textalpha}}

turn that she par. ask for with mother she she go with

\textit{buja\textasciitilde{\textalpha}} \textit{ju\textasciitilde{\textalpha}} \textit{la:}

"An etymological speculation on k\textasciitilde{\textalpha}\textasciitilde{\textalpha} in Thai narrative"
young man that par.
‘Therefore, she asked for mother to go with the young man.’ (Veena 1980: 278)

Mien: ?eŋphon topic marker
(10) \(\text{ta}^{2}\text{je}^{2} \text{nín}^{3} \text{eŋ}^{4} \text{dzuvn}^{6}\)
second day he topic marker return
‘The next day he then returned.’ (Kasamaporn 1990: 147)

The sequential indicators in the illustrated clauses mark the storyline status of the clauses. However, not all the storyline clauses are flagged with these sequential indicators since there are other devices used to mark the storyline as well. The choice of each device or a combination of devices is varied according to the strands of discourse information. Some languages may use a particular device to distinguish the more important happenings in the storyline from the lesser, routine, and somewhat predictable happenings. For example, in Sui narrative the more important happenings are reported in clauses, which are marked with the temporal word \(\text{lan}^{2}\) ‘after that.’ Furthermore, a device may be chosen depending on the style of the narrator.

In Thai narrative the preserial auxiliary \(k\text{ən}^{3}\) is of considerable importance. It has multiple functions as described by Yajai (1985). However the major concern of its functions here is as a sequential indicator. The great majority of storyline clauses in Thai narrative are introduced by \(k\text{ən}^{3}\) functioning to introduce a new sequence of actions and events. Functioning as a sequential indicator it is usually glossed as ‘link, then, or particle’. The preserial verb \(k\text{ən}^{3}\) will be compared with other sequential indicators of Southeast Asian languages having the same function in order to determine its source.

15.3. COMPARISON OF THE SEQUENTIAL INDICATORS IN SOUTHEAST ASIAN LANGUAGES

The pre-verbal auxiliary functioning as the sequential indicator in the same manner as \(k\text{ən}^{3}\) in Thai is realized by various forms in the Southeast Asian languages as listed below with sources and locations. Some languages may not have the pre-verbal auxiliary as a sequential indicator or the pre-verbal auxiliary does exist but it does not appear in the texts used for this study. Thus the X mark will be used to indicate the absence of this form in the languages. The Southeast Asian languages illustrated below are grouped by language family as follows:

15.3.1. Austroasiatic language family

Diffloth (1976) classifies the languages of the Austroasiatic language family into two main branches, namely, the Munda and Nicobarese of India and Mon-Khmer of the Southeast Asian mainland. The Mon-Khmer branch is divided into Northern Mon-Khmer, Eastern Mon-Khmer, and Southern Mon-Khmer. Vietnamese, Kammu and Pray are used as representatives for the Northern Mon-Khmer sub-branch; Khmer, Northern Khmer, So, and Kui for the Eastern Mon-Khmer sub-branch; and Mon and Chaobon (jaahkur) for the Southern Mon-Khmer sub-branch.
15.3.2. Tai-Kadai language family

Edmondson and Solnit (1998) classify the Tai-Kadai or Kadai language family into three main branches, i.e., Hlai (Li), Kam-Tai, and Gelao. The Hlai language is used for comparison in this study. The Kam-Tai branch is further divided into Tai and Kam-Sui. Li (1960) proposes three sub-branches of the Tai group, i.e., Southwestern Tai, Central Tai, and Northern Tai. Thai, Lao, Thai Song Dam (Black Thai), Tai Dam (Black Tai), Phuan, Dai (Tai Lue), Khün, and Ai-ton represent the Southwestern Tai. Northern Zhuang and Bouyei are representatives for the Northern Tai. There are no data from the Central Tai. Kam and Sui represent the Kam-Sui branch.

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1 Somkiet (1982) treats ka? in the Northern Khmer language as a lexical linker frequently co-occurring with neeh as neeh ka? glossed as ‘then.’
2 Thai Song Dam or Black Thai and Tai Dam or Black Tai are originally the same ethnic group. The former whose data are drawn reside in Suphanburi, Thailand whereas the latter live in Dien Bien Phu, Vietnam.
3 The Tai Dam (Black Tai) narrative was collected at Dien Bien Phu, Vietnam in May 2000 by the author.
15.3.3. Sino-Tibetan language family

Benedict (1972) classifies the Sino-Tibetan language family into two major groups, i.e. Tibeto-Karen and Chinese. Mandarin Chinese is used as a representative of the Chinese branch. The Tibeto-Karen is sub-divided into Tibeto-Burman and Karen groups. Burmese and Lawa represent the Tibeto-Burman group. Sgaw Karen and Tavoyan Sgaw Karen represent the Karen group.

15.3.4. Austronesian language family

Moken, Urak Lawoi’ and Malay are used as representatives of the Austronesian language family.

15.3.5. Hmong-Mien language family

The list of grammatical forms of the sequential indicator above shows that in the Austroasiatic language family, Kammu and Pray of the Northern Mon-Khmer group; Khmer, Northern Khmer, So and Kui of the Eastern Mon-Khmer group; and Chaobon (jahkur) of the Southern Mon-Khmer group share similar forms to $k_3$ in Thai. This form does not show in Vietnamese of the Viet-Muong sub-group of the Northern Mon-Khmer and in Mon of the Southern Mon-Khmer branch.

All the languages of the Southwestern group of the Tai-Kadai language family have cognates of $k_3$. The Northern Tai group has forms which are different from $k_3$. Most

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4 The Burmese data is based on the Burmese folktale entitled ‘The crow that wanted to be beautiful’ transcribed into phonetic symbols and translated into English for the purpose of this study by May Myat Khaiing and Sarinya Khammuang.
forms are similar to Chinese *jiu*. This indicates that the languages of this group have had an influence from Chinese. The sequential indicator of any form does not exist in Sui. However this does not mean that Sui does not have it. The absence of this form may be due to the shortness of the texts used for the analysis.

The cognates of *kɔɔɔ* do not appear in the Sino-Tibetan language family. Some languages of this family do not use the preverbal auxiliary as a sequential indicator but use other means to express the sequentiality of the events. For example, the Sgaw Karen uses the post-verbal aspectual auxiliaries *we* to report events.

In the Austronesian language family, the Moken has the cognate of *kɔɔɔ*. Since Moken has some Mon-Khmer affinities, it must have some link with the Mon-Khmer. Luce and Bohmu Ba Shin (1961) mention the history of Moken as sea people under constant pressure on the Tongkin plain from East and North where the original homeland of Malayan peoples was. Perhaps under double pressure between the Yüeh (Việt) of Kuangtung and the Mon-Khmer of Tongkin, they migrated to the South along the coast ranging from Tongkin to the mouth of the Irrawaddy. During the interpersonal contact with Khmer in their original homeland, the Moken might have adopted some linguistic features such as the sequential indicator *ka*.

Green Hmong and Mien languages have the preverbal auxiliaries *le* and *?e?q* respectively instead of the cognate *kɔɔɔ*.

15.4. THE SEQUENTIAL INDICATOR *kɔɔɔ* AS AN AREAL FEATURE

Henderson (1965) lists a number of phonetic features which are typologically characteristics of the Southeast Asian area. In Southeast Asia there are areal features that language families share. Emeneau (1980) gives an example of area features in Southeast Asia. The ‘attenuation’ in Thai is carried by simple reduplication; e.g. *kâw* ‘old (of things),’ *kâw kâw* ‘oldish’; *dii* ‘good, well,’ *dii-dii* ‘rather good, rather well.’ In Vietnamese the same meaning is carried by simple reduplication in the case of three of the tones. The Tibeto-Burman languages of this area also show this type of construction.5

As seen in the previous section, the sequential indicator *kɔɔɔ* is found throughout the languages of the three language families, i.e. Austroasiatic, Tai-Kadai, and Austronesian language family of the Southeast Asian area regardless of language frontiers. Therefore the sequential indicator *kɔɔɔ* can be regarded as an areal feature in this linguistic area.6

Map 15.4-1 displays the geographical distribution of the sequential indicator in the languages of Southeast Asia. The word *kɔɔɔ* has spread throughout the areas of Thailand, Laos, Cambodia, Northwestern Vietnam, Shan of Burma and Assam of India.
15.5. HISTORICAL IMPLICATIONS

This section aims to determine the historical implication from the geographical distribution of forms of the sequential indicator using a comparative method supported by orthographic evidence. The major issues are the origin of the sequential indicator $k\dd{3}$ and its direction of diffusion throughout the languages of the Southeast Asian area.

The presence of $k\dd{3}$ in the Southwestern Tai group and Mon-Khmer group points to the possibility that diffusion has proceeded from Khmer into Thai or vice versa. According to Hall (1968) the Shans, the Laotians and the Siamese or Thai have made their first historical appearance in Southeast Asia in the sixth century BC under Chinese suzerainty, but made many attempts to assert their independence. They moved along rivers and in the valleys of central Indo-China. Small groups of them settled among the Khmers, the Mons, and the
During that time the Khmer empire was at the zenith of its civilization. The Siamese therefore had been influenced by the well-established Khmer group as George Cœdès (1964: 370) put it: ‘From Cambodia the Siamese assimilated its political organization, material civilization, writing and a considerable number of words.’ According to Trudgill (1974: 223), certain innovations started from an urban area as cited below:

Diffusion patterns are also mediated through a system of urban centers in any given area, ‘where diffusion is primarily dependent on individuals in one central place communicating with those in another.’ The innovation can be seen spreading from a center to surrounding areas. Central places have been recognized in dialect theory as the source of focal area.

The Angkor kingdom in Cambodia was the setting in which diffusion could take place and in which linguistic areal relationship develops. Having the Angkor kingdom as the focal area and the Siamese as the newcomers, it can be concluded that $kɔɔ$³ has spread from Khmer to Thai. The interpersonal contacts seem to play an important role on the diffusion.

The conclusion is further supported by the comparison of forms of the sequential indicator. Only the Southwestern Tai group who moved from China to the present locations have the cognates of $kɔɔ$³ whereas the form is absent in the Northern Tai group who are still residing in China and present in all languages of Mon-Khmer groups except Mon.

The form has not spread to Burmese, Mon and Vietnamese for the following reasons. Burmese and Mon have their established states in Burma as focal areas and do not acquire the form in question. Vietnamese were under Chinese rule from 111 BC to AD 939 and were subjected to intensive sinicization (Hall 1968) and thus far from the influence of either Khmer or Thai. Since the development of the form was confined to the areas of the kingdoms with their great concentrations of population, and that the influences did not reach the more inaccessible, jungly, tribal areas, the form did not spread to the small Tibeto-Burman groups such as Lawa and Sgaw Karen. As for the ethnic groups of Mon-Khmer branch such as Chaobon (n̄akhir), Pray, they have the cognates of $kɔɔ$³ since they are genetically related to Khmer.

The sequential indicator $kɔɔ$³ not only has a close pronunciation to the word $kɔɔ$ in Khmer but the writing of $kɔɔ$³ in Thai is similar to $kɔɔ$ in Khmer. The modern Thai writing of $kɔɔ$³ is $n$ whereas the modern writing of $kɔɔ$ in Khmer is on the next page. The spelling of this word always puzzles Thai language learners and the word has to be memorized as a special spelling. However, there should be a historical explanation of this spelling.

Wiyada (1981) studies the meanings and the etymology of $kɔɔ$³ in Thai by using spoken language, stone inscriptions and documents classified by periods starting from Sukhothai period to the present time. The word $kɔɔ$³ was written in the First Stone Inscription of King Ramkhamhaeng as $n$. However, she cannot conclude that the word was first used in the period of Sukhothai since other stone inscriptions older than the First Stone Inscription of King Ramkhamhaeng may be discovered in the future. Though the word $kɔɔ$ in Khmer does not appear in the Khmer inscriptions that she has studied, it cannot be concluded that $kɔɔ$ in Khmer was borrowed from Thai. There are still other Khmer inscriptions in which $kɔɔ$ may be found.

The writing of $kɔɔ$³ with the low tone marker $mə$³ $e$³ may be used as more evidence to support the Khmer origin of this word. Diller (1991) studies documents of Sukhothai and Ayutthaya period other than the First Stone Inscription of King Ramkhamhaeng. He finds a sporadic use of the tone marker which enables him to reach a conclusion that the First Stone Inscription of King Ramkhamhaeng was written before the full development of tone writing. There is a sociolinguistic explanation to this conclusion. The interpersonal contact with Khmer and Tai dialect mixing around Chao Praya River Basin during the 14-15th century caused the phonological change especially the tones; therefore the old writing system does not
match the tones. As a consequence, a new writing system was introduced from Khmer. This new writing system writes vowel on a consonant whereas the writing of Ramkhamhaeng Period has tone marker on a consonant.

Since the Thai writing during Ramkhamhaeng Period had been influenced by the Khmer writing system especially in the writing of tones, I am convinced that the writing of the low tone marker on the consonant ˚ is an attempt to write the word kɔɔ’ which was borrowed from Khmer. Writing Thai words in that period might not need a tone marker. Cam Cauồng (1992) studied Black Tai in Vietnam and found out that there were two series of tones, the high and the low. Each tone series has three tones. There was no marker of these tones in the ancient Black Tai orthography. The three tones in each series were written in the same way. The readers could read the tone values from their context. Early this century the two tone markers similar to may’ eek’ and may’ thoo in Thai and Lao have been introduced. However Black Tai people still use the old writing system without the tone markers because Black Tai is not the national language and there is no need for accuracy of the writing system. The old Black Tai writing seems to support the claim made above. There might be no need to write tones of Thai words during Ramkhamhaeng Period as well and the low tone marker was intended to write loanwords such as kɔɔ’.

As to the question why kɔɔ’ in Thai and kɔɔ in Khmer are presently written in a similar way, a comparative study of Tai orthography may clarify this matter. The list below shows the writing of kɔɔ’ in other Tai languages with phonetic values in comparison with the Thai and Khmer writing.

<table>
<thead>
<tr>
<th>Languages</th>
<th>Orthography</th>
<th>Phonetic values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modern Thai</td>
<td>˚</td>
<td>kɔɔ’ (falling)</td>
</tr>
<tr>
<td>Khmer</td>
<td>˚</td>
<td>kɔɔ (mid)</td>
</tr>
<tr>
<td>Black Thai</td>
<td>˚</td>
<td>kɔ’ (low)</td>
</tr>
<tr>
<td>Khon</td>
<td>˚</td>
<td>kɔ⁵ (high falling)</td>
</tr>
<tr>
<td>Lao</td>
<td>˚</td>
<td>kɔ (mid)</td>
</tr>
<tr>
<td>Ai-ton</td>
<td>˚</td>
<td>kɔ (mid)</td>
</tr>
</tbody>
</table>

It seems that the mid tone is unmarked as for the case of Khmer, Lao, and Ai-ton. The falling tone in Thai is unmarked as well and the vowel shortening symbol appears instead. The question is what is the phonetic value of the ancient Thai writing of kɔɔ’, i.e. ˚ and how it develops to the present writing ˚.

A comparison of the orthography above gives a clue that ˚ should be pronounced as kɔ’ with the short vowel ɔ and the low tone since the phonetic values of the writing in other related languages have the short vowel ɔ. The word ˚ is always pronounced with the short vowel ɔ in connected speech. Only in citation form is the vowel lengthened. The original writing and pronunciation of ˚ is still preserved in Black Thai. The Black Tai people in Vietnam also keep this form and pronunciation. The original writing ˚ was transmitted from the Sukhothai Kingdom to the Lanna and Lanchang Kingdom through the dissemination and propagation of Buddhism. The Lanna Kingdom had Chiangmai as the center. The Lanchang Kingdom covered the areas of Sipsongbanna in China, Sipsongjuthai in Vietnam and Luang Prabang in Laos (Suree 1999). In the Lao language, the word kɔ (mid tone) is written with the long vowel symbol ɔ but pronounced with the short vowel ɔ. The same thing has occurred with the Lik-Tai orthography of Ai-ton in which the long vowel symbol ɔ is used for the short vowel pronunciation. Nantana (1992) has found that the Thai Noi orthography, which is used for writing Lao and Isan Thai, has the system that the writing of short and long vowels is interchangeable. This indicates that the vowel length was not contrastive in the distant past.
The replacement of .Panel1 with Panel2 has to do with the vowel length. Sarawit (1973) posits the proto form of the vowel .Panel2 as *oo. The additional short vowel .Panel2 occurs in loanwords and in native words which have undergone irregular or specially conditioned phonological developments. If we believe in this reconstruction of the vowel system of Proto-Tai, it may be used to support the claim that Panel1 is pronounced with a short vowel because it is a Khmer word.\footnote{See further discussion on the reconstruction of the vowel system of Proto-Tai in Li (1977) and Strecker (1983).}

The short vowel .Panel2 was not written until the mid Ratanakosin Period. Puttachart (1992) compares the documents of Sukhothai, Ayuthaya and Ratanakoson periods with other Tai dialects and has found that the vowel length of the pair e-ee is not contrastive. It is conditioned by the syllable structure. In the mid Ratanakosin Period, this pair of vowels became contrastive and the symbols <Á³> and <Á°È> were added to the writing system. Since Panel1 was pronounced with a short vowel, the symbol Panel2 called may\textsuperscript{4}tay\textsuperscript{2}kuu\textsuperscript{4} in Thai was used to indicate the short vowel. The low tone marker has been replaced by the vowel shortening symbol Panel2. I believe that the low tone has changed to a contour tone during this period of time and thus the low tone marker was no longer used. The contour tone later on has caused the length of the vowel .Panel2 and hence Panel1 is pronounced with long vowel in citation form in the modern Thai.\footnote{See further discussion of the effect of contour on the development of the contrastive vowel length in Hartmann (1976).} In sum, the development of Panel1 is as follows:

<table>
<thead>
<tr>
<th>Sukhothai Period</th>
<th>Mid Ratanakosin Period</th>
<th>recent</th>
</tr>
</thead>
<tbody>
<tr>
<td>̀ Panel1</td>
<td>̀ Panel1</td>
<td>̀ Panel1</td>
</tr>
<tr>
<td>k\textsuperscript{3} (low tone)</td>
<td>k\textsuperscript{3} (falling tone)</td>
<td>k\textsuperscript{3} (falling tone)</td>
</tr>
</tbody>
</table>

The similarity of Thai and Khmer writings of this word is due to the influence of Thai language on Khmer in the Ratanakosin Period. According to Hall (1968) in the thirteenth century the decline of Khmer power on the one side and the disappearance of a strong Burma on the other provided the T’ais with an unrivalled opportunity for expansion. When the western parts of the Khmer empire were controlled by T’ai, the majority of Rama Khamheng’s subjects must have been Mons and Khmers. From his subjects he adopted the script which he used for writing the T’ai language in 1283. He aimed to set up an official language that could be used also by his Mon-Khmer-speaking subjects. His Sukhothai script was adopted throughout Siam and had a strong influence upon the development of writing in the Laos states.

Furthermore, Huffman (1986) points out the influence of Thai on Khmer as follows: In the fifteenth century Cambodia fell into its lowest point. In the Ratanakosin Period Khmer borrowed from Thai the language, culture, literature and other items which Thai had borrowed from Khmer during the eighth to twelfth century. In the eighteenth and nineteenth centuries, the Thai language influenced the Khmer language to such an extreme that Khmer grammar was modified according to Thai grammar. Therefore there are a large number of words shared by Thai and Khmer and it cannot be determined which words are native of which language.

Since the vowel shortening symbol Panel2 was introduced to the Thai writing system during Ratanakosin Period in which the Thai language had much influence on Khmer, I believe that this symbol\footnote{According to Karnchana (1981), the may\textsuperscript{4}tay\textsuperscript{2}kuu\textsuperscript{4} symbol is called lek-as-sa-da អែតសសា in Khmer.} was borrowed from Thai to Khmer. This conclusion agrees with Wiyada (1981). She points out that there are only two words written with this symbol in Khmer, that is, Panel2 ‘then’ and Panel2 ‘which, that’ pronounced as k\textsuperscript{3} and d\textsuperscript{3} respectively whereas this symbol is productive in Thai. Therefore the symbol Panel2 must have been invented by Thai and transmitted to Khmer later on.

\footnote{According to Karnchana (1981), the may\textsuperscript{4}tay\textsuperscript{2}kuu\textsuperscript{4} symbol is called lek-as-sa-da អែតសសា in Khmer.}
15.6. CONCLUSION

This chapter studies the preverbal auxiliary kɔɔ as a sequential indicator highlighting a chronological theme-line or storyline of the narrative. This preverbal auxiliary is compared with other Southeast Asian languages to determine its source of areal diffusion. It has been found that all languages of Mon-Khmer language family except Mon have cognates of kɔɔ. The languages of the Southwestern group of the Tai-Kadai language family possess similar forms whereas the Northern group has different forms. This form is absent in languages of Sino-Tibetan language family and in Urak Lawoi’ and Malay of the Austronesian language family. Only the Moken language has the cognate of kɔɔ.

As the sequential indicator kɔɔ appears in most Southeast Asian language families, it can be regarded as an area feature in Southeast Asian linguistic area. Based on the areal diffusion of this discourse feature, it is concluded that this form is originally a Khmer word. When Thai people migrated from China to the south, they adopted this form from Khmer during the time that the Khmer empire was at the zenith of its civilization. Not only the pronunciation of this word is similar in Thai and Khmer but also its spelling. Based on a comparative study of Tai orthography, it has been found that this word was originally pronounced with a short vowel [a] so the vowel shortening symbol ꞇ was used to indicate this short vowel. The similarity of Thai and Khmer spelling of this word is due to the influence of Thai language on Khmer in the Ratanakosin Period. The vowel shortening symbol must have been invented by Thai and transmitted to Khmer.

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CHAPTER SIXTEEN

A HISTORICAL STUDY OF /thîi/ IN THAI

Pranee Kullavanijaya

16.1. THE AIM OF THE STUDY

The aim of the present study of /thîi/ is three-fold. The first is to study the various occurrences of /thîi/ in modern Thai so as to identify its various functions. The second is to investigate the historical development of /thîi/ in four periods: Sukhothai, Ayutthaya, Mid-Ratanakosin covering the reigns of King Rama IV and V, and the present day Thai, henceforth, modern Thai. This leads to the third aim, that is to see whether the historical development agrees with the grammaticalization pathway of /thîi/ proposed by W. Bisang in his important paper on processes of grammaticalization of nouns and verbs in east and mainland South East Asian languages (Bisang, 1996). The last section of the paper surveys the use of equivalent words of /thîi/ in two other Tai languages.

16.2. SOURCES OF DATA

The data for modern Thai are based on 800 lines of text randomly drawn from the Chulalongkorn University electronic corpus and a 21-line column from a daily newspaper. These are supported by the writer’s knowledge as a native speaker of Thai.

For the study of earlier Thai, the data are from various sources. The Sukhothai data are based on twelve inscriptions from BE. 1835-1960, which appear in Charuek Samai Sukhothai (Sukhothai Inscriptions, National Library of Thailand, 1983). Altogether the Sukhothai data are 1128 lines long. The Ayutthaya data are from Kosaapaan’s Memoirs (1987) and are 925 lines in length. The data reflect the Thai language around the year 1658, more or less in the last part of the Ayutthaya period. The Mid-Ratanakosin data, covering language in the reigns of Kings Rama IV and V, are based on randomly selected letters, notes and announcements during the two reigns (1964, 1998) and comprise 983 lines of text. The two reigns marked the beginning of changes in Thai ways of thinking and living and thus should reflect language changes. It should be pointed out that data from earlier eras, as with any historical documents, cannot be said to be absolute representative of their time. However, the writer is certain that the study based on the data mentioned above reveal, to a significant extent, the historical pathway of /thîi/ in Thai.

16.3. /thîi/ IN MODERN THAI

In modern Thai the word /thîi/ illustrates a variety of both meanings and functions. This is discussed below.

16.3.1. /thîi/ as a simple noun

As a simple noun, /thîi/ means ‘a piece of land’ and can be modified by /din/ ‘soil’ as in /thîi din/. It is used with classifiers such as /phûun/ in /thîi din phûun nîi/, ‘this piece of land’ or

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I would like to express my deep appreciation to Martin Haspelmath, Matthew Dryer and Orin Gensler, for giving valuable comments when I presented the first draft of my paper at the Max Planck Institute in Leipzig during my short visit as a DAAD researcher in October 2001. I am especially grateful to Bernard Comrie and Walter Bisang for sharing their knowledge of attributive clauses in other languages.
/pleŋ/ in /thîi din sɔŋ pleŋ/ ‘two pieces of land’. /thîi/ as a simple noun is rarely found in my data mostly because the texts under study are not related to the matter of land, although it is well used in spoken Thai.

16.3.2. /thîi/ as a class noun

Bisang (1996) used ‘class noun’ to account for the high level abstraction of /thîi/ which appears in the head position of a noun phrase usually ending with postnominal determiners (1996: 547). From his examples, /thîi/ as a class noun is usually followed by a verb or verb phrase. I will adopt Bisang’s ‘class noun’ with some modification. I make the distinction between a /thîi/ in a compound and a /thîi/ referred to hence as the /thîi/ class noun. Principally, a class noun /thîi/ is a type of compounds but the ‘class noun’ /thîi/ still denotes a location, while /thîi/ in a compound does not denote a location but a person or an instrument. Thus, to me, the /thîi/ class noun is closer in meaning to the /thîi/ simple noun than the /thîi/ in a compound or hence the /thîi/ compound which has the meaning of /thîi/ far detached from ‘land’. Examples of the /thîi/ class noun are:

1. thîi tàak ?aakàat ‘resort’
   (place – exposed-air)

2. thîi wàa kaan ?amphàà ‘district head quarter’
   (place- tell-affairs-district)

3. thîi khàay túa ‘ticket booth’
   (place- sell-ticket)

4. thîi bambàt náam sà ‘polluted water section’
   (place- treat-water- waste)

5. thîi phák phûu dooy sàan ‘passenger area / booth’
   (place-rest-passengers)

It should be observed that the /thîi/ class noun is an active word formation process in modern Thai.

16.3.3. The /thîi/ compound

As has already been mentioned, /thîi/ in a compound denotes a person, group of persons, an instrument, a state or other meanings but not a location. The /thîi/ compound may be a compound noun (6a) and (6b) or a compound verb (6c). If it is a verb, it usually has a metaphorical sense. The compounds in (6d.) are adverbials functioning as discourse markers. Some examples of the /thîi/ compound are given below:

6. a. thîi prùıkšâa (thîi - to consult) ‘a consultant’
   thîi pràʔchum (thîi - to meet) ‘a committee’
   thîi phùnt (thîi -to depend) ‘a patron’
   thîi bán (thîi - house) ‘a husband/wife’

2 thîi pràʔchum can also mean ‘a meeting hall’, in which case it is considered a class noun.
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b. thîi yép krà? (thîi - to sew - paper) ‘a stapler’
thîi pàw phôm (thîi - to blow - hair) ‘a hair dryer’
thîi nɔɔn (thîi - to sleep) ‘a mattress’
c. kin thîi (to eat - thîi) ‘to consume space’
khon thîi (to maintain - thîi) ‘to be stable’
thûŋ thîi (to arrive - thîi) ‘to die’
d. thîi thée (thîi - real) ‘in fact’
thîi ciŋ (thîi - true) ‘in fact’

As can be seen from the examples, /thîi/ has shifted its concrete meaning into an abstract one. Here, /thîi/ does not denote a piece of land or any location.

16.3.4. /thîi/ as a classifier

Although hardly found in the written data, /thîi/ as a classifier is not uncommon in spoken Thai:

(7) a. kho thîi sɔɔŋ thîi
   ‘May I have two teas?’
   ask for tea two clf.
b. cɔɔŋ thîi wáy hây sɔɔŋ thîi dûay.
   reserve seat keep give two clf. also
   ‘Reserve two seats for me.’

16.3.5. /thîi/ as an ordinal numeral marker

As an ordinal numeral marker, /thîi/ is found preceding the numerals denoting ordinal numbers, for examples:

(8) a. luuk khon thîi sɔɔŋ khɔɔŋ khâw këŋ
   ‘His second child is smart.’
   child clf. numeral marker two of he smart
b. khraaw thîi lɛw khâw mâydâay maa
   ‘Last time he did not come.’
   time numeral marker past he not come

16.3.6. /thîi/ as a preposition

When /thîi/ is a preposition, it can be left out particularly when the verb is a locative verb or implies location for example, one may say /khâw yuú rooŋrîaŋ/ as well as /khâw yuú thîi rooŋrîaŋ/ ‘He is at school’.

(9) a. dékdëk thîi bâan khâw mây sabaay bɔy
   ‘The children at his house often fell ill.’
   children at house he not well often
b. man dâay ráp chɔən pay ṭɔŋ ɲaan thîi chîŋmaày
   it get receive invite go out work at Chiangmai

   ‘It was invited for a show in Chiangmai.’

16.3.7. /thîi/ as a relative clause marker

In modern Thai when an embedded clause modifying the antecedent noun which usually precedes it, /thîi/ is placed at the head of the clause. In this position /thîi/ functions as a marker² linking the embedded clause to the preceding noun. The noun or as referred to as an antecedent noun before /thîi/ must have the syntactic relation with the verb in the embedded clause as a subject or an object of the verb if the /thîi/ embedded clause is a relative clause. My data shows that the /thîi/ relative clause occurs with the highest frequency compared to /thîi/ in other functions.

(10) a. hùn láʔkhɔon lɛk thîi kâw lɔŋlây
   puppet drama small that he obsessed

   ‘The small puppet drama that he felt obsessed with.’

b. dèk thîi mii ?aakaan daŋ klâaw tɔŋ ri̍p phaa pay hâa mǒo
   child that has symptom like said must hurry take go find doctor

   ‘The child who has this symptom must be taken to see a doctor as soon as possible.’

16.3.8. /thîi/ as a complementizer

As a complementizer /thîi/ heads an embedded clause the preceding noun of which does not have any grammatical relation with the verb in the embedded clause. I will call such an embedded clause a /thîi/ complement, with /thîi/ as a complementizer. The /thîi/ complement has two functions: it modifies the preceding noun, in which case it will be referred to as the /thîi/ noun complement, or it complements the preceding verb in which case it is called the /thîi/ verb complement. The /thîi/ noun complement will be dealt with first.

16.3.8.1. The /thîi/ noun complement³

In the following examples, the head noun of the /thîi/ noun complement is underlined.

(11) a. rû́n thîi khâw mây phûut kàp khray ləɔŋ pen rû́n kâw
   story that he not speak with who atall is story old

   ‘The fact that he did not speak with anyone at all was an old story.’

³ Comrie (1998) uses the term ‘subordinator’ in state of ‘complementizer’. For him, the embedded clause functions as the attributive to the noun. He has also shown that in several languages of South East Asia, there seems to be no need to differentiate between a relative clause and a noun complement clause. Although this is interesting, I will maintain the difference between the two since it is still arguable whether Thai is like Japanese in having only modifying clauses; also, the recognition of both seems to show a better picture of /thîi/ historical development.

4 The term fact-S construction is also used as for example, in Comrie (1998). I use the term noun complement since the head noun can be an abstract noun as well as a lexical noun.
b. ทุ่ง วิทยา ที่ ครัว สนธิ์ ㎏PHA เหล่า แต่ ทฤษฎี ฎาบ นิ ฯ
each time that ministry of education will must review story this
‘It’s time for the Ministry of Education to review this matter.’

c. ปัญหา สำคัญ ที่ การทำ ปัญหา สำคัญ นี้
problem important most is problem economy that

people hope will cause government remove debt

country can quickly

‘The most important problem is the economy one which the Thai people hope that the government will remove the country’s debts in no time’

It should be noted that the antecedent noun can be a lexical noun, as in (11b) or (11c) or an abstract noun as in (11a). The abstract nouns often found are /kaan/ ‘work’, /sì/ ‘thing’ and /rùaŋ/ ‘matter’.

16.3.8.2. The /thîi/ verb complement

The /thîi/ embedded clause which complements the preceding verb is called here the /thîi/ verb complement. It usually occurs with /cà/ ‘will’ preceding the verb in the clause and usually denotes an action which has not yet occurred but will occur or is likely to occur, for examples:

(12) a. ข่าว คิด ที่ มี ฯเค็ค กำลัง น่า
she think that will out from work
‘She thinks that she will resign from work.’

b. ติ๋น ค้า ถ้า ค่า ฯ เรียน สำนัก สำนัก
astudent prefer that will enter learn line common
‘School students prefer going to academic schools.’

c. พอ จบ ประถม ชม. จำก ที่ มี ฯ เล้า
person finish lower vocation school can that will
pay ที่มี เล้า แล้ว เล่า
out go work can already

‘One who finishes lower vocational education can start working already.’

It should be noted that the verb phrase with /thîi/ as a complementizer can occur after a preverb such as /nàa/ and /khuan/ ‘should’:
Such occurrences are very recent but have gained more frequency in spoken Thai, although they are rarely seen in written Thai. It is interesting to observe that only some preverbs can take the verb phrase with /thîi/ complementizer. This might be a piece of evidence supporting that these preverbs were verbs before, although this requires a much deeper study to confirm this observation.

16.3.9. /thîi/ as a nominalizer

/thîi/ as a nominalizer makes the clause a nominal which may function as a subject of a verb. In this function, the /thîi/ clause nominal is considered different from the /thîi/ verb complement which complements the verb. Such a differentiation is observed by many linguists in generative grammar (Hurford, 1994) and also by Bisang (1996). For a clear comparison between Bisang’s pathways of grammaticalization and the historical study in this paper, the same differentiation is adopted.

(13) a. thîi krà?suansùksâa mii ná?yoobaay
    that ministry of education have policy
daŋ klâaw nåacâ? tŋŋ loptthuan
    as said should must review

    ‘That the ministry of education has given the aforementioned policy should be reviewed’

b. nákrian yîŋ khon nán yɔɔmrâp thîi thəə hūar5?
    student girl clf. that accept that she laugh
daŋ kwàa khray
    loud more who

    ‘That girl student accepted that her laughing was louder than those of others’

c. thîi khâw mây thîaŋ thamhây thəə kròot
    that he not argue make she angry

    ‘That he did not talk back made her angry.’

It can be seen from the above that /thîi/ in modern Thai displays a variety of functions. Whether /thîi/ in these functions occurs in other periods or not will be studied in the following sections.
16.4. A HISTORICAL DEVELOPMENT OF /thîi/

In this section a study of occurrences of /thîi/ in the Sukhothai, Ayutthaya and Mid-Ratanakosin periods will be made. Then in the following section, these occurrences will be considered with those in modern Thai to give the historical development of /thîi/. After that it will be shown whether the historical development agrees with the grammaticalization pathway proposed by Bisang in 1996.

16.4.1. /thîi/ in the Sukhothai period

Although the Sukhothai scripts were found late into the Ayutthaya period, our data will cover only the inscriptions written within the year 1399, approximately 50 years after the generally accepted end of the Sukhothai period in 1350. This is to conform to the historical period rather than the type of scripts. The data reveal /thîi/ with the following functions.

16.4.1.1. /thîi/ as a simple noun

In the Sukhothai data, /thîi/ as a simple noun denotes a piece of land or land and is found usually followed by a demonstrative nîi ‘this’, nán ‘that’, day ‘any’, for examples:

(14)  a. putermaa  daŋ  rian  thɔn  ?ɔy  wày  màak

compare as arrange chunk sugarcane keep many
daam  dàat  tem  thîi  sɔthàan  nán  lëe
cover  cover  full  land  place  that

‘As if (one) arranges chunks of sugarcane covering the whole land’

b.  …thîî  nàn  kòɔ  prá̄?hantathamatsukhonthâ?ceedii

land  that  build  stupa

mii  sàam  ?an

have  three  clf.

‘…that place, build three stupas.’

There are few occurrences of /thîi/ followed by a place name which make it possible to interpret them as prepositions:

(15)  a.  ?an  nùŋ  prá̄?ditsathâan  wày  nùa  cãm  khâw

clf.  one  to  place  keep  above  top  hill

thîi  pàakprâ?baan

land  name  of  place

‘One was placed at the top of a hill of Paak Phrabang’

---

5 Transcription Note: For the transcription of examples in the earlier periods, a comparison to the modern Thai phonemic system is used, i.e. the earlier script is read with the modern Thai pronunciation and since phonetic detail is not at issue in this paper, a broad transcription is used.
However I have interpreted such occurrences of /thîi/ as a noun, for the following reasons:

First, the data in the Sukhothai period show that when a specification of the location is needed, a relational noun such as /nay/ ‘in’ or /bon/ ‘on’ is used:

```
c. ctûŋ ?aw fûŋ loŋ nay klaŋ muŋ
    then get bury down in heart city
`bury in the heart of the city`
```

If no specification or description of the location is required, only the land or /thîi/ is mentioned:

```
d. kûo prá?thantâ?thåat thîi nán
    build stupa place that
`build the stupa at that place`
```

Second, it is observed that in the data, occurrences of a place name do not usually occur alone without a specification that it is a town, for example:

```
e. khôn ?an mii nay muŋ thay
    man clf. have in town Thai
`people in Thailand`
```

In the data, the occurrence such as /*khôn ?an mii nay thay/ is hardly found, while such occurrence is common in modern Thai:

```
f. pàa thîi sômboon nay chiêmây
    forest that complete in Chiangmai
`Untouched forest in Chiangmai`
```

Thus, it is possible to say that when a place is not a town but a site or a location /thîi/ is used. Therefore, /thîi/ in (15a) and (15b) may well be interpreted as a noun meaning place. However, I do not deny that such a usage is most likely to give the direction for a preposition /thîi/ later on.

An occurrence of /thîi/ in the following sentence gives a more abstract sense of /thîi/, that is, ‘a position’:

```
b. phûkkhûn phâamûng cûw muûngràat ?aw phon
   King Phaa Mueng king Mueng Ratt Town bring soldiers

    maa tûp kan thîibaakhlûn
    come join together place name of place

`‘King Phaa Mueng, the king of Raat led his soldiers to meet (with another group) at Baang Khloong place’`
```

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(16) a. …dâay sàwɔɔyriat theɛn thîi pùu yâa
     get reign replace place grandfather grandmother
     ‘…get to reign in place of the grandparents’

16.4.1.2. /thîi/ as a class noun

In the Sukhothai data, few occurrences of a class noun were found:

(17) a. thîi sâŋsâʔkaan
     place worship
     ‘a place to worship (something)’

b. laaŋ hêŋ thîi chumnum phrâʔmâʔhâathâat… pen pàa pen donj
     some place place meet Buddha’s relics is forest is forest
     ‘Some places, the places where Lord Buddha’s relics are plenty... are dense with trees...’

There are few occurrences of /thîi/ followed by a clause. Together the construction occurs as a noun in apposition or a genitive attribute to a preceding noun. In all these occurrences, the meaning of a location of an action is conveyed.

c. cuŋ câk hɔʔ pay nay tòn phrâʔsiîmâʔhâaphoo
     then will fly go in tree Bhodhi tree
    thîi phrâʔphût pencâaw tràt kēe sâmphêtyûʔtâʔyaan
     place LordbBuddha say to enlightenment
     ‘(The relics) rose to the Bhodhi tree, the place Lord Buddha was enlightened’

d. khût ?aw din thîi mâʔhâasïisâthaarâatcûʔnii yiap
    dig take soil place name step on
    ‘Dig the soil, the place Mahaasrisattharaatculamunee steps on.’

An examination of the Sukhothai data shows that when a relative clause occurred, /ʔan/ was commonly used as a relative marker, for examples:

e. buucha praʔsâʔthûpceedii phrâʔsiîmâʔhâaphoo
    worship stupa Bodhi tree
    ᵇʔan sâʔmâʔ daŋ ton phrâʔcâaw raw
    which equal as body Buddha we
    ‘…worship the stupas and the Bodhi tree which are equivalent to the Lord Buddha himself.’

f. phrâʔthâat. thâŋlâay ᵇʔan mii nay phêndin nii…
   relics all which have in land this
   ‘All the Buddha’s relics which are in this land’

Since /ʔan/ was a common relative marker in the Sukhothai period, I would interpret /thîi/ in (17c), and d. not as a relative marker but as a class noun. Again, this may mark the beginning of /thîi/ as a complementizer or a relative marker.
16.4.1.3. *The /thîi/ compound*

A compound noun is identified as one unit where /thîi/ does not denote any meaning of location or place. The Sukhothai data showed a few examples of such compounds:

(18) a. thîi chip thîi hāay
    place lost place lost
    'peril’

b. thîi lóm thîi taay
    place fall place die
    ‘death’

There were few occurrences of /thîi/ before /léèw/ ‘finish’ and /sùt/ ‘end’ which might be interpreted as a unit marking a type of numerals, for examples:

(19) a. mûa piw ñan câk sín sâatsâñõa phrá?phûtpencâaw
    time year which will end religion Lord Buddha
    thîisùt thâñfâay ñan piw chûat
    end all that is year rat
    ‘The time the Buddhist religion ends will be the year of the rat.’

b. thông wiàncan wiànkham pen thîi léèw bûâhûanõon...
    reach Vientianne Viengkham is the last the south
    fâñ thá?lee má?hâasâñmût pen thîiléèw
    sea ocean is the end
    ‘To Vientianne (and) Viengkham as the last (point). To the south, the sea shore is the end.’

Example (19b) shows that /thîi léèw/ occurs as a unit meaning ‘the end’. Since there was no evidence of /thîi/ as a numeral marker in the Ayutthaya period. I will interpret /thîisùt/ and /thîiléèw/ as compounds.

It can be concluded that the Sukhothai data revealed three functions of /thîi/: a simple noun, a class noun, a compound noun. /thîi/ as a simple noun occurred most frequently. It is observed that some occurrences of /thîi/ as a simple noun followed by a place name may be the beginning of /thîi/ as a preposition. Also, there is an evidence of /thîi/ as a class noun followed by a clause which makes it likely to be the beginning of /thîi/ as a complementizer or a relative marker.

**16.4.2. /thîi/ in the Ayutthaya period**

The Ayutthaya data illustrate functions of /thîi/ as follows:

4.2.1 /thîi/ as a simple noun

Similar to the Sukhothai data, /thîi/ as a simple noun in Ayutthaya denotes a piece of land or place. It is also usually followed by a demonstrative /nîi/, /nîi/ ‘this’, /nân/ ‘that’:
A HISTORICAL STUDY OF /thîi/ IN THAI 455

(20) a. dûay thîi nán pen múaŋ nòoy
   because land that is city small
   ‘Because that place is a small city’

b. sùt tàuk nán pen thîi plàaw
   end building that is land vacant
   ‘To the end of the building is a vacant piece of land.’

16.4.2.1. /thîi/ as a class noun

/thîi/ functioning as a class noun is found with the highest frequency in my Ayutthaya data in comparison to other functions of /thîi/. Again, the Ayutthaya data display cases where a /thîi/ class noun occurring as a noun in apposition to the preceding noun: /maa duu tàuk thîi khâa p’ra?câw yîu/ (come – see – building – place –I- stay) ‘Come to see the building, the place I stay.’ Also, the /thîi/ class noun can be followed by a clause as in (21b).

(21) a. lèe pen thîi tham thâŋ lèe thûŋ
   and is place make pail and bag
   ‘And is the place for making pails and bags.’

b. lèe chàn sàam nán pen thîi naay kampân yûu
   and storey three that is place master ship stay
   ‘And the third storey is the ship captain’s place’

When the /thîi/ class noun followed by a clause occurs after a noun as in (21c), a question can be asked whether /thîi/ is functioning as a relative clause marker.

c. lèe phûu mìi chûtu sùŋ kin dûay khâaphá?câw
   and person have name which eat with I
   nán taam maa sòn thûŋ tàuk thîi khâaphá?câw yûu
   that follow come send arrive building place I stay
   ‘And the important people who had dinner with me, walked me to the building, the place I stayed’

I will interpret /thîi/ here as a class noun similar to the cases in the Sukhothai period (see 4.1.2) for the same reason that the data show /sûŋ/ or /?an/ as a relative marker in this period, for example:

d. lèe naay kampân nam khâaphá?câw pay duu
   and master ship lead I go see
   thîi sûŋ têŋ wây sàwkrâ?doon
   place which arrange keep mast
   ‘And the ship captain took me to see the place which was arranged to keep the masts.’
16.4.2.2. /thîi/ as a compound noun

/thîi/ as a compound noun in the Ayutthaya period can be found although such occurrences are not many.

(22) thîi taw phlœŋ ‘a fireplace’
    place fireplace fire

(23) thîi yûu ‘aresidence’
    place live

In sum, the Ayutthaya data illustrate three functions of /thîi/: as a simple noun, a class noun and a compound noun. The occurrences of simple noun followed by a class noun in this period have already indicated the direction for /thîi/ to develop into a relative marker later on.

16.4.3. /thîi/ in the Mid-Ratanakosin period

The Mid-Ratanakosin period in this article covers the reigns of King Rama IV and V. It will be seen that the function of /thîi/ has greatly multiplied in this period:

16.4.3.1. /thîi/ occurs as a simple noun denoting a piece of land or a place, for example:

(24) a. thâŋ thîi thâŋ bâan(RamaIV)
    both land and house
    ‘Both land and house’

b. mîi thîi nãam hêŋ nûŋ(RamaV)
    have land nice clf. one
    ‘There is a nice piece of land.’

In addition, the Rama V data give another meaning of /thîi/ as a simple noun, ie. ‘seat’, as in /plîan thîi kan sãam khrâŋ/ ‘Change seat three times.’

16.4.3.2. The /thîi/ as an ordinal numeral marker

In this period, there was evidence for the first time that /thîi/ occurred before numeral words.

(25) lêw cuŋ fæŋ phlœŋ kâaw yâŋ thîi nûŋ
    then so engrave jewel nine kinds one
    phэт thîi sãœŋ thápthim .(Rama IV)
    diamond two ruby
    ‘Then engrave nine kinds of jewels; first, diamond ; second, ruby...’
16.4.3.3. /thîi/ as a class noun

Examples of /thîi/ as a class noun are:

(26) a. thîi tâŋ phrá?bà?rommá?thâat
    place    set     Lord Buddha’s relics
    ‘the place to put Lord Buddha’s relics’

b. thîi sôŋ
    place    bath
    ‘the place for bathing’

16.4.3.4. The /thîi/ compound

The data in the reign of King Rama V gave a large number of the /thîi/ compounds:

(27) a. thîi prà?chum ‘a committee’

b. thîi rúu thîi hên ‘publicly known’

c. thîi thée ‘in fact’

d. thîi sùt ‘finally; last’

The last two compounds illustrate that the /thîi/ compounds can also function as a discourse marker.

16.4.3.5. /thîi/ as a relative clause marker

A study of /thîi/ in the Sukhothai and Ayutthaya periods above has shown that the closest case of /thîi/ as a relative clause marker was the construction in which a head noun denoting a location was followed by a /thîi/ class noun (17c, 17d and 21c). The data in the Mid-Ratanakosin period, however, show that /thîi/ in the following examples has been grammaticalized into a full relative clause marker. As can be seen here, the /thîi/ relative marker can follow not only a locative noun but other types of noun. Moreover, it shows a grammatical relation to the verb in the embedded clause as either a subject or an object. These occurrences indicate that /thîi/ has been fully grammaticalized as a relative marker. Also, /?an/ which used to be the relative clause marker was hardly found in this period.

(28) a. thân thîi pen câwkhrâŋ dəm thîi hây
    one that    is owner    old    that    give
    sâaŋ phrá?phúthá?rûup…
    build    Buddha’s image
    ‘The one who was the old owner, who has the Buddha’s image built’

6  Diller (2001) has made the same observation for the relative marker /thîi/. He quoted Givon who, based on a study of the evolution of dependent clause morpho-syntax in Biblical Hebrew, gave the development line of ‘place’ to ‘locative’ and to ‘general relative’.
b. …cₐₐwnaay nàn dₐay rₐpphrₐ?raₜchₐ?thaan bₐₐnₐŋ mₐₐy
royal family that get receive some not

dₐay rₐpphrₐ?raₜchₐ?thaan bₐₐnₐŋ dₐay rₐp tₑₑ thîi
get receive some get receive only that
dₐay khₐw mₐa fₐw nₐy prₐ?raₜchₐ?waŋ (Rama IV)
get enter come watch in palace

‘As for the royal family, some received (the King’s gift), some did not. Only
(those) that were granted to come into the palace received (the gift).’

The example (26b) shows that the relative clause /thîi/ can be far apart from the antecedent
noun. It is likely that such occurrence helps accelerating the /thîi/ nominals which were found
also in this period.

16.4.3.6. /thîi/ as a complementizer

The clause beginning with /thîi/ as a complementizer or the /thîi/ complement was found
commonly and could function as a complement of a noun or a verb:

(29) a. thâa kaansₜuₜup pay mii weelaa thîi câ? dₐay tham
if continue go have time that will get do
khùnn ...(RamaIV)
up
‘If in the future there is the time (chance) to do (this ceremony)…’

b. …kₒ mₐₐk phₐcₐcay thîi câ? lₐₜwₐa bₐₐn nₐₐn muₐnₐŋ nₐₐn
then tend prefer that will tell house that city that
pen khₐnₐŋ phₐ?rₐ??in loŋ mₐa sₐaŋ (RamaIV)
is thing name of deity down come build

‘…will usually prefer to say that a house or a city was built by deity.’

c. phrₐ? nₐₐtₐa kₒ lₐₜwₐi chₐŋ mₒ?thîi phₐuₐk nₐₐn
because face is land these very suitable that those
c市人大 tiₐkanchₐŋ sᵢₐcᵢₐcᵢₐŋ (RamaV)
will swim really

‘Because the island looks really suitable for those (people) to swim’

d. kaan thîi khₐaphrₐ?phₐوثₐcₐw câ? cât hₐy mii rₒoŋr₁ian
matter that I will arrange cause have school
sᵢₒn nᵢₐₐsₜuₜu ?ₐŋkₐt khùnn nₐn...
teach book English rise that

‘The (idea) that I would like to have an English school set up…’
Sentences (29a) and (29d) are examples of /thîi/ complementizer of a noun complement where as the other sentences illustrate /thîi/ as a complementizer of a verb complement. It is noted that a sentence such as (29d), where /thîi/ modifies an abstract head noun /kaan/ ‘content, matter’, occurred with a high frequency in the time of Rama V. The other abstract noun equally used was /khwaam/ ‘matter’. Since /kaan/ and /khwaam/ are abstract in meaning, they may be left out. Such an optionality is hypothesized as an important factor for a /thîi/ nominalizer.

16.4.3.7. /thîi/ as a nominalizer

In the Mid-Ratanakosin data, the use of /thîi/ as a marker of a clause nominal, or called here a nominalizer, has also been found:


that get come come to place

nàp wâa pen sà?mâyomŋkhon…

count that to be auspicious time

‘That (the King) came to the (exhibition) place is considered the auspicious time’

b. bòok háy sàap wâa thîi câ? khâw ráp tamnëŋ nán wâa
tell make know say that will enter receive position that
câ? tham kaan daŋ níi (RamaV)
will work like this

‘Tell (him) that in taking the position, (you) will work this way.’

c. têe taam thîi wâa lêew chàn câ? lâw chà?phês? thîi dâay hên

but follow say past I will tell only that get see

‘But accordingly to what was said, I would tell only what I saw.’

All examples above are from the data in the time of Rama V. It is observed that /thîi/ nominals in this period occurred quite commonly.

16.4.3.8. /thîi/ as a preposition

Data in the reign of Rama V show many occurrences of /thîi/ between two nouns or noun phrases as in /ruu thîi fâŋ khloŋŋ/ (hole-thîi-bank-canal) ‘hole on the canal bank’ or /sôm thîi ?iïden/ (orange-thîi-Eden) ‘oranges-at-Eden’. These data seem to show that there has been a rebracketting of /thîi/ as a noun and that /thîi/ has become a preposition. In /thîi khùt din klaâŋ khloŋŋ mii ruu lamliŋn pay thôm thîi thá?leesâap/ (thîi-dig-soil-middle-canal-have-boat-transport-fill up-thîi-lake) ‘(From) the soil digging machine in the middle of the canal, there is a boat to take the soil and dump it into the lake’, the /thîi/ in /thîi thá?leesâap/ does not mean ‘land’ and should be interpreted a preposition meaning ‘at’. Here one may omit /thîi/ and the meaning of the sentence is still understandable and accepted. The possible omission of /thîi/ shows that /thîi/ is not a noun but a preposition.

In sum, the Mid-Ratanakosin data displayed new functions of /thîi/: a relative clause marker, a complementizer, a nominalizer and a preposition.

16.4.4. Summary of the functions of /thîi/

In this section, all functions of /thîi/ from the Sukhothai period to the present time will be listed for clarity.
(i) /thîi/ as a simple noun. Here, /thîi/ occurs by itself or can be modified by noun, an adjective or a demonstrative for example, /thîi din/ (a piece of land), /thîi plàaw/ (a vacant piece of land), /thîi nîi/ (this land). The use of /thîi/ as a simple noun prototypically denoting a piece of land, land or place is found in all periods studied.

(ii) /thîi/ as a class noun. In this usage, /thîi/ does not convey the meaning of ‘land’; rather, it designates the location for a certain action. This function differs from that as a simple noun in that it is followed by a verb or a verb phrase, for example, /thîi kèp khōng/ ‘place for keeping things’. In this function, /thîi/ may occur alone or in apposition to the preceding noun. This usage is found in all periods.

(iii) The /thîi/ compound. The /thîi/ compound does not denote the location but a person, a state or an instrument, for example, /thîi prà chum/ ‘a committee’, /thîi chip thîi hāay/ ‘peril’, /thîi yép krà dat/ ‘a stapler’. This usage is frequently found in our data from the Mid-Rattanakosin period and modern Thai, where /thîi/ carries a wide range of meanings, eg. a person, as in /thîi phûñ/ ‘a patron’, an instrument, as in /thîi yép krà dat/ ‘a stapler’. Also, in these periods, some /thîi/ compounds are found to function as discourse makers such as /thîi thêe/ ‘in fact’. It can be said that in the latter two periods the /thîi/ compounds /thîi/ has lost its meaning of ‘land’. But such /thîi/ compounds rarely occurred in the Sukhothai data where they signified a situation or state, for example, /thîi chip thîi hāay/ ‘peril’.

(iv) /thîi/ as a preposition. Data from all periods show that /thîi/ occurs before a locative noun or a place name. /thîi/ in these usages may be analysed as a preposition or a noun. In the Sukhothai period, it was not a preposition but a noun. In the Mid-Rattanakosin period and modern time, it has become a preposition linking a locative noun as well as non-locative noun to the preceding noun or verb.

(v) /thîi/ as a relative clause marker and a complementizer. Although the function of /thîi/ as a relative clause marker was found to start in the Sukhothai period, it is argued here that /thîi/ developed into a full relative clause marker in the Mid-Rattanakosin period. As a relative clause marker it has been found with high frequency since Rama V period, and at present, it can be found in any one-hundred word passage.

The /thîi/ noun complement was also found first in the Mid-Rattanakosin period frequently occurred after the abstract head noun such as /kaan/ (see 29d). These occurrences are proposed to be the origin of the /thîi/ nominals.

As for the /thîi/ verb complement, modern Thai data show much more occurrences than those in the Mid-Rattanakosin period.

(vi) /thîi/ as a nominalizer. From the data, the /thîi/ nominalizer first occurred in the Mid-Rattanakosin period7 and since has been found used with a considerably high frequency. The /thîi/ nominal occurs as a subject of the verb.

(vii) /thîi/ as a classifier. My data show that this function of /thîi/ appears only in modern Thai.

(viii) /thîi/ as an ordinal numeral marker. /thîi/ before a numeral was found first in the Mid-Rattanakosin period.

Table 16.4.4-1 is a summary of the functions of /thîi/ in the four periods under study.

7 An unpublished study of emergence and development of nominalization in Thai by Prasithrathasint (1994) showed that a /thîi/ nominal occurred during the time of Rama I to Rama IV. Her study confirms that the syntactic development of /thîi/ as a nominalizer did not occur earlier than the Ratanakosin period.
TABLE 16.4.4-1: OCCURRENCES OF NINE FUNCTIONS OF /thîi/ IN THE FOUR PERIODS

<table>
<thead>
<tr>
<th>Function/Periods</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
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</tr>
</tbody>
</table>

1 = a simple noun  2 = a class noun  3 = a compound  4 = a preposition  5 = a relative clause marker  6 = a complementizer  7 = a nominalizer  8 = a classifier  9 = a numeral marker

✓- rarely occurs

16.5. A COMPARISON OF A GRAMMATICALIZATION PATHWAY OF /thîi/ AND A HISTORICAL DEVELOPMENT OF /thîi/

In this section, a brief summary of the grammaticalization pathway of /thîi/ given by Bisang (1996) will be given first followed by a proposed historical development of /thîi/. In the last sub section a comparison of the two will be made.

16.5.1. Bisang’s grammaticalization pathway of /thîi/

Bisang (1996) used the term ‘pathways of grammaticalization’ to describe the possible transitions from one word category to another. His study is a synchronic study and for him, the transitions may coincide with the historical developments in several cases. It is the purpose of this section to see how much of the coincidence there is in the case of /thîi/.

Bisang (1996: 555) gave three types of pathways of grammaticalization for nouns. The first is a pathway between nouns and classifier for which he proposes two subtypes:

N → CN (class noun) → Q (quantifier) → CL (classifier) and N → Q → CL. The second type of pathways of grammaticalization for nouns illustrates the transition from nouns to conjunctional nouns or relative markers. Bisang proposed N → CN → Nom (nominalization) → CONJN (conjunctioner noun) or to REL (relative marker). The third type of pathways of grammaticalization for nouns shows the transition from nouns to conjunctional nouns or to demonstrative adverbials. Bisang gave N → CN → RELN (relational nouns) → CONJN or to DEMA (demonstrative adverbials). Since /thîi/ is an example Bisang gave for the second type of pathways of grammaticalization, I will therefore not talk about the first and the third types any further.

Bisang (1996: 557) gave an example of /thîi/ as a noun in a verb compound /kin thîi/ ‘take up space’. According to him /thîi/ is rarely used as a noun in Thai. This might be a misunderstanding due to a lack of /thîi/ as a noun in the written data which I have already made the observation (see 3.1). In fact, /thîi/ as a noun is commonly used in everyday spoken Thai.

Bisang proposed that /thîi/ as a nominalizer occurred as an extension of a class noun. That is to say, instead of having a noun, a verb of a verb phrase as its attribute, /thîi/ takes a clause
or a sentence as an attribute instead. /thîi/ then becomes a nominalizer. He gave the following as an example of /thîi/ in the function of a nominalizer (Bisang 1996: 559):8

(31) thîi khāw tham nîi māj dāaj phon
Nom he do here NEG bear fruit
‘That he did it is of no use.’

From a nominalizer, /thîi/, according to Bisang, can either develop to a conjunctional noun or a relative marker. By conjunctional noun, Bisang meant a complementizer or an adverbial subordinator. His examples (Bisang 1996: 550) for a conjunctional noun and a relative marker are given here:

(32) phōm jindii thîi khun maa hāa
I beglad CONJN you come see/visit
‘I’m glad you come to see me.’

(33) cōdmāaj thîi phōm jàag-cà khīn hāj khun
letter REL I want write COV give you
‘The letter which I wanted to write to you.’

Here in the first example, /thîi/ is a complementizer of a verb complement. It can be seen therefore that according to Bisang’s grammatical pathway of /thîi/, the transition line is from a noun to a class noun, to a nominalizer and then to a conjunctional noun or a complementizer and a relative marker. The following diagram is mine illustrating Bisang’s transition of /thîi/:

thîi    thîi   thîi     thîi CONJN (complementizer)
N      CN      NOM thîi REL

My study of a historical development of /thîi/ shows that there is a reverse order of nominalizers and complementizers/relative markers as will be discussed below (see 5.2)

Bisang did not mention /thîi/ as a preposition, a classifier or a numeral marker. It is likely that his written data lacked the evidences for /thîi/ in these functions. Besides, Bisang did not mention a /thîi/ compound although he gave an example of /kīn thîi/ ‘to take up room/space’ as a ‘VO compoun’.

16.5.2. Historical development of /thîi/

Table 16.4.4-1 illustrating the nine functions in the four periods shows that /thîi/ as a simple noun, a class noun and a compound noun occurs in every period. However, the distributions of these three types of /thîi/ differ. While /thîi/ class nouns and /thîi/ compounds occurred commonly in the Mid-Ratanakosin and Modern Thai period, they occurred rarely in Sukhothai. In the Ayutthaya period, although /thîi/ class nouns occurred frequently, /thîi/ compounds were rare. These distributions therefore illustrate the gradual shift from a /thîi/ simple noun to a /thîi/ compound. Semantically, this also shows a shift from a concrete meaning of /thîi/ as ‘land’ to a generalized meaning of /thîi/ as person, instrument, or an abstract meaning as a discourse marker.

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8 The transcription in Bisang’s examples follows what was given in his article.
Based on the data of the four periods, it is seen that /thîi/ as syntactic markers, that is, a relative clause marker, a complementizer, a nominalizer and a preposition appeared first in the Mid-Ratanakosin period. The complementizer seemed most likely to begin to form itself in the Sukhothai period where the /thîi/ class noun modified the preceding noun as a noun in apposition. In the Mid-Ratanakosin period, the study reveals that in Rama IV data, the /thîi/ noun complement often occurred after the abstract head noun /kaan/ or /stî/. This abstract head noun could be omitted or in other words, the /thîi/ noun complement could be headless. Observe that this is possible only with /kaan/ or /stî/. Such a headless noun complement most probably gave birth to the /thîi/ nominalizer which has come into a wider use in the reign of King Rama V and later on. It is also observed that the antecedent nouns occurring far apart from their /thîi/ relative clauses were often found in Rama IV data. This made these relative clauses similar to the /thîi/ nominal construction and may help accelerate the use of a /thîi/ nominal.

From my data, /thîi/ as a relative marker occurred in the Mid-Ratanakosin period. Also, it is claimed that /thîi/ as a preposition also appeared at this time. This is supported by the fact that no evidence was found for the syntactic functions of /thîi/ in the Ayutthaya data. Thus, the appearance of a preposition /thîi/ and a relative clause of /thîi/ in the Sukhothai period is doubtful and the interpretation given in this article that they are occurrences of class noun is more likely.

The data in the Mid-Ratanakosin and Modern Thai periods illustrate that among the three relative markers, /thîi/, /s—á/ and /stî/, /thîi/ has become the most common relative marker. As has been said before, /thîi/ as a relative marker can be found in any one hundred-word passage of the modern time.

Lastly, /thîi/ as a classifier seems to be the most recent development of /thîi/. The data shows evidence of /thîi/ classifiers only in Modern Thai.

Below is a diagram that summarizes the chronological occurrences of /thîi/.

16.5.3. /thîi/ as an ordinal numeral marker

Table 16.4.4-1 shows that there was no occurrence of /thîi/ as an ordinal numeral marker in the Sukhothai or Ayutthaya period. It first appeared in the Ratanakosin period. K. Wulff (1934, cited in Egerod, 1976) in giving a list of Chinese and Thai words as evidences for a close relationship between Thai and Chinese, mentioned two Ancient Chinese words: di ‘place’ and diei ‘number one’ (the gloss for ‘one’ in a second word may probably be a convenient way for Wulff to convey the meaning of diei as a numeral). These two words share the same proto tone C2 which is equivalent to Proto Tai tone B2. In modern Chinese, di and diei have developed into a homophonous word /ti 4/ (Prapin Manomaivibool, personal communication). The characters for the two words are still kept and thus, present a good evidence for the existence of two separate words in an earlier time.

In modern Thai as can be seen /thîi/ ‘land’ and /thîi/ ‘ordinal numeral marker’ are homophonous and homographic. There are at least two questions in connection with /thîi/ ‘land’ and /thîi/ ‘ordinal numeral marker’. First, whether these two /thîi/s are two words borrowed from Chinese at different times. For evidences that they were borrowed at different periods are from the fact that in Sukhothai and Ayutthaya periods, data do not show any occurrences of /thîi/, a numeral marker. It was first found in the Ratanakosin period. Also, the fact that /thîi/ ‘a numeral marker’ shares the same vowel as /thîi/ ‘land’ should prove they were borrowed at different times, otherwise /thîi/ ‘a numeral marker’ should have shown a
different vowel. It is most likely that the numeral marker was borrowed late after di and diei have already merged into /tîi/ in Chinese. However, a second question can be posed: a numeral marker might not be borrowed from Chinese but developed from /thîi/ ‘land’ in the Ratanakosin period. To decide on one or the other needs a further study. Suffice it to note here that in most Black Tai dialects (Theraphan Luangthongkhum, Personal communication) and also in Shangsi Zhuang (See 6.2), there are two different words for land and a numeral marker while some other Tai dialects show one homophonous words for example, a Lao dialect in Mueang Hiam (See 6.1).

Since there is still a question whether /thîi/ as a numeral marker is a borrowed word or not, I decide not to put it in the line of development in the diagram above.

16.5.4. A comparison of a grammaticalization pathway and a historical study of /thîi/

Bisang (1996) stated that pathways of grammaticalization described the transitions of linguistic items from one category or one attractor position to another category or another attractor position. This is not, according to him, the historical development although there may be the coincidence between the two. It is this question of coincidence that will be dealt with first in the case of /thîi/.

If we compare the pathway of /thîi/ and the historical development of /thîi/ given in 5.3, we can see that the grammaticalization transition of noun to class noun and the historical development of a simple noun /thîi/ to a class noun /thîi/ coincide well. However, Bisang did not mention the /thîi/ compounds in his transition line. Here the historical study with the recognition of a /thîi/ compound can reveal the gradual semantic development of /thîi/ from a concrete meaning: land, a piece of land, place, to a more generalized and abstract meaning: person, instrument, state.

After a class noun Bisang gave the intermediate step of a nominalizer before the conjunctional noun or the relative marker. This transition step does not coincide with the historical study where the /thîi/ complementizer (what Bisang includes in the category of conjunctional noun) and /thîi/ relative marker seemed to occur before the /thîi/ nominalizer. Bisang quoted Bybee, Perkins and Pagliuca (1994: 11) that in order to trace the origin of grammatical meaning, one has to look at syntax and morphology of the source construction and not only at the referential meaning of the lexical items. This is what probably occurred in the case of the /thîi/ nominalizer. There are evidences that the /thîi/ nominalizer is more likely to occur because of the syntactic occurrence with the head noun /kaan/ rather than because of the extension of the /thîi/ class noun.

The development of /thîi/ preposition is also lacking from Bisang transition line. In the third type of pathways of grammaticalization, Bisang, however, mentioned the RELN or relational noun after the class noun. This seems to occur also in the case of /thîi/. Thus, in Bisang’s second type of pathways of grammaticalization, the RELN step should be included in the transition line.

The last difference in the development of /thîi/ ‘land’ in a grammaticalization process and a historical development is the lack of a /thîi/ classifier. As shown in the historical study, the /thîi/ classifier is found only in the modern Thai data.

16.6. THE EQUIVALENTS OF /thîi/ IN OTHER TAI LANGUAGES

Since /thîi/ ‘land’ in Thai has shown an interesting development as well as an interesting pathway of grammaticalization, a brief survey of two other Tai dialects are made to see whether there is a parallel development or not. These two dialects are a Lao dialect of Mueang Hiam and a Zhuang dialect of Shangsi.

16.6.1. /thîi/ in Mueang Hiam dialect

The Lao dialect of Mueang Hiam is spoken in a suburb of Luang Prabang. My consultant, Thong Phet Kingsada (personal communication, 2001) gave the following sentences:
It can be seen from the above examples that this Lao dialect is similar to Thai in that the words for an ordinal numeral marker and for a relative marker are homophonous. However, since Mueang Hiam Lao dialect has /din/ and not /thîi/ for ‘land’ as in /mii33 din22 txɔɔ34 nɔɔ33 yuu4 nɔɔɔ24 khaay44/ (have-a piece of land-classifier-one-stay -Nongkhai) ‘(I) have a piece of land in Nongkhai’, one may wonder where /thîi44/ a relative marker comes from. Besides, no compound or a class noun with /thîi/ equivalent to the Thai /thîi yuɔ24/ a residence, ‘a place to live’ is /bɔɔɔ44 yuu44/ in Lao. This adds to the question of where /thîi/ a relative marker comes from. A historical study of /thîi44/ in this dialect should be taken to reveal the development of /thîi/ a relative marker and a numeral marker: which one is borrowed from Thai or both are, or none is. As to the question of whether there are two thîi’s, the Lao dialect of Mueang Hiam does not show that there are two different words.

16.6.2. /thîi/ in Shangsi Zhuang

Shangsi Zhuang is a dialect of Southern Zhuang spoken in a town of the same name in Guangxi Autonomous region in China. Two words are given by my informant, You Hui Cai: /thow31/ and /thaw31/. The first word, /thow31/ means ‘land’ as in /kaw33 mow22 thow31 naa22/ (I-have-land-rice field) ‘I own a rice field.’ Unlike Thai, thow31, does not show any further development. Where modern Thai uses a preposition /thîi/, Shangsi Zhuang does not need it, for example:

Thai:

(35) a. khâw kin khâaw thîi bâan chânn
   ‘He ate at my house.’

(36) a. mæn22 yaw35 lun22 kaw33 kæn33 ŋay22
   He stay house I eat meal
   He ate at my house.’

Zhuang:
b. yow³⁵ lun²² kaw³³ mow²² hon²² laay³³
   stay house I have man many
   ‘There are many men at my house.’

Besides, a complementizer or a relative clause marker are not needed to introduce the embedded clause:

(37) a. mɑn²² hun³³ how²² tɑŋ³³ mɑn²² maa²² law²² lun²²
   he glad time/when they come reach house
   ‘He was glad (at the time) when all come back home.’

b. tɑŋ³³ lak²² phɔy²² kɑŋ²² tɔn³³ nɛ³⁵ thak²² tɑakɔy³³ kaw³³
   clf man speak that right brother I
   ‘The man speaks, that man, is my brother’

For an ordinal numeral marker, Shangshi Zhuang uses /thay³¹/ as in /thay³¹ ʃam³³ tu³³ kav³⁵/ (numeral marker-three-classifier-chicken) ‘the third chicken’. It can be seen thus that the Shangsi Zhuang dialect has two different words for ‘land’ and ‘an ordinal numeral marker’ similar to Chinese although it does not show a homophonous word like Chinese. Also, there is no development of either word for other functions.

The above brief surveys of the words for land, a piece of land and an ordinal numeral marker in the two Tai dialects in comparison to Thai shows that the Thai /thîi/ has gone through a unique development. Also, whereas Thai and Laos have only one form, Zhuang shows two distinct words with two distinct forms. A further study however is needed to explain why there are two words of /thîi/ in some Tai dialects and only one word in others.

Another point to be made in connection with ‘thîi’ in three Tai dialects is that Thai has shown a unique development of /thîi/ ‘land’, while Zhuang does not illustrate any development. It will be interesting to study further whether other South Western Tai dialects share the phenomenon as Thai or as Zhuang.

16.7. CONCLUSION

The historical study above reveals that /thîi/ ‘land, a piece of land, place’ has a unique and long history in Thai compared to some other Tai dialects. The historical development does not differ much from the grammatical pathway given by Bisang except, significantly, in the area of a nominalizer and a complementizer. The historical study clearly and interestingly shows the gradual semantic development over time. The abstract meaning of /thîi/ has become more frequent in the last two periods. Besides, it is evident that the derivation of /thîi/ into syntactic function words has been late, that is, only in the last two periods. These syntactic function words reveal Thai sentences which have become more complex with embedding and modifying constructions. This is evident in comparison to the Tai dialects such as Shangshi Zhuang.

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CHAPTER SEVENTEEN

BIPOLAR DISTRIBUTION OF A WORD AND GRAMMATICALIZATION IN THAI: A DISCOURSE PERSPECTIVE

Shoichi Iwasaki

17.1. INTRODUCTION

The recent research on grammaticalization in Thai by Matisoff (1991), Bisang (1996), Diller (2001a), and others has greatly advanced our understanding of the diachronic linguistic process in this language. It is found repeatedly that Thai, an isolating language, shows many instances of transformation in which lexical words such as nouns and verbs have come to take on grammatical functions and have become, or are on the way to becoming, classifiers, auxiliaries, prepositions, complementizers, and conjunctions. Drawing on such previous research, this chapter attempts to provide a new perspective on grammaticalization by examining language changes that are observable in discourse and the actual language use of speakers. The discourse perspective is both possible and necessary. It is possible because language changes are always on-going and observable synchronically. It is necessary because changes in linguistic structures do not happen in a vacuum, but rather they proceed through actual deployment in discourse. This theoretical stance echoes the spirit of the ‘usage-based model of language’ (Langacker 1988, 2000; Kemmer and Balow 2000) and promotes the proposal that it is crucial to seriously take into account the language users’ cognitive involvement in discourse in the study of language change. Based on such assumptions, the current paper concerns how discourse profiles of lexical items, or, more specifically, repeated patterns of their placement in discourse, lead to a structural reanalysis and to eventual grammaticalization into function words. The study first calls for attention to a particular distributional pattern of some words, termed here as the ‘bipolar distribution of a word,’ and presents the theoretical framework in which this pattern can be analyzed. It then examines in detail actual discourse environments for the bipolar distribution of two words, ḫāy ‘give’ and lēzw ‘finish,’ using the proposed framework.¹

17.2. ‘BIPOLAR DISTRIBUTION OF A WORD’ AND THE THEORETICAL FRAMEWORK

This section first describes the ‘bipolar distribution of a word’ observable in Thai discourse, and then two theoretical notions, structural reanalysis and layered sentence structure, will be proposed to account for the phenomenon.

Examination of discourse profiles of certain Thai words reveals a pattern which may be termed as the ‘bipolar distribution of a word.’ In the bipolar distribution, the same word appears at the opposite ends of a linguistic unit (e.g., a sentence) with different functions. The following is intended to show this pattern schematically:

¹ Parts of this paper were presented at Southeast Asian Linguistics Conferences (SEAL X in 2000 in Wisconsin and SEAL XI in 2001 in Bangkok).
In (1-a) X is a word, and it appears at the beginning of a unit as X1, and at the end of a unit as X2. As shown in (1-b), X1 and X2 may appear at the two poles of the same unit. When X1 and X2 have an identical shape (which is often the case), the different functions ascribed to them are defined exclusively by their positions. Words which show the bipolar distribution include $hây$, $lêew$, $loôy$, and $dây$. These words are function words of various sorts when they appear at a sentence’s periphery, but they may also appear as verbs. Their meaning as verbs are $hây$ = give; $lêew$ = finish; $loôy$ = pass, go beyond; and $dây$ = get, obtain. What this means, in light of the general pattern of grammaticalization, is that the bipolarization is a consequence of a process whereby a lexical verb changes into a function word. Below are some examples of the bipolarization pattern.

(3) $hây$ ‘give’ (CB #114: 163)

$hây$ mŏo trùat $hây$ chây mây
CAU doctor examine BEN right Q
‘You had the doctor examine you, right?’

$lêew$ ‘finish’ (CB #57: 11)

$lêew$ kûun nî pay $lêew$ lôo
CONJ evening this go ASP Q
‘And, did you already go (there) tonight?’

$loôy$ ‘pass’ (CB #90: 45)

$loôy$ $hây$ khâw tôn nân $loôy$
CONJ give he then D. MOD
‘So, I gave (mangostins) to him then.’

$dây$ ‘get/obtain’

(CB #105: 45)

kô $loôy$ mây $dây$ fâak phîî nom pay
so NEG AUX leave o.sister (name) go
‘So I didn’t get to leave it with Sister Nom.’

(CB #97: 35)

fâak phîî nom mây $dây$ lôo
leave o.sister (name) NEG POT SFP
‘Can’t you leave (it) with Sister Nom?’

As noted earlier, the words used in the above examples are not lexical verbs, though they may appear as verbs in some other contexts. According to a general tendency in grammaticalization, it is possible to assume that the words appearing here are later developments from a full-fledged verb. From the synchronic perspective, this situation is what Hopper (1991) calls ‘layering’ of older and newer functions of words. However, the functions associated with some words are extremely diverse and not simply explained as semantic
extensions. Thus, a careful examination is necessary of how some words have come to end up in certain positions in a sentence and have assumed a variety of functions.

Two notions are relevant when analyzing the process of bipolarization as a symptom of grammaticalization: structural reanalysis and the layered structure of a language unit. Structural reanalysis is a process involved in many cases of grammaticalization in general, especially at its beginning stage. It is a process which deletes, adds, or shifts word boundaries, creating a new word and assigning a new function to an old word. Langacker (1977: 65) notes that boundary shift is less common than boundary loss (but more common than boundary creation). But many instances of grammaticalization described here are consequences of boundary shift. From the point of view of a usage based model, the structural reanalysis can be seen as a process in which a sequence of constituents is given a different structure from the originally intended one due to its ambiguous constituent arrangement, which allows different interpretations.

The second notion for the discussion of bipolarization is a view which assumes that a sentence consists of several concentric layers. A general model of layered structure has been proposed by Foley and van Valin (1984), and a specific model for Thai by Diller (2001b). The view adopted in this study is similar to Diller’s model. Foley and van Valin recognize three layers of a clause in their model: ‘nucleus,’ ‘core,’ and ‘peripheral.’ The nucleus in most cases corresponds to the predicate; the core includes the subject and object, and the periphery contains secondary arguments and spatio-temporal expressing arguments.2

The model in (4) below shows how a sentence might be structured according to this view.

\[
\begin{array}{c}
\text{outer} \\
\text{mid} \\
\text{CORE} \\
\text{mid} \\
\text{outer}
\end{array}
\]

The organization of layers proposed here is slightly different from the Foley and van Valin model due largely to the fact that the current model takes the larger unit of a sentence as its descriptive scope rather than the more restricted unit of a clause found in Foley and van Valin’s work. The ‘core’ in the current model refers to the most internal layer containing the semantic backbone of the unit. It may take a simple form consisting of a predicate and its associated arguments, or the complex form consisting, for example, of serialized verb phrases. In the ‘mid layer’ lies sentence modality and discourse salient information, represented by such words as sentence modals and left- and right-dislocated words. With these two layers a sentence expresses a discourse sensitive complete proposition, simple or complex. The ‘outer layer’ contains elements outside of the proposition. In particular, it hosts discourse markers, or conjunctives, and speech act related sentence final particles and other discourse modality expressions.

A structural reanalysis may occur within the most internal layer, often resulting in the creation of new prepositions and auxiliaries. It may occur across the boundaries between different layers, creating more discourse sensitive markers (e.g., benefactive sentence markers). Also, as discussed in detail later, a word may spill out from one part of a sentence to another part of a different sentence.

\[17.3. \textbf{DATA}\]

With the two notions of structural reanalysis and the layered structure of a sentence, the remainder of the chapter analyzes two specific words, hāy ‘give’ and lēew ‘finish’ in actual discourse contexts. Thus, it is in order at this point to describe the data used in this study. There are three major data sets. The first set (identified as CB = Child Birth) consists of 38 telephone conversations. These conversations were recorded at one household for a period of

2 Interestingly, a similar layered structural model has been also proposed in traditional Japanese linguistics, most notably by Tokieda (1973) and his students.
time in the late 1980’s, during which one female member of the family was expecting a baby and finally delivered a baby boy. As a consequence, many people called to check if she had delivered her baby yet. These are very interactive speech activities. The second data set (identified as PN) is a collection of 21 Pear Story narratives. A speaker reports to an interviewer what they saw in a short video, entitled Pear Story, with only ambience noises but no speech (see Chafe 1980, for descriptions of this project). In this film, a number of participants come and go and participate in different activities involving pears. The narratives are in most part monologues with minimum interaction. The third data set (identified variously) consists of a miscellany of data, including the Northridge earthquake conversation data collected in Los Angeles in 1994 (see Iwasaki and Horie 1998), transcripts of radio talk show from the 1960’s and other personal narratives.3

17.4. THE CASE OF ʰʰʸ

There are eleven different uses of ʰʰʸ identified in the data. The functions and their relationship with each other are summarized in Figure 17.4-1. Most of these instances of ʰʰʸ appear within the most inner, or core, layer, either at the anterior, posterior, or internal position; but two, (c) and (d) in the diagram, appears in the mid layer.

**FIGURE 17.4-1: FUNCTIONS OF ʰʰʸ**

Different functions along the vertical axis have different structural characteristics, as indicated on the left or right side of each horizontal line. Functions lined up on the same horizontal line are identical structurally but different on the basis of their semantic characteristics.

Following a typical pattern of grammaticalization, we assume that all instances of ʰʰʸ with grammatical functions, i.e., (b) through (k), are derived from the lexical verb ʰʰʸ; (a). When it is used as a lexical verb, ʰʰʸ is followed by either a Patient or Recipient NP. See (5).

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3 Both the ‘Child Birth’ and ‘Pear Story narrative’ data were supplied by Supa Chotchoey. The radio talk show transcripts were supplied by Russell Campbell.
In the development of the functions of 愫, there are two distinct branches. One is the benefactive branch, (b) through (d), and the other the causative branch, (e) through (k). The benefactive branch will develop the posterior 愫 (i.e., after S), while the causative branch will develop the anterior 愫 (i.e., before S) via the centrally located 愫.

The pathway for the benefactive meaning, especially from (a) to (b) is a common development across languages. In Thai, this process can be understood as a consequence of clause serialization, which involves a boundary loss, as schematically shown below.

(6) (i) Clause serialization

```
[[[phom suu nangsuu] [(愫() lek)]]]
I buy book give (name)
'I bought a book, and gave it to Lek.'
```

(ii) Reanalysis (boundary loss)

```
[[[phom suu nangsuu 愫 lek]]]
I buy book give (name)
'I bought a book for Lek.'
```

It is assumed that a clause boundary disappeared as the type of construction shown in (6-i) was used repeatedly. Notice that 愫 was near the anterior of the second clause in (6-i), but its relative position, after reanalysis with the boundary loss is closer to the posterior position in (6-ii). When this process proceeds, two things are bound to happen. First, the lexical meaning of 愫, i.e., object transfer, becomes weakened, leading to a semantic extension of 愫 for a more abstract situation, as shown in (7).

(7) BENEFACTIVE (1) (S 愫 NP: 愫 as a ‘preposition-like’ word)

```
[[[thambun 愫 khun taa ]] ] (CB#59: 31)
make.merit give grandfather
'(We will) perform merit making for our grandfather.'
```

The other development is ellipsis of the Recipient NP after 愫, leading to a further reanalysis, which pushes 愫 out of the inner core into the mid layer to become a sentence modal.

(8) BENEFATIVE (2) (S 愫: 愫 as a sentence modal)

```
soon MOD tell give SFP
'(I’ll) tell you in a moment.'
```
The structure represented by (8) has also acquired a different function, that of a malfactive meaning, as shown in (9).

(9) MALEFACTIVE (S ʰāy: ʰāy as a sentence modal)

[[[ tɔ̂p nāa] ʰāy]] (Students)

hit face give

‘(I) will slap your face.’

Thus, as seen above, in the benefactive branch, i.e., functions (b) through (d), ʰāy moves towards the posterior of the core layer and finally moves out into the mid layer. In contrast, ʰāy moves forward in the core layer in the causative branch, i.e., (e) through (k). As seen in Diagram 1, ʰāy in the causative branch first develops the purposive ʰāy. This is achieved through the process of amalgamation (apo koinou). Amalgamation is like a serialization but combines two clauses with one common element as a pivot. In the following schematic representation, the two clauses are amalgamated with phuan ‘my friend’ as the pivot.

(10) (i) [[[pʰōm sū maŋsū maa ʰāy phuan ] [pʰuan àan ]]]

I buy book ASP give friend friend read

‘I bought a book for a friend, and he read it.’

(ii) (Reanalysis: Boundary loss + Amalgamation)

[[[pʰōm sū maŋsū maa ʰāy phuan àan]]]

I buy book ASP give friend read

‘I bought a book for a friend to read.’

Let us examine an actual example of purposive ʰāy in (11).

(11) PURPOSESIVE (S ʰāy S)

[[[pʰak tʰúrian pay ʰāy cāw ʰān kin ] ] nỳ ] (CB#90: 169)

leave durian go give PFX(nick.name) eat SFP

‘May I leave a durian (with you) for Fat Boy to eat?’

In this example, cāw ʰān is the pivot, with which two clauses are amalgamated. ʰāy in this sentence still retains a good part of the meaning associated with the lexical verb ʰāy ‘give,’ because this sentence means essentially that ‘I leave a durian with you for the purpose of giving it to Fat Boy.’ However, as the grammaticalization process proceeds, the literal sense of giving will be weakened. Examples (12) and (13) are such cases.

(12) PURPOSESIVE/INDUCIVE (S ʰāy S)

[[[sʰoo ʰāy khāw duu ] ] ] (Earthquake)

show give he see

‘I will show (something for) them to see.’

(13) PURPOSESIVE/INDUCIVE (S ʰāy S)

[[mɔ̂ khāw [ lāw ʰāy fan ] ] ] (CB#114: 170)

doctor- he tell give listen

‘The doctor told (something for me) to listen to.’
In these examples, the first event (‘show’ and ‘tell’) is done for the purpose of the second event, and _hây_ does not have the literal sense of giving some object to someone. It should also be noticed that when the lexical meaning of _hây_ gets weakened, the purposive meaning also gets weakened, and in some cases _hây_ can also be interpreted as the inducive marker, (f). So the examples above may be interpreted with the inducive sense: ‘I will show something, and this action will induce the event of your seeing it’ and ‘the doctor told me something, and this action induced the event of my listening to it.’ The next example of _hây_ indicates the inducive meaning more strongly. That is, the speaker’s calling Brother Chit on the phone will induce the event of Chit’s calling the addressee in return.

(14) INDUCIVE (S _hây_ S)  (CB #115: 48)

[[díaw [ phnom cà pêkliŋ _hây_ pê̤i̤ chît kháw pêk ] _hây_ ] ná ]

soon I MOD phone give PFX-(name)-he phone give SFP

‘I will call (him) so that Brother Chit will call you, okay?’

It is a well-known fact that the range of classes of words co-occurring with the target word in grammaticalization will increase over time. Thus, in a later development, _hây_ can be preceded by a complement taking verb such as _bôck_ ‘tell’ _nät_ ‘make an appointment’ _yûom_ ‘allow’ _sàng_ ‘order,’ etc. It is also a well-known fact that it is the complement rather than the complement taking verb which is pragmatically more salient in this type of sentence, since complement taking verbs simply classify the type of communication process, while the complement informs the content of communication. In this structure with a complement taking verb, what follows _hây_ is no longer a purpose for some other event, but rather a significant event which is, or will be, induced by an inducing event coded by a complement taking verb. In other words, the act of telling something will induce a certain result. Some examples of complement taking verbs preceding _hây_ follow.

(15) INDUCIVE (S _hây_ S)

kháw bôck _hây_ thoo pay thâam  (CB#117: 14)

he tell give phone go ask

‘He told me to call and ask.’

cà _yûom_ _hây_ kláp pay (earthquake)

ASP allow give return go

‘(They) would allow (us) to go back (to our rooms).’

môc _nät_ _hây_ pay ţiik lêew lô  (CB#114: 11)

doctor make.appointment give go again ASP Q

‘Did the doctor make an appointment for you to go (to see her) again?’

There are two minor extensions of the inducive type of _hây_: non-interventive _hây_ (g), and adverbial _hây_ (h). With the non-interventive _hây_, the second event has a propensity to occur, and the first event is simply a process leading to the second event, as shown in (16) below. With the adverbial _hây_, the second part is a state which will be induced.

(16) NONINTERVENTIVE (S _hây_ S)

tôŋ rôc _hây_ pûat thôçon  (CB#94: 23)

must wait give hurt stomach

‘(You) have to wait till you have a contraction.’
(17) ADVERBIAL (S าะย V)

duu าะย รัประอย (CB#58: 14)
see give complete
‘(After) you finish seeing her, . . .’

A more significant development of าะย is the development of the causative and emphatic าะย. Both types of าะย appear at the beginning of the inner layer.

(18) CAUSATIVE (NP าะย S)

าะย ช่วย- ฆ่าว ทามาาน (CB#114: 115)
give worker he work
‘(I will) have workers work.’

(19) EMPHATIC (NP าะย S)

าะย ส่อง ฆ่าว แม่ (CB#114: 183)
give send news come
‘Send us the news.’

Emphatic าะย simply adds force to the following verb and can be omitted without altering any of the propositional meaning of a sentence. The causative meaning of าะย is already detectable in some cases of the inducive าะย. The importance of the inducing event becomes substantially weak as the saliency of the induced event becomes stronger, and the inducing event finally is no longer expressed.

In the next excerpt, าะย appears in two speakers’ turns. This example indicates how structural reanalysis may proceed in actual discourse context.

(20) INDUCIVE/CAUSATIVE (S าะย S) (#CB106: 34-35)

34A: ฆ่าว บอก าะย ลาา ฆรัน วาน
she tell give leave half day
‘She told me to request to leave work early.’

→ 35 B: ?ซ ช่วย าะย แม่ ยุว ก้า น้อย
oh yes give come stay with (name)
‘Oh, yes. So that you can stay with Noy.

Speakers A and B are sisters and they have another sister C. B is pregnant. In line 34, A uses the inducive าะย with the complement taking บอก. This sentence means that C told A to make a request so that she (A) could leave work early in order to assist Speaker B when she (B) goes to deliver her baby. Now on line 35, Speaker B reports that C also told her (B) that if A leaves work early she (A) can come to take care of her (B’s) child at home when B goes to the hospital. Notice that line 35 conceptually includes Sister C as a producer of a sentence ‘แม่ ยุว ก้า น้อย’, but a noun phrase referring to C did not appear in the sentence. That is, structurally าะย now appears at the beginning of a sentence, and simply signals that what follows is some event that is induced.

Another clue to the process of obtaining the causative าะย may be found in example (21). In this utterance, the inducing event of ordering is first expressed in a separate sentence, ฆ่าวส่ง รัว วาย ‘he ordered me,’ and then the complement headed by าะย is added as an
independent segment. It is possible to analyze this ʰʰʸ as the inducive ʰʰʸ, or as the causative ʰʰʸ. This is part of the stage identified as (i) in Figure 17.4-1. These two possibilities for analysis are not only important for analysts, but significant for users of the language who assign a different structural analysis. In other words, this type of ambiguous situation will bring about a change in grammatical structure and the birth of new functions.

(21) INDUCIVE/CAUSATIVE (S ʰʰʸ S)  (CB #114: 47)

```
he order ASP give tell with nurse way this
‘He ordered me to tell the nurse this way.’
```

The next is a more extended discourse segment which also shows a possible trace of the development of the causative ʰʰʸ.

CB #114

16:B lêw tòn-níi pay trùat thíi khiinik khaw-níi kò
CON now go examine at clinic Time this HP

trùat ʔík thíi nàŋ kháw kò laąy bòök wáa
examine again CLS one he HP CONJ tell say

nìa dìaw khùûn nìa hây pay sàam thûm
DM ADV evening this give go three hour

17:A pay nócón laąy
go sleep SAdv

18:B sàam thûm kwà kwàa hây pay nócón
three hour over over give go sleep

lêw hây bòök pùat thùûn pen ʔaray yaŋðíía
CONJ give tell hurt stomach be what SFP

tè ciŋ ciŋ ʔem yaŋ máy pùat laąy
but real real (name) yet NEG hurt SAdv

lakhùûn lakhùûn sǒŋsây
act act I.think

19:A hây ...

19:B hây ...

20:B ʔoø hây bòök wáa pùat thùûn ʔaray yaŋðíía
INJ give tell say hurt stomach what SFP

kháw ca hây ʔòök phùûñíi
he MOD give deliver tomorrow
21:A  kháw  ca  háy  ?ɔɔk  phrûññíi
       he    MOD  give  deliver  tomorrow

22:B  ?ɔɔ
       INJ

23:A  kháw  ca  ?aw  ?ɔɔk  ló
       heMOD  take  deliver  Q

       INJ  he  give  (name)  deliver  tomorrow  SFP

25:A  ?ɔɔ
       INJ

(English translation)

16:B Then I went to the clinic to have them check me.
   Now they checked it again.
   So they said I would go there tonight at 9 PM.

17:A  To stay there.

18:B Around 9 PM (they told me) to stay there
   and (they told me) to say I have a contraction, or something like that.
   but actually I don’t have a contraction yet
   Fake, fake, I think.

19:A  (They told you) to say that you have a contraction?

20:B  Yeah. (They told me) to tell them I have a contraction, or something like that.
   They would have me deliver (the baby) tomorrow.

21:A  They will make you deliver tomorrow?

22:B  Yeah.

23:A  Will they induce labor?

24:B  They will make me deliver the baby tomorrow, you see?

25:A  Yeah.

In the last line of 16, Speaker B sets up a speech quotation environment with bɔɔk ‘tell.’
Here, the doctor’s act of ‘telling’ will induce an event of the speaker’s ‘going there at 9 PM.’
Notice, however, that in the subsequent discourse other induced events are also expressed,
‘going to sleep (in the hospital)’ (line 18) and ‘telling the nurse that you have a contraction’
(lines 18-20). What needs to be emphasized here in these subsequent cases is that there is no
explicit verb indicating the inducing event of ‘telling,’ making háy the first element in the
sentence. That is, conceptually, each event can be understood as an event induced by the
doctor’s act of telling (i.e., the doctor told me to do ...), but structurally the act of telling is
not expressed and thus takes the form of a causative sentence. Such an ambiguous context is required for the structure to change.

This section has examined how the lexical verb ᵁᵃʸ ‘give’ develops various functions. Two branches of development which cause the bipolar distribution of this word were identified. Examination of actual discourse contexts clarified how some ambiguous situations lead to a reanalysis of this word. The development of different functions happen in most cases within the core of the sentence structure, but two functions, (c) and (d) in Figure 17.4-1 appeared when the word ᵁᵃʸ crossed the layer boundary and settled in the mid layer.

17.5. THE CASE OF léëw

The previous section examined the case of ᵁᵃʸ and analyzed mostly how a word may acquire different functions as it moves to the edge of the core layer. This section will consider the case of léëw and show that structural reanalysis may sometimes occur across a sentence boundary. More particularly, the léëw which appears toward the end of a sentence may be reanalyzed as an element at initial position of the following sentence. This process transforms the aspectual léëw into a discourse conjunctive léëw. First observe different functions of léëw.

(22) Main Verb⁴ (constructed)

léëw ru yaŋ
Finish or not yet
‘Have you finished yet?’

(23) Aspectual Auxiliary (Pear Story #19)

kháw kɔ thiip pay léëw
He HP kick go ASP
‘He has already gone with the bike.’

(24) Pragmatic Particle (constructed)

taay lá?!

die PP
‘Oh, my!’

(25) Discourse Conjunctive (Typhoon Narrative, p. 10)

fôn man kɔ tɔk yàŋŋ nàk loŋ
rain it HP fall ADV heavy SA
léëw cháŋ kɔ wàa
CONJ I HP think
ʔé thammay fôn màn thʊŋ tɔk phiŋòkkáti
uhm why rain it reach fall unusually
‘It was raining very hard.

And I thought,

Uhm, why is it raining unusually (hard)?’

⁴ In Lao, léëw still functions as a full verb, which can be followed by the homophonous auxiliary as in léëw léëw (Carol Compton and Anthony Diller, personal communication, May 7th, 2000.)
Developments (22) through (24) will be described first. Though archaic to many speakers, 
*léew* may still appear as a main verb. The change from a main verb meaning ‘finish’ to a
completive aspectual auxiliary is well attested in many languages of the world (Bybee et al. 1994; Matisoff 1991: 436-7). Auxiliarization, a typical grammaticalization process for verbs
in Thai (e.g., Matisoff 1991), is a result of verb serialization. That is, when *léew* appears
frequently after another verb to indicate that an action has completed, its full status as a verb
becomes weakened. When *léew* loses its verbal meaning, it moves out of the core layer and
becomes a part of the mid layer appearing after the core. The layered structure is presented
again below for review.

```
(27)  [ outer  [ mid   [ CORE ]   mid  ] outer   ]
```

When *léew* appears in the mid layer frequently enough, it becomes susceptible to being
reanalyzed as an element of the outer layer and becoming a sentence final particle. In fact, as
*léew* has acquired this pragmatic function, its phonological shape has been reduced to *Is* or *Is* (Cooke 1989: 11). In other words, an element of the mid layer attaches itself and settles in the
outer layer.

Development from (25) to (26) can be explained as a functional extension from a clause
conjunction to a nominal conjunction. This direction of development is supported because the
former is realized either as the phonologically full form *léew* or the reduced form *Is*, while
the latter appears only as the reduced form.

The above description of possible developments of functions associated with *léew*
produces two separate paths associated with this word.

(28)  Grammaticalization Paths for *léew*

(a)  Verb > Aspect > Pragmatic particle
(b)  Discourse conjunctive > Noun phrase conjunctive

However, it is not immediately clear how these two pathways are related. It is proposed here
that the discourse conjunctive developed from the aspectual function, so the proposed
complete grammaticalization paths for this word can be summarized as follows:

*Pragmatic particle*  

```
Verb < Aspect
```

```
Discourse conjunctive < Noun phrase conjunctive
```

**FIGURE 17.5-1:** OVERVIEW OF GRAMMATICALIZATION PATH FOR *léew*
Notice that the position of ńēw in the pathway, Verb < Aspect < Pragmatic particle, is posterior, while it changes to anterior when the Aspectual ńēw develops into the discourse conjunctive. This process can only be understood under an assumption that structural reanalysis may apply to units produced contiguously in discourse; that is, ńēw as an aspectual marker that appears in the mid layer of one sentence may be reanalyzed as an initial element of the following sentence due to its ambiguous position in discourse (cf. Bisang 1996). The development process can still be seen in the way that ńēw appears in certain cases of discourse, which are demonstrated immediately below.

In the next excerpt, ńēw appears as the phrase sēt ńēw. In this case, ńēw is grammatically an aspectual marker attached to the verb sēt ‘finish,’ but the phrase as a whole serves the discourse conjunctive function of connecting the next utterance to the prior discourse. In other words, ńēw is participating in dual functions.

(29) (Pear Story # 4)

36  (0.5) sēt ńēw (0.4)děk sāam khon nǐa
finish  ASP  child  three  CLS  TOP

37. kē  mīi khon nūŋ kē  lēn pīŋpōŋ(0.3) kūk kūk kūk nǐa
HP  exist  CLS  one  HP  play  ping-pong  bonk bonk bonk  TOP

‘And then, (among) these three children
there is one child who is playing ping-pong ... bonk bonk bonk’

In the next excerpt, ńēw appears twice in line 48. The first ńēw appears in the same phrase just examined, so this ńēw can be analyzed structurally as an aspectual marker. But sēt ńēw as a whole has a conjunctive function as described above. The same word, ńēw, appears again on the same line after a pause, functioning this time as the initial element of a sentence. (The sentence, however, was not completed.) Because it is detached from the verb sēt ‘finish,’ it is no longer an aspectual marker, and its conjunctive function is isolated. Here, a transition from an aspectual to a discourse marker can clearly be observed.

(30) (Pear Story #16)

48  (0.9) sēt ńēw (0.5) ńēw děk sāam khon kē
finish  ASP  CONJ  child  three  CLS  HP

49  (0.8) děk nān kē ... cūŋ cākkayaan tāo pay
child  that  HP  lead  bicycle  continue  go

50  děk sāam khon kē dōn pay
child  three  CLS  HP  walk  pass  go

‘And then, and the three children then.
– that child continues walking with the bicycle –
the three children walk further.’

The next excerpt shows more examples of structurally ambiguous cases.
19 phoɔ̌ duy tem krapaw sɔ̄ŋ chɔŋ leəw
when get full pocket two CLS ASP
khaw kɔɔ ... lonŋ maa
he HP descend come

20 (0.2) khaw mii banday tay khun pay thii ton ni aná há
He have ladder climb ascend go at tree this PP SLP

21 =>(0.4) sęt leəw kɔ ... lonŋ-maa
finish ASP/CONJ HP descend-come
..lonŋ-maa leəw kɔ ... ?aw
descend-come ASP/CONJ HP get

22 (0.3) ... ?aw ?ąy-lųukpiič nia sawa ndŋ-pay nay nay takhāa
get PFX-peach this put descent-go in in basket

‘When he gets two pockets filled, he then comes down.
He has a ladder to climb up the tree, OK?
And then, he comes down. When he has come down, he takes,
takes the peaches and puts them in a basket.’

Notice the first leəw in line 21 can be analyzed as an aspectual marker attached to the verb sęt ‘finish,’ and the sentence may end after leəw. However, this leəw is immediately followed by kɔ (an adverbial highlighting particle), and thus can be interpreted as the initial word of the second clause which follows (lonŋ-maa). The second instance of leəw on the same line shows a parallel pattern. Schematically, these instances of leəw may be shown as follows:

Verb + leəw + kɔ – V

Two bracketing possibilities are:

[ Verb + leəw ] [ kɔ – V ]
[ Verb ] [ leəw + kɔ – V ]

Now observe the following utterance produced by a female narrator.

(32) (Train Accident)

2 phoɔ̌ ... <xx> cháʔ rōfay
when <unclearvhearing> train
phoɔ̌ ?aw khɔŋ khun sàthaañii wàtsūwan
when take thing up station Watsuwan
The *léew* in line 3 again has a dual function. What is extremely interesting is that the person (native speaker of Thai) who transcribed this portion actually transcribed it as follows:

(32)’  phəɔ khùn sèt léew léew rótfay ?ɔok càak wátsúwan

when ascend finish ASP/CONJ train depart from Watsuwan.

This clearly shows that this transcriber recognized the dual function and wrote, most likely unconsciously, *léew* twice to match the two functions.

This section has analyzed how *léew* may have developed different functions. Being a verb meaning ‘finish,’ it naturally developed into an aspect marker, then into a pragmatic particle. In this process, *léew* appears toward the end of a sentence. The same word with the discourse conjunction, on the other hand, appears at the beginning of a sentence. It as proposed that this development is a consequence of a reanalysis applied across two sentences.

17.6. CONCLUSION

This chapter put forward a proposal that lexical verbs acquire more grammatical functions as they change their positions within or across layers in a sentence, resulting eventually in a bipolar distribution of a word. The layers, as suggested in the chapter, work as machinery that processes and procreates linguistic materials. This idea is similar to that of ‘attractor positions’ proposed by Bisang (1996), which explains how verbs and nouns acquire different functions in the process of grammaticalization. While attractor positions are concerned with grammaticalization within the core, the layered structure proposed here is concerned with grammaticalization not only within the core but also between the different layers. In addition, some grammaticalization applies inter-sententially, i.e., between the mid or outer layer following the core of one sentence and the initial outer layer of the following sentence. This chapter considered actual discourse environments which promote the process of grammaticalization. As stated at the outset of the chapter, this perspective is essential in understanding language change, since language changes do not happen in a vacuum but are initiated in the actual use of language.

REFERENCE


CHAPTER EIGHTEEN

DIRECTIONAL VERBS AS SUCCESS MARKERS IN THAI:
ANOTHER GRAMMATICALIZATION PATH

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18.1. INTRODUCTION

Directional verbs refer to verbs which denote movements described in terms of their directionality with respect to a **Landmark**, being directed towards or away from it. The landmark is not treated as the source nor the destination of a movement. Rather, the landmark is a known point in the path of movement and it may be construed as a possible source or destination if the movement were to be conceived as starting at one landmark and continuing to another landmark. Any physical entity may function as a landmark in specifying the direction of the movement. On this basis, directions may be specified as towards and away from such entities functioning as landmarks.

The Thai directional verbs to be examined in this paper are: **khutn** ‘ascend’, **loj** ‘descend’, **khaw** ‘enter’, **pok** ‘exit’, **paya** ‘go’, and **maa** ‘come’. The verbs **khutn** ‘ascend’, and **loj** ‘descend’ denote directions with respect to the sky and the ground, which are salient entities in the environment. The verbs **khaw** ‘enter’ and **pok** ‘exit’ denote directions with respect to an enclosed space. The verbs **paya** ‘go’ and **maa** ‘come’ denote directions with respect to the speaker’s center of attention. These six verbs can occur as single verbs in simple sentences, and as initial as well as non-initial verbs in serial verb constructions. When they occur as non-initial verbs in serial verb constructions, they may or may not be followed by a noun phrase object. It is generally known that directional verbs across languages are likely to grammaticalize into different types of grammatical markers, such as coverbs, postverbs, adpositions, adverbs, auxiliaries indicating tenses, aspects, and modalities. Most of the grammaticalized markers developed from directional verbs indicate meanings in spatial, temporal and attitudinal domains. This paper aims to introduce another type of grammaticalized marker which the six directional verbs evolve into. We will restrict our attention in this paper to the six directional verbs which appear in the following pattern: NP1

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1 According to Talmy (1983) and Langacker (1987), the description of a location of an object involves the recognition of some kind of asymmetrical relation between the object we want to locate and the object with respect to which we locate it. We may recognize asymmetrical relations with respect to size, containment, support, orientation, order, direction, distance, motion, or a combination of these. In describing the asymmetrical relation between entities in a spatial situation, Talmy (1983) borrows the terms ‘figure’ and ‘ground’ from Gestalt Psychology (Köhler 1929, Koffka 1935) to label the object to be located (Figure) and the reference object (Ground), whereas Langacker (1987) introduces a different pair of terms, namely, Trajector and Landmark. In this study, Langacker’s terms will be adopted.
TV NP2 DV (NP=noun phrase, TV=transitive verb, and DV=one of the six directional verbs), and which indicate a change of location of an entity crucially involved in an agent’s action. The change of location of the entity entails that the agent is successful in performing the action. We will adopt the ad hoc label ‘directional verbs’ for these six directional words occurring as single verbs, and occurring both initially and non-initially in serial verb constructions until we reach section 18.3 of this paper. The sentences below illustrate the six Thai directional verbs which occur in the syntactic environment described above and which are used in this semantic function. It is noted that the directional verbs with this meaning are found to occur more frequently in negative and interrogative sentences than in affirmative, declarative sentences. Therefore, all examples given below are negative sentences for the sake of pragmatic felicity. (See section 18.2.3 for more details.)

(1) khāw yok klï ñ māy khun
   he lift box not ascend
   ‘He tried to lift a box up but was not successful.’

(2) khāw koït puï māy lon
   he press button not descend
   ‘He tried to push the button down but was not successful.’

(3) khāw cõ? kamphaï māy khāw
   he pierce wall not enter
   ‘He tried to pierce the wall but was not successful.’

(4) khāw lāñ ñ khrâap sókkaprōk māy ?ōk
   he wash stain dirty not exit
   ‘He tried to wash the stain out but was not successful.’

(5) khāw khên roï māy pay
   he push car not go
   ‘He tried to push the car away but was not successful.’

(6) khāw taam tamriat māy maa sâk thii
   he call upon police not come even time
   ‘He kept calling upon the police but they did not show up (even once).’

Specifically, this paper aims to:
(a) analyze semantic types of main verbs that co-occur with the six directional verbs functioning as success markers in the syntactic pattern described above;
(b) provide a semantic account which motivates the use of the six directional verbs to indicate success of the performance of the agent’s actions;
(c) account for grammaticalization of the six directional verbs into success markers.

Section 18.2 deals with the first two objectives mentioned above. The grammaticalization process of these directional verbs is examined in section 18.3. Section 18.4 concludes the paper. The approach used in this study corresponds to what Traugott (1986) terms ‘internal semantic reconstruction’, which refers to the study of synchronic senses of a lexical item in order to hypothesize the historical order in which those senses arose. Therefore, the notion of polysemy plays a crucial role in the investigation of the grammaticalization of the directional verbs into success markers in this study.
18.2. MOTIVATION FOR USING THE SIX DIRECTIONAL VERBS AS SUCCESS MARKERS

In this section, we will examine semantic and pragmatic principles which motivate the use of the six directional verbs as success markers. We will first look into the inherent meanings of the six directional verbs when they are used in isolation in section 18.2.1. In section 18.2.2, we will discuss semantic properties of the verb phrases which co-occur with the directional verbs functioning as success markers in sentences. Such verb phrases are called in this paper ‘the co-occurring verb phrases’ for convenience. Section 18.2.3 will discuss a pragmatic constraint on the occurrence of the six success markers in sentences.

18.2.1. Inherent meanings of the six directional verbs

First, we will examine the semantics of the six directional verbs in detail since it plays a crucial role in accounting for the use of these verbs as success markers. As mentioned above, these verbs conflate motions and directions described with reference to certain landmarks. The conceptual core of the system for describing movement is the path, which usually has a distinctive beginning and end. Paths are the channels along which people move, such as streets, walkways, canals, rivers. They are generally conceived of as linear, one-dimensional entities (Miller and Johnson-Laird 1976: 378). Vertical and horizontal axes provide a conceptual frame of reference for path and directional descriptions. They represent internalized Landmarks anchoring judgements of direction and orientation. The verbs khɔ̀n ‘ascend’ and loŋ ‘descend’ indicate directions of the path with reference to certain salient entities in the environment, namely, the sky and the ground. The former describes the direction of the path towards the sky whereas the latter describes that towards the ground. The effects of gravity enhance the salience of the ground since gravity results in movement towards it (Svorou 1994: 29). The directions of the path by these two directional verbs coincide with the vertical axis. The verbs khàw ‘enter’ and òàk ‘exit’ describe the directions of the path with reference to an enclosure or containment. The former describes the direction of a movement into an enclosure relationship within another entity whereas the latter describes that out of an enclosure relationship.

The directions of the movement encoded by these two directional verbs can be along both the vertical as well as the horizontal axis. In other words, the axis of the path along which the movement traverses is not specified in these two verbs. The verbs pay ‘go’ and maa ‘come’ describe the directions of the movement with reference to the speaker’s center of attention, which serves as the deictic center. The former expresses the direction away from the speaker’s center of attention whereas the latter expresses the direction towards it. These two verbs are the only pair of directional verbs which are deictic; their interpretation must rely on the speech situation or the context of the utterance containing them. Like khàw ‘enter’ and òàk ‘exit’, the directional verbs pay ‘go’ and maa ‘come’ can describe the direction of the movement either along the vertical or the horizontal axis.

Of all the three pairs of directional verbs, the directions indicated by khɔ̀n ‘ascend’ and loŋ ‘descend’ are considered the most specific and the most constant for people since everybody is in the same gravitational field. These two verbs are thus physically anchored in the same way for everybody. The pair of deictic verbs pay ‘go’ and maa ‘come’ are considered the least semantically specific since the actual directions expressed by them when they are uttered in speech totally depend on the context of situation of the utterance containing them. In principle, they can coincide with the directions indicated by the other two pairs of verbs as long as they describe directions with respect to the speaker’s center of attention. Note that the verbs pay ‘go’ and maa ‘come’, which are the least specific, are found to be used the least frequently as success markers in Thai. In short, the directional verbs enable us to identify dynamic locations, which arise from the movement of objects through many locations successively. The next question which we will address in the next section is what semantic properties the verb phrases that co-occur with the directional verbs have.
18.2.2. Semantic properties of the co-occurring verb phrases

As mentioned earlier, a predicate consisting of a transitive verb, its direct object argument and one of the six directional verbs functioning as a success marker expresses the meaning that an agent carries out a certain action which brings about an effect in an entity crucially involved in that action and which results in the change of location of that entity. The affected entity which tends to change its location as a result of the agent’s action is not necessarily the entity denoted by the direct object argument although it is likely to be so. For example, the entity which changed the location in (3) above is not the entity named by the direct object, but rather the linguistically unexpressed instrument which is used by the agent in piercing the wall. On this basis, the sentences composed of a transitive verb, its direct object argument, and one of the six directional verbs, can be regarded as the resultative construction. The six directional verbs occurring in this construction are thus qualified to be called ‘resultative phrases’ or ‘resultative predicates’ since they indicate the changed location of an entity involved in an agent’s action as a result of that particular action.

It is argued here that a verb phrase which co-occurs with one of the directional verbs functioning as a success marker must incorporate the notion of motion in some way. The motion may be transparent as in yók kló̄̄̄́ ‘lift a box’ and kheñ rór ‘push a car’. It may be merely implied as in kin ‘aᾱnha ‘eat food’ and plúuk tómây ‘plant a tree’. The notion of motion, which is transparently expressed or implied by the verb phrase, motivates its co-occurrence with one of the six directional verbs in a sentence.

The verb phrases which co-occur with the directional verbs functioning as success markers are semantically characterized by the fact that the agents of the actions named by these verb phrases have certain goals in mind in carrying out the actions. In other words, each co-occurring verb phrase consists of two main components, namely, (1) the agent’s intended and executed action, and (2) the agent’s further intention that this action lead to a particular desired result. In this case, the agent’s goal is to set in motion an entity crucially involved in an agent’s action so that the entity will be situated in a new location. There are varying degrees of intrinsicness of the agent’s goal to the inherent semantics of the co-occurring verb phrase. In other words, the agent’s goal may be weakly implicated or strongly implicated. It is more likely for the agent’s goal in the latter case to be attained than that in the former case. Some Thai examples which illustrate the agent’s goal which is weakly implicated in the semantics of the co-occurring verb phrase are given in (7)–(18). All of the examples are negative sentences for the sake of naturalness.

(7)  cháñ  tÅi  khây  mpåy  khtûn
     I  beat  egg  not  ascend
     ‘I tried to beat the eggs fluffy but was not successful.’

(8)  cháñ  khût  din  mpåy  khtûn
     I  dig  soil  not  ascend
     ‘I tried to dig a hole but was not successful.’

(9)  cháñ  thûp  tapuu  mpåy  loŋ
     I  hit  down  nail  not  descend
     ‘I tried to hit the nail down but was not successful.’

(10) cháñ  klwûm  nâm  mpåy  loŋ
     I  swallow  water  not  descend
     ‘I tried to swallow the water down but could not.’
(11) *chân hân nûâ mây khâw phr.?-nîaw mûâk*
   *I cut meat not enter because tough very*
   `I tried to cut the meat but was not successful because it was very tough.'

(12) *chân c.¿? kamphæy mây khâw*
   *I pierce wall not enter*
   `I tried to pierce the wall but was not successful.'

(13) *chân phàa tææymoo mây ?ââk*
   *I cut in half melon not exit*
   `I tried to cut the melon in half but was not successful.'

(14) *chân lûân khràap sôkkapràk mây ?ââk*
   *I wash stain dirty not exit*
   `I tried to wash the stain out but was not successful.'

(15) *khâw khên rôt mây pay*
   *he push car not go*
   `He tried to push the car away from him but was not successful.'

(16) *khâw lây mææw mây pay sâk thii*
   *he drive away, expel cat not go even time*
   `He tried to drive the cat away from him but was not successful (even once).' 

(17) *khâw riâk khonrápçây mây maa sâk thii*
   *he call maid not come even time*
   `He tried to call a maid but she did not come to him (even once).

(18) *khâw taam tamrûàt mây maa sâk thii*
   *he call upon police not come even time*
   `He kept calling upon the police but they did not show up (even once).'

The motion is transparent in the meanings of the verb phrases in most examples above. Each of the co-occurring verb phrases expresses an action with the agent’s goal that an entity involved in the agent’s action changes its location as a result of his/her action. In each of the examples above except in (11) and (12), the entity which was in motion is that denoted by the direct object argument. In (11) and (12), our real-world knowledge suggests that the entities in motion were a knife which was used to cut the meat and a drill which was used to pierce the wall, respectively. These two entities are not linguistically expressed in the sentence. Because we cannot tell from the inherent semantics of the co-occurring verb phrases if the agent’s goal is attained or not, the goal is considered the weak implication. The following negated success markers serve to cancel the implication in the co-occurring verb phrases. Notice that it takes the whole verb phrase to convey the meaning that the agent has a certain goal in mind in performing an action. A single verb such as *tii* ‘hit, beat’ in (7) and *riâk* ‘call’ in (17) does not in itself convey such an implication.

The co-occurring verb phrases with the strong implication indicate that the agent’s intention in setting an entity in motion is very likely to be fulfilled. Some examples of verb phrases with the strong implication are *khltûân* (rôt) ‘move (car),’ *phlik* (krââciât) ‘turn over (paper),’ *dâp* (thian) ‘blow out (candle),’ *c.¿?* (rôt) ‘stop (car),’ *pit* (pràâtuu) ‘close (door),’ and *phài* (bàâin) ‘demolish (house).’ These transitive verbs correspond to what Thepkanjana
(2000: 265) called ‘alternating transitive verbs’, which are defined as transitive causative verbs which have identical intransitive variants. In other words, these verbs can appear in both transitive and intransitive constructions. When these verbs occur intransitively, they may express (a) activities, such as (ROI) khlakan ‘(car) move’, (b) processes or inchoativeness, such as (Thian) dlap ‘(candle) go out’, and (c) resulting states, such as (Khimay) hak ‘(twig) be broken’. Notice that some of the alternating transitive verbs are either motion or motion-implied verbs whereas some others are not. It should be noted that most alternating transitive verbs alone without their direct object noun phrases can indicate the implication that the agent’s goal is very likely to be fulfilled. On the other hand, a non-alternating transitive verb refers to a transitive verb which does not have an intransitive form, such as chiik ‘tear’, laai ‘wash’, boi ‘grind’, khau ‘kill’, tut ‘cut off’, and phaa ‘cut in half’. In the case of alternating transitive verbs, it is not possible to use their homophonous intransitive forms, which express the resulting states of the agent’s actions expressed by the transitive verbs, to confirm the implication that the resulting states are very likely to occur because it will result in obvious redundancy. In the same vein, it is not possible either to use their negated homophonous intransitive forms to cancel such an implication. Examples (19) and (20) illustrate this point.

(19) *chân hak kimay hak
   I break twig broken

(20) *chân khoon tonmay may khoon
   I fell tree not collapse

However, it is possible to confirm (only in restricted contexts) and cancel the implication that the agent’s intention has been fulfilled only by using appropriate directional verbs functioning as success markers. Only the examples with negated success markers are given below.

(21) chân hak kimay ma ?zak
    I break twig not exit
   ‘I tried to break the twig but was not successful.’

(22) chân khoon tonmay may loy
    I fell tree not descend
   ‘I tried to fell the tree but was not successful.’

Notice that the motions expressed in all examples above are of the physical type. It is also possible for the motion to be in the abstract realm as shown in the examples below.

(23) chân khên luukchaay may khtaun ciqcig
    I push son not ascend really
   ‘I tried to push my son to success but was not successful.’
   ‘I tried to push up my son but was not successful.’ (Literal translation)

(24) chân yu? phttan may khtaun
    I convince someone to take action friend not ascend
   ‘I tried to convince a friend to take an action but was not successful.’
In sentences (23)–(27), there are nonphysical motions in the upward, outward and downward directions as a result of the agent’s actions. The main verbs in (23) and (27), which roughly mean to set something in motion, are used in a metaphorical way which can be metaphorically interpreted as to make efforts to push someone to success and to overthrow (the government), respectively. We can see that the notion of motion is still transparent in both verbs. It is merely transferred to the abstract domain because the main verbs incorporating it are used in a metaphorical way. The situation is different in (24)–(26), in which the main verbs do not seem to involve the notion of motion at all. We would like to argue that metaphoric processes operate in a more complicated way in (24)–(26), which explains why motion is less transparent in these three sentences. In accounting for the metaphor at work in these three sentences, we will draw on the notion of metaphorical concept postulated by Lakoff and Johnson (1980). According to them, metaphor is not just a matter of language. ‘On the contrary, human processes are largely metaphorical’ (6). Metaphors for them do not refer to linguistic expressions, but to a person’s conceptual system, which is metaphorical in nature. This motivates their postulation of the term ‘metaphorical concept.’ One type of metaphorical concepts discussed in their work which is pertinent to the issue in question is ‘orientational metaphors’, which give a concept of spatial orientation and which arise from our physical and cultural experience, for example, HAPPY IS UP; SAD IS DOWN; MORE IS UP; LESS IS DOWN. Orientational metaphors play an important role in human conceptualization because most of our fundamental concepts of human beings are claimed to be organized in terms of one or more spatialization metaphors. In (24), the metaphorical concept at work is TAKING ACTION IS UP, which is grounded in our experiential basis that taking an action is moving upward. The metaphorical concept which is operative in (25) is UNDERSTANDING IS OUT, which is based on our experience that if we understand something, we have the impression that the sense of that thing comes out and reaches us. The metaphorical concept at work in (26) is FIGURING OUT SOMETHING IS OUT. This metaphorical concept is based on the physical experience that when we try to come up with or to figure out something, our thinking takes place in our head. When we are successful in figuring it out, it will come out of our head and may be known to other people. In summary, the notion of motion in (23)–(27) arises from metaphorical processes but in different ways. In (23) and (27), the motion arises from the metaphorical use of the main verbs. In (24)–(26), the whole actions expressed by the verb phrases must be understood in a metaphorical way, which gives rise to the metaphorical concepts described above.

Notice that there is a particular direction inherent in the motion of an entity crucially involved in the agent’s action. For example, in the egg-beating example in (7), since the eggs became fluffy as a result of the agent’s beating them, the direction of the motion of the eggs must be upward. Therefore, it is argued that there must be semantic agreement between the direction of the motion associated with the verb phrase and that inherent in the directional verb functioning as the success marker. This is also true for the cases of pay ‘go’ and maa ‘come’ in (15)–(18) repeated here for convenience as (28)–(31), in which pay ‘go’ and maa
‘come’ are not interchangeable. However, when the verb phrases in (28)–(31) do not co-occur with pay ‘go’ and maa ‘come’ in the success reading, they do not exhibit any inherent direction. In other words, they do exhibit an inherent direction when they co-occur with the directional verbs pay ‘go’ and maa ‘come’ functioning as success markers.

(28) khāw khēn rōi māy pay
he push car not go
‘He tried to push the car away from himself but was not successful.’

(29) khāw láy mæaw máy pay sâk thii
he drive away, expel cat not go even time
‘He tried to drive the cat away from himself but was not successful (even once).’

(30) khāw riāk khonrápcha’y máy maa sâk thii
he call maid not come even time
‘He tried to call a maid but she did not come to him (even once).’

(31) khāw taam tamruat máy maa sâk thii
he call upon police not come even time
‘He kept calling upon the police but they did not show up (even once).’

As we see here, the motions expressed by the main verbs and the direct object nouns occurring in (28)–(31) do have specific directions. The main verbs in (28) and (29) express the meanings that the agent tried to move the entities denoted by the direct object arguments away from him/her. On the other hand, the main verbs in (30) and (31) express the meanings that the agent tried to bring someone to where he/she was located. The directional verb pay in (28) and (29) cannot be replaced by maa and vice versa in (30) and (31) as shown in (32)–(35).

(32) *khāw khēn rōi máy maa
he push car not come

(33) *khāw láy mæaw máy maa sâk thii
he drive away, expel cat not come even time

(34) *khāw riāk khonrápcha’y máy pay sâk thii
he call maid not go even time

(35) *khāw taam tamruat máy pay sâk thii
he call upon police not go even time

Notice that the speaker’s center of attention in the two deictic verbs is replaced by the agent’s in (28)–(31). In other words, these two deictic verbs have lost their deictic function when they are used as success markers. This explains why pay and maa are not interchangeable in the sentences above. This point will be fully discussed in section 18.3.

18.2.3. Pragmatic constraint on the occurrence of success markers

As seen in section 18.2.2, the verb phrases which co-occur with success markers convey the implication that the agent’s intention in carrying out an action has been fulfilled, which entails that the agent has performed an action successfully. In this case, one might wonder why we
would need to indicate the success of the agent’s performance of an action by combining one of the six directional verbs with such verb phrases in the first place. Is such a success not expressed by default in the verb phrases? We want to argue in this study that those verb phrases in the normal state of affairs imply that the agent’s goal in performing an action is attained, or, in other words, that a resulting state is incurred upon an affected entity. However, if the context of situation requires that the fulfillment or nonfulfillment of the agent’s goal in performing the action be emphasized or highlighted, we can use the linguistic device of adding one of the directional verbs to the verb phrase in the sentence to obtain such a pragmatic effect. To highlight the success of the agent’s performance of an action or the fulfillment of his/her goal in performing an action naturally requires a marked context since those verb phrases by default imply such a success on the part of the agent. According to Givón (1984: 323), the major function of declarative sentences in discourse is to convey new information. If any of the directional verbs functioning as success markers occur in sentences in an unmarked context, they will become redundant and the sentences in which they occur will be infelicitous since they do not provide new information. A marked context enables affirmative sentences with the directional verbs to provide new information, i.e. to emphasize the success of the agent’s performance of an action. This ‘new’ information makes the occurrence of the directional verbs pragmatically appropriate. This explains why the use of directional verbs as success markers is not found frequently in affirmative (as opposed to negative) and declarative (as opposed to interrogative) sentences. Rather, these directional verbs functioning as success markers are more prevalent in negative sentences in which the directional verbs themselves are negated and in interrogative sentences. The negative variant of the declarative sentence is used to convey new information of a very different sort than the corresponding affirmative. In the negative sentence, the normal expectation or the presupposed presupposition, which is in this case the success of the performance of the agent’s action, is denied, whereas it is questioned in the interrogative one. Since the negative sentence serves to provide new information and the interrogative one to question backgrounded information, they provide appropriate contexts in which the directional verbs can occur.

18.2.4. Summary

In section 18.2.2, we have investigated semantic and pragmatic principles which motivate the use of the six directional verbs as success markers. We have examined the inherent semantics of each directional verb when it occurs in isolation. The deictic verbs pay ‘go’ and maa ‘come’ are found to be the least specific semantically. We have found that the co-occurring verb phrases convey the implication that the agent’s intention in carrying out an action has been fulfilled and that they must incorporate the notion of motion in some way. The motion can be either of the physical or abstract type. The abstract type of motion results from metaphorical processes which can operate either linguistically or conceptually. It is found that there must be semantic agreement in terms of direction between that inherent in the motion associated with the co-occurring verb phrase and that in the directional verb in a sentence. The success markers are found to be prevalent in negative and interrogative sentences because of their pragmatically marked nature. The next section will examine the grammaticalization process which derives success markers from their lexical sources. Some research works on the verbs in other languages which semantically correspond to the Thai directional verbs will be reviewed so that we will get a broader view of the Thai phenomenon being examined.

18.3. GRAMMATICALIZATION OF DIRECTIONAL VERBS INTO SUCCESS MARKERS

We will begin this section by reviewing how the verbs corresponding to the Thai directional verbs have been analyzed in other languages, especially Chinese. The previous analyses of these corresponding verbs in other languages will shed light on the Thai phenomenon under investigation.
18.3.1. Previous analyses of corresponding verbs in other languages

In studying the processes of grammaticalization of nouns and verbs in East and Southeast Asian languages, Bisang (1996) postulates six types of grammaticalized markers or, in his terms, six ‘products of grammaticalization’ of verbs, namely, resultative verbs, directional verbs, TAM (tense, aspect, modality) markers, coverbs, causative verbs, and conjunctional verbs. Three of the six products, i.e. directional verbs, TAM markers and coverbs, show a high degree of grammaticalization (Bisang 1996: 564). Note that Bisang makes distinctions between resultative verbs, directional verbs and TAM markers. It is found in his examples that the verbs which express directions when they occur in isolation in different languages can be grammaticalized into resultative verbs, directional verbs and TAM marker. Bisang’s examples which illustrate resultative and directional verbs are quoted here as below.\(^2\)

Some examples of resultative verbs given by Bisang (1996: 564–566)

(36) tā chǐ bāo-le (Chinese)
   s/he eat full-TAM
   ‘S/he has been eating his/her fill’

(37) no’ tím du’o’c vâng o’ du’o’I sông (Vietnamese)
   he look-for get gold COV:be-at down river
   ‘He found gold in the river.’

(38) khàw pîd prattu (mâj) loŋ (Thai)
   he close door (NEG) RES:go_down
   ‘He closed the door.’ / (‘He didn’t close the door.’)\(^3\)


(39) a. tā pāo shàng lái (Chinese)
   s/he run vdl:go_up vdII:come
   ‘S/he runs up [towards the speaker].’

   b. tā pāo xià qū (Chinese)
   s/he run vdl:go_down vdII:go
   ‘S/he runs down [away from the speaker].’

(40) k暹 lô:t coh cếŋ m䈇:k (Cambodian)
   he jump vdl:go_down vdII:go _outvdIII:come
   ‘He jumps down and out towards the speaker/center of interest.’

Notice that sentence (38) contains one of our directional verbs functioning as a success marker.

\(^2\) The phonetic transcription, the glosses, and the sentence translation of the Bisang’s examples are kept intact in this paper.

\(^3\) We would translate this sentence as ‘He was trying to close the door but not successful.’ This sentence translation implies that the agent has begun the action of closing the door but could not fulfill the task due to some reason. Bisang’s translation of this sentence may be interpreted in such a way that the agent did not even begin the action of closing the door at all, which is not the accurate interpretation of this sentence.
Therefore, our six directional verbs functioning as success markers would be categorized as resultative verbs by Bisang since these verbs indicate resulting states of the affected entities involved in the agent’s actions as pointed out earlier. These directional verbs are claimed in Thepkanjana and Uehara (to appear) to be a type of resultative predicate in the Thai resultative construction which indicates the change of location of an affected entity crucially involved in an agent’s action. On the other hand, Bisang’s category of directional verbs actually consists of the directional verbs which are used in their literal sense in the spatial domain only. It can be inferred from Bisang’s separation of the resultative and directional verb categories from each other that there is no sense of direction involved in the verb *loʊ* ‘go down’ which is claimed by him to function as the resultative verb in sentence (38).

It is found that the Chinese verbs which semantically correspond to the Thai directional verbs have been treated in the literature on Chinese linguistics in a similar fashion as in Bisang (1996). Although the verbal constructions in question in Thai are structurally different from those in Chinese since the former are considered serial verb constructions with an intervening object argument whereas the latter are considered verb compounds, both types of verbal constructions in Thai and Chinese are comparable. Both types of constructions are composed of two verbs one of which serves to complement or modify the other. Furthermore, a large number of verbal complements or modifiers in Chinese verb compounds are claimed to add the resultative and the directional meanings to the main verbs, which is also true of a large number of serial verbs in Thai. In light of these facts, a review of analyses of Chinese verb compounds is relevant to the Thai phenomenon under investigation.

In studying resultative verb compounds in Mandarin Chinese, Thompson (1973) distinguishes between resultative verb compounds and directional ones and claims that they are derived by different means. Thompson’s category of resultative verb compounds includes those which indicate a change of state or a change of location of an affected entity whereas the directional one includes those with directional suffixes having only a literal directional meaning. Some examples of Thompson’s resultative verb compounds with directional suffixes having metaphorical meanings are quoted below (371).

(41) *xiăng-chulai* ‘think-come out’ = ‘think of a solution’
(42) *mîngbai-guolai* ‘understand-come past’ = ‘come to understand’
(43) *tîng-jînqu* ‘hear-go in’ = ‘“absorb” what is said’

If we apply Thompson’s frame of categorization to the Thai verbal constructions containing directional verbs serving as success markers, most of the instantiations especially the ones with metaphorical meanings would be analyzed as resultative verb compounds. The Thai verbal constructions containing directional verbs used in their literal senses would fall under the directional verb compounds within Thompson’s framework of analysis.

In studying the verb-verb construction in Mandarin, Lu (1977) also postulates a distinction between resultative and directional verb compounds in Mandarin. A resultative verb compound is defined as a ‘V-V construction in a sentence where the second verb indicates a result caused by the action or the process represented by the first verb’ (282). On the other hand, a directional verb compound is defined as a ‘V-V construction in a sentence where the first verb indicates the manner of a motion verb and the second the direction in which that verb moves’ (292). The former expresses a nonspatial change of the affected entity whereas the latter is used in the spatial domain. Lu also recognizes the third type of verb compound in Mandarin which displays a combination of features of the other two types of verb compound at the same time. The third type of verb compound is thus regarded ambiguous according to Lu. The example below belongs to Lu (1977: 300).

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4 Tone markers are missing in Lu’s examples.
Notice that sentence (44) is semantically analogous to the Thai sentences with the directional verbs functioning as success markers especially the verbs pay ‘go’ and maa ‘come’. Since these Thai directional verbs are argued to be resultative predicates indicating a change of location of an affected entity, it is not surprising that their corresponding verbal constructions in Mandarin are claimed to be both resultative and directional at the same time. If we analyzed the Thai data in this frame, the Thai verbal constructions with the directional verbs used in the success reading would be put in Lu’s third type of verb compound.

Yong (1997) is another piece of work which makes a distinction between resultative verbs and directional verbs, or in his terms, resultative verb complements (RVCs) and directional verb complements (DVCs). According to Yong (1997: 3), a large number of RVCs are realized as adjectives. The DVC category can be subclassified into the DVC with literal directional meaning and the DVC with nonliteral or little literal meaning. Some examples of the latter subtype of DVC cited by Yong belong to Teng (1977: 5–6), i.e. ai-shang ‘love-up=fall in love’, and to McDonald (1994: 329), i.e. xing-guolai ‘wake-across towards=wake up’. In the light of Yong’s analysis of Chinese data, the Thai directional verbs functioning as success markers might be categorized as the DVC type.

In summary, all of the works reviewed above aim at classifying verbal constructions consisting of two verbs into discrete types. The two types which appear in all works cited above are the resultative and directional types. All works make a distinction between resultative and directional verbal constructions. Some of them recognize the nonliteral and/or metaphorical uses of the directionals. The frames of analysis used in all of the works which study the comparable verbal constructions in other languages reviewed above are argued to be inadequate to account for the Thai phenomenon under investigation because the Thai directional verbs functioning as success markers arguably express resultative and directional meanings simultaneously. However, the directional meaning may not always be in the physical realm as shown above. These facts of Thai data would not be easy to account for within the previous frameworks of analysis used with data in other languages especially Chinese. In the next section, we will propose a new analysis of the Thai data in light of the findings that we have presented in section 18.2.

18.3.2. Grammaticalization of directional verbs into success markers

In this paper, we will propose a new analysis of the six directional verbs functioning as success markers in Thai. We argue that these six success markers are a ‘product of grammaticalization’ in Bisang’s terms and have as their lexical sources full-fledged directional verbs which conflate both movement and direction. These verbs originally occurred as non-initial, serial verbs in the serial verb construction and have been grammaticalized into success markers. Our analysis is discussed in detail below. To prevent confusion about terminology, we will from now on use the term ‘directional verbs’ to refer to lexical sources of all grammaticalized forms derived from them. Therefore, the directional verbs, which are fully-fledged verbs, can either occur as single verbs in a sentence or initial verbs in the serial verb construction. We will use the term ‘success markers’ to refer to the grammaticalized forms of directional verbs which function as success markers in the Thai resultative construction. As mentioned earlier, the paper adopts the approach of studying synchronic senses of a lexical item in order to make a generalization about the historical order in which those senses arose, which is called by Traugott (1986) ‘internal semantic reconstruction’.
It is well known that spatial words including nouns and verbs are cross-linguistically an important lexical source of grammatical forms which can be linguistically realized as adpositions, affixes, and case inflections (Svorou 1994: 64). These forms which are developed from spatial nouns and verbs are termed ‘spatial grams’ (Svorou 1994: 31).\(^5\) These different forms of spatial grams represent different stages on a grammaticalization path and are used in other semantic domains than the spatial one.

According to the principles of grammaticalization set forth by Hopper and Traugott (1993), grammaticalization can be characterized by the following properties.

(a) Lexical or content words are sources of grammaticalized forms.

(b) Grammaticalized forms can be free or bound morphemes.

(c) In some cases, lexical sources of grammaticalized forms and the grammaticalized forms themselves can coexist at the same time in a language, which constitutes a case of polysemy. In other cases, the former can disappear and only the latter remain.

(d) The process of grammaticalization proceeds along a path which is a unidirectional cline. That is, it goes forward and does not go back. However, the path of grammaticalization does not necessarily reach the complete and final stage, which is typically morphologization of a lexical item into a bound grammatical morpheme.

(e) Grammaticalization is typically accompanied by certain effects, namely, decategorization and semantic bleaching.

(f) The grammaticalized forms can exhibit different degrees of lexical and grammatical status. They are not necessarily depleted of all lexical content and become ‘completely’ grammatical.

Returning to the phenomenon under investigation in this paper, the success markers in Thai synchronically coexist with their lexical sources, which are the homophonous full-fledged directional verbs which can occur in isolation and as initial verbs in the serial verb construction. This constitutes a case of polysemy according to Hopper and Traugott’s principle (c). In order to argue that the six success markers in Thai are grammaticalized forms, or ‘spatial grams’ in Svorou’s terms, which are developed from fully-fledged directional verbs, we have to rely on their syntactic and semantic properties since their morphological forms do not change. To find out how success markers differ syntactically and semantically from their lexical sources, we will try taking them out of the sentences in which they appear and combine them with the nouns denoting the entities which are in motion in those sentences to see how acceptable they are as below.

\[(45)\]

\[\begin{array}{llll}
\text{a. } & \text{khāw} & \text{yok} & \text{klāy} & \text{māy} & \text{khūn} \\
& \text{he} & \text{lift} & \text{box} & \text{not} & \text{ascend} \\
& \text{‘He tried to lift a box up but was not successful.’}
\end{array}\]

\[
\begin{array}{lll}
\text{b. } & *\text{klāy} & \text{māy} & \text{khūn} \\
& \text{box} & \text{not} & \text{ascend}
\end{array}
\]

\[\]

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\(^5\) The term ‘gram’ was first used in Bybee (1986) to refer to grammatical morphemes. This term iconically reflects the typically small phonological size of grammatical morphemes as well as the fact that they are evolved from larger units.
(46) a. ช่าน ยูพ ผูกมาย ขัน
    I convince someone to take action friend not ascend
    ‘I tried to convince a friend to take an action but was not successful.’

b. *ผูกมาย ขัน
    friend not ascend

(47) a. ขำว โคต เพิมมาย ลอง
    he press button not descend
    ‘He tried to push the button down but was not successful.’

b. *เพิมมาย ลอง
    button not descend

(48) a. ช่าน ทุ่ม ทัพมาย ลอง
    I hit down nail not descend
    ‘I tried to hit the nail down but was not successful.’

b. ?ทัพมาย ลอง
    nail not descend

(49) a. ขำว คฉก คมภ่าเรย มาย ขำว
    he pierce wall not enter
    ‘He tried to pierce the wall but was not successful.’

b. ?สวางมาย ขำว
    drill not enter

(50) a. ช่าน ห่าน นุกามาย ขำว พระตมีนีอาวม้าก
    I cut meat not enter because tough very
    ‘I tried to cut the meat but was not successful because it was very tough.’

b. *มีตมาย ขำว
    knife not enter

(51) a. ขำว ลำย ขระาป ซอกคร/problems มาย ปฉก
    he wash stain dirty not exit
    ‘He tried to wash the stain out but was not successful.’

b. ขระาป ซอกคร/problems มาย ปฉก
    stain dirty not exit
    ‘The stain did not go out.’
Each of the (b) sentences above consists of two major components, i.e. (1) the subject noun phrase which was in motion and changed a location, which is an affected entity in the corresponding (a) sentence, and (2) the negated directional verb, which functions as the success marker in the corresponding (a) sentence. What we were trying to do with the (b) sentences above was to try using the success markers in the (a) sentences as full-fledged directional verbs in the (b) sentences with the noun phrases denoting entities which were in motion in the (a) sentences and see if they were acceptable in that syntactic context or not.
Therefore, it seems that each of the (b) sentences is a part of the corresponding (a) sentence. Some observations can be made based on the examples above as follows.

Some of the (b) sentences are acceptable; some are questionable; and some are not acceptable at all even though the noun phrases denoting the entities in motion are the same as those in the corresponding (a) sentences and even though they moved in the same directions in both (a)s and (b)s. The questionability and unacceptability of some of the (b) sentences above can be accounted for in terms of many factors. In some cases, certain subject noun phrases simply do not co-occur with certain directional verbs, such as in (45b), (46b), (47b), (50b), and (52b). There may be many reasons for the impossibility for them to co-occur. One reason may be that some of the directional verbs are likely to be used as main verbs with the subject noun phrases denoting animate entities which are capable of expressing volition only. The volitional element may be lost when directional verbs evolve into success markers. This explains why some of the (a) sentences, such as (45a), (47a), (48a), (49a), (50a), (52a), and (53a), in which success markers co-occur with inanimate noun phrases denoting the entities in motion, are acceptable, whereas their (b) counterparts, in which the directional verbs are used as main verbs, are either questionable or unacceptable. Another reason for the impossibility for some subject noun phrases to co-occur with some directional verbs may be that some of the directional verbs which co-occur with some subject noun phrases lack object ones. That means some directional verbs can be used with some subject noun phrases without any following direct object noun phrases only in some cases. In some other cases, if the same directional verbs co-occur with some other subject noun phrases, the sentences will become either questionable or unacceptable. It is thus obvious that each of the directional verbs may have idiosyncratic behaviors when they function as main verbs in sentences.

Some conclusions can be drawn from examples (45)–(56). First, although the (a) sentences and their (b) counterparts seem to contain roughly the same motion events, i.e. the same moving entities, the same motions, and the same directions of motions, the success markers in (a)s cannot be readily employed as the main verbs of motion in (b)s. This fact is reflected by the varying degrees of acceptability of the (b) sentences. It also indicates that the success markers in (a)s and the directional verbs in the corresponding (b)s have different syntactic and semantic properties. Even though the success markers in (a)s indicate motions in certain directions, we cannot take them out of their sentences along with the entities in motion and use the success markers and the entities in motion as main verbs and as subjects respectively in (b)s. It is argued here that the success markers in (a)s are grammaticalized forms of directional verbs, which are their lexical sources. In the grammaticalization process, the grammaticalized markers lost some of the properties which are present in the source verbs. This explains why they have different behaviors with regard to their potentiality to combine with various noun phrases denoting moving entities. The second conclusion to be drawn from the data above is that the success markers are not grammaticalized to the same degree. For example, pay ‘go’ and maa ‘come’ are arguably less grammaticalized than the other success markers since the former are more ready to be used as the main directional verbs in (b)s than the latter. This is shown by the acceptability of (54b), (55b) and (56b) and the questionability of (53b), in which pay ‘go’ and maa ‘come’ occur as main verbs. In contrast, the remaining (b) sentences, in which the other four directional verbs occur as main verbs, are mostly ungrammatical or questionable. Furthermore, different instantiations of the same success markers occurring in different sentences can be grammaticalized to different degrees. For example, the instantiations of the success marker 3.kk ‘exit’ in (51a) and (52a) are not equally grammaticalized. It is argued that the one in (52a) is more grammaticalized since it is used in the metaphorical domain whereas that in (51a) is used in the concrete one. This explains why 3.kk ‘exit’ in (51a) can be the main verb but that in (52a) cannot.

It is argued that the six directional verbs with full verbal meanings are lexical sources of success markers. These directional verbs are located at the starting point of a grammaticalization path. At an early stage, they were grammaticalized into forms which lost the movement aspect of the lexical content of the source verbs and retained only the relational aspect. This is the stage on a grammaticalization path which gave rise to the so-called
‘directional verbs’, ‘directional adpositions’, ‘directional adverbs’ or simply ‘directionals’ in linguistic literature. We will refer to the grammaticalized forms of directional verbs in which the movement aspect is depleted and in which the directional one is retained as ‘directional markers’ in this paper. The directional verbs that occur as serial verbs in the serial verb construction are lexical sources of grammaticalized directional markers. The tight link between grammaticalization and serialization is also noted by Bisang (1996: 563). The Thai examples below illustrate the directional markers, which are the grammaticalized forms at this stage of the grammaticalization path. The directional markers are underlined.

(57) \textit{kʰaw} s\textit{əŋ} na\textit{n\textacuten}tu\textit{ŋ} p\textit{ay} l\textit{ææəw}

\begin{tabular}{l}
he \\
send \\
book \\
go \\
already
\end{tabular}

‘He already sent the book away.’

(58) \textit{nok} \textit{bin} kh\textit{ɯn} ya\textit{n\textacuten}ru\textit{atrew}

\begin{tabular}{l}
bird \\
fly \\
ascend \\
quickly
\end{tabular}

‘The bird flew up very quickly.’

(59) ha\textit{aycay} \textit{kʰaw} lu\textit{klu\text{uk}}

\begin{tabular}{l}
breathe \\
enter \\
deep
\end{tabular}

‘Breathe in deep!’

(60) \textit{kʰaw} lo\textit{m} lo\textit{n} p\textit{ay}

\begin{tabular}{l}
he \\
collapse \\
descend \\
go
\end{tabular}

‘He collapsed (literally down and away from the speaker).’

Notice that the directional markers underlined in examples (57)–(60) are used to describe physical motions in the concrete domain. The movement aspect in these directional markers is still obvious. Directional markers become more and more grammaticalized as they progress along the grammaticalization path. As they become more grammaticalized, they are more and more abstract and metaphorical. This is the case which Yong (1997) refers to as directional verbs used in the ‘nonliteral’, ‘abstract’, or ‘metaphorical’ sense (see details in section 18.3.1). The examples below illustrate the use of more abstract and more metaphorical directional markers.

(61) \textit{kʰaw} pl\textit{ian} p\textit{ay} m\textit{āak}

\begin{tabular}{l}
he \\
change \\
go \\
a lot
\end{tabular}

‘He has changed a lot.’

(62) k\textit{ʰa}’ kin p\textit{ay} ru\textit{kayru\text{āay}}

\begin{tabular}{l}
he \\
eat \\
go \\
continuously
\end{tabular}

‘He kept eating.’

(63) \textit{kʰaw} p\textit{ɯəy} ma\textit{a} s\textit{āam} wa l\textit{ææəw}

\begin{tabular}{l}
he \\
besick \\
come \\
three \\
day \\
already
\end{tabular}

‘He has been sick for three days already.’

(64) \textit{kʰaw} th\textit{am\text{yaan}} d\textit{ii} k\textit{ɯn} m\textit{āak}

\begin{tabular}{l}
he \\
work \\
good \\
ascend \\
alot
\end{tabular}

‘He worked much better than before.’
The underlined directional markers in (61)–(67) are used in the abstract or metaphorical domain. In contrast with those in (57)–(60), the movement aspect of the directional verbs, which are the lexical sources, fades from these verbs. However, the directional sense, which is the relational part of the source verbs, is still retained. It can be concluded that the physical aspect of the meanings of the directional verbs fades more and more as they become more and more grammaticalized. What is left is the relational aspect of the verbs, which is the abstract part of their meanings. It is still debatable what specific meanings each of the directional markers in (61)–(67) expresses in addition to the directional meaning. We can see that some of the meanings expressed by these markers relate to the temporal, aspect, and modality (TAM) domains. It is not the objective of this paper to investigate the exact meanings or functions of these grammaticalized markers. It suffices for our purpose to point out that the directional markers in (61)–(67) are grammaticalized at a more advanced degree than those in (57)–(60). Note that the directional markers in Thai, which would be called ‘directional verb compounds’ by many researchers of Chinese linguistics, are arguably not located at one specific point on the grammaticalization path. Rather, they form a cluster and are distributed over a certain range on the path. Some directional markers in the cluster are more abstract than others.

We argue that the ‘directional markers’ which are fairly advanced on the grammaticalization path are likely to develop further into grammaticalized forms used primarily in the temporal domain, namely, TAM (tense, aspect, modality) markers. Some of the directional markers in (61)–(67) can be argued to be TAM markers. The evolution of TAM markers from directional verbs has been extensively discussed in linguistic literature on grammaticalization. We want to point out that the TAM markers have to proceed via the stage of directional markers on the grammaticalization path. The mechanism which drives this evolution is metaphorization, which involves mapping between relevant aspects between distinct domains. The mapping structures our understanding of the more abstract domains in terms of our experientially based understanding of the more concrete domains. It has been suggested in the research works on metaphor that certain abstract and topological aspects of
semantic structure are the aspects which must be preserved across metaphorical mappings (Sweetser 1990: 59). In this case, the directional aspect of the verbs is preserved as the verbs proceed along the grammaticalization path and, consequently, they become more and more metaphorical. We will not discuss the emergence of the TAM markers in detail because it is outside the scope of this paper. However, we want to point out that it is still debatable which tense, aspect or modality is actually indicated by which grammaticalized form. Even the status of the grammaticalized TAM markers is still debatable. Some say that they are aspect markers whereas others say they are merely quasi-aspect markers. In the former case, which aspect they indicate is still uncertain. It is noted that directional markers as illustrated in (57)–(60) still coexist with TAM markers in Thai although the latter are argued to develop from the former.

We want to argue in this paper that the directional markers evolve into success markers on a different grammatical path from the one that gives rise to TAM markers. These multiple paths of grammaticalization of directional verbs can be diagrammed in Figure 18.3.2-1.

directional verbs

1

directional markers

2

TAM markers

3

Success markers

4

FIGURE 18.3.2-1: GRAMMATICALIZATION PATH OF DIRECTIONAL VERBS IN THAI

Figure 18.3.2-1 displays four lines. The first line, which is the longest, indicates that all grammaticalized forms, namely, directional markers, TAM markers, and success markers, are developed either directly or indirectly via directional markers from the directional verbs, which constitute the ultimate lexical sources. Since these three types of grammaticalized forms developed from the directional verbs still preserve the directional sense to a certain degree, we will use the term ‘directional gram’ in analogy with Svorou’s (1994) term ‘spatial gram’ to refer to them as a homogeneous group of grammaticalized forms. The directional verbs, which conflate the movement and the directional aspect of the verbs and which are lexical sources of all types of directional grams, coexist with them. Their coexistence with the other directional grams is illustrated by the most length of the first line. At an early stage on the grammaticalization path, the directional verbs develop into ‘directional markers’ in which the material content of the verbs, i.e. the physical movement aspect of the semantics of the verbs, is lost. The less grammaticalized directional markers express more concrete meanings and are located closer to their lexical sources than the more grammaticalized ones. However, there may be a period of overlap between older and newer forms and/or functions of a morpheme. The grammaticalization path or cline should not be thought of as a line in which everything is in sequence (Hopper and Traugott 1993). Such an overlap is termed ‘layering’ by Hopper (1991: 22) and ‘chaining’ by Heine, Claudi, and Hünnemeyer (1991: 222). According to Hopper (1991: 22), ‘Within a functional domain, new layers are continually emerging. As this happens, the older layers are not necessarily discarded, but may remain to coexist with and interact with the newer layers.’ This is what happens in Figure 18.3.2-1. The directional verbs coexist with all directional grams developed from them. The directional markers, which are developed from the directional verbs and which emerge at the second
layer, also coexist with TAM markers and success markers. Some of the directional markers evolve into TAM markers and emerge on the third layer. In examples (61)–(67), which illustrate the use of directional markers in the abstract domain, we can see that some directional markers are better viewed as TAM markers such as those in (64)–(67) whereas the remaining ones are at the borderline area between directional and TAM markers. However, this paper does not primarily aim to study the TAM markers. We only want to point out that success markers evolve on a different grammaticalization path from that of TAM markers. Since the grammaticalization path which gives rise to TAM markers and they themselves are still a matter of controversy, we use the dotted line to represent uncertainties and complexities revolving around them. The dotted line should not be taken as representing only one grammatical path leading to the development of TAM markers.

As argued earlier, the success markers have some syntactic and semantic properties which are distinct from directional verbs, which are their lexical sources. However, they still preserve the directional sense present in their lexical sources. It is found that some success markers are more grammaticalized than some others. The more grammaticalized ones seem to be the metaphorical ones, which are used in an abstract realm. We have argued in this section that success markers constitute a different type of directional gram from the other types and that they are developed on a distinct grammaticalization path. There are two issues regarding the development of success markers which we would like to point out before we end this section.

First, we would like to underscore one of Hopper and Traugott’s (1993) principles that a lexical item is grammaticalized in a highly constrained syntagmatic context. Grammaticalization does not take place when a lexical item is in isolation. In our case, directional markers are grammaticalized into success markers if they occur in a specific syntactic context and co-occur with certain types of transitive verbs as discussed in section 18.2.2. Only in this context can directional markers evolve into success markers. The more grammaticalized or more abstract success markers also take place in certain contexts. Roughly speaking, they co-occur with verbs which do not express physical motions. This principle also holds true with the other types of directional grams.

The second thing which we will point out relates to the deictic property of pay ‘go’ and maa ‘come’ when they are grammaticalized into success markers. We have mentioned briefly in discussing the sentences with the success markers pay ‘go’ and maa ‘come’ in examples (28)–(31) in section 18.2.2 that the speaker’s center of attention in the two deictic verbs is replaced by the agent’s location in those examples. Those examples are repeated here for convenience as (68)–(71) below.

(68)  kʰâw  kʰɛn  rɔï  mây  pay
he  push  car  not  go
‘He tried to push the car away from himself but was not successful.’

(69)  kʰâw  lây  mæ̞ːw  mây  pay  sâk  thii
he  drive away, expel  cat  not  go  even  time
‘He tried to drive the cat away from himself but was not successful (even once).’

(70)  kʰâw  rïak  kʰɔnɾâpʰây  mây  maa  sâk  thii
he  call  maid  not  come  even  time
‘He tried to call a maid but she did not come to him (even once).’
It was argued in section 18.2.2 that there must be semantic agreement between the direction of the motion associated with the verb phrase and that inherent in the success marker in a sentence. In (68) and (69), the direction inherent in the verb phrases is away from the agent’s location whereas that in (70) and (71) is toward the agent’s. The speaker’s center of attention which was originally present in the deictic verbs, which are the lexical sources of these two success markers, is lost and replaced by the agent’s location in the grammaticalization process. This explains why pay ‘go’ and maa ‘come’ cannot be interchangeable in the sentences above as illustrated by the ungrammaticality of the sentences below.

(72) *khāw khēn rōï māy maa
he push car not come

(73) *khāw lāy mārēw māy maa sāk thīi
he drive away, expel cat not come even time

(74) *khāw ṭūak khorāpchāy māy pay sāk thīi
he call maid not go even time

(75) *khāw taam tamrīat māy pay sāk thīi
he call upon police not go even time

The deixis can be regarded as a type of subjective element in linguistic expressions. Traugott has postulated an important principle in many of her works on grammaticalization that grammaticalization tends to give rise to increased subjectivity (Traugott 1982, 1988, 1991). In this paper, it is found that the case of the success markers pay ‘go’ and maa ‘come’ constitutes a counterexample to Traugott’s principle regarding subjectification of grammaticalized linguistic elements. Therefore, further research on cases of ‘objectification’ in grammaticalization across languages is worth pursuing.

To summarize, the resultative meaning inherent in the success markers are not of the type that researchers on the resultative construction are familiar with. Based on research works on the resultative construction, those researchers seem to be more familiar with the change of state than the change of location. The point to be stressed here is that both TAM markers and success markers are argued to develop from directional markers but along different paths. This claim suggests that so-called ‘directional verbs’ in the research works which are reviewed in section 18.3.1, or alternatively directional markers in our terms, are not on a par with TAM markers nor success markers. The latter two are arguably later developments of the former. It is not necessary in principle that the final outcome of a grammaticalization path is a fully grammaticalized form, which is depleted of all or most semantic content. The semantic content may be still transparent to a certain degree in the final outcome of grammaticalization. In our case, the directional sense is still apparent to a certain degree in all directional grams including in the success markers. It may be even more obvious in some particular instantiations of success markers than some others. It is crucial to note that the abstract directional sense is present all the way throughout the grammaticalization path but may not be transparent to the same degree.
18.4. CONCLUSION

In this paper, we have examined one of the uses of six directional verbs in Thai, i.e. the use of directional verbs as the resultative predicate indicating success or failure of the agent’s performance of an action in the transitive-based resultative construction. We have examined the semantics of the six directional verbs in detail, which motivates their use as success markers. It is found that the verb phrases which co-occur with the directional verbs functioning as success markers must be motion or motion-implied verbs. Furthermore, they must incorporate the implication that the agent has a goal in mind in performing an action and that the goal is more or less likely to take place. These directional verbs serve to highlight the success or failure of the agent’s performance of an action and are thus used more frequently in negative and interrogative sentences. As success markers, they are argued to be grammaticalized forms which evolve from directional markers which are in turn grammaticalized from fully-fledged directional verbs, which conflate both physical movements and directions. As these directional verbs proceed further along the grammaticalization path, they will lose more and more of the movement aspect of their meanings but still keep the directional one. It is also argued that success markers develop along a different grammaticalization path from TAM markers. Both success and TAM markers are arguably grammaticalized from directional markers. In addition, it is found that success markers can express the resultative and directional meanings at the same time because they indicate the change of location of the affected entity. We hope that this paper not only contributes to the study of Thai linguistics but also sheds light on the areal phenomenon of verb serialization and on the theory of grammaticalization at large.

REFERENCES


PART 5

KAM-SUI LANGUAGES
CHAPTER NINETEEN

KAM

Tongyin Yang and Jerold A. Edmondson

19.1. INTRODUCTION

The Kam are one of the fifty-five officially recognized minority ethnic groups of China. While they are referred to as 侗族 Dongzu in Chinese, their own designation or autonym is Kam or more explicitly [kam]. The population of the Kam was about 2.5 million according to the 1990 census, making it the fourteenth largest of China’s ethnic groups. More than 90% of the Kam population is concentrated in a triangle overlapping SE Guizhou Province (1,410,000), Hunan Province (750,000) and the Guangxi-Zhuang Autonomous Region (290,000). A small group lives in a separated area in western Hubei Province (50,000) (Long and Zheng 1998 1: 11–12). There is also one Kam village in Vietnam’s Tuyên Quang Province where a few people migrated about 150 years ago. A very few persons can still speak the language, but the language is utterly moribund and will die when these few speakers are gone (Edmondson 1998). The neighboring ethnic groups of the Kam include the Miao, Yao, Sui, Mulao, Zhuang, Buyi people, and, of course, the Han Chinese.

The Kam people generally reside in lowland terrain near rivers in the mountainous area south of the Central Plains. Small settlements may number only 10–30 houses; large settlements may have five hundred or more. They are considered masters of wood construction. The traditional dwelling of the Kam, for example, is the piled ganlan house of two or three stories with the main area one level above ground. In most of the southern Kam villages there is also a lofty drum tower, an eye-catching structure, serving as a landmark and the center of communal activity. Kam carpenters also build some exquisite bridges across the main rivers—called tiu ‘colorful bridge’; in Chinese they are called fengyu qiao, ‘bridges that shelter from wind and rain’. Amazingly, not a single nail or screw is used in any of their structures; only mortise and tenon joints with locking pegs find a place in their construction even when these reach ten stories in height or when the spans of the elegant bridges exceed 100 meters.

The Kam are also deservedly famous for their musical traditions. The importance of music is reflected in the Kam proverb, ‘Food satisfies only the body, but song nourishes the soul.’ In the pre-literate past Kam singing once constituted a feature essential to courting a prospective spouse, to toasting honored guests, and to preserving clan history. Even today this time-honored practice is fostered with singing contests and universal instruction for all young children. Kam multi-part choral songs surprised outsiders when in the 1980s Chinese folklorists first discovered it. The Guizhou Kam Chorus was even invited to perform in Paris.

The Kam are primarily subsistence farmers living on the products of wet paddy rice agriculture. Traditionally, glutinous rice has been the staple, because of its high nutritive value and ease of preservation. It is also a fundamental component of all societal rites and ceremonies. Nowadays, production of the hybrid japonica rice has outstripped glutinous rice, but each family nonetheless reserves part of its assigned acreage for growing glutinous rice. Daily activity centers upon the cycle of preparation, planting, cultivating, weeding, and harvesting. Another income source comes from logging and forestry. The Kam area coincides with one of China’s eight largest forested zones. Thus, in the past, the Kam agricultural and

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1 This chapter is based primarily on Tongyin Yang’s MA thesis and part of his PhD dissertation at The University of Texas at Arlington.
forestry products allowed a largely self-supporting economy with enough surpluses to buy commercial goods as was needed. But the situation has changed drastically today. Not only have the crop varieties been enlarged, but also many members of the younger generation have left the community and are seeking their fortunes in distant urban areas such as Guangzhou and Shanghai.

Kam is the native language of the Kam people. According to a survey conducted in 1995 (Chen 1995), the estimated number of Kam language speakers was 1.7 million. Among them, one million could not speak Chinese at all, 400,000 could speak Chinese in some form but not fluently; 300,000 were fluent Chinese speakers while Kam was still their native language; all others had shifted to local forms of Chinese completely (Chen 1995: 2–3). That means at least one-third of the Kam populace currently uses Chinese as their first language rather than Kam. Among the remaining two-thirds of the population, language use can be divided into two major subtypes according to geography and according to their degree of contact with Han Chinese. In the Southern areas — the boundary lies along a line running from Qimong, Jingping County, Guizhou and Lannichong, Jinzhou County, Hunan, where Kam, Miao, and Han Chinese live together — language use is more preservative. More archaic features are found in these isolated locations where the Kam make up the majority. By contrast, Northern Kam has been influenced more deeply by Chinese, not only in lexicon, but also in its phonological and grammatical structure.

Kam has been distinguished as an ethnic group since the sixteenth century (end of the Ming Dynasty, AD 1368–1644) but the earliest records of the Kam language appeared sporadically only after AD 1800 (Guangxi General Annals and Longsheng Ting Annals). The Kam of Tianzhu and Jinping Counties are mentioned in the Chinese Repository 1845 as planters of cotton and cultivators of silk. F. K. Li (1942) noted the Kam people and their language in his early work (Li 1942) but he published no detailed study of it. The German ethnologist Inez de Beauclair visited Kam areas in September 1947 and described the people and their cultural setting in her original report to the Wenner Gren Foundation in 1948 (De Beauclair 1972). But formal systematic study of Kam did not start until the 1950s.

Kam is a part of the Kam-Tai language family. F. K. Li assigned it to the Kam-Sui subbranch (Li 1942), a classification that has, for the most part, been accepted by the international linguistic community. Linguistic study of Kam began in 1956 when the Chinese government responded to the need to create orthographies and to promote literacy for traditionally unlettered minority peoples throughout China. The plan was to begin by organizing broadly-based and detailed investigations in several field locations of the unstudied and understudied minority languages of the Chinese hinterlands. Kam was one of its first targets. The Kam Language Survey Group under the First Working Team of Chinese Academy of Sciences conducted a comprehensive field survey of Kam dialectology. As result, Final Report Surveying Kam Dialects was drafted in 1957. It provided the first comprehensive linguistic information about Kam with data from 20 survey locations and played a pivotal role in designing and legitimizing the Latin-based Kam orthography (promulgated 1959). This report became the foundation stone for all Kam linguistic research and members of the Survey Group became main forces in linguistic research about Kam. Among these pioneers were Professors Yang Quan and Zheng Guoqiao.

A Brief Description of the Kam Language (Liang Min 1980) was the first systematic published study on Kam in or outside of China. It provided a brief preliminary description of Kam phonology, morphology, grammar, lectal variation, and orthography. This work relied on the fieldwork carried out in 1950s.

The Institute of Nationality Studies of The Chinese Academy of Social Sciences, The Third Department of Minority Languages at the Central University of Nationalities, The Kam-Tai Research Units of Department of Chinese Language and Literature at Nankai University, and

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2 He writes that he had worked on the Kam language of Rongjiang County, but that his notes were lost in the mail as a consequence of chaos accompanying the onset of war in the mid-1940’s.
the Guizhou Institute of Nationalities have become the four most important research institutions engaged in the study of the Kam language. From results achieved in Liang (1980), scholars from these institutes have continued to deepen their analysis of Kam, exploring more aspects of the language, including questions about its tones, phonological variation, lexicon, grammar, dialectology, and sociolinguistic issues. Important scholars and their major works on the Kam language include the following: Yang Quan, a Kam native speaker, who classified the diachronic development of Kam tones, initials, and rhymes (Yang Quan 1988), Zheng Guoqiao, whose pedagogical work *Teaching Material on Kam Grammar* (1988) and *Teaching Material on Kam Dialectology* (1988) provided further enlightenment into Kam language structure and are highly regarded as Kam texts though they have remained unpublished. He later worked with Long Yaohong and they extended their views into the cultural environment. They combined efforts skillfully to produce *The Kam Language in Guizhou Province, China* (1998), which was the first lengthy description of the Kam language available in English, translated by D. Norman Geary. The native-speaker scholar Shi Lin studied Kam word categories (Shi Lin 1985, 1986). Also covered in his works are phonological variation, tones, dialectology and new Han borrowings (Shi Lin 1983, 1990, 1992, 1994). *The Sanjiang Kam language* is an excellent description of a local language practices by Shi and Xing Gongwan (1988). J. A. Edmondson treats Kam initials, tone quality and the interrelation between them (1988). He also has done tremendous translation work from Chinese to English and has made previous work available to researchers outside China. He, Yang Tongyin, and Somsonge Burusphat (2000) have collaborated to produce a 300-page multilingual dictionary, based upon the original meanings in Kam and not on translations of existing Kam-Chinese materials. A phonetic dictionary with meanings translated from Chinese glosses and transcriptions according to the conventions of Thai scholars has been prepared by Thomas Hudak (1999).

More has been done in Kam phonetic description, word compounding, sentence type and dialectology, but less research has been devoted to analyzing phrase structure, sentence patterns, and discourse structures.

### 19.2. PHONOLOGY

Kam is an isolating, analytic, tonal language, mostly made up of monosyllabic word forms, which means a syllable equals, in general, a word. Each syllable is composed of an initial consonant, a rhyme, and a tone.

The Kam consonant inventory is relatively simple in comparison to other Kam-Sui languages, such as Sui and Maonan. In comparison to Tai languages, it has fewer consonant phonemes as well. The number of its vowels is also relatively restricted. But the complex tonal system and the flexible combination of consonants and vowels within rhymes lead to an intricate syllable structure and result in a sound system with unique properties. It has been widely observed that in the Kam-Tai family there is a strong correlation among the three syllable units, *initial*, *rhyme*, and *tone*. In order to clarify and simplify these issues as much as possible, the consonant and vowel inventory will be mentioned only briefly. Primary attention will be paid to treating the three syllable units individually, and then the relationship among them. This method of presentation has proven to be an effective way in describing Kam-Tai family languages and is still in wide use today.

#### 19.2.1. Consonants and syllable initial phonemes

There are 19 consonant initials in the standard Kam location of Rongjiang Zhanglu, Guizhou Province: \(/p\, ph\, t\, th\, tɛ\, tɛh\, k\, kh\, m\, n\, Ą\, Ąh\, s\, c\, h\, w\, l\, j\)/. Several features can be extracted from this consonant system. The first evident feature is the absence of a voicing contrast. That is, there are neither voiced obstruents, nor voiceless sonorants, in other words, [ɔ sonorant] \(\rightarrow\) [ɑ voiced]. The second point is that Kam shows a well-balanced distribution of place and manner of articulation of consonants: from bilabial [p m], alveolar [t s], to velar [k Ą] and glottal [h]; from plosive [ph], nasals [m n Ą] to fricative [s c] and lateral approximants [l]. Just as in the case of Sui, in the syllable initial position the dentals [t th] can be characterized as having the
tongue tip in contact with the lingual surface of the upper central incisors and at the same time the blade of the tongue is in contact with the front part of the alveolar ridge. Such sounds are in actuality denti-alveolar (more precisely apico-dental lamino-alveolar). The Kam affricate sounds \([tc \, tch]\) have a place of articulation that covers both the post-alveolar zone and the prepalatal zone simultaneously and are actually alveolo-palatals made with the blade of the tongue and the extreme anterior portion of the front part of the dorsum. These do not have the [i]-like or [y]-like offglides that the prepalatal affricates of Han Chinese \([tc \, tch]\) have; these sound have often been transcribed in Chinese sources with \([t \, th]\).

When some of the initial consonants appear in a syllable, secondary features (i.e., labialization, palatalization) can be added to them. Along with those initials without secondary articulations Kam initial phoneme system consists of the following segments:

### TABLE 19.2.1-1: KAM INITIAL PHONEMES

<table>
<thead>
<tr>
<th></th>
<th>labial</th>
<th>alveolar</th>
<th>coronal</th>
<th>velar</th>
<th>glottal</th>
<th>palatal</th>
<th>labial</th>
</tr>
</thead>
<tbody>
<tr>
<td>stop, unaspirated</td>
<td>p</td>
<td>t</td>
<td>tc</td>
<td>k</td>
<td>?</td>
<td>pj</td>
<td>kw</td>
</tr>
<tr>
<td>stop, aspirated</td>
<td>ph</td>
<td>th</td>
<td>tch</td>
<td>kh</td>
<td>phj</td>
<td>khw</td>
<td></td>
</tr>
<tr>
<td>nasal</td>
<td>m</td>
<td>n</td>
<td>ñ</td>
<td>nj</td>
<td>mj</td>
<td>w</td>
<td></td>
</tr>
<tr>
<td>fricative</td>
<td>s</td>
<td>s̃</td>
<td>h̃</td>
<td>h</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>approximant</td>
<td>w</td>
<td>j</td>
<td>w̃</td>
<td>w̃j</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>lateral</td>
<td>l</td>
<td></td>
<td>l̃</td>
<td>l̃j</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes on the Kam initials:

1. \([tc \, tch]\) are voiceless lamino-alveopalatal affricates. The \([tc]\) is articulated with a very short fricative release and a lengthened stop closure, while the \([tch]\) has a longer fricative release and a shorter stop closure. The tongue positions for \([tc \, tch \, n \, ə]\) are similar to the cardinal consonant positions for these sounds.

2. Initial \([t]\) and \([th]\) are (denti-alveolar), whereas final /t/ is \([?t]\), an apico-alveolar stop with near simultaneous glottal stop, a double articulation that is unreleased.

3. When \([w]\) occurs before unrounded vowels, the back part of the tongue is raised, and friction is slight.

4. The \([s]\) is lamino-alveolar with the blade approaching the front of the alveolar ridge.

5. \([ʔ]\) is a preglottalized fron-to-palatal approximant.

6. \([tj\), \([thj\), \([ts\), \([tsh]\) and \([f]\) occur only in modern Chinese loan words and are found exclusively in younger speakers (under 30 of age), so they are not included here. The older generations articulate them as \([tc \, tch \, ə \, s \, h]\) correspondingly. The retroflex consonant series found in Modern Standard Chinese does not exist in Kam. The following are examples of Kam syllable initial phonemes:

### TABLE 19.2.1-2: EXAMPLES OF KAM SYLLABLE INITIAL PHONEMES

<table>
<thead>
<tr>
<th>Initial</th>
<th>Kam</th>
<th>Gloss</th>
<th>Initial</th>
<th>Kam</th>
<th>Gloss</th>
</tr>
</thead>
<tbody>
<tr>
<td>p</td>
<td>pa₅⁵</td>
<td>fish</td>
<td>ph</td>
<td>pha₅⁵</td>
<td>grey</td>
</tr>
<tr>
<td>t</td>
<td>ta₅⁵</td>
<td>eye</td>
<td>th</td>
<td>tha₅⁵</td>
<td>elope</td>
</tr>
<tr>
<td>tc</td>
<td>tca₅³</td>
<td>that</td>
<td>tch</td>
<td>teha₅³</td>
<td>to climb</td>
</tr>
</tbody>
</table>
19.2.2. Explanations about Kam vowels and syllables

1. Kam has six vowel phonemes: /e i o u a/ in native Kam vocabulary.

2. Among them, /o/ occurs only with codas (i.e. with /-t -k -i -u/). The segments /e i o u a/ can occur in a rhyme either with codas or alone.

3. The segment /i/ has two allophones: [i] and [ɿ]. The latter [ɿ] occurs when the coda is /u/, e.g. [pɪu55] ‘container made of a gourd’ vs. [pjɪu 55] ‘to jump’ or final /p t k/ e.g. [tɪp323] ‘to accept, receive (an object)’. The tongue position is lower and tends to be relatively open, cf. Long and Zheng (1998: 25).

4. The segment /o/ has two allophones: [o] and [ɿ]. The latter [ɿ] occurs in monophthongal rhyme and before syllable codas /-m -n -t/, For example: so323 ‘dry’, po35 ‘float’, and mok31 ‘bird’. It is a little longer in articulation and lower in tongue position than [o]. The allophone [o] appears before codas /-i -n -t/, with an intervening [ɿ] glide between the main vowel and the syllable coda. For example: ton53 ‘guess’, thot323 ‘take off (clothes)’.

5. The segment /o/ is fronted a bit after palatalization, /j/, and coronals, or whenever it is followed by codas /m n t/.

6. The nuclear vowels can combine with the vocalic codas /i u/, the three nasal codas /-m -n -ŋ/, and the three stop codas /-p –t –k/. The vowels /a/ and /u/ contrast in vowel length and also in vowel quality; the former is usually IPA [ɿ] and the latter IPA [a:]. Therefore, in the phonological system of Kam /a/ is often called ‘long a’, while /u/ is called ‘short a’.

Rhymes

<table>
<thead>
<tr>
<th>a</th>
<th>e</th>
<th>i</th>
<th>o</th>
<th>u</th>
<th>ə</th>
</tr>
</thead>
<tbody>
<tr>
<td>ai</td>
<td>e</td>
<td>i</td>
<td>o</td>
<td>u</td>
<td>ə</td>
</tr>
<tr>
<td>au</td>
<td>eu</td>
<td>iu</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>am</td>
<td>em</td>
<td>im</td>
<td>om</td>
<td>um</td>
<td>am</td>
</tr>
<tr>
<td>an</td>
<td>en</td>
<td>in</td>
<td>on</td>
<td>un</td>
<td>ən</td>
</tr>
<tr>
<td>anj</td>
<td>ej</td>
<td>inj</td>
<td>oŋ</td>
<td>unŋ</td>
<td>əŋ</td>
</tr>
<tr>
<td>ap</td>
<td>ep</td>
<td>ip</td>
<td>op</td>
<td>up</td>
<td>əp</td>
</tr>
<tr>
<td>at</td>
<td>et</td>
<td>it</td>
<td>ot</td>
<td>ut</td>
<td>ət</td>
</tr>
<tr>
<td>ak</td>
<td>ek</td>
<td>ik</td>
<td>ok</td>
<td>uk</td>
<td>ək</td>
</tr>
</tbody>
</table>

Kam vowels and rhymes

<table>
<thead>
<tr>
<th>Rhyme</th>
<th>Kam</th>
<th>Gloss</th>
<th>Rhyme</th>
<th>Kam</th>
<th>Gloss</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>ta55</td>
<td>eye</td>
<td>e</td>
<td>kwe55</td>
<td>cucumber</td>
</tr>
<tr>
<td>i</td>
<td>phji35</td>
<td>to peel</td>
<td>ə</td>
<td>js53</td>
<td>really?</td>
</tr>
<tr>
<td>u</td>
<td>mu323</td>
<td>later</td>
<td>o</td>
<td>so323</td>
<td>dry</td>
</tr>
<tr>
<td>oi</td>
<td>moi55</td>
<td>to skin</td>
<td>ai</td>
<td>pai55</td>
<td>to go</td>
</tr>
<tr>
<td>ai</td>
<td>pai55</td>
<td>to paste</td>
<td>ui</td>
<td>tœui323</td>
<td>ghost</td>
</tr>
</tbody>
</table>
19.2.3. Tones

There are ten contrastive tones in Kam. If one tracks their historical origin and compares them to sister languages and with Chinese, and treats CVC and CVVC syllable shapes as different tones (as is the practice for Chinese and the languages of China), then the tone contrasts would number fifteen. For convenience, each tone is assigned a Tone Number as well as a Tone Value, as shown below.

### TABLE 19.2.3-1: KAM TONES

<table>
<thead>
<tr>
<th>ToneNo.</th>
<th>ToneValue</th>
<th>Example</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>55</td>
<td>ma⁵⁵</td>
<td>‘vegetable’</td>
</tr>
<tr>
<td>7</td>
<td>55</td>
<td>jdk⁵⁵</td>
<td>‘wet’</td>
</tr>
<tr>
<td>1’</td>
<td>35</td>
<td>ma³⁵</td>
<td>‘to come’</td>
</tr>
<tr>
<td>7’</td>
<td>35</td>
<td>mat³⁵</td>
<td>‘flea’</td>
</tr>
<tr>
<td>2</td>
<td>11</td>
<td>ma¹¹</td>
<td>‘tongue’</td>
</tr>
<tr>
<td>8</td>
<td>11</td>
<td>sak¹¹</td>
<td>‘thief’</td>
</tr>
<tr>
<td>3</td>
<td>323</td>
<td>ma³²³</td>
<td>‘cloud, soft’</td>
</tr>
<tr>
<td>9</td>
<td>323</td>
<td>mak³²³</td>
<td>‘big’</td>
</tr>
<tr>
<td>3’</td>
<td>13</td>
<td>no¹³</td>
<td>‘rat’</td>
</tr>
<tr>
<td>9’</td>
<td>13</td>
<td>phat¹³</td>
<td>‘blood’</td>
</tr>
<tr>
<td>4</td>
<td>31</td>
<td>ma¹¹</td>
<td>‘horse’</td>
</tr>
<tr>
<td>10</td>
<td>31</td>
<td>mak¹¹</td>
<td>‘ink’</td>
</tr>
<tr>
<td>5</td>
<td>53</td>
<td>ja⁵³</td>
<td>‘paddy, wetfield’</td>
</tr>
<tr>
<td>5’</td>
<td>453</td>
<td>ma⁴⁵³</td>
<td>‘to soak (rice)’</td>
</tr>
<tr>
<td>6</td>
<td>33</td>
<td>pa³³</td>
<td>‘rice husk’</td>
</tr>
</tbody>
</table>
Some notes about Kam tones:

1. Tone 2 has the lowest value while the peak of tone 5’ reaches the highest level.

2. The onset of tone 3 is higher than tone 6, but the end point of Tone 3 is a slightly lower than that of 6.

3. The 3’ tone is paired with tone 9’ in checked syllables; the 1’ tone is paired with 7’ in checked syllables, and the 5’ tone occurs only with aspirated initial consonants. The Tones 3’ and 9’ are not robustly distinguished in some kinds of Kam including Yang Tongyin’s first language, Yutou Kam of Tongdao County, Hunan, Province. Only two minimal pairs are known: kwa₃²³ ‘bowl’ vs. khwa₂₂³ ‘wide’, pja₂₂³ ‘thunder’ vs. phja₂₂³ ‘cloth’.

4. There are no toneless vowels (such as in MSC Modern Standard Chinese).

19.2.4. Syllable structure and correlations among the units

Since Kam is a monosyllabic language without true clustered initials, the description of its syllable structure is relatively simple. The basic Kam syllable structure is: initial + rhyme + tone. If the phonetic elements vowel, consonant and tone are used to analyze and identify the syllable structure component further, then the structure can be generalized as follows (Here C=consonant, V=vowel, T=tone):

<table>
<thead>
<tr>
<th>Syllable structure type</th>
<th>Example</th>
<th>Gloss</th>
</tr>
</thead>
<tbody>
<tr>
<td>V-T</td>
<td>u⁵⁵</td>
<td>‘above’</td>
</tr>
<tr>
<td>VC-T</td>
<td>vᵐ³²³</td>
<td>‘lid’</td>
</tr>
<tr>
<td>VV-T</td>
<td>ui³⁵</td>
<td>‘to flow’</td>
</tr>
<tr>
<td>CV-T</td>
<td>ta⁵³</td>
<td>‘middle’</td>
</tr>
<tr>
<td>CVV-T</td>
<td>mau³³</td>
<td>‘s/he’</td>
</tr>
<tr>
<td>CVC-T</td>
<td>ton⁵⁵</td>
<td>‘to guess’</td>
</tr>
</tbody>
</table>

Not all the vowels can be combined with all consonants in syllable construction, nor do all tones occur with all initials and rhymes. Some co-occurrence restrictions apply such as:

1. No diphthongs can be followed by a consonant coda, i.e. *aup, *aik, *uit.
2. Tone 1’, 3’, 5’, 7’, and 9’ can occur only with glide initials /w j l/ as well as with the aspirated stop initials /ph th kh phj khw/, and fricatives /h s/. They do not occur with plain voiceless stops.
3. Tone 5 and 6 cannot occur in checked syllables with stop codas /p t k/.
4. In the phonological system of vowels, /a e i/ count as being long vowels, and these only occur as simple vowels in open syllables and as nuclear vowels in checked rhymes and those with coda /i u/. The vowels /u/ and /o/ count in the phonological system as short, and, therefore, they occur as nuclear vowels for checked rhymes or with rhymes with codas /p t k m n i u/.

Thus, the phonology of Kam can be characterized as one that has elaborated its tonal contrasts at the expense of its initial consonants, though aspiration of stops is still found at most locations in the southern Kam speaking area. Vowels have also simplified considerably. Indeed, only the low vowels /a e/ preserve a phonological contrast. All other nuclear vowels have lost this feature, though they show this or that allophone depending upon whether in open syllable or followed by codas /p t k m n i u/.
It is noteworthy that in some northern Kam locations phonological change is more advanced, so that even stops have lost aspiration displaying the carrier of the contrast from aspiration to tone. Moreover, in Shidong of Tianzhu County many voiceless stop codas are starting to decay yielding many examples of vocabulary that are distinguished by tone only, which has resulted in a tonal system that demonstrates five level tone trajectories (11, 22, 33, 44, and 55) in addition to three rising and one falling pitch shape. Thus Kam phonology can inform us about the history of Kam-Sui but also about the nature of sound change in general, especially as it relates to tonal development. One obvious fact, is that Kam at Rongjiang does not require that the cause of a change (aspiration) disappear before the change can be said to have been completed (Tones 1, 3, 5, 7, and 9), which is required by the phonemic principle.

19.3. SYNTAX

Until recently there have been few sources of information about the morphological and syntactic structure of the Kam language. In 1984 Liang Min provided a sketch of the word categories, patterns of reduplication, monosyllabic vs. polysyllabic word forms, and basic sentence patterns of Kam. Long and Zheng (1998) provided a much more elaborate look at Kam grammar, including an introduction to Northern Kam structure. Yang (1999) in his MA thesis employs the X-bar model of phrase structure of Kam, concentrating on his own vernacular speech of Yutou, Tongdao, Hunan Province. It might be said to be the first ‘theoretical’ statement of Kam syntax. We have incorporated many aspects of Yang (1999) in this entry and recast it to capture the features of Rongjiang Kam, which is the standard on which the Kam writing system is based.

19.3.1. Noun phrases

Kam phrase structure is basically head-first. By looking at the simple Kam phrases:

(1) a. le11 ‘book’ m353 ‘new’ tca323 ‘that’— ‘that new book’
   b. lau323 ‘enter’ kun53 ‘before’ — ‘enter first’

One can recognize that Kam is a head-first language. That means that its phrase structure will be generated by the rules XP → X’ Spec; X’ → X’ Adjunct AP; and X’ → X Complement ZP in which Spec, Adjunct, and Complement elements appear on the right of the X’ and X respectively. It will turn out that not all elements in phrases are as consistent in their left-headed ordering as these two examples. Kam will show itself to be a language that demonstrates predominantly head-first but also some head-final word order properties. Work also remains to be done in seeking the source of word order variations and its linguistic environments both historical and contextual.

The NP (noun phrase) is the constituent occupying the subject (or the object) position of a sentence. It is headed by a noun and may be augmented by other constituents such as complements, adjuncts, and specifier(s). The following tree diagram shows the basic structural characteristics of the first example mentioned above:
In (2), except for IP, the specifiers and adjuncts follow their heads. This generalization extends not only to adjective phrases (AP), but also to many other phrasal categories—preposition phrases (PP), quantifier phrases (QP), pronouns, verb phrases (VP), and noun phrases themselves. In this section, only the noun + single constituent combination will be discussed out of considerations of simplicity and clarity.

First we consider the structure noun + adjective, a typical NP. The adjective ascribes attributes to the head noun through the process traditionally called modification. Usually that means mapping the head noun properties onto some proper subset of properties that are also those expressed by the attribute (restrictive or intersecting modification). So in (3) wood properties are mapped onto dry wood properties. See examples in (3):

(3) (a) mni\^31 so\^323 ‘dry wood’
    wood dry
(b) jan\^11 mni\^453 ‘new house’
    house new
(c) tci\^53 lai\^55 ‘good idea’
    idea good
(d) mni\^31 tca\^323 ‘the wood’
    wood that
(e) jan\^11 tca\^323 ‘the house’
    house that
(f) jan\^11 mni\^453 tca\^323 ‘the new house’
    house new that

The Kam adjuncts so\^323, mni\^453, lai\^55 in (3) a, b, c and specifier tca\^323 in (3) d, e, and f must be placed after the head noun of the containing phrase. It is possible for an adjectival element to occur preceding the noun, but in such a case, the category of the combined phrase would no
longer be taken as an NP but as a typical VP (see 3.2.1.1). Also personal pronouns are not treated as nouns in *pronoun + adjective* structures, but instead the structure belongs to the clause or sentence level. In other words, adjectives cannot modify a pronoun to form a ‘pronoun’ phrase.

It is, furthermore, to be noted that some elements can be inserted between the noun and the adjunct here (adverbs of degree or scope, negative markers, and adjective reduplication).

(4) (a) \( \text{mni}^{31} \text{ naŋ}^{31} \text{ so}^{323} \text{ tca}^{323} \) ‘the very dry wood’

\( \text{Wood very dry that} \)

(b) \( \text{jan}^{11} \text{ tcaŋ}^{55} \text{ mni}^{453} \text{ mni}^{453} \text{ tca}^{323} \) ‘the pretty new-looking house’

\( \text{House very new new that} \)

(5)

```
NP

|  \[ N \] |  \[ Det \] |
|------------------|
|  \[ N' \] |  \[ AP \] |
|  \[ N'' \] |  \[ A' \] |

\( \text{mni}^{31} \text{ naŋ}^{31} \text{ so}^{323} \text{ tca}^{323} \) ‘the very dry wood’

\( \text{jan}^{11} \text{ tcaŋ}^{55} \text{ mni}^{453} \text{ mni}^{453} \text{ tca}^{323} \) ‘the pretty good-looking house’
```

The adverb here needs help from a final demonstrative determiner such as \( \text{tca}^{233} \) ‘that’, \( \text{nai}^{33} \) ‘this’, or interrogative determiner \( \text{nmi}^{35} \) ‘what, which’ for the structure to be understood as an NP. If no determiner is present, the adverb will result in an interpretation requiring that the structure be taken as a complete sentence, IP, rather than as an NP. See (6) below:

(6)(a) \( \text{mni}^{31} \text{ naŋ}^{31} \text{ so}^{323} \) ‘The wood is very dry’

\( \text{wood very dry} \)

(b) \( \text{jan}^{11} \text{ tcaŋ}^{55} \text{ mni}^{453} \) ‘The house is pretty new’

\( \text{house very new} \)
Negation does not often occur in NPs with adjective modifiers, but it is acceptable, see (8a). Such negated adjuncts also require a determiner if they are to be understood as NPs and not to have the superficial form of a sentence (IP). The structure (8b) is unacceptable as an NP but acceptable as a sentence, IP.

(8) (a) NP: \( \text{tom}^{33} \text{ ma}^{31} \text{ co}^{31} \text{ te}^{323} \) ‘the unripe fruit’

fruit NEG ripe that

(b) IP/*NP: \( \text{tom}^{33} \text{ ma}^{31} \text{ co}^{31} \) ‘The fruit is unripe.’

The modifying adjective phrase can be reduplicated to express emphasis and raise the degree of the specific properties the adjective adds to the containing phrase. Here the determiner is required. See examples in (10a) and (10b):

(10) (a) \( \text{mja}^{31} \text{ jai}^{33} \text{ ma}^{31} \text{ jai}^{33} \text{ jai}^{33} \text{ te}^{323} \) ‘the very sharp knife’

knife sharp knife sharp sharp that
Another way to emphasize the degree of an adjective is to add a special intensifier (INT) after the adjective. The INT is a lexical category (not found in English and other languages of Western Europe but a feature widely found in Asian languages, including Kam, Chinese, Thai, and others that usually co-occurs with adjectives, called 状语 zhuangyu in Chinese). These lexical items have no independent meaning, but cases of homophonous forms in other word categories do exist for some intensifiers; these might have independent meaning. An INT can only appear with (i.e., is subcategorized with) a particular adjective, and there is a very close lexical connection between an adjective and its own lexically determined intensifier. They remind one a little of English expressions intensified by similes, contrast, for example, Kam ntm⁵⁵ cu²³ cu²³ and English pitch black. Kam speakers simply know that cu²³ (reduplicated or not) is the word form used to intensify ntm⁵⁵, but unlike pitch Kam intensifiers are not lexical words otherwise in use. Thus, the question here is what structural position in the phrase does the INT fill, specifier, adjunct, or complement? No definitive answer will be given at this point, but the lexical closeness of the adjective and INT might suggest a complement relation. One further point is to be noticed. In some cases, such as the examples below, there is an optional particle tca²³ that is perhaps the specifier of INT Phrases and functions something like English ‘-ly’:

19.3.1.1. Noun + possessive pronoun NP

The pronoun is a [+N, -V] lexical category that can be used to express a possessive NP. The adjunct possessive pronoun construction follows the head noun. Note that the possessive is treated as an adjunct.

19.3.1.1.1. Personal pronouns

The list of the personal pronouns in Kam that fill the possessive pronoun slot is very limited in number:

(b) na⁵⁵ mak³²³ na⁵⁵ mak³²³ tca³²³ ‘the very big river’
river big river big big that
Each of the above pronouns can take the place of the Pronoun (Pro) in the \textit{Noun + pronoun} NP and defines the possessive status, the source of the noun, the object of the noun, or any number of other relations between the head and the pronoun. Examples of the possessive are:

\textbf{14) s\textipa{m}1\textipa{i} jau1\textipa{l} ‘my room’}
\textipa{li3\textipa{l} j\textipa{n}1\textipa{t} te\textipa{n}11 ‘gossip or views of people’

In Yutou Kam, unlike in the standard Rongjiang Kam, when the head noun here is a kinship name that belongs to a higher generation than the speaker, only the plural pronouns can be put into the Pronoun position. This lexical restriction is a consequence of social and cultural customs and practices in this place. The singular pronouns are excluded from this NP type. Thus, in a sense, YT Kam has a form of the \textbf{pluralis majestatis} construction that employs plural forms to accord greater respect or social significance to elders. For example:

\textbf{15) ne\textipa{i}3\textipa{1}(mother) lau5\textipa{5} (we/our)  ‘my/our mother’}
\textasteriskcentered*ne\textipa{i}3\textipa{1}(mother) jau1\textipa{l} (I/my)  ‘my/our mother’
\textasteriskcentered*ko\textipa{n}3\textipa{2}(ancestors) khe5\textipa{5}(they)  ‘his, her/their ancestors’
\textasteriskcentered*ko\textipa{n}3\textipa{3}(ancestors) mau3\textipa{3}(his/her)  ‘his, her/their ancestors’
non3\textipa{1}(younger sibling) cau5\textipa{5} (you. (pl.))  ‘your (pl.) younger siblings’
\textasteriskcentered*non3\textipa{1}(younger sibling) na1\textipa{l} (you. (sing.))  ‘your (sing.) younger sibling(s)’

That means the plural pronoun can express not only a plural but also a singular possessive meaning for a person. The \textit{kinship name noun + singular pronoun} is unacceptable in a pragmatic sense when the speaker belongs to a younger generation than the person addressed or spoken of, except for one’s spouse. So, one can say \textit{mai3\textipa{i} jau1\textipa{l}} to refer to ‘my wife’ rather than using \textit{mai3\textipa{i} lau5\textipa{5}} (which means ‘my brother’s wife’); one can also say \textit{lak3\textipa{i} jau1\textipa{l}} ‘my son’ rather than \textit{lak3\textipa{i} lau5\textipa{5}} (which means ‘our descendents’).

This special restriction on kinship noun and personal pronoun combination will also be included in 3.3 as example of lexical co-occurrence restrictions.

\textbf{19.3.1.1.2. The demonstrative and interrogative determiners}

The demonstrative and interrogative (abbreviated as DI hereafter) determiners can appear with nouns directly to specify, limit, quantify, or ask the identity of the nouns. Kam has a set of DIs to distinguish some subtle differences in spatial position.

\textbf{16) nai3\textipa{2}3 ‘this’ (able to touch)}
\textasteriskcentered tc\textipa{a}3\textipa{25} ‘that’ (previously mentioned)
tc\textipa{a}1\textipa{l} ‘that, the’ (specified, exactly that one)
tc\textipa{a}3\textipa{3} ‘visible, within range’
tc\textipa{a}5\textipa{3} ‘that’ (visible but far away)
ja5\textipa{3} ‘that, where’ (invisible)
n\textipa{n}u3\textipa{5}/lu3\textipa{5} ‘which, what, whom, where’
tcak1\textipa{1} ‘the (a definite description in some discourse setting)’
Examples are provided as follows (with CLF for animals *tu"*):

- (tu₁¹) ɲua³⁵ nai³³  ‘this dog’ (right beside the speaker)
- (tu₁¹) ɲua³⁵ tca²²³  ‘that dog’ (the one mentioned before)
- (tu₁¹) ɲua³⁵ tca¹¹  ‘the/that dog’ (the identical or very one)
- (tu₁¹) ɲua³⁵ tca³³  ‘the dog over there’
- (tu₁¹) ɲua³⁵ tca₅³  ‘that dog far over there’
- (tu₁¹) ɲua³⁵ nu³⁵  ‘which dog’

Other modifiers/adjuncts such as adjectives, personal pronouns or even an IP can be embedded between the noun and the DI, and the whole construction remains still an NP. If the same constituents should appear after the DI, then the structure can only be understood as a complete sentence. The following examples illustrate this difference:

(17) ce⁵⁵ nai³³  ‘this coarse sand’  (NP)
    ce⁵⁵ man³²³ nai³³  ‘this yellow coarse sand’  (NP)
    ce⁵⁵ nai³³ man²²³  ‘this coarse sand is yellow’  (IP)

If the personal pronoun is absent or appears outside the NP, then a headless NP construction with the specifier (determiner) *ti⁵⁵* ‘-s’ is required in a structure that resembles the English form *ours*:

(18) (a) piu⁶⁵ (gourd) mak³²³ (big) tau⁵⁵ (our) tca³³ (that)
    ‘our big gourd’

(b) piu⁶⁵ (gourd) mak³²³ (big) tca³³ (that) tau⁵⁵ (our) ti⁵⁵ (Part.)
    ‘the big gourd is ours’

(19) (a)
The grammar for the determiner of definite descriptions \(ta\_ak\), in meaning similar to English the, requires that it appear as the right-most element of the NP. An analysis of this particular construction will not be attempted here for lack of time.

19.3.1.2. Noun + complement noun NP

The head noun itself can be followed by another complement noun. In this case, the latter noun of the double NPs (i.e., the complement), expresses the quality, source, function, or shape of the noun. Examples are found in (20).

(20) (a) \(pa\_^{**6}(fish)\) \(na\_^{**6}(river)\) ‘fish of the river’ — source
    vs. \(na\_^{**5}\) \(pa\_^{**5}\) ‘the fish-abundant river’

(b) \(\_om\_^{**5}\) \(pa\_^{**3}\) \(pen\_^{**5}\) ‘hat of bamboo leaves’ — quality
    vs. \(pa\_^{**3}\) \(pen\_^{**5}\) \(\_om\_^{**5}\) ‘the bamboo leaf for making hats’

(c) \(\_om\_^{**11}(desk)\) \(ma\{_31\}(wood)\) ‘desk of wood’ — quality
    vs. \(ma\{_31\}\) \(\_om\{_11\}\) ‘the wood for desk making’

(d) \(ku\{_11\}(pot)\) \(\_om\{_31\}(rice)\) ‘rice cooker’ — function
    vs. \(\_om\{_31\}\) \(ku\{_11\}\) ‘rice cooked in pot’

A simple tree is drawn for the contrastive pair in example a. as follows:

(21) (a) \(\langle\) NP \(\rangle\) \(\langle\) Comp. NP \(\rangle\)
    \(\langle\) N \(\rangle\)
    \(\langle\) Comp. NP \(\rangle\)
    \(\langle\) N \(\rangle\)
    \(\langle\) Comp. NP \(\rangle\)
    \(\langle\) N \(\rangle\)
    \(\langle\) Comp. NP \(\rangle\)
    \(\langle\) N \(\rangle\)
    \(\langle\) Comp. NP \(\rangle\)
    \(\langle\) N \(\rangle\)
    \(\langle\) Comp. NP \(\rangle\)
    \(\langle\) N \(\rangle\)
    \(\langle\) Comp. NP \(\rangle\)
    \(\langle\) N \(\rangle\)
    \(\langle\) Comp. NP \(\rangle\)
    \(\langle\) N \(\rangle\)
    \(\langle\) Comp. NP \(\rangle\)
    \(\langle\) N \(\rangle\)
    \(\langle\) Comp. NP \(\rangle\)
    \(\langle\) N \(\rangle\)
    \(\langle\) Comp. NP \(\rangle\)
    \(\langle\) N \(\rangle\)
    \(\langle\) Comp. NP \(\rangle\)
    \(\langle\) N \(\rangle\)
    \(\langle\) Comp. NP \(\rangle\)
    \(\langle\) N \(\rangle\)
    \(\langle\) Comp. NP \(\rangle\)
    \(\langle\) N \(\rangle\)
    \(\langle\) Comp. NP \(\rangle\)
    \(\langle\) N \(\rangle\)
    \(\langle\) Comp. NP \(\rangle\)
    \(\langle\) N \(\rangle\)
    \(\langle\) Comp. NP \(\rangle\)
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    \(\langle\) Comp. NP \(\rangle\)
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    \(\langle\) Comp. NP \(\rangle\)
    \(\langle\) N \(\rangle\)
    \(\langle\) Comp. NP \(\rangle\)
    \(\langle\) N \(\rangle\)
    \(\langle\) Comp. NP \(\rangle\)
    \(\langle\) N \(\rangle\)
Prepositions such as nau₃³ ‘at, on, in, with’ and verbs can occur between the two nouns so that indicates that pa₅⁵ na₅⁵ is a part of phrase structure and that that pa₅⁵ na₅⁵ is not just a compound noun. The NP lexical category of the phrase remains the same. Determiners can disambiguate the category of the phrase but are not necessarily required. For example:

\[\text{pa₅⁵ nau₃³ na₅⁵ tca₃³ ‘the fish that live in the river’}\]

fish live, at river that

\[\text{ma₁³₁ sau₃³ coj₁¹ ‘the wood for desks’}\]

wood make desk that

\[\text{le₁¹ anj₃²³ am₃²³ tca₃³ ‘the book about medicine’}\]

book speak medicine that

With the absence of the DIs, each of the three above NPs will overlap with a grammatically correct but applicationally wrong complete sentence.

\[\text{(23) IP/*NP: pa₅⁵ nau₃³ na₅⁵ * ‘the fish lives in river’}\]

\[\text{IP/*NP: ma₁³₁ sau₃³ coj₁¹ * ‘the wood makes desk’}\]

\[\text{IP/*NP: le₁¹ anj₃²³ am₃²³ * ‘the book speaks of medicine’}\]

One further type of structure needs discussion, namely the topic that at first resembles the Noun + Noun and Noun + Pronoun NP morphologically but has a different derivational history. They can be distinguished in hierarchical organization. In (24) below the indicated portion of (24a) is an NP. In (24b) mja¹¹ ‘hands’ has been topicalized and jau¹¹ ‘I’ is the subject of the IP.

\[\text{(24) (a) NP: [ [mja¹¹ jau¹¹] čuk₃²³ la₁¹] ‘My hands are washed’}\]

\[\text{hand I washed perf.}\]

\[\text{(b) Topic: [ [mja¹¹] [ [jau¹¹] čuk₃²³ la₁¹] ] ‘Speaking of hands, I have already washed them’}\]

\[\text{hand I wash perf.}\]

19.3.1.3. Noun + localizer PP

A localizer adjunct fixes the relative spatial position of the noun. Some most commonly used Kam localizers are: u₅³ ‘above, up(on)’, te₃²³ ‘under, below’, au₁¹ ‘in, inside’, nuk₁²³ ‘outside’, phc₃⁴ ‘on the brim of’, pjin₅⁵/ke₅⁵ ‘beside’, ta₅³ ‘in the middle of’, tij₅¹ ‘at the bottom of’, pan₅³ ‘half way’, and cut²² ‘at the corner of’
The structure _localizer + noun_ consists of a PP in which the localizer is a preposition describing the spatial relation between the noun and the reference identity. A determiner is helpful to parse the structure as an NP category but not required. See some examples:

(26) nem³¹(water) au³¹(inside) tau³²(pan) tca³³(that) ‘the water in the pan’
le³¹(book) u⁵⁵(on,above) çoʃ¹¹(desk) tca¹¹(that) ‘the book on the table’
mau¹¹(fertilizer) ta³³(middle) ja³³(field) tca³³(that) ‘fertilizer in the middle field’

It is clear that we are dealing here with an adjunct construction and not with specifiers or with complements, as the localizer phrase is restricted in occurrence and can be used widely with a large set of nouns.

19.3.1.4. _Noun + adjunct verb NP_

The head noun can also be modified by a verb with or without DI, as is seen in (27).

(27) (a) tmj⁵³ su³³(tca³³) ‘the bench for sitting’
bench sit

(b) ma⁵⁵ tuj⁵³(tca³³) ‘the cooked dish’
dish cook

(c) nɔn¹¹ pjiu⁵⁵(tca³³) ‘the jumping person’
person jump

The verb in (27) cannot be considered as the predicate of a sentence following a possible subject. In (27a) and (27b) it is clear that the bench itself cannot sit and the dish cannot cook. Even in (27c), if the verb here functions as a predicate, then it requires some other lexical and grammatical help from other constituents, such as VP marker (directional verb) paf⁵³, taf⁵⁵. The verb here is very much like a modifier whose functions will be discussed in 3.1.1.

There are some cases in which the relation between the noun constituents and the verb constituents is hard to define. They may be considered either as NP head and its modifier (28a), or as a subject and a predicate of a clause (28b):

(28) (a) As a NP: [[nok³¹ pən³²³] [paf⁵⁵ la¹¹]]. ‘The flying bird has gone away’
bird fly go/away Part

(b) As a clause: [[nok³¹] [pən³²³ paf⁵⁵ la¹¹]]. ‘The bird has flown away’
bird fly go/away Part.

(29) (a)
19.3.1.5. Quantifier + noun NP

Quantifier consists of numeral + classifier. There is co-occurrence between a Kam noun and its classifier; for each noun only one or two classifiers are compatible with a given noun. The interesting feature here is that the linear order of the noun and the quantifier does not obey the generalization that all phrase structure is head-first, as has been seen in all other NPs. The noun, which is head of the phrase, follows the classifier and numeral, and is thus not first in the phrase. See examples in (30):

(30) sam\textsuperscript{55} tu\textsuperscript{11} meu\textsuperscript{31} ‘three cats’

three CLF cat

pet\textsuperscript{223} tčəŋ\textsuperscript{11} tčə\textsuperscript{11} ‘eight people’

eight CLF person

The relations expressed in the NP structure (31) above assume that the numeral phrase is an adjunct of the head noun and that the classifier is an adjunct of the numeral. There is, of course, lexical co-occurrence between the head noun and the classifier, but this dependency is lexical and not grammatical. Moreover, since any numeral can co-occur with a given classifier it must be assumed that there is no subcategorization relationship between CLF and NUM; thus the adjunct relation. There is also some gapping evidence to support this analysis. One can say mau\textsuperscript{33} li\textsuperscript{323} sam\textsuperscript{55} tu\textsuperscript{11} meu\textsuperscript{31}, jau\textsuperscript{11} li\textsuperscript{323} si\textsuperscript{53} tu\textsuperscript{11} ti ‘he has three cats but I have four CLF e’. It is ungrammatical so say … jau\textsuperscript{11} me\textsuperscript{11} si\textsuperscript{53} tu\textsuperscript{11} ti ‘…I have four (no classifier)’. These data suggest that sam\textsuperscript{55}-tu\textsuperscript{11} is a constituent and tu\textsuperscript{11}-meu\textsuperscript{31} is not. (But see 3.3. for a discussion of the matching relation between the noun and the classifier.)

These inconsistent phenomena in NP linear order can perhaps be explained through contact with Chinese. In Chinese, the quantifier is placed before the modified noun in an order exactly the same as in Kam. The emergence of classifiers in Chinese is traceable. Before 200 BC there were no classifiers, and after the emergence of classifiers the quantifier and the classifier were placed after the noun. It is still true that in Kam traditional songs and poetry, the classifier can be omitted, and even more importantly the quantifiers with classifiers can, and often do occur after the noun. Other languages of the family may still show the original word order. For example, in Thai, numeral and classifier appear after the head noun (Haas 1942):

i) māa sii.tua ‘dog four CLS = ‘four dogs’

ii) ajaan sāam khon ‘teacher three CLS = ‘three teachers’
Many languages show mixed typology by treating some phrase types as head-first and others as head-last. English is, of course, a well-known instance. One could try to impose consistency on the PS grammar by invoking movement rules, cf. i) below, or simply accept that languages can change their types over time, either from internal forces or from language contact. The case for change in Kam from head-first to partially head-last seems strong, cf. ii) below. It is noteworthy that the specifier determiner in Kam remains the last element of the NP. In some locations where northern Kam is spoken, for younger speakers however, the reversal of phrase structure of the NP has the possessive pronoun or even an attributive adjective before the head NP, just as in Chinese, cf. Edmondson 2003 and Zheng and Long 1998 for details.

19.3.1.6. X-bar schema

All the NPs discussed in 3.1 are of the simplest NP type, but the linguistic data are far more complicated than these show. For example, the different modifiers and the complement constituents can combine to express more sophisticated and refined semantic relationships; an IP can also be inserted into an NP to restrict the Noun further. It is important and also interesting to extract more elaborate rules and principles determining NP organization.

In this section, the Kam NP X-bar schema, based on the analyses proposed in 18.3.1, will first be summarized. Then, the proposed scheme will be confronted with a variety of multiple modifiers and extended constructions in order to refine the proposal still more.

The X-bar format for Kam NPs can be generated with the following three schematic Rules:

(32) (a) NP → N', Det
    (b) N' → N', Adjunct or N' → Adjunct, N' (because of the internal structure of the Numeral Phrase)
    (c) N' → N, Complement

Simple examples produced by rules in (32) are given in (33) and (34):

(33) pa^55 mak^323 au^31 tm^55 tca^33 ‘the big fish in the pond’
    fish big in pond that

(34) lja^33 je^55 ji^35 lo^323 ‘casting nets (is easy).’
    cast net easy PART

The structure of (33) can be shown in (33’):
In (34) *lja33 je35* is the subject NP of the sentence; *lja33* ‘casting’ takes as its complement NP *je35* ‘net’ just as the corresponding sentence *lja33 je35* ‘cast nets’ the direct object NP *je35*. To date we have not found other kinds of NP complement structures of the type so often discussed in the grammatical literature of English (such as student of physics, farmer of rice, destruction of the city, etc.) See Radford (1997).

19.3.1.7. NP determiners

The NP determiner refers to the lexical constituent those functions to specify the NP for definiteness, quantity, and other features. It may have semantic functions at the same time.

The previous discussion in this chapter indicated strongly that there are NP determiners in Kam. These need to be represented in the hierarchical organization. A summary of the NP markers list follows:

(35) (a) determiners for definite description:

\[
\begin{align*}
nai33 & \quad \text{‘this’} \\
tca33 & \quad \text{‘that’} \\
tca11 & \quad \text{‘that’} \\
tca323 & \quad \text{‘that’} \\
nu35 & \quad \text{‘which, whom, where’}
\end{align*}
\]

(b) Conjunctions can also indicate that the around element(s) is/are NP:

\[
\begin{align*}
nim35 & \quad \text{‘and, (along) with’} \\
tog11 & \quad \text{‘and, (along) with’} \\
tu55 & \quad \text{‘though, even, further’} \\
ju33 & \quad \text{‘and, again; along’}
\end{align*}
\]

The NP determiner role is to confirm and label the NP category of a phrase, even though the category of the NP phrase is not fully determined by the marker. They do, sometimes, not only help confirm the NP membership of the phrase, but also disambiguate the possible ambiguity between the topic structure and the NP. See examples in (36):

(36) (a) *[le11 jau11] [au55 pai55 la11]*. (could be IP or topic)

\[
\begin{align*}
\text{book} & \quad \text{my} \quad \text{take} \quad \text{go} \quad \text{Perf.} \\
& \quad \text{‘My book has been taken away’}
\end{align*}
\]
Xu and Langendoen (1985: 1) have a clear definition of the topic structure by saying ‘By ‘topic structure’, we mean any grammatical configuration consisting of two parts: the topic, which invariably occurs first, and the comment, a clause which follows the topic and says something about it.’ Kam topic structure is the same, but the ordering of the topic and the subject of the structure can overlap with a possible ‘N + modifier N’ NP. In this case, the speaker can take advantage of the determiner’s role to clarify the vagueness, when homonyms or multiple specifiers are involved in the structure. There can be several distinctive interpretations for (37), depending on parsing and intonation, as shown in (37).

When an NP determiner appears, the interpretations become unambiguous. The above mentioned ambiguous sentence sets can then be disambiguated according for internal organization as:

(a) [le1 jau1 tca3 ] [au55 pai55 la1I].
— ‘My book has been taken away.’

(b) [le11 jau11 tca33 ] [au55 pai55 la1I].
— ‘The book I bought is gone.’

(c) [le11 tca3 ] [jau11 au55 pai55 la1I].
— ‘The book, I have taken that one away.’
The situation in (38) is a bit more complex due to its multiple modifiers but can be clarified as in (39).

(39) (a) NP1: [si\textsuperscript{11} man\textsuperscript{323} na\textsuperscript{11} t\textsuperscript{ca}\textsuperscript{323}] [tu\textsuperscript{55} lai\textsuperscript{55} mi\textsuperscript{31}]?
— ‘Is your yellow cake right there baked already?’

(b) NP2: [si\textsuperscript{11} man\textsuperscript{323} na\textsuperscript{11} tu\textsuperscript{55} t\textsuperscript{ca}\textsuperscript{323}] [lai\textsuperscript{55} mi\textsuperscript{31}]?
— ‘Is the yellow cake you baked ready?’

(c) Topic sentence:
[si\textsuperscript{11} man\textsuperscript{323} t\textsuperscript{ca}\textsuperscript{323}] [a\textsuperscript{11}] [tu\textsuperscript{55} lai\textsuperscript{55} mi\textsuperscript{31}]?
— ‘Regarding the yellow cake, have you baked it already?’

It is very clear the NP determiner $t\textsuperscript{ca}\textsuperscript{323}$ here works effectively to single the whole NP out, specifying its position and relationship with respect to other constituents, and clarifying the internal organization of the phrase. These Det’s possess a special feature compared with their counterpart in many other languages, such as English and Chinese: its position is right after other NP constituents and marks the end of the NP structure. It indicates the NP boundary neatly and supports the idea that this may be considered as a marker of the whole NP. It is in this sense one might suggest separate the NP determiner from other phrase constituents and also from other possible roles such as Det’s and homonyms.

Conjunction NP determiners work a little differently from the other determiners. For example, $j\textsuperscript{35}n$ ‘and, (along) with’ can only occur between two equivalent NPs and cannot be used to separate multiple specifiers. The reason is that the functions of the adjuncts at different hierarchy levels are not equal.

Another point is that the conjoined NP determiner $tu\textsuperscript{55}$ marks the NP status of the component, thus distinguishes it from otherwise verb/verb phrase like structures. At the same time, it can also mark an NP. See the examples in (40).

(40) (a) pjeu\textsuperscript{53} ‘torun’
— pjeu\textsuperscript{53} tu\textsuperscript{55} lam\textsuperscript{55} ki\textsuperscript{323} t\textsuperscript{cha}\textsuperscript{453}.

run marker chase NEG up ‘Even running cannot catch that up’
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(b) ne\textsuperscript{323} ‘to cry’
   — ne\textsuperscript{323} tu\textsuperscript{55} wum\textsuperscript{55} tēa\textsuperscript{11}.
   
   cry marker thin person ‘Even crying can make one lose weight’

An NP phrase is analyzed based on the above proposal in (41).

(41)

In general, the determiners function nicely as NP markers.

19.3.2. Verb phrases

This chapter describes the main aspects of the more complex verb phrases. Since Kam is an
isolating language, it adds on certain phrase elements and independent functional words such as particles and conjunctions to the structure rather than using inflections for tense, aspect, or mood. So a brief introduction to Kam verbs and functional word categories is first provided in 3.2.1.1. Then the structure of the VP will be discussed in 3.2.1.2. Some special extended topics, such as the t ai\textsuperscript{i} ... V... construction, V + pa<td\textsuperscript{55}/ta<td\textsuperscript{55}/ma\textsuperscript{35} construction, and verbal serialization occupy the discussion in 3.2.3.

19.3.2.1. Kam verb

19.3.2.1.1. Verb Categories

Researchers divide the Kam verbs into four subcategories according to their semantic features (Liang 1984: 366):

(42) (a) action verbs(CV): describing movements or actions, for example:

\[
\begin{align*}
\text{lam}\textsuperscript{55} & \quad \text{‘to chase’} \\
\text{mja}\textsuperscript{11} & \quad \text{‘to plant’} \\
\text{tē}\textsuperscript{55} & \quad \text{‘to eat/drink’} \\
\text{mje}\textsuperscript{33} & \quad \text{‘to ponder’}
\end{align*}
\]
(b) *stative verbs* (SV): stating the existence of something, for example:

\[
\begin{array}{l}
tc̃n^3 & \text{‘exactly be’} \\
čl^3 & \text{‘to be’}
\end{array}
\]

(c) *modal verbs* (MV): also called modal auxiliary verbs, for example:

\[
\begin{array}{l}
ju^5 & \text{‘want to’} \\
ño^3 & \text{‘be willing to’}
\end{array}
\]

\[
\begin{array}{l}
tçn^3 & \text{‘want to’} \\
tc̃n^1 & \text{‘be willing to’}
\end{array}
\]

(d) *directional verbs* (DV): reflect the direction of the movements or actions, for example:

\[
\begin{array}{l}
uk^323 & \text{‘to go or come out of a closed space’} \\
lau^323 & \text{‘come or go into a closed space’}
\end{array}
\]

\[
\begin{array}{l}
tçha^5 & \text{‘to go up/climb’} \\
lui^3 & \text{‘go down/descend’}
\end{array}
\]

\[
\begin{array}{l}
pai^5 & \text{‘to go’} \\
ma^35/tc̃n^5 & \text{‘to come’}
\end{array}
\]

One might wish to add a fifth class, the *predicate* noun. These are found only in Northern Kam (Long and Zheng 1998: 120). Members of this new verb class are derived from corresponding nouns and have some restrictions on occurrence. They have the same morphological appearance as verbs (except different tone) but belong to the category noun.

Among the four Kam verb classes, the number of stative or copular verbs is very limited. They can be omitted and the structure still remains grammatical, as is demonstrated in (43).

\[
(43) \begin{array}{l}
\text{(a) mau}^3 \text{tc̃aj}^3 \text{nō}^1 \text{hu}^13 \text{‘He is a poor man.’} \\
\text{he be person big}
\end{array}
\]

\[
= \begin{array}{l}
\text{(b) mau}^3[0] \text{nō}^1 \text{hu}^13 \text{‘He is a poor man.’}
\end{array}
\]

The copula *tc̃aj* is obligatory only when asserting against doubt, as, for example, when speaker A says, A: *mau*\(^3\) *ai\(^{23}\) tc̃aj\(^{22}\) nō\(^1\) hu\(^{13}\) ‘He’s not a poor man’ and then B replies: *mau*\(^3\) *tc̃aj*\(^{22}\) nō\(^1\) hu\(^{13}\) ‘He IS a poor guy!’

There are only a few modal verbs in Kam. They share some common features with adjectives and can be placed into the adjective frame *naj*\(^{11}\) + adj. + *naj*\(^{1}\) ‘really/very +adj. + really/very’ and occupy the same position as adjectives. See (44a) and (44b):

\[
(44) \begin{array}{l}
\text{(a) le}^1 \text{naj}^1 \text{ju}^5 \text{naj}^1 \text{‘The book is desperately needed’} \\
\text{book really want to really}
\end{array}
\]

\[
\begin{array}{l}
\text{(b) e}^35 \text{naj}^1 \text{lai}^55 \text{naj}^1 \text{‘They are really nice’} \\
\text{they really good really’}
\end{array}
\]

It is still arguable whether the category modal verb is well supported or not.

Directional verbs are common verbs of motion that have taken on new functions in that they occur frequently after other verbs giving the directional pathway along which the action or movement take place as consequence. Directional verbs are the second verb of the clause. Thus, one can say that it is important to separate the two different types of actions: one is the
action itself; the other is the spatial/quality shift of the action. In English this meaning is often expressed as a particle verb, such as come out, go down. See examples in (45):

(45) (a) ta\textsuperscript{55}man\textsuperscript{55} uk\textsuperscript{323} ma\textsuperscript{35} la\textsuperscript{11}. ‘The sun has come out.’

the Sun appear come Perf.

(45) (b) lie\textsuperscript{323} ljau\textsuperscript{35} wen\textsuperscript{35} sak\textsuperscript{35} pai\textsuperscript{55} la\textsuperscript{11}. ‘The goat pushed down the fence.’

goat push flip fence Perf.

As the above discussion and examples show, the directional verb is tightly connected to the main verb complementing it with information about the actor along with the effect of the main verb action taking place. The tight connection between the two verbs prevents intervening elements. For instance, in the case of lie\textsuperscript{323} ljau\textsuperscript{33} wen\textsuperscript{35} sak\textsuperscript{35} pai\textsuperscript{55} la\textsuperscript{11} the final particle la\textsuperscript{11} cannot come before the directional complement (i.e., *lie\textsuperscript{323} liau\textsuperscript{33} wen\textsuperscript{35} sak\textsuperscript{35} pai\textsuperscript{55} la\textsuperscript{11}). This behavior argues for treating directional verbs as complements. A similar case is seen in verbs of motion with complement of location (i.e., mau\textsuperscript{33} pai\textsuperscript{55} Beijing ta\textsuperscript{11}). ‘He’s been to Beijing (once)’, but not (except in northern areas) *mau\textsuperscript{33} pai\textsuperscript{55} ta\textsuperscript{11} Beijing. ‘He’s been to Beijing.’ Moreover, the set of directional verb is limited in number. The most common ones are pai\textsuperscript{55} ‘away from’ and ma\textsuperscript{35}/ta\textsuperscript{55} ‘toward the speaker’. This closeness and cooperation of the two verbs has led many to regard the directional verb as a complement and not an adjunct of the main verb.

19.3.2.1.2. Functional words (FW)

Functional words have grammatical function and thus appear only in construction and not in isolation. They occur at the end of a sentence expressing different moods. Their members are limited and can be listed exhaustively. They are divided into three classes: structural FW, aspect FW, and modal auxiliary FW.

Structural FWs are used to set up special constructions, while adding extra semantic or even grammatical information. Three structural FWs are found:

1. \textit{li}\textsuperscript{23} — used after a verb or an adjective to express possibility, or capability, or permission. It is also a verb that means ‘to get, obtain, have’. It is also used in the negative form of the \textit{la}\textsuperscript{11} as in:

(46) (a) ma\textsuperscript{55} nai\textsuperscript{33} tcan\textsuperscript{55} \textit{li}\textsuperscript{23} ‘This dish (of food) is edible’

dish this eat FW or ‘(You are allowed) to eat this dish.’

(b) mau\textsuperscript{33} tan\textsuperscript{55} la\textsuperscript{11} mi\textsuperscript{33}? ‘Has he arrived yet?’

(c) tan\textsuperscript{55} la\textsuperscript{11} ‘Yes.’

If the answer is no, then \textit{ai}\textsuperscript{31} \textit{li}\textsuperscript{23} ‘No’ (older speakers) or \textit{mi}\textsuperscript{31} (young speakers).
(46b) illustrates that a negative reply to the question involves *li* for some speakers. This structure is parallel to Chinese *meiyou* in answer to questions in *le*.

2. *tũ* — used in sentences with passive-like meaning to introduce either the agent or the action if the agent is not mentioned. The position is right before the agent. It is also a verb that means ‘to touch or suffer’.

(47) mau⁵³ *tũ*⁵³ pjän⁵⁵ *cok*¹¹. ‘He got drenched.’

he FW rain whip

3. *ti*³⁵ — used after an attribute or a verb or between a verb and its object to stress an element of the sentence. It turns a noun into an attributive structure. See (48).

(48) e³⁵ *ti*³⁵ ta³²³ ‘their family’s forest’

they FW forest (Attribute)

khai⁴⁵⁵ nai⁵³ mau⁵³ cem³⁵ *ti*³⁵ ‘It is he who paneled this wood wall.’

wall this he panel FW

Aspect FWs are used after verbs to indicate the sequence in time of given actions. Commonly used aspect FWs are:

1. *to*³³ — indicates an action in progress or the continuity of the action. Its meaning is very similar to Chinese *guo*.

(49) na¹¹ sui⁵³ *to*³³ ‘you keep sitting/staying there’

you sit FW

2. *ta*³³ — indicates a completed/or experienced action. Example:

(50) (a) mau³³ sui³⁵ *ta*³³. ‘(This tool) was used by him.’

he sit FW

(b) mau³³ pa⁵⁵ Changsha *ta*³³. ‘He has been to Changsha (capital of Hunan Province).’

he go Changsha FW

3. *la*¹³/*fjeu*³¹ — indicates completion, change of state, or perfected events. Examples:

(51) ma⁵⁵ *cok*¹¹ *leu*³¹ ‘The dish is cooked already’

dish cooked FW

Modal FWs are used to express moods either at the end of a sentence, or at pauses after each serial phrase member in the middle of the sentence. For example:

(52) (a) Question/interrogative:

i) na¹¹ nan¹¹ kwe¹¹ han¹³ paï⁵⁵ *hi*³³? ‘You really don’t want to go

you really NEG willing go FW (I’m surprised)?’
ii) na₁¹ ju₅³ pai₅⁵ m₃⁵? ‘Do you want to go?’
you want go FW

(b) Prohibitive and imperative:

on₃³ we₃¹ hoᵢᵢ l! ‘You’d better not do that!’
don’t do FW

(c) Exclamation:

mau₃³ naŋ¹¹ phan₅⁵ lu₅³ ‘He is really tall, as you told me!’
he really tall FW

(d) Listing miscellany:

le₁¹ a₃³, pjat₅⁵ a₃³, mau₃³ cet₃²₃ pe₅⁵ luᵢ l ‘He sells books and pens
book FW₁ pen FW₁ he all sell FW₂ (and stuff like that)’

19.3.2.2. Verb phrase analysis

The verb phrase consists of sentence parts other than the subject NP in a sentence. The I or
inflection node in Kam is always unfilled, since Kam is an analytic language without overt
inflectional morphology. The sentence in the X-bar theory has the following structure as in
(53):

(53)

The head of VP is the verb. It is modified, specified, or supplemented by other constituents
within the VP phrase. All the VP-internal constituents (including V itself) are layered not on
equal footing but in an ordered organization. Discussion in this paragraph is intended to
capture the internal hierarchy among the various constituents of the VP. The organizing
relation between the verb and other complements is considered first, followed by the V-bar
adjuncts and complements and the linear order in the multi-layered VP. Unlike the NP, VP
complements are easy to find.

19.3.2.2.1. Verb and its modifiers

Kam is a head-first SVO language in its NP structures as shown in 3.1. So one would expect
that the situation in VP would be the same, that is to say, ‘VP → V’, specifier; V’ → V’,
adjunct; V” → V, complement.

19.3.2.2.1.1. ‘Verb + NP complement’ VP

The typical VP consists of verb and a noun acting as the direct object complement. Consider
the examples in (54).
The connection between verb and direct object complement is close and optional modifiers are not allowed to interrupt this sequence (e.g., \textit{mau}^{33} \textit{lja}^{33} \textit{je}^{55} \textit{num}^{31} but unacceptable is \textit{*mau}^{33} \textit{lja}^{33} \textit{num}^{31} \textit{je}^{35} ‘Cast the net into the water’). In this instance \textit{num}^{31} cannot interrupt the sequence of verb + DO Complement.

There is one special feature of verbs and their direct object complements. Like other East Asian languages including Chinese, it is arguable whether there are any absolute intransitive verbs or not. It is difficult to find examples of absolute intransitives because it seems almost any verbs can take an object of some sort. For example, \textit{tok}^{55} (drop) \textit{pj}^{31} \textit{ũ}^{53} (rain) ‘to rain’, \textit{sui}^{53} (sit) \textit{ta}^{53} (bench) ‘to sit’, \textit{mau}^{33} (he) \textit{tok}^{55} (drop) \textit{pan}^{53} (sweat) \textit{ljeu}^{51} (Part). ‘He dripped sweat’. It remains still to be investigated whether these examples involve true transitivity. Nonetheless, it is noteworthy that none of these ‘transitive’ sentences can be passivized. In any case, whether an NP is an obligatory or optional sister of V in many cases may be treatable as a lexical co-occurrence. For the moment, we may tentatively conclude that all Kam verbs are transitive or that at the least some kinds of nouns may appear in construction with the verb, perhaps as complements, perhaps as adjuncts, or perhaps as something else.

Another point that needs to be clarified is the concept \textit{Predicate}. Not only the four classes of verbs mentioned above qualify as the head of a VP, but also adjective phrases and possibly NPs, which is a feature worthy of further exploration. Examples are:

\[(55) \quad \text{(nai}^{33}) \text{ mja}^{53} \text{ n}^{11} \text{ ‘it makes one sad} \quad \text{(en}^{55}) \text{ p}^{11} \text{ n}^{453} \text{ ‘let pig get fat} \quad \text{this sad person } / \text{sadden’ food fat pig } / \text{fatten’} \]

Adjectives in Kam share many properties in common with verbs and function here as verbs, a phenomenon very similar to the English causative ‘en-’ or suffix ‘-en’, even though the encoding is totally different from English affixes. Kam treats them as verbs and includes them in the VP. The analysis of the two above phrases is shown in (56):

\[(56) \quad \text{VP}\quad \text{VP}\]
\[
\begin{array}{c}
V' \\
\text{mja}^{53} \\
\text{sad}
\end{array}
\begin{array}{c}
V' \\
\text{p}^{11} \\
\text{fat}
\end{array}
\begin{array}{c}
\text{NP} \\
\text{n}^{11} \\
\text{people}
\end{array}
\begin{array}{c}
\text{NP} \\
\text{n}^{453} \\
\text{pig}
\end{array}
\]

Other adjectives can also be verbs: \textit{pak}^{21} ‘white’/’whiten’, \textit{kit}^{223} ‘painful’/ ‘cause to pain’, and so forth. It is reasonable to treat the adjective preceding a noun as a V. Compared with the reverse linear order of adjective and noun structure, as in a typical NP, it is obvious that the treatment of the same morphological form as adjective or verb according
to its relation with other constituents is consistent. But, see 3.2.1. Let us now turn to other kinds of structures within the VP constituent.

19.3.2.1.2. ““Verb + adv. complement” and “adv. + teə323 + verb’ VP

Long & Zheng (1998: 132–133) divide adverbs into five classes:

(57) adverbs of degree:
   nan11 ‘really’ the35 ‘further’
adverbs of scope:
   cet13 ‘all’ pu33 ‘also’
adverbs of time:
   su33 ‘then; atonce’ wan11 ‘already’
adverbs of negation:
   kwe11 ‘do not have’ ai323 ‘do not’
adverbs of mood:
   ten33 ‘whenever’ hoŋ11 he11 ‘no matter what’

Adverbs in Kam as in other languages are used mainly to modify verbs, adjectives, or other adverbs. One expects them to follow the V head in a head-first language. And one does find examples very readily:

(58) (a)  
[Diagram]

(b)  
[Diagram]

In addition to the post-positive examples in (58), though, there are also cases in which members from the five adverb classes can be put before the verb in pre-positive position to modify it, for example:
(59) (a) nai³³ haŋ¹¹ ḋaŋ³³ lai⁵⁵ ‘This will be better.’
    this way further good
(b) mau³³ pən³²³ wo³¹ ne²³³ ‘The only thing he knows is to cry.’
    he only know cry
(c) na¹¹ naŋ⁵⁵ ju⁵³ e¹¹? ‘Do you want some more?’
    you still want NEG
(d) jau¹¹ kwe¹¹ jiu⁵³ la¹¹ ‘I don’t want anymore.’
    I don’t want Perf.
(e) mau³³ weŋ¹¹ si¹¹ ko⁵⁵ ‘He always smiles.’
    he always smile

Furthermore, the two head-first VP examples in (58) have close variants that show head-last
VPs when they are accompanied by a conjunction or an adverb constituent təu²³³ which has
the same form with the NP determiner:
(60) (a) na¹¹ ta³³ kun³⁵ pai⁵⁵ ‘You go first’
    you from first go
(b) nən¹¹ təu⁵⁵ təiu²³³ təu⁴⁷ nak⁴⁵³ ‘People are sleeping quietly’
    people quietly DI sleep

In (60b) the particle təu²³³ is homophonous with the determiner. Notice though that other
determiners cannot fill this slot (e.g., *təu⁵⁵ təiu²³³ naı³³). Comparing (58b) and (60b) we see
that adverbs can occur either before or after the V that they modify. If we assume that the
pre-posed and the post-posed forms are related, then one of the positions could be taken as the
result of movement. Another choice is to treat them as two independent elements that share no
common derivational history. One would then take as evidence for their independence that
they possess different positional characteristics. So no movement is needed to explain the
surface facts. They are both adverbs, but they are different adverbs in a grammatical sense.
The latter suggestion is preferred in this paper and detailed discussion will follow. We would
note that adverbs are cross-linguistically a difficult category that in many languages fails to
show consistent word order behavior.

The advantages of categorizing different adverb as different types are obvious. First, it has
just been shown that there are word order differences and second there are differences
between the behaviors of these two types of adverb. Both of these facts support assuming two
types of adverbs, namely the pre-head adverb labeled Adv₁, and the post-head labeled Adv₂,
respectively. Their distinguishing characteristics can be tabulated as follows so they have
different subcategorization.

1. Adv₁ can never be put after the head V, while Adv₂ can occur with no marking post-head
   or in pre-head position accompanied by the marker təu²³³.
2. post-head Adv₂ describes the manner of the action, the way the action proceeds or is
   performed.
3. pre-head Adv₂ with markers expresses a slightly different sense compared with the
   post-head Adv₂. Consider the examples in (61):

(61) ne³²³ hot³¹ hot³¹ ‘cried loudly’ (emphasizes the scene or the situation)
    cry Adv₂
Post-posed adverbs in Kam seem semantically to map the verb meaning onto some part of the verb meaning; running that is fast or crying that is loud, for example. In other words, such adverbs are usually modal adverbs or manner adverbs. The pre-posed adverb, by contrast, does not modify the verb properties directly but seems to operate on more derived and indirect parts of the meaning. It is not easily characterized as to function. This difference suggests but, by no means, dictates that Adv2 is closer to the verb in syntactic representation than Adv1 (assuming that closeness of semantics is mirrored by closeness in syntax). Therefore, while awaiting additional evidence, we will assume that the phrase structure of the VP with both Adv1 and Adv2 is as illustrated in the following diagram.

19.3.2.2.1.3. “Verb + adj. complement” and “adj. + verb” VP

Consider the fact that adjectives and verbs share many features in Kam, for example, they can both function as the head of the predicate. It is possible that they can be confused sometimes, and difficulty arises in identifying them, especially when they are combined. Some examples in (63):

(a) ŋua35 lai55 khuan323
dog good manage
‘The dog is easy to manage.’

(b) ŋua35 khuan323 lai55
dog mana good
‘The dog guards well.’
The adjective *lai*⁵⁵ and verb *khuan*²³ are the heads of their respective phrases in (63a) and (63b). In (63a) *lai*⁵⁵ is the main predicate – the dog is good, good at what? Being controlled. In (63b) *khuan*²³ is the main predicate and the adverb *lai*⁵⁵, equal in appearance to the adjective, modifies the preceding head – guarding how? Well. Despite this evidence let us consider some more examples in (64):

(64) mja⁵³ pai⁵⁵ ‘don’t like to go’/’be sad about going’
    sad    go
sai⁵³ pai⁵⁵ ‘go carefully’/’be careful in going’
careful go
hoi⁴⁵³ pjeu⁵³ ‘(please) run quickly’/’be quick in running’
    fast    run

Adverbs behave as modifiers after their heads in VPs, but their functions are not so clear as the two English translations show. From the view of consistency, it would be better if the first element were treated as the head and the structure remaining grammatical with no significant semantic difference. The two contrasting analyses are shown here, using the *hoi*⁵³ *pjau*⁵³ and a new *lai*⁵⁵ (good) *tčan*⁵⁵ (eat) ‘delicious/good taste’:

(65) VP                   (b) VP
     V’                   V’
    /\                  /\ 
   Adj. Mod.  V’      Comp. AP
       \                  |
        V

hoi⁵³ pjeu⁵³
fast   run   ‘run quickly’
run   fast   ‘be quick in running’

(c) VP
     V’
    /\ 
   Adj. Mod.  V’
       \    |
        V
lai⁵⁵ tčan⁵⁵
good   eat   ‘easy to eat; delicious’
eat   good   ‘be good at eating’

One very robust test for the head of a predicate phrase in Kam is the answer to a question. Kam structure allows the head element only as an answer, but adjuncts or complements alone are not permitted. Thus, the question in (66):

(66) mau⁵³ lja¹³ je³⁵ kwe¹¹ ? ‘Does he cast a net?’

can be answered *lja*³³ ‘casts’ or *kwe*¹¹ *lja*³³ ‘doesn’t cast.’ So in this instance the sentence would be like (67):

(67)
The answer must be *hoif*3 ‘fast’ or *kweif*3 ‘not fast’. The answers cannot be *pjeuf*53 ‘run’ or *muif*53 ‘not run’. Therefore these data suggest that *hoif*53 is the head in the original sentence.

Chinese *pâo (run) DE kuâi (fast) ‘(can) run fast’ is a model to use in the analysis of Kam ‘V + Adj.’ structures. There are two possible analyses here too. One is to take the head as the first verb *pâo* or the second *kuâi*. Traditionally *pâo DE kuâi* is considered as a descriptive complement structure. James Huang (1988) summarizes the two treatments by saying that there are two hypotheses: P(imary) P(redication), in which ‘the second verb in a …V1…V2… sequence is treated as the main verb of the sentence’, while ‘according to the S(secondary) P(redication) hypothesis the second V is treated as a complement of the first.’ See the comparing diagrams based on P.P. and S.P. analysis in (68).

Huang compares the P.P. and S.P. hypothesis and concludes ‘that the traditional hypothesis taking V1 to be the main verb is more nearly correct’ (i.e., he prefers the S.P. at the end). It is the way we chose in Kam in (65b) and (65d).

19.3.2.2.1.4. ‘Verb + prepositional phrase’ VP

Prepositional phrases (PP) can modify the verbs or adjectives that follow them, and are thus to be considered adjuncts.

PPs can also occur after verbs or adjectives as complements of the preceding head, the predicted order of a head-first language. In (70) it is assumed that *kauif*31 *tconif*15 and *tifi kheif*55 are complements of their verbs as they are obligatory elements; they fill in meaning required by the verb. See (70):
The same situation in which the modifier can be either after the head as a complement or before the head as an adjunct is confirmation that: firstly, it is not uncommon for languages not to be entirely consistent with regard to word order typology. The classification needs to be defined further and sub-classes need to be set up for each word class so they can determine the organizational patterns of the VP; or secondly the present classification of adverbs, adjectives, and prepositions is still preliminary. A new classification is necessary to define and identify the different modifiers. Afterwards, the inconsistency above will be resolved. English, for example, has father's hat, but also center of earth.

19.3.2.3. X-bar and the multiple-modifier VP

19.3.2.3.1. VP X-bar scheme

Summarizing the discussion above about the relations between the verb head and the modifiers in the VP, an X-bar scheme for Kam VPs is proposed as follows:

(a) VP → V', XP
(b) V' → V'; YP{PP, AP, AdvP}
(c) V → V, ZP(NP, PP)

The linear order of V and NP Complement is consistent, but the linear order between the V and an adjunct modifier is variable, depending on the sub-class of the adverb, adjective and preposition modifiers.

19.3.2.3.2. Multiple-modifier VP

The VP head, either it is a typical verb itself, or an adjective that functions as a verb. Either can receive more than one attribution from different types of modifiers at the same time. It is also true that some modifiers cannot be used together to modify the same VP head. The linear order and the hierarchical organization among these different modifiers need to be studied in order to capture the nature of the VP phrases. Here is a complete sentence in which several VP head modifiers appear:

mau\textsuperscript{33} ta\textsuperscript{33} nin\textsuperscript{1} pe\textsuperscript{33} su\textsuperscript{33} kwe\textsuperscript{11} t\textsuperscript{1} t\textsuperscript{31} te\textsuperscript{5} jen\textsuperscript{35} t\textsuperscript{31} tan\textsuperscript{55} la\textsuperscript{11}.

He from year last then NEG often smoke cigarette come Perf.

‘He hasn’t smoked so much since last year.’

A quick look at these different VP head modifiers indicates a linear order for them as:

PP + Adv1 + NEG Adv2 + V + NP + Perf. marker

All four modifiers (PP= ta\textsuperscript{33} nin\textsuperscript{1} pe\textsuperscript{33}, Adv1 = su\textsuperscript{33}, NEG = kwe\textsuperscript{11}, Adv2 = t\textsuperscript{1} t\textsuperscript{31}) precede the head V t\textsuperscript{31}. See (74):
The post-head modifier predictably occupies a position after the DO Complement and cannot be put in between the head V and the direct object complement NP. It must, as an adjunct, be put at the end of the VP, and it modifies the highest V'. This suggests that the direct object is a complement of V; the modifier, as an adjunct, cannot intervene.

Clearly the modifier modifies the highest V', not just the head V, as shown in (76).

The post-head modifier predictably occupies a position after the DO Complement and cannot be put in between the head V and the direct object complement NP. It must, as an adjunct, be put at the end of the VP, and it modifies the highest V'. This suggests that the direct object is a complement of V; the modifier, as an adjunct, cannot intervene.

Clearly the modifier modifies the highest V', not just the head V, as shown in (76).
There is no doubt that the modifier is put outside the V and the possible object NP. This allows the demonstrated word order without any crossing of branches. The situation of pre-head modifiers is similar. For instance, the negation adverb modifies the head V and the possible object NP but not the head V alone. One can test the binding characteristic in question-and-answer context. The result is that either the head V or the head V with negation modifier can be used to satisfy the discourse function, depending on the truth of the situation. Consider examples in (78):

(78) (a) Q: e35 pai55 teõn11 mi31? ‘Have they left for the fields?’
   they go mountain NEG
   A1: mi31 pai55. ‘Not yet.’
   NEG go
   A2 :mi31 a11. ‘Not yet.’
   NEG Part.
   A3: pai55 la11. ‘Yes.’
   go Perf.

(b) Q: iõõ tok55 pjõn55 a55? ‘Is it raining?’
   really fall rain Part.
   A1 :kwe11 ho53. ‘No, not at all.’
   NEG Part.
   A2: tok55 li323. ‘Yes, it is.’
   rain Part.
   A3 :iõõ tok55 li323. ‘Yes, it is.’
   really rain Part.

It is rare that the ‘V + NP’ is used to answer the question either in confirming or denying the statement. This demonstrates again that the verb is the VP head and it is sufficient to use the negation marker with the head rather than the entire phrase. As the above cases show, only the head of the construction and the negation adverb are required. So a tree diagram is suggested in analysing the VP with preceding modifiers in (79):

(79) VP
    /  \
   /    \\
AdvP  V'
   |    |
men33 phjit13 nan11
often blame others
19.3.2.4. **Serial verb constructions**

For the purpose of simplification, everything considered in 3.2 and 3.3 is about the modification of a single headed V. Other possible complex constructions were left out temporarily. We now expand the range of data considering some other verb constructions such as the serial verb construction and ‘V + pai₅⁵/taŋ₅⁵/ma₅⁶’.

19.3.2.4.1. **Classification of serial-verb constructions**

Serial-verb constructions (commonly abbreviated as SVCs) are found throughout Kam-Tai languages and beyond. SVCs are defined as constructions in which a series of one or more verbs follow the subject NP, and in which the actions may be connected in a temporal or cause-effect sequence. A classification of the SVC’s is proposed here using the following categories of SVCs:

1) modifying
2) purposive
3) object-raising
4) coordinating

19.3.2.4.2. **Modifying serialization**

In modifying serialization, the first verb in the series acts somewhat adverbially, limiting or specifying the meaning of the later verb(s). See example (91):

(80) t₉¹¹ le¹¹ pai₅⁵ taŋ¹¹ hak₃¹

‘take books and go to school’ or

hold book go place tell/inform ‘go to school with books’

The two verbs are not equal. The meaning of the first verb is not so verb-like as the second one. It acts as a manner adverbial expressing the ‘way (he) goes to school.’ It tells the way one goes to school. If there is no help from intonation and emphasis, the translation ‘go to school with books’ is more precise. Consider another example in (81).

(81) (mau₃₃) to₃₂₃ a₅⁵ lau₃₂₃ nan₃₃ pau₃₁.

he sing song enter valley Part.

‘(He) entered the valley, singing.’

Here the two actions (singing, entering) happen simultaneously but the second verb meaning is what the emphasis is on. The first one describes how the entering happens, or in what way it goes on. They are not equal, either. One more instance is:

(82) soŋ₅³ pheu₄₅₃ sip₃₂₃ nan¹¹ ma₄₅₃ ‘greeting guest by firing firecracker’

fireoff cracker greet people new

So in the hierarchical organization, these two verbs are not equal: the first one is the modifier, the second one is the head V. See the diagram in (83):
19.3.2.4.3. Purposive serialization

In purposive serialization, the first verb describes the action, while the second or latter verb specifies the purpose of the action denoted in the first verb as in (84).

(84) pai55 so31 au55 au31 ‘go to the barn to get rice’
    go    barn    take    rice

In this expression, the goal or purpose of going to the barn is to get the rice. The two verbs are not equal. The action of the first verb is the focus while the action of the second one is complementing or explaining. Examples are provided in (85):

(85) (a) tcum55 sin11 tçæ123 le11 ‘accumulate money for book buying’
    accumulate money    buy    book
(b) tat55 tçæ55 tuñ55 au31 ‘split firewood for cooking’
    cut    firewood    cook    dinner
(c) tap323 mau11 to323 ja53 ‘carry manure for fertilizing paddy’
    carry    manure    apply    paddy

The first verb is the head. The second one identifies the purpose/goal/motivation of the action in the head V. The subject of the two IPs must be the same. The internal organization is shown in (86):

(86) VP
    |
    V’
    |
    IP
    |
    V’
    |
    NP
    PRO I
    V
    NP
    PRO I
    VP

pai55 so31 au55 au31 ‘go to the barn to get rice’
    go    barn    take    rice

tat55 tçæ55 tuñ55 au31 ‘splitting firewood for cooking’

19.3.2.4.4. Object-raising serialization

In object-raising serialization, the object of the first verb serves as the subject of the following
second verb. Examples are offered in (87):

(87) hem₃¹ noŋ₃¹ ma₃⁵ jan₁¹ ‘call younger sibling to come back’
    call sibling come home
    pau⁵³ jau¹¹ sui⁵³ tan⁵⁵ ‘tell me to sit on the bench’
    tell me sit bench

The first NP carries two functions: as the object of the first verb and the subject of the second verb. It is suggested that maybe there is another NP that is the duplication of the first noun but is omitted morphologically. Counter-evidence comes from the fact that retrieving the suggested omitted NP is very unnatural:

(88) *hem₃¹ noŋ₃¹ noŋ₃¹ ma₃⁵ jan₁¹ ‘call sibling and sibling comes back home’
    call sibling sibling come home
    *pau⁵ jau¹¹ jau¹¹ sui⁵³ tan⁵⁵ ‘(Someone) told me and I sat on the bench.’
    tell me me sit bench

The only way to make the above phrases in (88) grammatical is with two reduplicated NPs or by adding some adverbs, but the meaning will change somewhat:

(89) hem₃¹ noŋ₃¹ noŋ₃¹ cu²³ ma₃⁵ jan₁¹
    call sibling sibling then come home
    ‘call sibling, then sibling will come home’
    pau⁵³ jau¹¹ jau¹¹ ha³³ sui⁵³ tan⁵⁵
    tell me me only/after sit bench
    ‘(Someone) told me, so I sat on the bench.’

The tense is changed and they can be considered as two complete sentences rather than constituents of one VP. So the idea of the omitted NP is not well supported and will not be preceded further. As a result, the hierarchy becomes hard to describe. The two actions are closely related in the sequence. They can be considered as origin/cause with result, and the interval between them is temporally very short. So they occur roughly contemporaneous. The problem is that two different AGENTs conduct them. If they are treated as two equal sub-VPs that form another VP, there is an obvious contradiction between the second member of the sub-VP and the subject of the VP:

(90) NP  VP
    VP1  VP2
    N’  V’ NP  V’ NP
    mau³³ pau³³ jau¹¹ sui³³ tan³³
    he tell me sit bench
In order to overcome this dilemma, a new analysis is suggested in (91).

(91)  

\[
\begin{array}{c}
\text{NP} \\
\text{VP} \\
\text{V'} \\
\text{V} \\
\text{NP}
\end{array}
\quad
\begin{array}{c}
\text{PRO} \\
\text{V} \\
\text{NP}
\end{array}
\]

 mau³³ pau⁵³ jau¹¹ sui⁵³ tan⁵³ mau³³  
 he tell me sit bench wait he  

'(He told me) to sit on the bench and wait for him/waiting for him by sitting on the bench'.

(92) (mau³³ pau⁵³ jau¹¹) sui⁵³ tan⁵³ cu¹²³ mau³³  
 he tell me sit bench wait he  

Some advantages of this extended IP are: the different AGENTs of different verbs are distinguished; the levels of the two IPs are slightly different; if there are any more serial verbs in the IP2, there is enough space left for them. For example, the IP2 can be extended as another modifying serialization (92).

19.3.2.4.5. *Coordinated serialization*

In coordinating serialization, several verbs are located at an equal grammatical level even though the actions may be in different steps/stages of a sequence or a process order. Usually adverbs or conjunctions are required to qualify the grammatical construction. Consider the examples in (93):
Since the multi-coordinated serial verbs are of equal status, they will be treated simply as at the same level in the phrasal hierarchy.

19.3.3. **Word order and variations**

Word order typology has played a major role in the development of language typology. By the term ‘word order’, we are actually not concerned so much with the order of words as with the order of constituents. That way we can avoid the possible distraction coming from the fact that the word boundary in Kam is not clear-cut at all and hard to define.

Word order study of a language is a synchronic snapshot of how all the linguistic constituents are organized in certain linear orders. In functional-typological approach, the focus is how different grammatical functions are realized through linguistic methods and how different linguistic constituents are organized in language behavior. The three major parameters that have been used in recent typological literature (Comrie 1983) are:

a) The relative position between the major clausal constituents *Subject*, *Object*, and *Verb*;

b) Constituents’ order in noun phrase (NP);

c) The order of head noun (N) and relative clause (Rel).

Word order also changes diachronically due to linguistic and social factors. As a language without literate history, it is very difficult to figure out what happened in Kam in the past. Fortunately, we have been witnessing some obvious changes in word order parameters in this language. In the following subsection, we will look at the three Kam major parameters in word order first, then the new variant candidates, and discuss further what may have triggered the changes; what may happen in the foreseeable future.

19.3.3.1. **The three Kam major parameters in word order**

1) Relative position between subject, object, and verb

Theoretically speaking, there are six possible combinations concerned with the order of the subject, object, and verb of a sentence: SVO, SOV, VOS, VSO, OSV, OVS (where S refers to *subject*, V to *verb* and O to *object*). According to preliminary statistical data, 44% of the languages in the world are SOV, 35% are SVO, 19% are VSO, and 2% are VOS. OSV and OVS are rare (Ohio State University 1991).

Kam is a *SVO* language with the subject preceding the verb and the object follows it. Examples:

\[(94)\ ləm^{11} \ sap^{31} \ təm^{55} \ pai^{55} \ lə^{11} \ \text{‘The wind blew the bamboo hat away.’} \]
wind
gobamboohatgo

\[(95)\ \text{mau}^{33} \ ljə^{35} \ tə^{233} \ a^{55} \ \text{‘He likes singing.’} \]
He
glikesing
song
The SVO order is consistent through almost all the types of sentence except in topicality in which the object is raised to the very beginning of a sentence. Examples:

(96) \text{le}^{11} \ 	ext{jau}^{11} \ 	ext{to}^{323} \ \text{wan}^{35} \ 	ext{la}^{11}. \ ‘\text{As for the textbook, I have finished reading that.’}

\begin{tabular}{ll}
book & I read \\
\end{tabular}

\text{finish Perf.}

(97) \text{tu}^{11} \ 	ext{na}^{11} \ 	ext{soŋ}^{35} \ 	ext{nnm}^{31} \ 	ext{mi}^{31}? \ ‘\text{Have you watered the ox?’}

\begin{tabular}{llll}
ox & you & release water & \text{Neg.} \\
\end{tabular}

= \text{na}^{11} \ 	ext{soŋ}^{35} \ 	ext{nnm}^{31} \ 	ext{tu}^{11} \ 	ext{mi}^{31}?

\begin{tabular}{llll}
you & release water & ox & \text{Neg.} \\
\end{tabular}

This kind of grammatical variation in word order is not considered here as it bears different grammatical meanings and fulfills special functions, compared with the common SVO. They may also be a product of language contact with Chinese initially, but they are very stable and used by all speakers.

2) Constituents within phrase: head-first or head-last?

An interesting fact about word order typology is that within phrasal categories languages tend to place the head of the phrase either consistently before its modifiers and complements or after its modifiers and complements. The head of a phrase is the central, obligatory member of the phrase, while the modifiers serve to modify the meaning of the head, or complements, which are other constituents occurring with the head. Obviously, Kam is a head-first language.

Examples:

(98) VP: V(head) + Object

\begin{enumerate}
\item \text{lam}^{55} \text{(hunt)} \text{ sau}^{35}(\text{smell}) \ ‘(hunting dog) to track the smell’
\item \text{pon}^{11} \text{(remove)} \text{ jan}^{11}(\text{house}) \ ‘relocate, move’
\end{enumerate}

(99) PP: P(head) + NP

\begin{enumerate}
\item \text{u}^{55}(\text{on, above}) \text{ coŋ}^{11}(\text{table}) \ ‘on the table’
\item \text{ta}^{33}(\text{from}) \text{ nuk}^{453} \text{ (outside) ma}^{35}(\text{come}) \ ‘comes from the outside’
\end{enumerate}

(100) NP: NP(head) + relative clause

\begin{enumerate}
\item \text{pon}^{33} \text{ le}^{11} \text{ jau}^{11} \text{ nin}^{11} \text{ pe}^{55} \text{ tcai}^{323} \text{ tca}^{323} \text{ ljeu}^{31} \text{ CLF book I year last buy that lost ‘The book that I bought last year is lost.’}
\item \text{mau}^{33} \text{ lau}^{123} \text{ jan}^{11} \text{ li}^{23} \text{ to}^{55} \text{ tciŋ}^{55} \text{ tca}^{323} \text{ pu}^{31}. \text{ He enter house have gate that Part. ‘He went into the house with gate.’}
\end{enumerate}

(101) NP: N(head) + possessive NP

\begin{enumerate}
\item \text{li}^{31}(\text{word}) \text{ mau}^{33}(\text{he, him}) \ ‘his words’
\item \text{sin}^{11}(\text{money}) \text{ taŋ}^{11} \text{ hak}^{31}(\text{school}) \ ‘school’s money’
\end{enumerate}

(102) NP: N(head) + AP

\begin{enumerate}
\item \text{ma}^{55} (\text{dish}) \text{ ljan}^{33}(\text{hot, spicy}) \ ‘spicy dishes’
\item \text{nin}^{11}(\text{person, people}) \text{ lai}^{55} (\text{good}) \ ‘nice person’
\end{enumerate}
3) The order of head noun (N) and relative clause (Rel)

Again the head (N) precedes the relative clause (Rel). See some samples here:

(103) teak\textsuperscript{31} nin\textsuperscript{11} m\textsuperscript{55} nun\textsuperscript{55} ma\textsuperscript{35} te\textsuperscript{323} jin\textsuperscript{11} te\textsuperscript{323} man\textsuperscript{55} nai\textsuperscript{33} ju\textsuperscript{33} ma\textsuperscript{35} la\textsuperscript{11}

<table>
<thead>
<tr>
<th>Cls</th>
<th>person</th>
<th>yesterday</th>
<th>come</th>
<th>buy</th>
<th>ox</th>
<th>that</th>
<th>today</th>
<th>again</th>
<th>come</th>
<th>Perf.</th>
</tr>
</thead>
<tbody>
<tr>
<td>'The person that came to buy the ox yesterday comes back (to buy) today.'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(104) jau\textsuperscript{1} jiu\textsuperscript{53} p\textsuperscript{35} n\textsuperscript{33} le\textsuperscript{11} e\textsuperscript{35} ai\textsuperscript{323} jiu\textsuperscript{53} pai\textsuperscript{55} te\textsuperscript{323}.

<table>
<thead>
<tr>
<th>I want</th>
<th>Cls</th>
<th>book</th>
<th>they</th>
<th>abandon</th>
<th>away</th>
<th>Perf.</th>
<th>that</th>
</tr>
</thead>
<tbody>
<tr>
<td>'I want to have the book which they abandoned.'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

In summary, Kam is an SVO language where head precedes modifiers and complements within all major phrasal categories, and relative clauses.

19.3.3.2. Word order variations

By the term ‘word order variations’, we mean any constituent order at either phrasal, relative clausal, or clausal that is different from the description in part I. To exclude cases such as topic sentences, interrogative sentences, which bears extra grammatical functions, we define word order variation as situations in which the relative order of constituents varies from the above 3 parameters, yet has the same grammatical or semantic features as before.

There is no variation in basic SVO order so far, for the object raising cases are treated as a grammatical function of focusing or topicalization. Candidates are found mostly in phrasal categories and relative clause with the relative position between the head and the modifiers/complements, and between the head noun and the relative clause.

1) N(head) and possessive NP vs. possessive NP and N(head)

In the northern dialect, the modifier NP can be placed either before or after the head N. Examples:

(105) mau\textsuperscript{33} ko\textsuperscript{33} pai\textsuperscript{35} kui\textsuperscript{35} jan\textsuperscript{212} ja\textsuperscript{31}

<table>
<thead>
<tr>
<th>he/his</th>
<th>olderbrother</th>
<th>go</th>
<th>Guiyan</th>
<th>Perf.</th>
</tr>
</thead>
<tbody>
<tr>
<td>'His older brother went to Guiyang.'</td>
<td>(Long and Zheng 1998: 201)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(106) te\textsuperscript{212} le\textsuperscript{212} ljeu\textsuperscript{31} la\textsuperscript{212}.

<table>
<thead>
<tr>
<th>I/mybook</th>
<th>lose</th>
<th>Perf.</th>
</tr>
</thead>
<tbody>
<tr>
<td>'My book is lost.'</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

It is understandable that variation emerges in North dialect first, considering that the Chinese came from the north part and immigrated into Kam community after the T\textsuperscript{\textregistered}ang Dynasty, more than one thousand years ago. And in ancient Chinese, the possessive NP preceded the head noun, even though there was no DE between them at that time. For example, ‘wo\textsuperscript{3} mu\textsuperscript{3}’, means ‘my mother’. For educational and economic reason, more and more Kam people started to interact with Chinese and learn the Chinese language. And the usually rigid word order cracked a bit in this specific phrasal structure.

The Southern dialect area was harder to reach for outsiders in the past due to geographical conditions. Yet the population explosion and technological advancement in the past century led more Chinese people to spread and enter this far south area. And we witness the same phenomenon taking place as in Northern dialect. At least possessive NP other than pronouns can be placed before the modified head N, with the help of DE. Examples:
(107) a₁₁ nɔi³¹ ti⁵⁵ uk²²³ ‘mother’s clothes’
    mother   DE clothes

(108) e³⁵ ti⁵⁵ tɔɔ̃⁵⁵ ‘their firewood’
    they/their DE firewood

But different from the Northern dialect, the pronoun modifiers cannot be put before the head N which is a person. Examples:

(109) *tau⁵⁵ ti⁵⁵ nɔi³¹ ‘my mother’ vs. nɔi³¹ tau⁵⁵

(110) *khe³⁵ ti⁵⁵ nɔŋ⁴¹ ‘his/her younger siblings’ vs. nɔŋ⁴¹ khe³⁵

Interestingly enough, in modern Chinese, the DE is still optional when the head N is a person. Examples:

(111) wo³ ma¹-ma = wo³ DE ma¹-ma ‘my mother’

(112) *wo³ shu¹ but = wo³ DE shu¹ ‘my book’

It can then be inferred that the relative order between different types of NP modifiers and their head N differs in some way. The degree of rigidity in pronoun NP is higher than other NPs.

This may come from the fact that the DE type with pronoun has a strong meaning of possessing. Someone possesses something. So it makes sense that a²² (suffix) nefs³¹ (mother) ti⁵⁵ (possessive marker) uk²²³ (clothes) is acceptable in Southern Kam dialect, for the person can really possesses the referential entity of head N. On the contrary, when the head noun is also a person, it is hard to argue that the modifier pronoun can possess the one of the head noun. So ‘ɛau⁵⁵ ti⁵³ nɔi³¹’ is ungrammatical, and one has to use the form ‘nɔi³¹ ɛau⁵⁵’. Notice that in Southern dialect, the pronoun that modifies another pronoun must be a plural one. Examples:

(113) sa³¹(grandmother) tɔu⁵⁵ (we/our/us) ‘our grandmother’
    *sa³¹ jau¹¹ ‘my grandmother’
    tɔu¹¹(mother’syoungerbrother) e³⁵ ‘their uncle’
    *tɔu¹¹ mu¹¹(s/he) ‘his/her uncle’
    nɔŋ³¹(youngersibling) ɛau³³(you, pl) ‘your younger brothers and sisters’
    *nɔŋ³¹(youngersibling) nɔa¹¹(you, sg) ‘your younger brothers and sisters’

In its complicated addressing system, the cultural value makes it impossible to claim that one person is really only another one’s uncle, for the reality is that he must be the uncle of many other people. A mother, in most cases, is mother of more than one child. Even parents with only one child are still referred as ‘bux daol’ or ‘neix daol’ in speech. So it makes perfect sense that the singular pronoun is excluded from being used as modifier of a head pronoun. That accords to the cultural environment in which the clan and family value is the core of the social system. Nothing is really single-personal owned or privileged in personal relationship. The cultural value behind the language keeps this specific type of modifiers from moving flexibly from its traditional position after the modified pronoun.
19.3.4. Passive structures

In passive structures, the grammatical subject is typically the recipient or ‘goal’ of the action denoted by the verb. See an instance in (114).

(114) tu₁¹ lak³¹ un³²³  ça³²³ tau³³ nai³¹ e³⁵ pjit³²³.
   CLF kid  DI  by  mother  they  scold
   ‘That little kid was scolded by his mother.’

In analytical languages, the passive voice cannot be expressed by the morpheme variations as European languages do. Instead, preposition and object-raising are applied to realize the grammatical purpose. ‘THEME tau³²³ AGENT V (par³⁵/taf³⁵/ma³⁵)’ and ‘AGENT tau³³ THEME V (par³³/taf³⁵/ma³⁵)’ constructions are the most common passive constructions in Kam, corresponding to the BEI construction and BA construction in Chinese. The constructions in these two languages are very similar even though their functions are very different. For convenience, the Chinese BEI construction and BA construction are used to label the two similar Kam passive structures and will be shown one by one. See Audrey Li (1990) for details.

19.3.4.1. BEI construction

In BEI passive construction, the recipient is followed by the AGENT, linking through the tau³³, and then the head verb. In this construction, the action conducted by the AGENT affects the recipient (or the THEME). For example:

(115) je³⁵ tau³³ sui¹¹ it³¹ ‘The frog was bitten by the snake.’
   frog  by  snake  bite
   THEME  BEI  AGENT  ACTION

The tau³³ was originally a verb and can still be a common verb, which means ‘to touch’ or ‘to look like’, or ‘to suffer’. But the verb sense has been bleached out and is very weak here. It is hard to connect its verbal meanings to its functions in the passive structure. Instead, it may be considered having been grammaticalized to a preposition. The active counterpart of the above passive construction would be:

(116) sui¹¹ it³¹ je³⁵ ‘The snake bites the frog’
   snake  bite  frog
   AGENT  ACTION  THEME

It describes the quality of the action but doesn’t emphasize which is the AGENT and/or which is the THEME. In order to highlight the AGENT, the object is actually raised to the beginning of the construction and the preposition tau³³ is added to serve the pragmatic purpose. Now the PP headed by the tau³³ functions somewhat as a modifier. The head V hit³¹ is actually not the same as it is in the active construction, even though the phonological form remains. The hierarchy analysis of this construction is drawn as follows:
A variation of this BEI construction is to add a directional verb, such as pai55 'go (away)', ma35 'come (toward)', and taʃ55 'come (toward)' right after the head V, and also a tense particle, usually at the end of the sentence. See examples in (118):

(118) (a) mau33 τu33 e35 æ323 ju53 pai55 la11 ‘He was fired by them.’
   he by they abandon go Perf.
(b) mau33 τu33 jau11 kai11 τu55 la11 ‘He was pulled here by me.’
   he by me pull come Perf.

Here the sense of the directional verb pai55 and taʃ55 are not so strong as head Vs. They do help point the direction of the actions in some way, but it is still the head V that projects to the VP, and this construction is not an example of the SVC construction. Sentences with or without the directional verbs are different in meaning, at least in some way. When there is no DV after the verb and the final-particle, then the construction just states or describes a fact, a past action, who did what. But when DIs with end-particle are added, an extended continuous sequence is portrayed. Compare these two sentences in (119):

(119) (a) uk323 τu33 mau33 ten323 pau31.
   clothes by he wear Part.
   ‘The clothes were worn by him.’

(b) uk323 τu33 mau33 ten323 pai55 pau31.
   clothes by he wear go Part.
   ‘The clothes were donned (worn and taken) away by him.’

Sentence (119a) only states the fact that ‘he wears the clothes’, while sentence (119b) brings some extra aspects such that ‘it results that the clothes have now been taken away with him and unavailable any more’. In the hierarchy diagram, the added elements can be placed outside the central V’ but still within the VP. See (120).
The Chinese BA construction has been called the disposal construction (Wang 1957; Chao 1968: 705), the ergative construction (Frei 1956), the executive construction (Hashimoto 1971), the accusative construction (Teng 1977), and simply the BA construction (Wang 1957) since then. It refers to sentences like (121):

(121) wo ba shu mai le.
    I BA book sell ASP.
    ‘I sold that book.’

In Kam BA construction, the AGENT is followed by the recipient with a preceding tũ and then the verb. A complement, or a minimum of the particle la, has to be added. It expresses how the AGENT handles/ treats the recipient. In Chinese many have suggested that the BA construction is allowed only if the DO complement is disposable. It is a construction that heightens transitivity (the opposite of passive). See examples in (122):

(122) (a) mau³³ tai¹¹ uk³²³ ten³³ pai⁵⁵ la¹¹.
    he BA clothes come throw go Part.
    ‘He threw the clothes away.’

(b) mau³³ tai¹¹ cõn¹¹ ten³³ ten³¹ pai⁵⁵ la¹¹.
    he BA table come clear go/away Part.
    ‘He cleared the table away.’

It seems there are three verbs in each example. In fact, the tai before the head V is optional, but the adjunct pai after the head V is obligatory here. If pai and the end-particle are absent, then the tense changes immediately; tai is optional.

(123) (a) mau³³ tai¹¹ uk³²³ ten³³ peŋ³³
    he BA clothes come throw
    ‘He is throwing/throws the clothes.’
A treatment of this BA construction is suggested hereby:

(124)

\[
\begin{array}{c}
\text{he} \quad \text{BA} \quad \text{clothes} \quad \text{come} \quad \text{throw} \quad \text{go} \quad \text{Part.}
\end{array}
\]

Note that word order here is fixed. Thus one cannot say *mau^{33} tai^{11} uk^{23} tan^{55} pej^{53} pai^{55} la^{11}.

To extract the rule, we suggest an X-bar analysis for this special structure as follows:

(125)

Audrey Li (1990: 181-197) has a detailed discussion of Chinese BA construction. She claims that: firstly, the BA is not an inserted Case assigner; secondly, a ba NP is a PP, not an NP; thirdly, ba here does not assign an argument theta-role to its object; fourthly, the object of ba receives a theta-role from the verb or compositionally from the verb and its object; and so on. She draws the same diagram for the Chinese BA construction as we do in 124. See Audrey Li (1990: 192). The difference here is that in Kam a complement is required for the PP. So Li’s analysis of Chinese can be adopted for Kam after some adjustment is made.

In this section, we have reviewed the types of Kam verbs, and then shifted the focus to some special structures such as SVC, BEI construction, and BA construction. X-bar schemes for the Kam VPs have been provided. The results show that the suggested X-bar framework is helpful in clarifying the relations among the different phrase elements.
19.4. DISCOURSE PATTERNS AS REVEALED IN NARRATIVE

Discourse is one of the lesser-studied areas of the Kam language. Except for some Sanjiang folk stories by Shi Lin and Shi Feng (Xing 1988), even raw discourse data in the public domain are difficult to find, let alone any systematic analysis of discourse phenomena. Yet, recently some Kam narrative data and analysis have become available in the form of Tongyin Yang’s dissertation on narrative discourse (Yang 2004). In this work note is taken of some reoccurring discourse patterns that have been observed, drawing mainly on Yang’s latest discussion of Kam story-telling. We will specifically examine: a) the structural characteristics of Kam narrative discourse; b) sentence-final particles in discourse; and c) narrative as a channel of communication. A brief introduction to Kam storytelling event is provided to initiate the study.

19.4.1. Story-telling activity in Kam communities

Oral narration has been the main channel for transmitting Kam folklore across generations, since the communities lacked a writing system until the middle of the twentieth century. As one of the several genres of folk narrative, storytelling not only records and conveys the history of the people, but it also provides an important social occasion in the daily life of the community. It has a function that is both edifying and entertaining.

Storytelling is an indoor event for the evening hours, which may take place in a private home or in a public meeting place. The cast of performers includes narrators and decoys, a special group of adults whose main role is to acknowledge, react to, and comment on the developments in the ongoing story. There is also, of course, the audience, the gathered villagers, though in a sense, they are not there merely as passive listener-participants, as will become clear in the ensuing discussion. There are some additional rigid requirements placed upon a person who is to be the storyteller: the narrator must be male; in his fifties; he must have children, is ideally a grandfather; and is well respected in the community. There is no written rule but turn-taking in storytelling is occasioned either when the previous narrator signals an end to the just completed story and asks the next narrator to take a turn, or, sometimes, when the audience reminds the successor to step in and begin the next segment.

Data selected for the presentation here consists of two stories narrated by two storytellers from Xiyang of Yutou Township, Tongdao County, Hunan Province, on the same evening in December 2001: Three Friends (TF) by Jinlu Yang and Repairing the Sky (SR) by Zaiwei Yang. These two stories were recorded at Jinlu Yang’s home. They are transcribed in Kam orthography rather than IPA for simplifying data presentation. The two stories can be viewed and searched at //ling.uta.edu/~jerry/index.html/3-friends.pdf/ and //ling.uta.edu/~jerry/index.html/ky-repair.pdf/.

19.4.2. The structural characteristics of Kam narrative discourse

19.4.2.1. Labov’s narrative framework

Labov and Waletzky (1967) proposed a six-part model for naturally occurring narratives, and finalized and Labov formalized this treatment in his well-known study of Black English vernacular, Chapter 9 of his Language in the Inner City (1972).

The six components of his structure of narrative are: abstract, orientation, complication, evaluation, resolution, and coda. Some scholars labeled this personal experience narrative type PEN (personal experience narrative). Labov and Waletzky’s hypothesis is that fundamental narrative structures are found in oral versions of personal experience. By exploring and revealing the true nature of ordinary narratives of ordinary speakers, they wished to identify and describe formal linguistic properties of narrative in regard to their functions, i.e., recapitulating of PEN. His definition of narrative is ‘one method of recapitulating past experience by matching a verbal sequence of clauses to the sequence of
events which (it is inferred) actually occurred’ (Labov 1972: 359-360). He also specifies that ‘a minimal narrative [is] a sequence of two clauses which are temporally ordered … a minimal narrative is defined as one containing a single temporal juncture’ (Labov 1972: 361).

The current discussion of Kam narrative discourse can be related to Labov’s well-defined model because, on the one hand, fundamental structures of narratives are supposed to be universal, and, on the other hand, it will be of interest to determine how different cultural environments and social functions of storytelling narrative among the Kam affect the structure itself.

Here is a more detailed definition of each of the six parts with brief examples as appropriate.

— **Abstract**: One or two clauses that the narrator uses to outline or advertise the whole story at the start of a narrative. For example, at the very beginning in Labov’s 11th narrative, the subject responds to the question ‘Were you ever in a situation where you thought you were in serious danger of being killed?’ by saying ‘I talked a man out of – Old Doc Simon I talked him out of pulling the trigger.’

— **Orientation**: Clauses or even paragraphs that introduce the participants and circumstances, especially of those of place and time, of the narrative, and are equivalent to what was called *setting* in the narratological chapters (Toolan 2001: 151). Some features of clauses in this section are that there occur a great many past progressive clauses in English as noticed by Labov: ‘We was doing this 50-yard dash;’ and clauses identifying persons, time, and place may not appear at the beginning of the narrative but must be placed at strategic points later on in narrative.

— **Complication**: Narrative clauses that recount a sequence of events leading up to their climax or peak, the point of maximum suspense. By referring to what happens in the story world and what happens in the narrating world, they create a tension that keeps the audience glued to their seats if not on their feet at all time.

— **Evaluation**: Clauses that occur right before the resolution that states or underscores the unusual or extraordinary characteristics of the events, why the audience should keep listening and allow the narrator to keep talking. They could be free clauses that comment on the on-goings of the story, the characters; clauses embedded in the narrative through scanning details of characters; ‘correlatives’ that decode what happens simultaneously; and explicatives that are appended to narrative clauses.

— **Resolution**: are clauses that release the tension and reveal what happened in the end.

— **Coda**: Signals the end of the narrative. These are also labeled closure in some literature (Abbott 2002: 188). This could be explicit declaring that the narrative proper is over. Some commonly used ways to do this include ‘That is it’, ‘This is the end of my story’, and ‘OK. That is it, you know.’ Often some codas have the property of bridging the gap between the moment of time at the end of the narrative proper and the present, that is, to bring the audience back to this world.

Kam narratives are of the same nature as Labov’s in the sense that they also recapitulate what happened in the past, real or legendary. The difference is that in the Kam culture the narrators are ‘invited’ or customarily ‘selected’ to tell a folktale story that has been narrated many times before in a natural cultural setting, rather than ‘interviewed’ with the point of recapitulating only one’s own personal experience, as in the case of Labov’s stories. The intended audience is made up of fellow villagers, not ‘strangers’, though some guests may also be present on some occasions. Its main function is social, internal rather than talking to individual(s) and satisfying outside academic request. It is noteworthy that in order to ‘obtain data on the most systematic form of language (the vernacular)…(and) how people speak when they are not being observed’ (Labov 1972: xvii), Labov and his team developed contact with different preadolescent groups and conducted peer observation. It will be of interest to see how the two functions of narrative, i.e., *recapitulating* of PEN and *evaluating* – the point or worth of the narrative, as far as the speaker and the community jointly agree – are realized in Kam as
opposed to Harlem African-American culture, two totally distinct communities in terms of both geography and time. How they share structural properties of narrative and how they differ in building their own structure will be the point of following discussion for a better and deeper understanding of Kam narrative. All these and other possible factors will be examined in further detail when a difference is observed and explanation is needed.

To begin the analysis, a brief anatomy of the two recorded narratives based on Labov’s model is produced, followed by analysis of each of the six parts in Kam:

**TABLE 19.4.2.1-1: THE SIX-PART ANATOMY OF THE KAM NARRATIVES**

<table>
<thead>
<tr>
<th>Part</th>
<th>SR</th>
<th>TF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abstract</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Orientation</td>
<td>#1-4</td>
<td>#1-14</td>
</tr>
<tr>
<td>Complication</td>
<td>#5-460</td>
<td>#39-363</td>
</tr>
<tr>
<td>Evaluation</td>
<td>#5-460</td>
<td>#39-363</td>
</tr>
<tr>
<td>Resolution</td>
<td>#461-466</td>
<td>#364-366</td>
</tr>
<tr>
<td>Coda</td>
<td>#467</td>
<td>#367-368</td>
</tr>
</tbody>
</table>

19.4.2.1.1. *Abstract*

There is an immediate difference between the Kam narratives and Labov’s components; the Kam stories are missing the first or abstract part. In both stories, no such component occurs at the beginning to summarize what is coming next. The reason arises from the nature of storytelling; the abstract must not be a mandatory element. Its absence, in fact, will actually increase the level of curiosity of the audience and draw the attention of all participants. On the contrary, the abstract in PEN is the response conditioned by the interviewer’s question. As the setting shifts, the very reason for an abstract becomes superfluous. Instead of an Abstract, the orientation will initiate the narrative as a result.

The situation here does not exclude the possibility of an abstract in other Kam narratives. Depending on the occasions, the use of abstracts may become an appeal. For instance, in Xing #3.3, 3.4, 3.10, and 3.12, a brief summary of what is coming is indeed presented in some cases. Though information of the physical settings within which the stories are narrated is missing, it is fairly safe to assume that one or more of the following situations may be true: a) the narrator has been asked by other participants to tell a story and any story will be welcomed. Under that circumstance, the narrator would search his mind and tell the audience the one that he has chosen. This is similar to Labov’s PENs and is a reflective result of being asked. b) The narrator is taking a turn from a predecessor in a multi-narrator occasion. To separate his story from the others, a quick summary of the point of the story would be more than sufficient to serve the need.

19.4.2.1.2. *Orientation*

Just as in narratives of many other languages, the orientation part in Kam is rather brief, consisting of only a few clauses, i.e., 4 in SR and 14 in TF.

There are three characters in TF, the three ‘brothers’. The information about their respective parents is so plain and simple that only SR16, 18, and 70 mention them. The same applies to the *lagx nons* ‘the (school) children’ (in TF173, 174, 186, 186, 198, 210), along with sketchy references to their families. This does not mean that one can conveniently ignore these supporting players. On the contrary, they may figure significantly in developing events such as the *lagx nons* in TF, who, in fact, do when they push the box down into the river to trigger the peak event in that story.

There is a familiar pattern to introduce the time, location, and characters in the two stories. The aperture (*dangl xul xic jav* ‘long, long ago’ is the very first phrase to separate what will follow, the story, from the present world. The verb is the expected *meec* ‘to have’, the equivalent to the English ‘there were’ under this circumstance, followed by characters. The
location part will appear right after the time indicator if needed, as TF is the case. The order of time-(location)-characters is as expected. Here in these two stories and 23 out of 33 stories in Xing’s collection (1988), the narration begins with the time indicator (*dangl xul*) *xic jav* ‘long, long ago’. The optional *dangl xul* 当初 is an old Chinese loan word that brings a sense of formality and authority to the narrative. This may well be a subtle symbol of power exercised by the narrator, since in the past a headmen and former official village head might well have used such expressions. This preliminary observation will be revisited later when the background of narrators becomes an issue. Also, a *four-syllable elaborate expression* echoes the trademark of Kam singing and poetic tradition since four-syllables, along with five and seven-syllable lines, are the most commonly used foot structures in Kam songs, proverbs, and other rhyme-oriented types of literature.

Once the time is fixed and the participants are introduced into the narrative world, the main characters are quickly identified to complete the introduction. If one remembers the ‘Once upon a time…’ in English or *congqian you yige* 从前有一个…in Chinese, then this reoccurring pattern of narrative aperture deserves to be considered as a candidate for a universal narrative initiation. The location of place is not mandatory, unlike time and characters, because it does not add that much to developing the story, especially when the story’s historical nature is in doubt. The audience may care less where the event took place unless the place bears significance in the narrative world. By examining the available discourse data both from Yang (2004) and Xing (1988), it is obvious that among the significant qualities is firstly the proximity of the setting of the story, so the audience knows the location. In other words, they would be able to connect to that place through personal experience. See Xing #3.1, 3.10, 3.12, and 3.16. Such a connection would stimulate a sense of involvement among the participants to become involved in the narrative and raise their level of enthusiasm, an element of significance to draw the audience’s attention and keep them in their seats. Secondly, the place itself is significant, as it is either known from the history of the Kam or of China or is found in Kam religious beliefs. In Xing #3.6, the *Xiangc Anl* 长安 was the fabled capital of the Tang Dynasty (618-907AD), and in TF1, the *Wangv Yeml* ‘the nether world’ is a significant concept in Kam native religion; c) historic significance of the figure(s) in the narrative. See Xing #3.1, 3.12, and 3.16. Location is covert in SR because it is a folkloric tale based on story of the great flood (deluge) that engulfed the whole world, a motif that is found widely among cultures. Where exactly the boy was from is without significance in the development of the plot.

19.4.2.1.3. *Complication and evaluation*

These two parts are the combined trunk of the narrative. While *complication* occupies the majority of the clause structures, and unfolds the plot in narrated order, it is the *evaluation* that glues them together. In the relatively short PENs, these two parts tend to be easy to identify and separate. As shown in the Table 19.4.2.1-1, this is not the case in the two Kam narratives. The *evaluation* part is so delicately infused into the *complication* throughout the course in both cases that the two become inseparable.

Taking the shorter TF as an example for discussion, evaluations can be found throughout the combined TF39-363 trunk, reaffirming Toolan’s (2001: 151) observation that evaluation ‘may take many forms and appear at almost any point in the telling’, cf. TF9, 10, 14, 62, 154, and 186-188.

This feature of evaluation being infused over the complication has a lot to do with the genre of Kam narrative, setting the scene, and functions in society in general. As will be detailed in 4.3, it is apparent that as a form of interactive entertainment, Kam narrative in discussion requires the narrator to monitor the audience’s comprehension closely and ensure that they comprehend the narrated events. In Labov’s PENs, the interviewers ask or ‘beg’ the narrator to perform. So attention from the audience there is presupposed. No extra effort is needed to lure the listener(s). Unlike in PENs, a new narrator faces here the task to sustain his point and heighten the audience’s interest throughout an otherwise lengthy and, perhaps, familiar narrative. Without exception these narratives last for 20 minutes, averaging 400
Avoiding boredom and embarrassing silence in public are two peerless features of a good Kam narrative. To achieve that goal, it becomes necessary to invite the audience into the narrative. The narrator must constantly highlight and evaluate significant developments in this dynamic interactive process. He must also respond to their comments and answer their questions about the events as they unfold if he is to be regarded as a truly skilled storyteller. The audience will not feel marginalized or abandoned but will want to help in some way. Moreover, audience participation will also aid the narrator to focus on his agenda and make adjustments as needed. This is why evaluation can appear anywhere and everywhere (Labov 1972).

Evaluation itself is ‘a temporary suspension of the action, a brief ‘time out’ from the telling of the story proper’ (Toolan 2001: 153). It signals why the narrator is telling the story. In other words, it reveals why the events of the narrative are reportable or worthy of narrating. Two types of evaluations are distinguished: internal and external evaluations.

External evaluations are those appearing outside of the fixed-position clauses of narrative and may serve various roles at points. A fair classification of different subtypes of external evaluation is proposed here:

a. Summarizing the previous happening and being a starting point for the next event. See instances in TF9, 10, 11, 14, 36, and 50.

b. Responding to audience’s questions and/or comments. A reliable marker of this subtype is the final particle heek, even though this may overlap with other subtypes in some cases. Also, the majority of these responses appear around the peak or climax of the events, indicating that the audience must be following and are getting more involved as the story reaches its resolution. See instances in TF10, 11, 170, 218, 222, 236, 240, 246, 256, 257, 256, 267, 364.

c. Self-questioning invites involvement of the audience. See instances in TF280, 218.

d. Commenting on details and developing of the events. See instances in TF29, 56, 63, 80, 94, 363.

e. Completely external evaluating, breaking the boundary between story and the world of the hearers to address the audience directly. See instances in TF62 and 149.

f. Explaining or analyzing the acts of characters in the story. See instances in 185-188, 204, 212-215, 235-240, and 268.

g. Supplementing information for listeners. See instances in 60, 84, 313-318.


The last type of external evaluation in TF is very important, since a Chinese couplet contest is invoked inside the narrative to decide who is to pay for a meal. In reality most or many of the participants do not know Chinese well if at all. To help them comprehend the developments in the story, it is vital to inform them what the Chinese couplet means. Usually the translation is condensed into a single or a few clauses to avoid interrupting the flowing of the narration.

Contrary to these subtypes, internal evaluations are those woven into the structure and composition of the core narrative clauses. They carry the central sequential spine of the narrative or along the storyline (Longacre 1996: 27) and fill the complicating mission and resolution sections in the model. Labov (1972: 370-375) identified four subgroups of internal evaluations and their counterparts are listed below:
a. **Intensifiers**, including expressive phonology, onomatopoeic, and intonational emphases. While *heek* is a reliable marker of external evaluations, *hix* and *ixhip* are good markers for internal evaluation. See a complete list at SR 67, 97, 102, 163, 178, 375, 409 for *hix* and 52, 60, 67, 87, 150, 177, 198, 283, 283, 302, 307, 328, 337, 342, 354, 375, 402, 408, 412, 419, and 442 for *ixhip*. Gestures/facial expressions also qualify as intensifiers.

b. **Comparators**: clauses mentioning what did not happen in the story.

c. **Correlatives**: operations that bring together events that have actually occurred so that they are conjoined in a single independent clause. This requires complex syntax usually and is a feature of articulate or mature narrators.

d. **Explicatives**: appended subordinate clauses which qualify, or give reasons for the main events narrated. Frequently they are introduced by *since*, *because*, *while*, *though*, and so on in English.

19.4.2.1.4. **Resolution**

The tension-releasing component is merely an instant in a sense, involving only three clauses in both stories. In SR 461-466 and TF354-456, the final resolution is that the poor brother pays nothing for his meal by standing his ground in a literacy contest in which he is expected to lose. This rather short resolution has something to do with folktale narration in Kam as a genre. First, besides being a way of transmitting traditional knowledge to younger generations, dramatized oral narrative is also entertainment for the community, a kind of artistic activity (Hymes 1972 and Wolfson 1982). To make a performance successful, performers will expend most of the time and space in complication and evaluation, delicately describing what happened, how it happened, and why. The point of resolution, the significance or the final result of the story is reached in a dramatic manner. These come rather rapidly and tersely. The brevity of the climax is set into sharp relief in comparison to the events that have led up to this ending and that adds surprise and profundity to the entire story. Extra commentary or explanation would only dilute or degrade the rhetorical skill narrator has just exhibited. Second, the fact that these two narratives were being recorded in a multiple-narrator setting may have also placed the storyteller under some pressure not to draw out the conclusion. A shortened resolution as an adjustment from the narrator is an acceptable sacrifice considering that shortening any other part, except the coda, would qualitatively damage the whole.

19.4.2.1.5. **Coda**

To seal off the telling of the specific story, the narrator clearly states that his story has now come to an end. In TF367-368, it is *xus, bens laih jagx. Wenp waeix lac, lux*. ‘Well, this is all (that I would like to narrate this time), and I have finished this one already. Right.’ The coda in SR is almost identical with a similar expression *huenp laeuc luh, bens hange laeuc luh*. ‘I have finished and this is all (what I would narrate).’ There are near-identical closures of narratives in many languages, even in the closings of radio and television news bulletins.

As usual, there are multiple narrators present in Kam storytelling settings. The next narrator will now step up to take his turn as the previous one finishes. To signal a clear break in proceedings and enforce the taking of a turn, a coda is required.

19.4.3. **Sentence-final particles (SFP) in narrative discourse**

19.4.3.1. **Introduction**

In his extensive description of the Lahu language, Matisoff (1973) dedicates over two hundred pages to the verb phrase, of which about eighty pages are devoted to *verb particles*, *universal unrestricted particles*, and *final unrestricted particles* (Person 2000: 64); these are to be the subject of the present section. They are all considered part as of the verb phrase in Lahu:
A verb-particle (Pv) is a word which cannot constitute an utterance by itself and which occurs always and only after members of the class of verbs (or after other verb-particles). Semantically, they serve to elucidate the meaning of the verb in a variety of ways, conveying notions of aspects, directionality, subjective attitudes towards the verbal event, etc. Conspicuously absent are any Pv’s referring to tense. Tense concepts are foreign to the Lahu verbs, as they are for the Sino-Tibetan languages in general. (Matisoff 1973: 315)

Ever since the 1970’s, scholars have contributed significant efforts to the study of these types of particles in Asian languages. It is surprising that such a commonly used part of speech existing in so many languages has been ignored for so long, even in MSC, one of the world’s largest languages with a written tradition of more than two thousand years. On the one hand, it has something to do with the fact that the exact meaning of an SFP tends to be elusive and hard to specify outside of context; furthermore, SFPs predominantly occur in oral, narrative speech or baihua 白话, a linguistic genre considered until the early twentieth century in China to be informal and unrefined in comparison to the written language or wenyan 文言. Through the years, there are various terms referring to these particles, including mood words 语气词 in Chinese, particles (Chao 1968: 795), utterance-final particles (Bourgerie 1987), auxiliary words (Dai 1996, Long and Zheng 1998), auxiliary mood words 语气助词 (Liang 1984: 378), sentence particles (Cooke 1989, Hanson 1996), but sentence-final particles (SFPs) has emerged as the most general, well-accepted term among scholars since Li and Thompson’s (1981) study.

SFPs are forms that are attached to the end of a sentence. Here the sentence is used in a loose sense, since in many instances the attached structure units may be clauses, an issue related the difficult question of how to determine sentence boundaries in MSC and other languages lacking TAM markers. Also zero anaphors in subject position are widespread in these languages, particularly in oral discourse, resulting in many VP or NP-like sentences. As well, the functions of these SFPs are mainly pragmatic, including expressions of request, question, assumption, endearment, and a simple statement with an undertone of relief.

However, more importantly, final particles convey speech act information, e.g., marking the attitude of the speaker toward what s/he is saying, marking an utterance as reported speech, or as a mild warning, etc. Generally speaking, the studies just cited investigate the specific speech act functions performed by individual particles, and the relationship between an utterance that ends with one of these particles and what has previously been said in a speech context (Law 1990: 1).

For all these reasons, SFPs have often been studied from the point of view of pragmatics or discourse, a tradition that the current research hopes to continue.

In this section, sentence-final particles in Kam are itemized based on the collected narrative data and other published resources. Each particle’s main linguistic and pragmatic functions are illustrated briefly in subsection 19.4.3.2. Then in subsection 19.4.3.3, two very much less-explored areas in the study of SFPs, phonological and syntactic features of SFPs, become the focus. A special, super SFP liax 將 will attract extra attention, since it has an unconventional distribution and a powerful role to play in construing storytelling narrative discourse.

19.4.3.2. The inventory of Kam SFPs

Kam SFPs are particles that appear at the end of a sentence to convey attitudinal, textual, cognitive, interactional, and TAM information about the speech act. According to this relatively loose definition, particles reflecting simply different tenses and aspects are also included in the current discussion SFPs. The primary reason for this inclusion is that even though some of the TAMs are particles functioning within the phrasal level, namely VPs, often they can also occupy the sentence final position in their respective clauses or sentences. Graphic representation of this syntactic feature of SFPs will be displayed in the syntactic analysis of SFPs later. Below is one of the most frequently encountered
particle *lac* in TF13 as a demonstration example:

TF13

| Wordform: | meec  il  lagx dil  xus laos  hangc hangc hangc |
| WfGloss: | have  one  child  pause  then  enter  kind;  kind;  kind; |
| WfPOS: | v  num  com  part  adv  v  CLS  CLS  CLS |

nyads  jas  bail  lac
poor  that  go  PERF
adj int  mkr  v  asp

**FT:** (the other) one then entered a poor family.

In TF13 the *lac* here is a pure aspect indicator, qualifying the action of *laos* ‘to enter, to be born into (a family)’ by expressing that it is completed as scheduled or intended. Variants of *lac* include *laoc*, *laeuc*, *lax*, a group of SFPs that express similar TAMs but possess different attitudinal, cognitive, or interactional information of the speech act. In context, this sentence may also function as a sequential marker. Nevertheless, they manifest not only their semantic and syntactic functions, but also have pragmatic or discourse roles. So even if a particle occurs within the VP, it will still be included in the SFPs list as long as it could appear at the very end of a clause or sentence.

The various investigators have made slightly different arguments in many previous studies on SFPs such as Li and Thompson, Law, and Person’s, but the result is the same. The current simple criteria of SFPs aid in the categorizing work of SFPs, and include their characteristic feature of operating at different levels from phrase to sentence to paragraph to discourse at the same time. By covering particles of TAMs such as *lac*, the scope of research on SFPs in the current study is broadened from the bottom to the top, so the intended goal of capturing the discourse function of sentence-final particles could be examined on a broader basis.

Here is a list of all the SFPs that appear in the two collected narratives in alphabetical order. SFPs from other sources such as Xing’s, Long’s, and the authors’ other fieldwork notes, are incorporated and marked with an asterisk. They are included in the list below since the have been reported but the discussion of them will be limited in a sense, for many of these data are given in sources without context. It is evident that, as illustrated in the table below, some of the members have variants in context to express delicate and subtle attitudinal, textual, cognitive, or interactional differences. This long table spans a few pages.

**TABLE 19.4.3.2-1: INDEXING OF THE KAM SFPs**

<table>
<thead>
<tr>
<th>No.</th>
<th>SFPs</th>
<th>Information conveyed</th>
<th>Instances</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ac</td>
<td>Questioning, usually used as greeting; Permitting, admitting pausing</td>
<td>SR392, TF59; SR24, TF108 TF7, 59</td>
</tr>
<tr>
<td>2</td>
<td>as</td>
<td>Pleasantly informing of others</td>
<td>SR203</td>
</tr>
<tr>
<td>3</td>
<td>ax</td>
<td>Strong questioning, seeking more information</td>
<td>SR83, TF115</td>
</tr>
<tr>
<td>No.</td>
<td>Code</td>
<td>Description</td>
<td>Examples</td>
</tr>
<tr>
<td>-----</td>
<td>------</td>
<td>-----------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>4</td>
<td>bac*</td>
<td>Expressing uncertainty in negation</td>
<td>Recommending or suggesting such as in nyac bail bac ‘You’d better go.’ Mild questioning, sometimes equals to greeting such as in ac naeix bac? On phone conversation ‘Is this mom?/ how are you, mom?’ Agreement soliciting</td>
</tr>
<tr>
<td>5</td>
<td>daeux</td>
<td>Shortened form of ‘daengl (DV) lac (PERF)’, an aspect marker, also indicating new, unexpected information</td>
<td>SR65, TF48</td>
</tr>
<tr>
<td>6</td>
<td>dax</td>
<td>Shortened form of daeux</td>
<td>SR81, TF28</td>
</tr>
<tr>
<td>7</td>
<td>dil</td>
<td>Unfinishing, pausing</td>
<td>SR69, TF22</td>
</tr>
<tr>
<td>8</td>
<td>eec</td>
<td>Closely questioning, interrogating</td>
<td>SR226, TF49</td>
</tr>
<tr>
<td>9</td>
<td>eel</td>
<td>Extended syllable of a previous weex, questioning</td>
<td>SR94, TF132</td>
</tr>
<tr>
<td>10</td>
<td>haeip</td>
<td>Shortened form of haeix il, yes or no question.</td>
<td>SR149, 176</td>
</tr>
<tr>
<td>11</td>
<td>has</td>
<td>Polite suggesting, ‘would you…’</td>
<td>SR204, F182</td>
</tr>
<tr>
<td>12</td>
<td>heec</td>
<td>Tag question</td>
<td>TF195</td>
</tr>
<tr>
<td>13</td>
<td>heep</td>
<td>Variation of haeip, yes or no questioning</td>
<td>SR32</td>
</tr>
<tr>
<td>14</td>
<td>heip</td>
<td>Strong appealing, Great surprise with emotional overtones</td>
<td>SR128, 376</td>
</tr>
<tr>
<td>15</td>
<td>hic*</td>
<td>Mild reconfirmation seeking such as in laih jagx hic? ‘Is this it?/Is this all? /OK’</td>
<td>SR147, 228</td>
</tr>
<tr>
<td>16</td>
<td>hix</td>
<td>Informing in a surprise, unexpected tone</td>
<td>SR55</td>
</tr>
<tr>
<td>17</td>
<td>hoc</td>
<td>Mildly surprised</td>
<td>TF289, 291</td>
</tr>
<tr>
<td>18</td>
<td>hox</td>
<td>Suddenly see the light; instant realization of a truth. I got it! self-independent clause such as in Hox! ‘I see!’</td>
<td>SR115, 150</td>
</tr>
<tr>
<td>19</td>
<td>huc</td>
<td>Variation of wuc, for drawing attention suggesting</td>
<td>SR191, TF222</td>
</tr>
<tr>
<td>20</td>
<td>ic</td>
<td>Pausing</td>
<td>TF162, 170, 215</td>
</tr>
<tr>
<td>21</td>
<td>il</td>
<td>Strong questioning, doubting</td>
<td>SR115, 150</td>
</tr>
<tr>
<td>22</td>
<td>is</td>
<td>Appealing, begging</td>
<td>SR278, 293</td>
</tr>
<tr>
<td>23</td>
<td>jeec*</td>
<td>Tag question, more sure or confident of</td>
<td>SR388</td>
</tr>
<tr>
<td>24</td>
<td>jeep*</td>
<td>Variation of jeec, less sure or confident of</td>
<td>SR147, 228</td>
</tr>
<tr>
<td>25</td>
<td>lac</td>
<td>Perfective. Indicating the completing of an act, especially in structures indicating sequence of actions</td>
<td>TF12, 13, 15 SR147, 228</td>
</tr>
<tr>
<td>26</td>
<td>laeuc</td>
<td>Perfective. Variation of lac. Emphasizing the completion and implying expectation such as ‘so what?’</td>
<td>TF31, 77 SR312, 431</td>
</tr>
<tr>
<td>27</td>
<td>lah*</td>
<td>Perfective. Variation of lac. Emphasizing the completion in a happy tone and implies ‘how about it?’</td>
<td>SR388</td>
</tr>
<tr>
<td>28</td>
<td>laoc*</td>
<td>Perfective. Variation of lac.</td>
<td>SR100, TF37</td>
</tr>
<tr>
<td>29</td>
<td>las</td>
<td>Perfective. Variation of lac. Polite information seeking, in some cases a childish expression</td>
<td>SR102, TF33</td>
</tr>
</tbody>
</table>
When liax is in bold, that is to draw attention to a special form of this SFP with unique status in discourse, when it is functioning as an SFP and a discourse marker simultaneously in many instances.

There are some SFPs clusters in which two SFPs appear at the end of a sentence to express multiple discourse meanings. The majority are made up of the perfective aspect marker lac, or its variants laoc, laeuc, lah, and lax, followed by another SFP. Theoretically the perfective aspect marker can combine with any other SFP, with the marker closer to the V, to form a cluster. A list of five clusters other than combinations with the perfective aspect marker(s) found in data is provided in the following table. Keep in mind that these several clusters can again combine with the perfective aspect marker to form a three-member cluster.

**TABLE 19.3.2-2: SFP CLUSTERS WITHOUT THE PERF MARKER**

<table>
<thead>
<tr>
<th>No.</th>
<th>SFP clusters</th>
<th>Information conveyed</th>
<th>Instances</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>ac as</td>
<td>Variation of ac has, polite and mild form</td>
<td>SR203</td>
</tr>
<tr>
<td>41</td>
<td>ac has</td>
<td>Pausing for suggestions, recommendations, encouragement</td>
<td>SR130, TF217, 382</td>
</tr>
<tr>
<td>42</td>
<td>heip ic</td>
<td>Compassionately and seriously appealing</td>
<td>SR357</td>
</tr>
<tr>
<td>43</td>
<td>ic is</td>
<td>Pausing and questioning, doubting</td>
<td>SR177, 252</td>
</tr>
<tr>
<td>44</td>
<td>lic is</td>
<td>Curiously questioning, a response to surprise at what has happened</td>
<td>SR278</td>
</tr>
</tbody>
</table>

The phonological status of these SFP clusters is debatable. In other words, it is not conclusive, at this time, whether these SFP clusters are indeed two syllables as proposed here or actually just one extraordinarily lengthened syllable, though they make the impression of being two identifiable syllables. A cluster analysis is assumed here as a working hypothesis that will still require additional argumentation and discussion. The category of SFP clusters in Table 19.3.2-2 offers strong evidence that the first syllable of the pair is decisive, hence suggesting that they may well be considered a variant of the individual SFP they follow. If there is any member that could possibly be considered to consist of two individual SFPs, that would be heip ic. The idea of treating heip ic as two obligatory members of one syllable pair rather than as one single syllable SFP is to avoid the potential burden of creating new tones. So unless there is another method to place the clearly lengthened linguistic components, for
example intonation, the suggested SFP clusters seems the best analysis. In real narrative utterances, the length and tonal contour of a long syllable would have been different from any single syllable tone (note that Kam uses consonants at the end of a syllable as a marker of tone).

19.4.3.3. Phonological and syntactic features of SFPs

Phonological and syntactic aspects of SFPs have long been ignored despite the fact that there are many studies of SFPs in many languages of the region. While it is true that the major function of SFPs lies at the pragmatic and discourse level, and thus analyses in those two areas are well justified, it is also undeniable that better understanding of the phonological and syntactic features of SFPs will enhance the comprehension of SFPs. This is the very reason why Law (1990) concentrated all his efforts in his dissertation on the study of the syntax and phonology of Cantonese SFPs. His inspiring work shows the obvious and close relationship between particle systems and intonations. He examined whether individual particles have specific syntactic functions, what functions they perform, and what syntactic slots they occupy. The goal here is not to present an exhaustive study of the syntax and phonology of SFPs but to lay the ground in this subsection for further study.

19.4.3.3.1. Tonal and other syllabic structural characteristics of SFPs

It was noticed in the early transcriptional stages of the narrative texts in the present project that identifying the tones of some SFPs was difficult. On the one hand, intonation and tone interact in such a collaborative way. Subtle difference of tone can carry delicate distinctions of meaning. On the other hand, since the length and intensity of tone on an SFP can vary greatly according to the contextual environment, that could result in different syllabic parings. That is, is there only one tone-bearing-unit (TBU) within a single lengthened syllable or are there two? In many cases, the TBUs of the two clustered SFPs are identical except in the case of *heip ic*, a piece of evidence for the one TBU treatment. Or are there two TBUs and is the SFP the part occupied by the two separate syllables? The relative intensity can increase or decrease depending on the situational demand in communication. The adopted treatment here leads directly to the emergence of particle clusters in section 19.4.3.2, a practice favored, because it avoids introducing new tone categories into discussion.

As was mentioned previously in 19.2.3, there are nine distinct tones in unchecked syllables in Kam: high-level (1-'55'), high-rising (1'-35'), low-level (2-'11'), mid-falling-rising (3-'323'), [low-rising (3'-13')], mid-falling (4-'31'), high-falling (5-'53,'), high-rising-falling (5'-453'), and mid-level (6-'33'). In checked syllables, there are six tones: high-level (7-'55'), high-rising (7'-35'), low-falling (8-'21'), mid-falling-rising (9-'323'), [low-rising (9'-13')], and mid-falling (10-'31'). The complexity of the Kam tonal system creates some unique difficulties for the expression of tone on SFPs and sentence intonation. First of all, variation of the sentence intonation is more constrained since the Kam tone space is already tightly packed by its nine contrasts in CV syllables. The possibilities for confusion looms large, since pragmatic sentence-level function and syllable-level tone contour may interfere. A resulting phenomenon is that length and intensity are applied more often to convey speech act information (even though intensity has not studied in current data transcription). Of the five SFP clusters, at least four could be combined and treated as a single particle if based on acoustic and phonetic evidence alone. The reason why a single SFP treatment is abandoned and the clustered SFP account has been adopted here is that that might lead to introduction new tones into the system, an issue that would be hard to justify. It will be simpler and more constrained to divide the lengthened SFP section into two separate particles. Fortunately, all the resulting individual SFPs except *as* have their counterpart in the list of single SFPs, further supporting the SFP cluster.
Secondly, checked syllables CV(V)C are not allowed to appear in SFPs. Of all the SFPs, none appears in the category with the three stop codas: /-p, -t, -k/. There are five checked Cantonese SFPs: *ak*³³, *kak*³³, *lak*³³, and *lok*³³, *t'ok*²⁵ (Law 1990: 206), but Law provides no discussion of their phonological and syntactic features. Even though no specific analysis is provided by Law, one can assume that these SFPs must be different from the ones in unchecked syllables in some way. This reminds one of the dilemma for the conception of SFPs in the above discussion. That is, even though they might be single particles phonetically, treating them as clusters will not only avoid introducing new tone categories, but also the result of relating two SFPs to an existing SFPs. This reveals an interesting characteristic or quality of SFPs: the phonological structure allows it to be lengthened or extended, since the situation may require extra attitudinal, textual, cognitive, or interactional information to be coded through extension of a one-syllable SFP into a bi-syllabic cluster. An important phonological feature of Kam-Tai voiceless stop codas is that they are glottalized and unreleased (Liang 1984: 324), a well-known distinctive acoustic trait also found generally in SE Asian languages, many kinds of Chinese, and English. As noted, SFPs must be syllables without codas. An unreleased coda would make the extension or lengthening impossible. In the extreme, even nasal codas are disqualified in Kam. That leaves open syllables as the only valid rhyme candidates in SFPs.

The opposite observation has been made in earlier English. Brinton (1996) points out that ‘shortness’ is one of the properties of discourse markers: ‘While the monosyllabic forms *hwet* and *anon* and the aphetic form *gan* (<*on*/-*aginnan*) clearly meet the definition of phonetic shortness, as does *Pa*, which exists alongside the longer nonpragmatic form *Panne/Ponne*, phrase such as *I gesse* and constructions such as *Pa gelamp Pt* and *then it bifel that would not appear.*’ (Brinton 1996: 266).

Law notices that many Cantonese particles have the identical segmental shape and differ only in tone. ‘When their meanings are taken into consideration, it becomes apparent that particles that are phonetically similar very often share a core meaning’ (Law 1990: 82). His proposal is that these particles are underlyingly related. Regrouping, Kam SFPs partially confirms his account, as shown in the Figure 19.4.3.3.1-1, where tone –c (11) is the one that appears most frequently. And within a related group or set along the horizontal line, the one with this low-level tone (–c) tends to express a mild, polite type of speech act information such as making assumptions, guesses, suggestions, recommendations, and lukewarm confirmation. The mid-level tone (–h) conveys information in a relaxing, not-so-serious, neutral way. On the contrary, SFPs with falling tones – (–x) (31) tend to encode strong speech act information such as appealing, begging, criticizing, condemnations, and marking something as unusual. Also SFPs with high-rising (–p) (35) carry strong feelings such as great disappointment (e.g. *leep*) and a demand for a response (e.g. *heep*). To categorize the pragmatic difference among SFPs, a three-group classification is suggested: low-level tones are labelled as *weakeners*; mid-level ones *neutralizers*; and the ones with rising or falling tones *strengtheners*. These groupings will be considered in 4.3. This is a manifestation of how pitch and intensity, along with length of the syllable, can be applied in expressing discourse functions, an issue closely related to intonation. Remember that the sentence-final position is also a very important subpart of the entire sentence intonation contour. So in a sense, the study of intonation and the study of SFPs overlap often and complement one another. To draw a better picture of Kam intonation requires much a greater amount and more varieties of linguistic data including causal conversation and formal public speech, along with a proven model. Unfortunately neither prerequisite is currently available.

There is also evidence that not all the tones of SFPs are inherent. Out of context, many SFPs have no specific semantic meaning. Only in context would their meanings emerge and become comprehensible. In most cases, it is impossible to ask a subject what an SFP means as a headword in a glossary. And, another observation is that even in context, the meaning might still be unclear or vague to most native speakers. The transcription of narrative discourse data in Xing’s is quite accurate and reliable. The only missing part is the semantic meaning of
SFPs from time to time, such as /\u1f11/ and /\u1f11/ (1988: 52), /\u1f11/ and /\u1f11/ (1988: 126), and /\u1f11/ and /\u1f31/ (1988: 97). As Li and Thompson summarize the situation in Chinese SFPs: ‘(The SFPs) semantic and pragmatic functions are elusive, and linguists have had considerable difficulty in arriving at a general characterization of each of them’ (1981: 238).

<table>
<thead>
<tr>
<th>Weakener</th>
<th>Neutralizer</th>
<th>Strengthener</th>
</tr>
</thead>
<tbody>
<tr>
<td>ac</td>
<td>ax</td>
<td>as</td>
</tr>
<tr>
<td>eaex</td>
<td>ex</td>
<td>as</td>
</tr>
<tr>
<td>eec</td>
<td>eel</td>
<td>haeip</td>
</tr>
<tr>
<td>heip, heip ic</td>
<td>has</td>
<td></td>
</tr>
<tr>
<td>heec</td>
<td>heep</td>
<td>heip</td>
</tr>
<tr>
<td>hic</td>
<td>hix</td>
<td></td>
</tr>
<tr>
<td>hoc</td>
<td>ic</td>
<td>ic his, ic is</td>
</tr>
<tr>
<td>lac</td>
<td>las</td>
<td></td>
</tr>
<tr>
<td>laeuc</td>
<td>leep</td>
<td></td>
</tr>
<tr>
<td>leec</td>
<td>liax</td>
<td></td>
</tr>
<tr>
<td>lic</td>
<td>lih</td>
<td>lis, lic is</td>
</tr>
<tr>
<td>luc</td>
<td>luh</td>
<td>lux lus</td>
</tr>
<tr>
<td>mac</td>
<td>wuc/huc</td>
<td></td>
</tr>
</tbody>
</table>

**FIGURE 19.4.3.3.1-1: GROUPING OF KAM SFPS**

This leads to the subject of tonal operational territory. Unlike any other part of speech, SFPs are highly dependent on context. In other words, they are very discourse sensitive. Another observed trait of SFPs is that even in context, the tone on a specific SFP is not as clear or as stable as on other words, either because the tone is lexically indeterminant, or because it varies according to the emergent speech act information of the context. As a result, some scholars in the past simply marked them as untoned, while others have ignored them (Xing 1988). Similarly, most of the frequently used Chinese SFPs are de-stressed and have the neutral tone (Li and Thompson 1981: 238).

Contrary to the typologically widespread generalization of rising intonation in questions, Kam uses another system. Falling and level intonation appear frequently in questions. See an example sentence in TF319:

**Wordform:** heek, maoh xus baov laeup hangc huc, liax,
**WfGloss:** exactly 3S then say how way question asking for response
**WfPOS:** part pro adv v pro n part part

**FT:** ‘Exactly’, he asked then: ‘What to do next?’ something like that.

Until very recently, rising intonation was considered non-native in Yutou Kam. This has much to do with the fact that the vast majority of Kam SFPs bear either level or falling tones.
To alter the intonational shape from level or falling to rising would have been to change the tone of the SFPs themselves. As mentioned before, any change in tone contour in syllables has the potential to interfere with others since there are so many syllable-level tones in Kam. The fact that tone and intonation are intertwined so closely makes them inseparable, cf, Ross et al. 1986. As a result, tone variants that produce tone sandhi are highly restricted. In an isolating language such as Kam, the tone is lexically encoded with meaning. As long as the majority of the SFPs bear level and falling tones, the intonation pattern in questions will remain level or falling as determined predominately by the lexical pitch shape of the components.

From the 1990s onward, younger Kam speakers began to imitate the rising intonational pattern of MSC, since intensive language contact has occurred more and more through formal school education, TV broadcasts, and workplace language phenomena. The use of rising tone to express interrogation was first observed in the 1980s in the nearby Biicbac village. It had spread there from Wucgal, a Han island surrounded by Kam speakers. A notable majority of the residents of Wucgal can speak Kam, even though they kept their native local Chinese, including rising intonation in questions. Nowadays, the older generation has become more tolerant of the new speech norms even though they themselves are still reluctant to adopt them in their own speech.

19.4.3.3.2. Syntactic characteristics of SFPs

These particles are all located in the final position of a sentence, but they actually play different syntactic functions, and occupy specific syntactic positions. For example, question particles such as bac, ar, eel, wuc occur in specifier position (SPEC) of CP; other particles occupy the complementizer (COMP), as will be discussed in the following paragraphs. So, not only do SFPs have critical semantic and pragmatic roles, but also they affect the syntactic structure of a sentence. To illustrate this syntactic feature, one example is offered in Figure 19.4.3.3.2-1:

```
saml naenl seic mans nyac jas dungl xogx laeuc bac?
three CLF cake yellow those Det. cook good SFP1 SFP2
‘I guess those three yellow cakes should have been cooked through (now)?’
```

**FIGURE 19.4.3.3.2-1: ILLUSTRATION OF SYNTACTIC POSITIONS OF SFPs**
19.4.3.3.2.1. Question particles in SPEC position

The sample sentence in Figure 19.4.3.3.2-1 shows that the SFP bac occupies the specifier position of the CP. Within the highlighted SFP cluster, laeuc is the perfective marker for the VP, while the bac is one of the several question particles. It should be noted that questions in Kam lack the subject-object inversion or wh movement in syntax. The most common way of forming a question is using SFPs such as No. 3, 8, and 23 in Table 19.4.3.2-1, along with shifted intonation. The lac is considered as part of the VP, a feature that is widespread in languages such as Chinese, Kachin and Then (Bo 1997) in the area. In fact, the SFPs in Kachin reflect person, number, direction, focus, change-of-status, and mood. The SFPs could be formed by affixing, initial shifting, and root replacing (Dai 2002).

While laeuc strongly correlates with the verb, the final bac does not. In other words, bac relate to all the components of the clause/sentence. Since there is a well-studied counterpart ba 吧 in Chinese, the current study will refer to the previous research and see what the bac in Kam is and what semantic and syntactic function they play. Their discourse functions will be examined in the following section.


As for its syntactic characteristics, there are few accessible reference works. Obviously bac’s role reaches beyond the VP. To place the SFPs satisfactorily in the syntactic structure, Law (1990: 11) proposes that Cantonese question particles such as ma^53, a^15, a^17, la^33 pɔwɔ^33, 1e^33, and ma^33 actually occur in specifier (SPEC) position of the CP, as wh elements in other languages, with respect to FOCUS. One would then expect that a question particle could not contain a question element or FOCUS having wide scope, because the SPEC position cannot be doubly filled. His reasoning bases on the co-occurrence restrictions exhibited between question particles and other elements that are assumed to occur in SPEC in Logical Form. This SPEC of CP is to the right of C’, contrary to the general assumption that SPEC is to the left of C’ in Chinese (Henry 1988, Zhou 1988). In this section, Law’s analysis of this position in Cantonese is adopted since the structure of questions and the list of SFPs in Kam closely parallel that in Cantonese. For example, ‘ma^33—mac, ‘le^33’₁₃—luc, ‘a^15’ / ‘a^17’—ac/ax, ‘la^33 pɔwɔ^33’—lac bac.

19.4.3.3.2.2. Other particles in COMP position

Chinese linguists have long disagreed about whether there are complementizers in MSC at all. Xu and Langendeon (1985) postulated that, since there are no lexical items that serve as sentence introducers, MSC sentences lack a COMP position entirely. The same can be said of Kam well even though serious discussion of the matter is lacking. Huang (1988) argues convincingly that prepositions such as 跟 gen (with), 对 dui (towards), and conjunctions such as 因为 yinwei (because), 如果 ruguo (if) can be treated as pre-sentential COMPs since they can either take a sentence as object or precede a clause.

Now after placing question particles into the SPEC position, the remained non-question particles take the stage. Taking the frequently used lic as an example:

**TF31**

Wordform: yuh wanh hange mienctangc yuh daengl laeuc lic, liax
WfGloss: also change type trick also come PERF Confirming asking for response
WfPOS: adv v CLS comm adv v part part Part

**FT:** They do new things in their life.
The lic here has the meaning of ‘it is the case that…’, ‘the situation is that…’, showing the speaker’s commitment to the truth of a claim or assertion. The SFP lic always ends a clause or a sentence. The liax after lic is a discourse marker, or a very special SFP at the most. So it is either a relative pronoun or a complementizer. Since there is no overt wh movement in Kam, the relative pronoun is ruled out immediately. It is more likely that the lic is a complementizer. In order to determine whether it occurs in the same SPEC position as bac or COMP at the end of the clause or sentence, a comparison between lic and the ‘that’ in ‘that’- relatives in English is conducted.

As the only particle used with all types of relative clauses, lic can also accompany a clause with or without a gap. These properties are very similar to the ‘that’ in ‘that’ – relatives in English. Radford (1988) argues convincingly that the relative particle that is a complementizer, and not a relative pronoun. Also a genitive form of the relative particle cannot be formed by inserting the genitive marker immediately after ‘lic’. This is illustrated by example English (126) and example Kam in (127).

(126) *The car that’s hood is damaged.
(127) *Yaoc jenl liangp wenh leec naih dil gaems lic

1S really like CLS book this SFP GEN cover

*I like this book’s cover very much.

Since lic cannot be a relative pronoun, and exhibits many of the characteristics of ‘that’, we propose that lic, like ‘that’, is a complementizer, appearing to the right of the IP.

19.4.4. Communicational aspects of narrating

Undoubtedly Labov’s work on narratives has been particularly influential in the English-speaking world. He is, however, by no means the only scholar interested in generalizing about the underlying formal and semantic structures of narratives and stories. For example, Schiffrin (1996) contributes her efforts to better understand how the structure of stories reflects the fact that stories perform social actions; Ochs et al (1989) and Norrick (1997) explore how the audience get involved into the developing of story; Goodwin (1982)
touches on the ‘instigating’ in the discourse of urban African-American girls and demonstrates how the larger social context affects the way the story is told and comprehended.

It is the intention of the current study to look at narration from some new perspectives beyond Labov’s to see how this will enrich and extend our understanding. The unique Kam narration-setting features as described in 4.1 point to an unexplored field in the discussion. Specifically, the interaction between the narrator and the audience will be covered in this section: How the narrating relationship is regulated; the functions of decoys, whose main role is to acknowledge, respond to, and comment on the narrator’s story; how the input from other participants affects or changes the point in case or the direction of narration; and how the operator liax negotiates and lubricates the communication between the narrator and the audience.

19.4.4.1. Narrating as communicational and social interaction

Discourse structure can be accounted for in terms of syntax, semantics, stylistics, rhetoric, and in the study of specific genres such as those of argumentation and storytelling. In this section, another fundamental dimension of narrative discourse, namely its communicational and social aspects (van Dijk 1997: 2), will be focused on to see how this significant phenomenon is ordered and organized.

A brief introduction to the setting and context of Kam narratives is offered in 4.1, including the physical and social prerequisites. The social and cultural criteria for qualifying as public narrators are also discussed. It is now time to examine, in the described context, how different participants play out their roles and realize the many functions of storytelling. The nature of participant involvement, floor control, and decoy roles will come under scrutiny first to reveal some features in the relationship between discourse and (male) power; then input from non-narrators will be focused on to see what the nature of this interaction in Kam narrative is, how the narrator and audience interact, and what effects those inputs have on the developing of the discourse, both linguistically and communicationally.

19.4.4.1.1. Monologue in which everyone can say something

The Kam storytelling narratives represent primarily a monologic performance, as is the case in many other cultures. The narrator dominates the floor. Even though there are many social and cultural constraints on what and how he could narrate, it is basically a one-man show once it starts, in the sense that he has his will in regard to what he can tell the audience and how. That said, it also needs to be pointed out that it became quite evident during the transcription and video recording stages, there is a lot more going on besides pure ‘monologic’ activities. Temporary abbreviations in parenthesis will be adopted for convenience below in discussing bi-direction exchange.

a. audience asking questions (AQ);
b. commenting on developments in story or simply acknowledging the presented information (CM);
c. greeting and informational exchange during the circulation of food and cigarette (GI);
d. non-linguistic instant responses and reactions to actions by exclaiming, laughing, and body language (NL);
e. reasoning or extensions along the lines presented by the narrator (RE);
f. brief conversation among audience members concerning actions, including the rest of the audience’s response to these (RR).
Narrative in Kam is not strictly a monologic act but a collective performance. It shares a lot of similarity with TV talk shows, in which the host performs while the audience is allowed to react. The difference is that both the physical setting and cultural setting equalize the status of narrator (host) and his audience to a far greater extent. The narrator sits among the audience and he himself will become an indistinguishable member of the audience once another narrator take over.

Originally, all of the above goings-on were not transcribed into the database linguistically even though they were recorded on tape. First their role as an integral part of the narrative was not realized; second, some of the reactions such as laughing and sighing are nonlinguistic. In order to identify them, and recover their functions in discourse, it is critical to check through and clarify their relation to the main action of the narrative. One clue is that most of these occurrences appear in the evaluation part. Here are some examples that occurred off the actions or storyline in the story in sequential order. Both linguistic and non-linguistic nature audience-reactions are noted here, no matter whether they were in or not in the in database and attached transcription:

In SR:

57-58 – NL
59 – NL
143 – GI
333 – CM

In TF:

1 – NL
6 – NL
10 – RE, CM
12 – CM
40 – CM
41 – CM
63 – RE
94 – CM

There are more instances of off storyline reaction from the audience in TF than in SR, an indicator that their participation in the narration was closer and more involved.

In a word, the narrator, the decoys, and the rest of participants can and do speak in one way or another, contributing to the formation and development of the narrative as a unit. In this sense Kam narrative is a monologue in which every participant can say something as long as they observe constraints within their own territories.

19.4.4.1.2. The floor control and social power realization

No designated order keeper is installed, but the host will exert his power to initiate such activity. He is the one that invites all participants and makes the activity possible. Once that is accomplished, it is up to the crowd to select one narrator at a time and formally start the storytelling.

Since the narrators belong to the elite group of people in the community, respect and admiration from the members will put the tacit order in place. With their position of age, life
experience, and contribution to family and community, the audience is inclined to show them deference and attention. Moreover, they are also talented in speaking. A good narrator usually is also one of the headmen in the Kam community. Administration, whether that is official or just customary, brings with it authority. So the internal control of the floor is pretty much preset before the narrating even starts. Narration is one of the public activities in which an elite group of people can exert their power in such a covert way.

Once the narrating starts, a subtle collaborative takes over. Parents will keep an eye on their own children to ensure they do not break rules or embarrass anyone. The decoys will certainly help also. This will be looked at in the next subsection.

19.4.4.2. Input from non-decoy audience

Input from the audience is a mixture of various kinds of action. Outside input first shows the degree of audience involvement and proper comprehension of the development of the story. In TF148, when the audience expresses interest in details of the unusual box, commenting on its unique features, it sends a clear and positive message to the narrator that their curiosity level is high and they are interested in learning more about that. The appreciative narrator then calls to mind the distant image of the crafted wooden boxes they personally manufactured in 1960-70’. The encouraged narrator is rejuvenated constantly by these kinds of positive feedbacks and this keeps the narrating going.

Folktale narrative involves recounting preexisting events. A story may have been told many times before. To the elders, few folktales are completely novel. So when a narrator stutters or stumbles along the way, decoys will step up and help him overcome the hurdle. See instances between TF164-165.

The narrating clauses and various inputs from audience interleave and overlap subtly throughout the course of the story, and draw attention to a mixed type of narrative. In Polanyi’s (1987: 109ff.) term, this is a ‘diffuse story’, ‘in which a chunk of story is followed by a chunk of multi-party conversation glossing, clarifying, and amplifying aspects of the story chunk just told. In such a format, story evaluation can become a collaborative exercise’ (Toolan 2001: 162-163). Apparently the degree of diffusion between narrating and audience input has not reached a level that one might need to treat the dispersed, inputs as the several sections of a single, over arching story. Nevertheless, these extremely introductory words and actions need to be included to see the rich, true picture of narrating in the Kam community. It offers clues to the covert fact that narrating is ultimately social interaction among all the participants, with narrating by the narrator(s) as the trunk or spine of the entity. Not only does the input aid or direct the narrating in some cases, but perhaps equally if not more importantly, it serves the purpose of reminiscence and social binding. In this regard, audience input is not necessarily limited to a supportive role any more. Rather it construes the picture of narrating activity in an organic way, perhaps more like collectively putting pieces of a jigsaw puzzle together.

19.4.4.3. Communication operator liax

In a narrative setting, the narrator leads in the information flow in a dominant way. Yet as observed in the previous discussion, this process is bi-directional, more so in Kam particularly. Not only does the narrator speak ‘scheduled’ vignettes, but also the audience responds spontaneously to what is unfolding through the course of the plot. To ensure that what he intends to convey reaches the audience and the outside input does not derail his progress, the speaker resorts to both linguistic and non-linguistic strategies. One of the most noticeable of the forms is the frequent usage of liax, an SFP and discourse marker with special status. The SFP liax can appear virtually at any position of the narrative:

a. At the end of an utterance, be that a clause or a sentence. This is the most common position for liax. Examples: TF1, TF268, SR34, SR60, etc.


Rarely does liax initiate an utterance, reflecting the fact that its main function is to emphasize or draw the attention of the audience to what the speaker himself has just said. Immediate reaction is normally needed right on the spot. Any gap between the narrator’s utterance of liax and late response from the audience would decrease the degree of attention and cohesion. A few exceptions are in TF325, 362, in which liax does, exceptionally, start a sentence. The unusual environment here is that the previous two sentences are couplets in Chinese produced by one of the contestants. It becomes then necessary to separate the character’s oral couplets from the narrator’s speech. Though liax is not completely inappropriate if placed at the end of the previous utterance, the pause between the couplets and liax is much shorter than the pause between the liax and the following components, thus supporting the parsing of liax as in a sentence initial rather than final position.

19.4.4.3.1. liax in sentence-final positions

The liax is used most frequently to elicit acknowledgement, affirmation, agreement, and consensus from the addressees. For example, in TF254:

```
TF254
Wordform: eex heip, baov laenl naih, liax, asking for response
WfGloss: sighing surprised say object this
WfPOS: part part v CLS dem
```

FT: Aha, saying: ‘(Look at) this!’ let me tell you.

Here the liax signals the narrator’s intention of emphasizing the details developing in the story, attracting the audience’s attention to the direct quotation of the characters, and asking for input from them. Practically that is exactly what happens. Following the utterance of this liax, the audience expresses their strong reaction to the unexpected resolution, as the other two friends in the story unintentionally ‘rescued’ their poor friend. The narrator then reacts to their expressions and comments straight away in the next sentence. The particle ngik in TF255 symbolizes the narrator’s intrusion into the story to convey his own regret, not just that of the two friends’ in the story, similar to what the audience has expressed about the events in the story. This occurrence of liax also indicates compromise on the narrator’s part to the audience’s comments.

The liax functions slightly differently in causal conversation, since the speaker communicates with his/her interlocutor directly. The narrative setting does not exist anymore. In face-to-face personal interaction, liax still conveys the speaker’s intention of seeking acknowledgement, affirmation, and consensus on the surface, but the underlying function is more of negotiating. Here the purpose of the utterance obviously differs from that in narrative. Instead of drawing the audience’s attention to events in the story and helping them to comprehend the developments, the purpose is to express the truism that in real life convincing the other and reaching deals are practical and worthy objectives. Anyway, when appearing in the clause or sentence final positions, the absolute majority of liax occurrences serve to motivate and stimulate communication between the participants and carry the narrative forward.

To summarize, liax fulfills some modality functions realized usually through auxiliary words in other languages and carries abundant attitudinal, cognitive, and interactional information.
19.4.4.3.2. liax in non-sentence-final positions

In other instances, though, the usage of liax does not necessarily express a demand for overt response. The solicited acknowledgement, affirmation, agreement, and consensus from the addressees are not as strong as the previous cases. To put it another way, they are very mild requests and do not expect immediate responses. Rather they become an unconscious request for input often times and serve other discourse functions such as giving the narrator himself more time to paraphrase and, thus, promoting the audience’s comprehension of the narrative and the communication between the narrator and audience. Apparently, occurrences of liax in non-final positions serve somewhat different purposes in discourse from the ones in sentence-final position. Let’s take SR361 as an instance for documentation:

SR361
Wordform: nuv yaoc weex leis taeuk dil yaoc weengc sic,
WfGloss: if 1S make, do able arrive, reach in case of, if 1S always be
WiPOS: conj pro v part v conj pro adv aux
liax,
asking for response weengc sic tongcyiv
part always be agree
adv aux v

FT: ‘If I can do (it), I will, I will certainly agree (to do it).’

This liax occurs between the repeated weengc sic ‘will always be’. While it intends to draw the audience’s attention to the developing events in TF254, its main function is to pause and give the narrator sufficient time to choose just the right words for the occasion. In this case, repetition is adopted as a secondary means after liax to buy some time and provide the narrator a chance to regroup/recover. In other similar instances such as TF53, 156, 185, 230, 283, SR163, 222, 277, 321, and 400, the pausing aspect for the narrator himself is greater than for asking concrete and obvious consensus from the audience when single or multiple words are repeated after the pause.

Another subgroup of liax occurrences is used to initiate direct quotes such as in SR52, 309, 320, 343, 373, 410, 422. After specifying who the speaker is, liax is inserted and a direct quote follows right away. The main intention is to draw the audience’s attention to the coming quotation. Just as viewpoint can shift from one pair of eyes to another through a narrative, so too can voice. Most frequently, this shift is accomplished by means of direct citation, indicated by the insertion of liax. In a language lacking of overt TAM representation, supplementary indicators such as liax certainly compensates to some degree. All these different uses of liax show that it serves multiple functions in discourse, as witnessed in its appearances at different sentential positions. It also reminds one that labeling all the occurrences of liax as particle ‘asking for response’ is an oversimplification. Its multi-faceted nature has not been detected or recorded until now.

19.4.4.4. Time realization, narrator privilege, and metrical expedient

Abbott concludes that ‘narrative is the principal way in which our species organizes its understanding of time’ (2002: 3). Interestingly, in Kam narrative itself, liax is used to realize the shift between the time of story and the time of narration. Whenever liax occurs, it not only strengthens the information communication between the narrator and the audience, but also acts as a time travel particle taking speaker and listeners back and forth between the two worlds. That is, it brings all the participants back to the present world. This shift usually is instantaneous, since the narrator can take the audience back to the story time right away. In an ideal narrative world, the audience would be fused completely into the story and lose their awareness of time, but in reality, realizing and acknowledging the time shift is essential to accomplish the narrative mission.
Another feature of *liax* that should not go unnoted is that it belongs to the narrator exclusively. Only the narrator has the privilege of using this operator. Never is there a case in which the audience uses *liax*, for that would have violated the rule of communication in narrative. The fact is that while other participants might have their fair share of the floor when invited, it is the individual narrator who ultimately manages the course and controls the narrative act as a whole. This brings back the issue of power and social control. The narrator’s dominant role as narrator along with his elite role in the community is signified to a certain extent by his license to use *liax*.

The *liax* /lja\(^31\)/ is also a metrical or rhythmic expedient. A low falling tone requires less energy and is a nice break for the narrator to slow down, pause, and have a deep breath before going back to the narration. In fact, the tone is neutralized to zero in some cases to simply serve the role of a pause. This decreases the insistent tone and eases the impression that the narrator is ‘forcing’ others to listen. To call it a discourse lubricant is an underestimate of its power in connecting/gluing the audience to the story and the narrator himself. Rather it is labeled a *communication operator* to reflect better its critical role in information exchange between the narrator and audience.

In summary, to a great extent the spontaneously communicative nature of Kam narrative is expressed overtly in this *liax*. Kam narrative is typically viewed as an event sequence, but this notion needs to be supplemented with the notion that a core property of it is also that the audience’s linguistic involvement is an integral part of the narrative itself. On the one hand, it avoids an absolute monologue from forming so all participants are motivated and can enjoy the experience; on the other hand, it allows the narrator to maintain full control over the plot. So linguistically *liax* is for representing various aspects of speech act other than the content of the story events narrated. Whenever it appears at the end of the sentence-final position, *liax* either seeks the audience’s acknowledgement, affirmation, agreement, and consensus on developing details in the story, or provides for self-pausing. Communicationally, it connects the audience with the narrator and realizes the time frame shift of traveling from the time in narrated events to the present narrating momentarily. Socially, it is an unconscious way of expressing power and authority of the speaker over the listeners. In a word, *liax* fulfills multiple purposes or functions at the same time more often than not.

19.4.5. Summary

In this section, the discussion of narrative structure comes first, based on Labov’s framework in PENs. Though the circumstances PEN and Kam narrative differ noticeably, the similarity or commonality between them is also apparent. The role of SFPs in discourse along with a complete list of Kam SFPs is added to the discussion. The study also examines the phonological and syntactic characteristics of the SFPs. After that, communicational aspects of the narrating are under scrutiny. Not only the relationship among different subgroups of participants is visited, but also how a very special group, the *yenc naemv guh* ‘the decoys’, functions in the narrative discourse was examined. Also different types of non-narrator input, of linguistic or non-linguistic nature, are sorted. Their effects on the developing of the story are viewed from a broader perspective. And finally, the communication operator *liax* occupied a subsection through which its multiple-roles of communicative nature were examined. Analyzing narrative in a sociolinguistic framework reveals the close relationships among the social settings, linguistic representations, and their respective functions as well.

19.5. SPEECH COMMUNITIES AND SOCIOLINGUISTIC ISSUES

Even though the Kam populace is spread across three provinces, Kam speech communities are, in fact, densely connected in terms of local topology and geography. Also Kam residents tend not to marry with other ethnic groups and also not within one’s own village. So the community boundary among different ethnic groups in the area is, in general, relatively clear cut. Another fact that is noteworthy is that the Kam language has been exposed to Chinese influence since 700AD, and, at the same time, the Kam people have occupied relatively rich
land in comparison to neighboring groups so as to develop economically and socially, which has led to a higher degree of self-esteem among the people. All these facts have collaborated longterm to promote the maintenance of Kam. As a result, Kam language has remained highly significant in people’s daily lives.

19.5.1. Dialects

There are two Kam subdivisions: Southern Kam with four vernaculars, and Northern Kam with three vernaculars. The main isoglosses lie along the longitude from Datong to Qimeng in Jinping, Guizhou, where Kam, Hmong, and Han Chinese live together. The following is the detailed taxonomy of Kam varieties and their lects:

Southern subdivision:

a. The first lectal area includes Rongjiang Zhanglu, Liping Hongzhou, Jinping Qimeng in Guizhou, Tongdao in Hunan, Longsheng and Sanjiang Dudong in Guangxi.

b. The second lectal area includes Liping Shuikou, Congjiang Guandong, Rongjiang Pingjiang in Guizhou, and Sanjiang Heli in Guangxi.

c. The third lectal area includes Zhenyuan Baojing in Guizhou.

d. The fourth lectal area is in Rongshui, Guangxi (Long and Zheng 1998: 181).

Northern subdivision:

a. The first lectal area includes Tianzhu Shidong, Sansui Kuanchang, and Jianhe Xiaoguang in Guizhou.

b. The second lectal area includes Tianzhu Zhuxi in Guizhou.

c. The third area includes Jinping Datong in Guizhou.

The difference between the two main subdivisions is significant in the sense that intelligibility between Northern and Southern speakers is very low. Mainly differences of phonology and lexicon as well as some differences of syntax prevent understanding of running conversation: Northern Kam does not have vowel length contrast and the velar coda k of the south has either been dropped, or changed to the alveolar t or to glottal stop ? Some syntactic rules also differ. For example, the modifier possessive pronoun precedes the head noun in the north and there are phonetic changes in classifiers, some numerals, nouns, and verbs in the north. Recent research has shown, however, that at least one Southern location possesses similar phonetic changes (Yang 1999).

People from different lects within a subdivision can comprehend each other well, since the internal difference in phonology, lexicon, and syntax are relatively minor.

19.5.2. Language use

Kam is still the native and everyday language for most people in the southern area and for many in the northern villages such as in Tianzhu, Jinping, Zhenyuan, Jianhe, etc. as well. At the same time, more and more Kam have learned a local form of Chinese and the standard Putonghua through school education and interaction with other peoples. Long and Zheng (1998) have classified language use among the Kam into the following three types:

a. Kam people who can only speak Kam and no any other language(s). ‘Most of these live in the southern dialect area or are old people, women, and children living in the mountain villages of the northern area far from Han Chinese centers. There are also some young men from these remote northern areas who have never attended schools, seldom leave their
homes, and rarely come in contact with the outside world.' While these descriptions are still fairly precise nowadays, the evaluated 50% of the population seems too high. Of the 2.5 million Kam, 30–40% may fall into this group. As the society opens more and more to the outside world, the percentage goes down steadily.

b. Kam people who cannot speak Kam but Chinese only. Most of them are in northern, such as Yuping, Sansui, Tianzhu, etc. Of the 2.5 million Kam, over 30% may fall into this group.

c. Kam people who can speak both Kam and Chinese or other languages such as Hmong and Mien. Of the 2.5 million Kam, 30% may fall into this group. As the public school education in Kam area improves slowly and the interaction among peoples intensifies, both the total number of people in this group and the percentage among the populace will only go up.

Obviously there is a kind of gradient diglossia among the two languages. Although the exact number of speakers of the above three Kam groups may be hard to define, their domains in use are clearer. Within the villages where the old people and children cannot speak Chinese, all members use native Kam in daily life. Even government documents are interpreted into Kam for monolingual speakers. Speaking Chinese might be either just for entertaining outsiders or used to demonstrate one’s knowledge of the ‘outside world’ and is regarded by the older generation as ‘showing off’. Of course, Han is the language of the school classroom and professional government offices. Other exceptional uses of Han include speaking to non-Kam persons. It is interesting to observe that since the Kam show tenacious language maintenance in preferring their native language, many Han Chinese have learned some Kam in order to work with local people. For example, since almost all the daily fresh food supply is provided by Kam women in Shuangjiang township, Tongdao County, Hunan Province, many Han Chinese learn some basic Kam to help the trade process and get better deals in the markets.

19.5.3. Literacy effort

Kam did not have its own orthography until 1958. Some Kam intellectuals used Chinese characters to record Kam, the so-called 汉字记侗音 ‘Recording Kam in Chinese characters or demotic Chinese for recording Kam.’ There are three ways of doing the recording (Long and Zheng 1998: 211):

a. Use Chinese characters with identical or similar pronunciations to Kam words. For example, 捡考 jiankao (literally ‘pick-test’) is used to record [t\u0101an 55 \u0131u 31] ‘to eat (rice).

b. Use Chinese characters with identical meanings to Kam words. A sign is usually added around the character to indicate that this is Kam with the same meaning as the Chinese character but with different pronunciation. For example, 深 shen (literally ‘deep’) is used to record [jim 55] ‘deep (water), hard to achieve’.

c. Use fanqie (反切), the Chinese tradition of combining the initial of the first character and the rhyme and tone of the second character to represent a word. For example, 尼亚 niyā to represent [na 55] ‘river’.

Most of the works are transcripts of Kam custom law, literature, or personal notices. Since there was no accepted standard among the users, ‘recording Kam in Chinese characters’ was never publicly promoted or recognized as a true Kam orthography.

From December 1956 to February 1957, the Chinese government conducted the first extensive field survey of Kam language and planning of a Kam orthography in 22 locations, covering 14 counties in Guizhou, Hunan, and Guangxi. In August 1958, the designed draft Kam Orthography was adopted officially. This is an orthography written entirely in Roman letters. The southern subdivision was taken as the standard for grammar, style, and discourse
and Rongjiang Zhanglu in Guizhou as the model for pronunciation. They are thirty-two initials, sixty-four rhymes, and nine tones.

The implementation of Kam orthography was very successful in Rongjiang, Liping, and other Kam areas under the guidance of the government until the Cultural Revolution broke out in 1966. Teachers were trained and assigned to different locations to teach others. Various reference books and reading materials were published during this period, including the Kam-Chinese Dictionary, Chinese-Kam dictionary, and Kam Language Textbook. In 1981, the implementation was resumed, as China opened to the outside world in a dramatic way and it spread to Hunan, and Guangxi Kam communities soon thereafter. Kam orthography played an important role in lowering illiteracy among Kam adults and was introduced into elementary schools in Guizhou as a help in learning Putonghua and Pinyin. More textbooks were published, and journals such as the Journal of Kam Orthography in Sanjiang, Guangxi were circulated. Not only did many illiterates learn to write in their own script after attending evening literacy classes for only 100 hours, but also the Kam language and orthography were studied in colleges such as the Central Institute of Nationalities in Beijing and the Guizhou Institute of Nationalities in Guiyang. By 1995, 857 classes of Kam orthography had been conducted in Qiandongnan Hmong and Kam Prefecture, Guizhou. The total enrollment reached 29,989. Of them 24,873 graduated and were considered officially literate. More than 140 college students majoring in Kam language, literature, and culture were graduated, including three graduate students (Chen 1995).

The momentum toward significant literacy among the Kam reversed in the middle of the 1990’s. On the one hand, the government’s financial support for the Kam orthography implementation decreased gradually. On the other hand, there developed a growing trend of marketing and loosened residence restriction in China that triggered a great new Völkerwanderung. People, especially those of the younger generations, considered Kam orthography impractical and less useful than Chinese for finding employment and for rising economically.

19.5.4. New trends in migration, media exposure and family orientation

Historically, the Kam people, like other peoples of China, have been officially rooted in their traditional homelands and have thus not had the freedom to move around. The sedentary lifestyle was implemented with strict governmental residence policies. This regulation is one of the main reasons why the Kam language and culture have been fairly well preserved in the closed areas where they have traditionally lived. But in the 90’s and perhaps a little earlier in some places, things began to change dramatically. People gained more freedom to choose a profession and a place of residence. More and more young Kam people ‘immigrated’ to towns in Han Chinese areas and cities along the east coast in Guangdong, Fujian, and Guangxi Provinces to seek their fortunes in the wider world of urban and suburban life. Young Kam of Guizhou Province have not yet been affected by this trend, but there is much impetus driving migration in many Kam communities of Hunan and Guangxi, so that today 70–80% of villagers in the age group 16–30 may be living away from their original homes. Left behind are old people and younger siblings, and also those without enough language or educational skills to allow them to make the occupational shift from agriculture to unskilled labor. Although these migration patterns are not yet permanent (usually they come back to visit their families during the Spring Festival for one to two weeks and then return to their work places again), the potential effects on the Kam language use among the younger generations and the cultural consequences are easy to discern. These ‘little sisters and little brothers’, as they are sometimes known, start to learn the language of the work place, especially Cantonese and Putonghua, and many Kam traditional cultural practices fall into disuse, i.e. they are not being transmitted or no longer being practiced by this more citified generation of new urban and semi-urban young, much to the concern and dismay of their parents and grandparents. Since most of them will return to their original Kam communities before they become 40, it will be interesting to see how the days they have spent in towns and cities will affect their language maintenance and language use in later life.
Another considerable input from outside comes from TV and advertising. Mass media and television are no longer taken to be exotic influences from the outside world but quite commonly observable even in remote villages. For example, in Yutou, a typical Kam village complex in Tongdao, Hunan with over 3000 people, around 500 households, there are more than 200 TV sets. These bring tremendous amounts of new exposure to Putonghua, even among the older generation, many of whom cannot speak or understand Chinese. All programs, of course, are in Chinese, and more and more of the traditional cultural gatherings are being replaced by communal watching of the ‘boob tube’.

As society opens further, so does the family, the Kam family has noticeably decreased in size in the past two decades as well. On the one hand, this decrease has affected cross generational interaction between grandparents and grandchildren, and has led to a breakdown in traditional culture, including linguistic shift. On the other hand, old people have suffered economic erosion as well, in the sense that their position of social authority as purveyors of traditional cultural values has been downsized in favor of more centralized electronic media. Another important force for change is in the different family values portrayed in broadcast news and dramas and in the interaction with outside world.

All these new trends in Kam society contribute to accelerating changes in language use, many of which do not portend well for the future of the Kam language. These problems, however, have been loosened from many sources and are not in any way unique to the Kam or to China. They are the very same issues confronting hundreds of millions of people worldwide. How does one balance tradition with modernization, local traditions with global perspectives, and the agrarian grain cycles with an urban lifestyles? These large scale problems extend far beyond the Kam to many traditional cultures around the world and threaten, in the vast, vast majority of cases, the future of their languages.

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CHAPTER TWENTY

SUI

James Wei and Jerold A. Edmondson

20.1. INTRODUCTION

The Sui people (in Chinese 水 Shui meaning ‘water’) constitute the second largest components of the Kam-Sui language grouping whose population according to the 1990 census was 346,000. But the Sui language has an importance far beyond its size, as this language has figured prominently in the history of research about the entire Kam-Tai family. It was namely the landmark investigations of Sui by Professor Li Fang Kuei in the 1930s and 1940s that proved a connection between Thai and some language groups of China. The Tai peoples are now thought to have once lived in this general area of China before departing for SE Asia. One important discovery Li made during his work was that the Sui language had preserved an inventory of sounds relatively rich and archaic in comparison to Tai groups of SE Asia. For example, the voiceless nasals of Sui /m n/, are perhaps suggested in Thai spelling yet not pronounced voiceless today, but in Sui they are still truly voiceless nasals. For that reason lexical comparison with Sui is singularly helpful in understanding the nature of the parent from which it and the other Tai languages have sprung.

Despite its importance for comparative studies, Sui language and culture is much more than just a cornucopia of archaisms. The Sui perpetuates still today a vibrant and varied lifestyle in 三都水族自治县 Sandu Sui (Shui) Autonomous County of 贵州省 Guizhou Province and in the nearby counties of 荔波 Libo, 独山 Dushan, 平塘 Pingtang, 都匀 Duyun, 剑河 Jianhe, 榕江 Rongjiang, and 黎平 Liping. Indeed, ninety-three percent of the Sui population (322,000 people) reside in Guizhou Province, China. An additional 10,000 live in Guangxi-Zhuang Autonomous Region to the south at 融水苗族自治县 Rongshui Miao Autonomous County, in the far west of the county at 英洞 Yingdong Villages where there were 280 speakers in 1990 and in 南丹 Nandan County. A small number people of Sui migrated some decades ago to 富源 Fuyuan and 茂名Yiliang Counties in Yunnan Province where they have adopted the Bouyei language (population 7,000) and also some Sui families left eight generations ago for Vietnam where 120 still speak Sui in Tuyên Quang Province. But it is in Guizhou at Sandu Sui Autonomous County where the Sui population is most densely settled and which the Sui people rightly regard as their cultural and linguistic heartland.

The Sui people make up one element of a complex of Kadai peoples with whom they share a common history and also many common cultural practices. In Chinese annals and historical books it states that the Kam-Tai peoples originated from the ancient 越 Yue, who covered a large area in South China up to about 700 BC and who are accorded the ancestors of all the Kam-Tai people groups. Some scholars have suggested that Sui are directly descended from one branch, the 骆越 Luoyue (Zhou and Edmondson 1996: 6). There are today vestiges of common cultural practices of the Kam-Tai peoples in the shared vocabulary. For instance, Sui and the other Kam-Sui languages and cultures have cognate vocabulary and customs associated with wet paddy rice farming, e.g. 豆2 ‘water buffalo’, 稼 ‘rice’, 爲 ‘winnowing basket’ and 載 ‘carrying pole’ as well as with marriage practices. Among Kam-Sui peoples it was customary until some decades ago that a woman marry her father’s sister’s son (cross-cousin marriage), unless the age differences were too great. Some have suggested that cross-cousin bonds reflect an original clan-based social organization with the purpose of accumulating and preserving wealth and power within compact communities and villages. While there were advantages of a few hundred related by bloodlines, these practices
ran counter to the Han Chinese custom of ancestor worship and patrilineal naming and inheritance. Over time the Han form of social organization gradually supplanted the Kadai one, but many traditions have persisted especially those regarding housing. So Sui villages, even today, are found in mountain hollows and display the stilted wooden house style.

The Sui people call themselves ai33 sui33. The first element is a classifier element meaning '(male) person' and occurs widely in compounds with this interpretation. The origins of the autonym sui33 are more obscure. It has been suggested that Sui might refer to 'water' (resembling perhaps Chinese shui) in light of the propensity of the Sui people to settle near river banks. But this account seems flawed, as many other Tai and Kam-Sui groups have riverine cultures and, even more importantly, the Sui word for 'water' is nam3, and does not approximate the Han Chinese word for water. To date no convincing account of the meaning of sui33 has emerged.

The closest linguistic relatives to the Sui are, perhaps, the Maonan population 90,000 who live separated from them to the south and west at Huanjiang County in Guangxi Province. Other language groups in this same branch are Mak and T’en. And, just to the east of Sandu County are found the Kam-Kam, the largest member of the Kam-Sui subbranch (population 2.5 million).

The Sui language is relatively homogenous from place to place and it is the language of wider communication among people living in Sui areas, as many people from other ethnic groups residing together with the Sui also can speak Sui. Just about everyone also can speak some form of local Chinese, as well. When Sui people live among other groups, only a few have shifted from their first language and adopted Chinese. These observations all testify to a strong tradition of language maintenance among the Sui people.

Although Sui does not vary greatly from place to place, that does not mean there are no internal divisions. From studies carried out in the 1950s, scholars have distinguished three vernacular types, based upon phonetic and lexical differences and some grammatical features. Much of the data sketched here has been taken from the Shuiyu Diaocha Baogao (ZSMYDBG 1956).

(1) Sandong vernacular, spoken in such areas as Sandong, Shuilong, Zhonghe, Miaocao, Bajie, Jiadao, Shiqi, Jiarong, Miaocao, Zhouqin, Jiuqian, Tangzhou and Yangmeng of Sandu Sui Autonomous County, and some other areas of Rongjiang and Congjiang County of Guizhou Province. The people who speak Sandong vernacular make up 90% of the Sui population.

(2) Yang’an vernacular, spoken in such places as Yang’an, Yangluo, Linqiao in Sandu County and Dongmiao in Dushan County of Guizhou Province.

(3) Pandong vernacular, spoken in Pandong, in Duyun City, and Wengtai in Dushan County in Guizhou Province.

The phonological system of the Sui language described here is based on Sandong Miaocao vernacular, which representative of the kind of Sui spoken by the greatest number of speakers. The inventory of Sui initials is quite numerous. Initial consonants:

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<td>s</td>
<td>z</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>tc</td>
<td>tch</td>
<td>j</td>
<td>?n</td>
<td>n</td>
<td>c</td>
<td>j</td>
<td>?j</td>
<td></td>
<td></td>
</tr>
<tr>
<td>k</td>
<td>kh</td>
<td>(g)</td>
<td>?g</td>
<td>(g)</td>
<td>j</td>
<td>?j</td>
<td>x</td>
<td>y</td>
<td>?y</td>
</tr>
<tr>
<td>q</td>
<td>qh</td>
<td>(g)</td>
<td>k</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Notes:
1) /mb/ and /nd/ are pronounced with slight pre-nasalization. Some specialists write them as [b] and [d].
2) The pronunciation of /t/ is similar to MSC [t] but don’t have the [i-] or [y-] offglide of Chinese. Scholars in China often transcribe this sound as /t/ and /th/.
3) /w/ is sometimes pronounced as [w].
4) /pw tshj tshw tsw/ are found only in modern Chinese loan words.
5) The words we have found with initial consonants /dw/ are few in number (less than 10).
6) /phw/ is only for spelling the family name Pan or for spelling this syllable in modern Chinese loan words.

p pi2 ‘fat’  pe1 ‘sell’  pa3 ‘father’s older sister’
ph pha1 ‘grey’  phja7 ‘blood’
phj phja3 ‘once’
mmb mbe1 ‘year’  mbi1 ‘expensive’
mbj mbj1 ‘near’
?b ?ban5 ‘well, spring’  ?ba3 ‘moth, butterfly’  ?ban ‘sky’
?bj ?bjan3 ‘otter’  ?bjan ‘shake, shiver’
?bw ?bwanj ‘uti ‘exterior’
?m ?m1 ‘bear’
?m ?m1 ‘bear’
mj mj1 ‘hand’
f f3 ‘husk’  fan1 ‘rain’  fa1 ‘right side’
?w ?wen ‘blame’  ?wai ‘te3 ‘under’
v va5 ‘write’  va1 ‘be in estrus’
?j vjan3 ‘tooth’  vjan1 ‘dream’
t tamb1 ‘sick’  taw1 ‘die’  tap7 ‘carrying pole’
th thau3 ‘search’  thau3 ‘arrive’
tj fan3 ‘white’  taj1 ‘drunkard’

thj thjak2 ‘wear’  thja2 ‘paste’
tw tsj1 ‘Double Ninth Festival’  twai4 ‘most’

nd ndai1 ‘eye’  ndan1 ‘body’  ndan5 ‘desert, flee’
?id ?de3 ‘ladder’  ?di1 ‘far’  ?dai3 ‘gain’
ndj ndja3 ‘buy’  ndjak ‘grasshopper’
?idj ?dja3 ‘seedling’  ?da1 ‘beyond’
ndw fe3 ndwa3 ‘celebrate a Sui festival’

?dw ?dwa1 ‘salt’
ŋ ŋak7 ‘sleep’  ŋa3 ‘bow’  ŋai1 ‘shake’
| n  | nuk⁸ 'flower'               | naŋ⁵ 'bamboo shoot'  | nui² 'insect'      |
| ?n | ?na¹ 'thick'               | ?na³ 'face'          | ?naŋ⁷ 'have'       |
| l  | le¹ 'book'                 | lau⁴ 'big, great'    |                     |
| lj | tjəu² ljen⁸ thje² 'spleen' |                     |                     |
| lw | lwa⁵ 'to rest'             | lwa¹ 'boat'          |                     |
| ts | tsik⁷ 'ruler stick'        | soŋ¹ tsak⁷ 'heel of a shoe' |
| tsh | thje² thsham⁶ 'spade'       | tsu⁶ 'pistol'        | tsjak⁷ 'guard'     |
| tsj | tshjan⁶ te² 'rob'          | sau⁶ tshjan⁷ 'pistol' |                     |
| tsw | tsəw¹ 'brick'             | tsəw¹ 'pretend'      |                     |
| s  | sau¹ 'pocket'             | sai³ 'question'      | sai⁶ 'matter, affair' |
| sj | siŋ¹ 'fairy'               |                     |                     |
| sw | swan¹ 'brick'             |                     |                     |
| z  | zən¹ 'person'             |                     | zən¹ 'heavy'       |
| t  | tan¹ 'group of'            | tan² 'caw, crow'    | tan⁶ 'story'       |
| th | thi¹ 'angry'               | thi¹ thi⁶ 'gas'      | thi³ 'bully'       |
| j̣ | jəa¹ 'pancreas'            | jam¹ 'adhesive'      | jəau² 'bad'        |
| j̣ | jəa² 'you'                 | na³ 'foolish'        | na² 'crack with the teeth' |
| ?n | ?nam¹ 'grasp'              | ?nam⁵ 'follow'       | ?nam⁵ naï⁶ 'tonight' |
| c  | ca¹ 'sharp'                | ca³ 'wife'           | ca¹ 'really'       |
| j̣ | ja⁴ 'grandmother'          | jəa¹ 'cogongrass'    |                     |
| ?j | ?ja² 'cotton cloth'        | ?jak⁷ 'hunger'       | ?jam¹ 'deep'       |
| k  | ka¹ 'dragon'               | tsən⁷ kəm³ 'branch'  |                     |
| kh | khən¹ 'wind'               | khən³ 'sand'         |                     |
| kw | kwa⁸ 'country'             | kwa⁵ 'picket, stake' |                     |
| khw | khwa⁷ 'road'               | məi⁹ khwa³ 'staff for herding chickens' |
| y  | yəm⁴ 'drink'               | yə² 'two'            | ỵa¹ 'lick'         |
| ?y | ?ya² 'soak'                | ?ya³ 'wet field'     | ?ya⁸ 'sink'         |
| ŋ̣ | ŋai³ 'open'                | ŋai⁵ 'hear'          | ŋam⁸ 'daze'         |
| ŋ̣ | ŋən¹ 'firm'                | na² 'duck'           | nau⁶ 'goods'        |
| ŋ̣ | ŋəŋ⁷ 'move'                | ŋe³ 'cry'            | ŋək⁴ 'thrust upward' |
| ŋ̣w | ŋəwat⁷ 'nodd head'         | ŋəwat³ 'cave'        | ŋəwat³ ku³ 'look up' |
| q  | qət⁵ 'chicken'             | qe³ 'excrement'      |                     |
| qh | qha³ 'ear'                 | qhak⁷ 'pickets, stakes' | qən⁵ 'happy'      |
| ḳ | kənj³ 'doorsill'           | əa³ 'fungus'         | əan⁵ 'female'       |
| ? | ?au⁴ 'paddy, rice'         | ?ai³ 'classifier for persons' |
| h  | hum⁵ 'paddy, rice'         | hai¹ 'lime'          |                     |

### 20.2. RHYMES

The Sui rhyme system is as follows:

```
i  e  a  o  u  ø
  ai  ai  oi  ui
iu  au  au
im  em  am  am  om  um
in  en  an  an  on  un  ôn
```
Notes:

1) /i e a o u/ are long vowels when they appear without codas in a syllable. When they are followed by final vowels or consonants, only /a/ is contrastive in length, i.e. there are two contrastive segments /a/ and /ai/;

2) The tongue position for /a/ lies between [a] and [A], and when followed by a final vowel [i], /ai/ is pronounced close to [u]; /ai/ is pronounced as /ei/;

3) No diphthongs are followed by final consonants;

4) The vowel [i] in modern Chinese loan words often has the true pronunciation of [i].

Notes:

1) /i e a o u/ are long vowels when they appear without codas in a syllable. When they are followed by final vowels or consonants, only /a/ is contrastive in length, i.e. there are two contrastive segments /a/ and /ai/;

2) The tongue position for /a/ lies between [a] and [A], and when followed by a final vowel [i], /ai/ is pronounced close to [u]; /ai/ is pronounced as /ei/;

3) No diphthongs are followed by final consonants;

4) The vowel [i] in modern Chinese loan words often has the true pronunciation of [i].
20.3. TONES

Sui, of course, is a tone language and displays the paramount features of Kam-Tai tonal systems. By tradition one distinguishes between tone category (number) and tone value (a phonetic pitch shape associated with the category). Tone category is a phonological concept, whereas tone value is a phonetic concept.

Tone number Tone value
1 11 (some speakers appear to have the tone value 212)
2 31
3 33
4 51
5 35
6 24
7 35 with long vowels and 55 with short vowels
8 42 with long vowels and 31 with short vowels

Notes:
1) For tone number 6 Miaocao has tone value =24 but in Sandong there are two tone values for tone 6, namely, 24 for Sui native vocabulary, and 55 for modern Chinese loan words.
2) For tone number 7 and tone number 8, the syllables is closed with final consonants -p,-t, or -k. Each of them has a long and a short tone value.

20.4. LANGUAGE VARIATION

As mentioned above, the Sui language does not show extreme variation from place to place. Still, the manifestation of various sounds allows a more complete view of how Sui descended from the parent language into various form of the language as spoken today.

In regard to the tones, there is only a narrow range of difference. Here are the tone values according to location:
There is also some variation in the manifestation of initial consonants. As mentioned earlier, according to the unpublished study of the Sui language of 1956, there are basically three vernacular types: Vernacular #1 represented by Shuilong, Vernacular #2 represented by Yang’an, and Vernacular #3 represented by Pandong (see above for the locations associated with these three types.).

The first kind of variation in the Sui language features the loss of preglottalization of initial consonants. Rules showing this loss are found in all series of initials: (a) voiced stops $b > b$, $d > d$; (b) nasals $m > m$, $n > n$, $ŋ > ŋ$, $ŋ > ŋ$, (c) fricatives $v > v$, $y > y$, $j > j$.

There are some clear generalizations visible in these data. The first observation is that on the peripheral of Sui territory (Yang’an and Pandong) there is DEPLOSIVIZATION, that is, preglottalized nasals /m n ŋ ŋ/ of area 1 tend to become plain nasals /m n ŋ ŋ/ in areas 2 and 3. In a similar development the prenasalized voiced stops /mb nd/ merge with original nasals /m n/ and those that evolved from preglottalized nasals. Secondly, there is onset

<table>
<thead>
<tr>
<th>Gloss</th>
<th>Yang-an</th>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>‘fat’</td>
<td>pi$^2$</td>
<td>fi$^2$</td>
<td>pi$^2$</td>
<td></td>
</tr>
<tr>
<td>‘chicken louse’</td>
<td>mbjai$^1$</td>
<td>mbjai$^1$</td>
<td>mji$^2$</td>
<td></td>
</tr>
<tr>
<td>‘part’</td>
<td>mbjai$^5$</td>
<td>mjaŋ$^5$</td>
<td>mjaŋ$^6$</td>
<td></td>
</tr>
<tr>
<td>‘plant trees’</td>
<td>mbja$^1$</td>
<td>miok$^6$</td>
<td>mja$^2$</td>
<td></td>
</tr>
<tr>
<td>‘day’</td>
<td>?bøn$^1$</td>
<td>bo$^1$</td>
<td>møn$^1$</td>
<td></td>
</tr>
<tr>
<td>‘woman’</td>
<td>?bjak$^2$</td>
<td>biok$^7$</td>
<td>mja$k^7$</td>
<td></td>
</tr>
<tr>
<td>‘ladle’</td>
<td>?bøni$^5$</td>
<td>mja$^1$</td>
<td>mja$^2$</td>
<td></td>
</tr>
<tr>
<td>‘vegetable’</td>
<td>?ma$^1$</td>
<td>ma$^1$</td>
<td>ma$^1$</td>
<td></td>
</tr>
<tr>
<td>‘new’</td>
<td>mæ$^5$</td>
<td>hwåi$^5$</td>
<td>hwåi$^6$</td>
<td></td>
</tr>
<tr>
<td>‘half old/new’</td>
<td>mjaŋ$^5$</td>
<td>mjaŋ$^5$</td>
<td>mjaŋ$^5$</td>
<td></td>
</tr>
<tr>
<td>‘hand’</td>
<td>mja$^1$</td>
<td>mja$^1$</td>
<td>mja$^1$</td>
<td></td>
</tr>
<tr>
<td>‘bunch’</td>
<td>fiŋ$^5$</td>
<td>piŋ$^5$</td>
<td>piŋ$^5$</td>
<td></td>
</tr>
<tr>
<td>‘peach’</td>
<td>fæ$^1$</td>
<td>wan$^1$</td>
<td>pæ$^1$</td>
<td></td>
</tr>
<tr>
<td>‘late’</td>
<td>ve$^1$</td>
<td>ve$^1$</td>
<td>ve$^1$</td>
<td></td>
</tr>
<tr>
<td>‘stupid’</td>
<td>?va$^3*$</td>
<td>–</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>‘break law’</td>
<td>fam$^6$</td>
<td>vam$^6$</td>
<td>vam$^6$</td>
<td></td>
</tr>
<tr>
<td>‘false rice’</td>
<td>vai$^1$</td>
<td>xwaŋ$^1$</td>
<td>xwaŋ$^1$</td>
<td></td>
</tr>
<tr>
<td>‘good’</td>
<td>?dai$^1$</td>
<td>dai$^1$</td>
<td>lai$^1$</td>
<td></td>
</tr>
<tr>
<td>‘bright’</td>
<td>?dæn$^1$</td>
<td>daŋ$^1$</td>
<td>laŋ$^1$</td>
<td></td>
</tr>
<tr>
<td>‘clothing’</td>
<td>?duk$^3$</td>
<td>duk$^7$</td>
<td>lik$^7$</td>
<td></td>
</tr>
<tr>
<td>‘raw’</td>
<td>?djup$^7$</td>
<td>djup$^7$</td>
<td>liup$^7$</td>
<td></td>
</tr>
<tr>
<td>‘rice cake’</td>
<td>ju$^7$</td>
<td>ju$^7$</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>‘green vegetable’</td>
<td>qa$^7$</td>
<td>qa$^7$</td>
<td>kar$^7$</td>
<td></td>
</tr>
<tr>
<td>‘mushroom’</td>
<td>ga$^1$</td>
<td>ga$^1$</td>
<td>ga$^1$</td>
<td></td>
</tr>
<tr>
<td>‘carrying pole’</td>
<td>gæ$^1$</td>
<td>gæ$^1$</td>
<td>gæ$^1$</td>
<td></td>
</tr>
</tbody>
</table>

*The preglottalized form is found only at Jiuqian and Yaoqing

There are some clear generalizations visible in these data. The first observation is that on the peripheral of Sui territory (Yang’an and Pandong) there is DEPLOSIVIZATION, that is, preglottalized nasals /m n ŋ ŋ/ of area 1 tend to become plain nasals /m n ŋ/ in areas 2 and 3. In a similar development the prenasalized voiced stops /mb nd/ merge with original nasals /m n/ and those that evolved from preglottalized nasals. Secondly, there is onset
softening, that is, the preglottalized voiced stops /b ʔd ʔj/ become plain voiced stops /b d j/; in area 3 /ʔd嘹/ becomes /l/. So even in sound change the preglottalized voiced stops and the preglottalized nasals are kept separate. The third observation to make is that the uvular voiced stop /cʔ/ become a plain voice velar stop /g/ in areas 2 and 3. Finally, voiceless nasals /m n ʔj ʔy/ undergo a very interesting rule. The segmental features of these sounds are manifested in a voiceless glides and a non-segmental feature of nasalization on the following vowel, e.g. ʔmaʔ varies with hwãl̊ ‘dog’.

20.5. WORD CATEGORIES

The Sui language resembles most other members of the Tai-Kadai subbranch in regard to parts of speech, word categories, and word building capacity. All of these languages, including Sui, differ from Chinese in many ways but also share some common features. Like Chinese, Sui is an analytic and isolating language, which means that its word forms do not show inflectional or paradigmatic variation for case, number, agreement, or the like. That is not to say that there are not rule-governed processes in the lexicon. As Packard 2000 has shown for Chinese, several differing word classes exist, some of which stand alone, some of which can enter into combination with others, and a few of which occur only in grammatical service. Using his terminology, we can call these types (free) root words, bound roots, affixes, and function words. Root words can combine to create new root words, e.g. maʔ ‘horse’ and ʔanʔ ‘saddle’ as well as ʔaad maʔ saddle-horse ‘horse saddle’. Examples of bound roots are intensifiers for adjectives, such as ʔlumʔ intensifier for black, which must be accompanied with the root word ndjæŋ² ‘black’. The aspect particle for perfective aspect la² is a function word and ti² is an affix changing cardinal numerals into ordinal numerals. These examples all represent borrowings from Chinese, and indeed, there are few cases of native vocabulary in purely functional capacity.

One very obvious way Sui is unlike Chinese lies in its relative lack of bound form words. Modern Standard Chinese (MSC) possesses a lexicon that contains a high percentage of bound form words requiring combination with other bound forms, free words, affixes, or function words. Sui, by contrast, resembles older forms of Chinese in which a large percentage of the lexicon is made up of uncompounded free forms, perhaps a few bound forms (often borrowings from Chinese), and free forms in combination with bound forms, affixes, or function words. Sui is also unlike Chinese in regard to the HEADEDNESS PRINCIPLE. Headedness, as described by Packard (2000) is a property of MSC in which the identity of a gestalt or whole word ‘confers an identity’ on the components that make up that gestalt word. Thus, in a Sui form composed of two subparts [XA YB]A, if the category of the whole is a noun, verb, or adjective, then Sui morphology requires that XA also be a noun, verb, or adjective respectively. That means Sui is left-headed in its word construction, just as in its phrases. MSC is right-headed for gestalt nouns and left-headed for gestalt verbs. Some examples are: ʔnaʔ cɛn² month-money ‘interest (n.)’, ʔnaʔ yan⁴ soak-seedlings ‘soak seedlings (v.)’, ʔpɛn² gat² insect-chicken ‘chicken lice (n.)’, ʔŋpiʔ ti³ pig-small piglet (n.), ndjæŋ² ndum¹ black-intensely black ‘black as pitch (adj.)’, zon¹ ʔnam¹ person-bad ‘evil person, malefactor, villain (n.)’, zon¹ ʔdaʔ people-good ‘good person (n.)’, zon¹ ʔnui¹ person-snow ‘snowman (n.)’, zon¹ ʔnuk² person-outside ‘stranger (n.)’, vin² mjæ wave-hand ‘wave (v.)’.

The Sui language possesses the word categories: noun (n.), numeral classifier (CLS), pronoun (pro), numerals (num.), verbs (v.), adjectives (adj.), and adverbs (adv.). Nouns express the names of things, e.g. le¹ ‘book’, ʔnam¹ ‘maggot’, persons, e.g. ni³ ‘mother’, zon¹ ti³ ‘enemy’, places, e.g. tu² von² ‘Duyun County’, times, e.g. ʔnam¹ ham¹ sup⁸ ‘New Year’s Eve’, location, e.g. fa¹ ‘right’, si³ ‘left’. Nouns usually occur with numeral classifiers whenever the cardinality of a group is at issue, ham¹ aï³ zon¹ three-CLS-person ‘three men’, ci² to² tak⁸ ku² four-CLA-male-buffaloes ‘four buffalo bulls’. Whenever the nouns express persons, then a classifier may be omitted lum⁷ ham¹ paternal uncle-three ‘three paternal uncles’ or in the other order ya² faï³ two-older brother ‘two older brothers’. Nouns of location do not take classifiers or numerals, e.g. te² te² tsao² below-below-there ‘way down below there’.
Classifiers include ai³ for persons, to² for animals, ni⁴ for trees, etc. Classifiers can be reduplicated to express every, each, as in lam¹ lam¹ ‘every (general classifier)’. Pronouns are divisible into personal pronouns ju² ‘I’, ndiu¹ we exclusive, ndaæ¹ we inclusive, a² you, saa¹ ‘you pl’, man¹ ‘he, she, it’, he¹ ‘others’. Demonstrative pronouns are: naæ⁰ ‘this’, tsæ‘ ‘that’, uï¹ ‘that (distant)’, yœ² ‘others’, he¹ ju², ja⁶ ‘this sort of’, and he¹ tsæ‘ ‘that sort of’. Numerals are laaj³ ‘one’, ja₂, ja⁶ ‘two’, haam¹ ‘three’, aï⁵ ‘four’, yœ⁴ ‘five’, ljok⁸ ‘six’, cœ⁷ ‘seven’, paæ⁷ ‘eight’, tœ¹ ‘nine’, and sup⁸ ‘ten’.

There are also generalizations observable within families of words. One frequent pattern of variation within word families is the ablauting of a vowel, consonant, or tone in which changes of color, length, place/manner of articulation, or pitch trajectory, e.g. ñiui⁷ tehau¹ vs. ñiui⁷ tua¹ ‘not condescending, not patronizing’, ñiui³ ‘urine puddle’ vs. ñiui³ ‘urine, urinate’, and ñi² tœi vs. ñi⁷ tœi³ ‘arms, armament, arms, weapon, weaponry’.

20.6. SYNTAX

The Sui language generally shows head-first typological properties. Attributes follow heads, specifier comes last in the NP. Indeed, most SE Asian languages have these properties. That attributive adjectives follow their heads is seen in: tun¹ lœ¹ ‘hot-great-very’ ‘very very hot’. Adverbs follow adjectives they modify, as in: tun¹ laï⁸ ‘arms, armament, arms, weapon, weaponry’. Variations of color, length, place/manner of articulation, or pitch trajectory, e.g. ñiui⁷ tehau¹ vs. ñiui⁷ tua¹ ‘not condescending, not patronizing’, ñiui³ ‘urine puddle’ vs. ñiui³ ‘urine, urinate’, and ñi² tœi vs. ñi⁷ tœi³ ‘arms, armament, arms, weapon, weaponry’.

Example sentences:

1. (1) man¹ ?ai³ ka¹, me² ?ai³ suï² ‘He is Chinese, he is not Sui’.
2. (2) van¹ naře² so³ ñø³, van¹ ñmu³ so³ ljok⁸ ‘Today is the fifth day of the Lunar Year; tomorrow is the sixth.’
3. (3) fa² h² ni² maŋ⁸ ‘You are planning what = What are you planning?’
4. (4) ña² ñaœ³ djœ³ ñu³ ta?² ‘You from where come = Where are you from?’

20.7. VARIATION IN WORD FORMS

One area of difference among the varieties of Sui is in the personal pronoun systems. Surprisingly, pronouns vary quite a lot from place to place.

<table>
<thead>
<tr>
<th>Sandong</th>
<th>Zhonghe</th>
<th>Jiuqian</th>
<th>Yaoqing</th>
<th>Hengfeng</th>
<th>Pandong</th>
<th>Yang’an</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>ju²</td>
<td>ñø²</td>
<td>jœ²</td>
<td>jœ²</td>
<td>ñœ²</td>
<td>ñœ²</td>
</tr>
<tr>
<td>You (s.)</td>
<td>?ai³</td>
<td>ñø³</td>
<td>?iu²</td>
<td>ju²</td>
<td>kœi³</td>
<td>?ai²</td>
</tr>
<tr>
<td>He/she</td>
<td>man¹</td>
<td>man¹</td>
<td>man¹</td>
<td>man¹</td>
<td>man¹</td>
<td>man¹</td>
</tr>
<tr>
<td>We (exc.)</td>
<td>teœn¹ diœ¹</td>
<td>teœn¹ diœ¹</td>
<td>diœ²</td>
<td>djœ¹</td>
<td>teœn¹ daœ¹</td>
<td>xœ³xœ¹</td>
</tr>
<tr>
<td>We (inc.)</td>
<td>teœn¹ daœ¹</td>
<td>yœn¹ diœ¹</td>
<td>yœn¹ diœ¹</td>
<td>gan⁶gœ⁶</td>
<td>xœ³xœ¹</td>
<td>gan¹daœ¹</td>
</tr>
<tr>
<td>You (pl.)</td>
<td>teœn¹ saœ¹</td>
<td>teœn¹ saœ¹</td>
<td>saœ¹</td>
<td>pi³ciœ¹</td>
<td>teœn¹ xœ³</td>
<td>xœ³</td>
</tr>
<tr>
<td>They</td>
<td>teœn¹</td>
<td>ko³maœ¹</td>
<td>ko³maœ¹</td>
<td>pi³maœ¹</td>
<td>teœn¹</td>
<td>qa³maœ¹</td>
</tr>
</tbody>
</table>

Also there are some slight differences in regard to whether the copula si³ or si⁷ is required in sentences such as Sandong naœ³ qaœ³; tsæ‘ ?ep³ ‘these are chickens; those are ducks’ vs. Jiuqian naæ³ si³ qaæ³; tsæ‘ si³ ?ep³.
20.8. RECORDING SYSTEM

The Sui are unique among Kam-Sui peoples in having a native system for recording in written form important things in their environment. The le¹ shui³ or Shui Shu recording system was used for writing down important weather and religious phenomena. It was not a system of sufficient richness to serve as a true writing system, or was it a system that ordinary people learned, but was reserved to a few shamans and elite persons. The glyphs, about 100 in number, are based in part of Chinese; others seem to be pictographic in nature. Three categories of glyphs are distinguished. The first of these was for the Heavenly Stems and Earthly Branches, a part of Sui calendary and for numerals. Han characters were often the basis, some with altered shapes. The second was based on pictogram characters, using birds, fish, various demons and spirits. There is also a third category that belongs to neither of these two. Type one le¹ shui³ glyphs are associated with Han readings for the characters. Type two forms sometimes have Sui pronunciation. Type three glyphs (very few in numbers) are usually given Han pronunciations as well. Some examples are:

Type 1:  ```
Moon    Sun    Spring    water    fire    three    dragon    snake
tap²    āwet³    ñit⁸    sün¹    suji³    fa³    ham¹    īm²
```

Type 2:  ```
bird    snail    eyes    monkey    dead person
nok⁸    qhu¹    nda¹    mon⁴    likeness of a    tree branch
```

Type 3:  ```
tham¹    corrupt
```

20.9. CONCLUSION

The Sui language has many important archaic features. Notable is the complexity of its initials and its archaic vocabulary, some of which is not attested in other Kam-Sui and Tai languages.
REFERENCES


CHAPTER TWENTY-ONE

CHADONG, A NEWLY-DISCOVERED KAM-SUI LANGUAGE IN NORTHERN GUANGXI

Li Jinfang

Chadong is spoken mainly in the township of Chadong in Lingui County, southwest of the city of Guilin, with some spill-overs in several villages in the township of Liangjiang in the south and in the township of Longjiang in Yongfu County in the west. Chadong has approximately 20,000 speakers. Until recently, little has been known about this language, except a very brief sketch in the local Gazetteer of Lingui County (Liang, 1996).

Chadong township is the place of origin of mangosteen, a well-known local product of Guangxi. However, Chadong speakers were not the early inhabitants of this region. According to historical records, a garrison of some 2,000 men were stationed in Chadong (formerly called Chaodong) to control the rebellions of the Zhuang and the Yao of northern Guangxi during the Yuan Dynasty dynasty (1206–1368 AD). The inscriptions on the tablet of the Meng family of Chadong indicate that their ancestors were conscripted and relocated from Qingyuanfu in Nandan in northwest Guangxi. We believe that speakers of the Zhuang and other Kam-Tai languages around Chadong area probably migrated from Nandan and the surrounding counties.

Chadong speakers have a number of cultural traits that are identified with Kam-Sui. Their surnames typically include Xie, Lu, Meng, Yao, Long, Liang, Zhou, Wei, Qin, Wu, Huang, Yin and Su, all of which are common surnames of Kam-Sui speakers. Those with the surname Meng worship the King of Moliu, a tradition that is similar to that of the Maonan.

Before the 1950s, Chadong speakers were largely monolingual. Few spoke Chinese. Nowadays the majority of them are bilingual, fluent in southwestern Mandarin. A small number can speak Zhuang and Pinghua, a kind of local Chinese dialect with a lot of mixed elements. Those who have moved to Yao areas can speak Yao.

Chadong has a number of regional varieties. However, the differences between these varieties are quite slight, and thus do not constitute dialect differences, except for the speech of several villages in the south and in Liangjiang. This latter variety was influenced by Pinghua, southwestern Mandarin and Zhuang, which gives rise to a number of sound changes, such as voiceless nasals merging with plain nasals, bilabial nasal -m changing to velar -ŋ and the loss of final stops in a number of vocabulary items. On the whole, mutual intelligibility is characteristic of varieties of Chadong.

Linguistically, Chadong belongs to the Kam-Sui group of the Kadai language family, based on our fieldwork data. Chadong shares a number of phonological similarities and basic vocabularies with other languages of the Kam-Sui group. For example, like Sui and Mulam, Chadong has a set of voiceless nasals: [m], [n], and [ŋ], as well as the palatal fricative [c]. Chadong sides with Mulao in having the voiceless lateral [ɭ] and the mid low back vowel [ɔ].

In the area of basic vocabulary, Chadong has most in common with Sui and Maonan of the Kam-Sui group, particularly with Maonan.¹

¹ The following comparative material is from the Fifth Research Group (1985).
In view of various common phonological and lexical features, as well as a number of ethnological traits discussed above, Chadong appears to be more closely related to Maonan than to the other languages of the Kam-Sui group. On the other hand, Chadong shares a number of lexical items with other members of Kam-Sui that are represented otherwise in Maonan.

Furthermore, Chadong has quite a number of native words that are not shared by any other member of the Kam-Sui group:
The data used in this study is from the variety of Chadong spoken in the village of Siji, about 3 kilometers from the township of Chadong.\textsuperscript{2} The informant, Mr Meng Wanmei, was 66 years of age at the time of fieldwork in July, 2000. For most of his life he has lived in the village. Mr Meng is fluent both in Chadong and in Southwestern Mandarin.

21.1. THE SOUNDS OF CHADONG

21.1.1. Initials

Chadong has 28 simple initial consonants, 19 palatalized consonants and 7 labialized initials, as follows:

\[
p \quad \text{ph} \quad m \quad m^\prime \quad f \quad w
\]
\[
t \quad \text{th} \quad n \quad n^\prime \quad l \quad \emptyset \quad s \quad z
\]
\[
ts \quad \text{tsh} \quad c \quad \text{ch} \quad n \quad n^\prime \quad \zeta \quad j
\]
\[
k \quad \text{kh} \quad \eta \quad ? \quad h
\]
\[
pj \quad \text{phj} \quad mj \quad mj^\prime
\]
\[
tj \quad \text{thj} \quad nj \quad nj^\prime \quad lj \quad lj^\prime \quad \theta j \quad sj
\]
\[
tsj \quad \text{tshj} \quad nj
\]
\[
kj \quad \text{khj} \quad nj \quad hj
\]
\[
tw \quad \text{thw} \quad tsw \quad kw \quad khw \quad \eta w \quad hw
\]

Explanatory remarks:

(1) Nasals [m], [n], [n\prime] and lateral [l] have contrastive voiceless counterparts. There is no voiceless velar nasal [ŋ].

(2) Historically preglottalized sounds [?p] and [?d], which are common in other Kam-Tai languages, are not found in Chadong. These have become [p] and [l] respectively, e.g. 

\[
\text{pa:}^n \quad \text{‘village’}, \quad \text{lo}^6 \quad \text{‘gall bladder’} \quad \text{and} \quad \text{la:i}^4 \quad \text{‘good’}.
\]

Sometimes, they become [b]/[d], e.g. 

\[
\text{pi:}^\prime \quad \text{M} \quad \text{bi:}^\prime \quad \text{‘daughter’}, \quad \text{bo}^7/\text{do}^7 \quad \text{‘shallot, spring onion’}.
\]

(3) There is a voiceless dental fricative [?] in Chadong, which is rare among the Kam-Sui group.

(4) Fricatives [ts] and [tsh] are realized as [ʨ] and [ʨh] before front vowels.

(5) Palatalization and labialization are not common. Palatalized and labialized sounds [kj] [θj] [thj] [nj] [thw] occur mainly in Chinese loans.

(6) [hj] is typically realized as [xj]. In fast speech, it sounds like [c].

(7) Aspirated sounds rarely occur in native words.

(8) Nasals [m] and [n] have accompanying preglottalized effects when occurring in tone 1 (53) (Proto-Kam-Sui tone A1), tone 5 (45) (Proto tone B1) and tone 6 (35) (Proto tone B2). But these are not contrastive.

21.1.2. Finals

There are 9 simple vowels in Chadong, plus a syllabic [ŋ], listed below:

\[
a \quad e \quad \partial \quad i \quad o \quad u \quad ə \quad y \quad w \quad ɲ
\]
There are 13 diphthongs:

\[
\begin{align*}
& a:i \quad ai \quad a:u \quad au \quad eu \quad iu \quad oi \quad uo \quad u:i \quad ui \quad i:o \quad u:o \\
\end{align*}
\]

Simple vowels can take final nasals and final stops. Diphthongs do not, except /ua/, /ia/, and /ie/, which may take final nasal /n/. /ie/ may also take final /-m/. Below are the syllable combinations in Chadong:

\[
\begin{align*}
& a:m \quad am \quad a:n \quad an \quad a:ŋ \quad a:p \quad ap \quad a:t \quad at \quad a:k \quad ak \quad i:aŋ \quad uan \quad em \quad en \quad eŋ \quad ep \quad et \quad ek \quad iem \quad ien \quad on \quad on\ ōt \quad ok \quad i:m \quad im \quad i:n \quad in \quad i:ŋ \quad i:p \quad ip \quad i:t \quad it \quad i:k \quad ik \quad om \quad on \quad op \quad ot \quad ok \quad u:n \quad un \quad u:ŋ \quad u:n \quad u:t \quad ut \quad u:k \quad u:n \quad um \quad an \quad aŋ \quad ap \quad at \quad ak \quad y:n \quad yn \quad y:ŋ \quad y:t \quad yt \quad y:k \quad y:n \quad y:n \quad y:ŋ \quad y:ŋ \quad ōt
\end{align*}
\]

Remarks:

1. /œ/ is phonetically realized as [æ]. [ɛ] and [ʊ] may sometimes be pronounced as [e] and [ɔ] respectively, especially when used alone as finals. [ɔ] and [u] are rarely used alone as simple finals. [u] often takes voiceless bilabial [ϕ] when occurring as a simple final. For example, /u⁴/ ‘rice’ is realized as [ϕu⁴].

2. Except when occurring as a simple final, rounded [ʊ] combines with only a limited number of consonants. High vowel [u] has even less combining function.

3. /a/, /i/, /u/, and /y/ have length contrasts when taking other final elements. Long /i:/ and /u:/ sound like [i] and [u].

4. The first elements of /ua/, /uan/, /ia:ŋ/, /uo/, /iem/ and /ien/ are not main vowels but vowel glides. These often occur with Chinese loans. /i/ and /u/ are the main vowels in /iœ/ and /uœ/, where [œ] is the vowel glide.

5. Final /-k/ often has a very weak explosive effect.

21.1.3. Tones

Eight tones can be established for Chadong, which correspond to the tone categories in the Tai and Kam-Sui languages. Tones 1-6 are with unchecked syllables. Tones 7 and 8 are with checked syllables, each of which has an allotone, with length contrast.

The tone values of Chadong are described below:

<table>
<thead>
<tr>
<th>Tone</th>
<th>Tone value</th>
<th>Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>53</td>
<td>ma¹ ‘vegetable’</td>
</tr>
<tr>
<td>2</td>
<td>21</td>
<td>ma² ‘tongue’</td>
</tr>
<tr>
<td>3</td>
<td>31</td>
<td>ma³ ‘soft’</td>
</tr>
<tr>
<td>4</td>
<td>23</td>
<td>ma⁴ ‘horse’</td>
</tr>
<tr>
<td>5</td>
<td>45</td>
<td>ma⁵ ‘carry on back’</td>
</tr>
<tr>
<td>6</td>
<td>35</td>
<td>mo⁶ ‘hat’</td>
</tr>
<tr>
<td>7a</td>
<td>45</td>
<td>pak⁷ ‘north’</td>
</tr>
<tr>
<td>7b</td>
<td>31</td>
<td>pa:k⁷ ‘mouth’</td>
</tr>
<tr>
<td>8a</td>
<td>21</td>
<td>lo⁴pak⁸ ‘turnip’</td>
</tr>
<tr>
<td>8b</td>
<td>23</td>
<td>la:k⁸ ‘offspring’</td>
</tr>
</tbody>
</table>
Remarks:
1) Odd-numbered tones have a higher tone pitch than even-numbered tones.
2) The tone pitch of tone 2 (21) is very close to that of tone 3 (31). Their tone range is very close too. Tones 4 (23) and 5 (45) are often pronounced as mid level (33) and high level (55) respectively in tone sandhi. The same is true of their corresponding checked tones, tones 7a and 8b.
3) Checked tones have length contrast. As a general rule, tone seven long lines with tone 3 (31), whereas tone seven short lines with tone 5 (45). Tone 8 long goes with tone 4 (23), while tone 8 short goes with tone 2 (21). There are exceptions where there are tonal flip-flops. Final /e/ and /o/ may combine freely with any tones in checked syllables as they have no length contrasts.
4) Aspirated initials mainly occur with odd-numbered tones. But Chinese loans, especially recent loans, also occur with even-numbered tones. Voiceless /p/, /t/, /k/ and /p/ only occur in odd-numbered tones. Voiced sibilant initial /z/ only occurs in even-numbered tones.
5) Tone sandhi is a feature of Chadong. In disyllabic words, the first syllable undergoes tone change, with the second syllable unaffected, e.g. tin’(t)kwa’ ‘leg’, lon’(t)ni’ ‘children’ (citation forms are in brackets). This may be due to the prosody in Chadong, where the stress is in the second syllable.

21.2. LEXICON

21.2.1. Word formation

Chadong words can be formed through derivational prefixes and compounding.

21.2.1.1. Derivation

(1) Prefixes
A significant number of Chadong prefixes have derived from lexical items, which have been grammaticalized. For example, m< ‘directional’, WC ‘locative’, PK ‘female gender and diminutive’. Other prefixes still preserve or are used side by side with lexical meanings. Some commonly-used prefixes are listed below.


tak ‘bull’, tak’wi ‘bull’, tak’ma ‘horse’;

mo< ‘side’: mo’th ‘left’, mo’ju ‘right (side)’, mo’no ‘outside’.

co< ‘head’: co’ko ‘knee’, co’chai ‘blade of a plough’, co’p ‘cup for moxibustion’.

(2) Suffixes
Suffixes are few in Chadong. Only one example is found in our data: θai ‘offspring’. Examples: θai ‘star constellation’, θoi ‘nuts’, ai ‘mute’.

21.2.1.2. Compounding
Compounding takes the following forms, with modification being the most common:
(i) Modification

Modification takes the form of pre-modification and post-modification.

Pre-modification:

\[ \text{foot-trace} \quad \text{head-scalp} \]
\[ \text{‘trace’} \quad \text{‘head scalp’} \]
\[ \text{splash-water} \quad \text{tree-forest} \]
\[ \text{‘spring’} \quad \text{‘forest’} \]

Post-modification:

\[ \text{grain not plump} \quad \text{cloud black} \]
\[ \text{‘(of grain) not plump’} \quad \text{‘dark cloud’} \]
\[ \text{wind big} \quad \text{rain flying} \]
\[ \text{‘strong wind’} \quad \text{‘drizzle’} \]

(ii) Verb + object:

\[ \text{make-partner play-wind} \]
\[ \text{‘companion’} \quad \text{‘show off’} \]
\[ \text{beg-eat} \]
\[ \text{‘beggar, to beg’} \]

(iii) Subject + predicate:

\[ \text{day-gloomy day-sunny} \]
\[ \text{‘gloomy day’} \quad \text{‘sunny day’} \]
\[ \text{Eye-blind face-freckled} \]
\[ \text{‘blind’} \quad \text{‘freckled face’} \]

21.2.1.3. *Synonyms*

Chadong is particularly rich in synonyms. Some are native words, others are Chinese loans. Quite often, native words and loans form pairs, that is, they are used side by side with one another. Quite a number of concepts are expressed by Chinese loans. In some cases, loan words gain the upper hand, while in others, native words do. In a number of cases, native items became grammaticalized, giving way to loans or becoming subordinating elements of
loan words. For example, the pair toŋ⁴ and ɲat⁸ both mean ‘wobble, shake’, the former is a Chinese loan, and the latter, a native word. ɲat⁸ is rarely used alone now, but has become a descriptive element in the expression toŋ⁴ ɲat⁸ ɲat⁸ ‘loose, wobble’.

(i) Synonyms of native origin:

'hide, hidden': pok⁸, tsam⁺⁺
'carry (water)': tsau² (with one hand), pu³ (with two hands)
'pull (a rope)': ka:k⁷, sai²
'pull (collar)': na¹ (gently), kwa⁴ (suddenly and roughly)
'play': lɔŋ⁶, fe⁴lɔ⁴
'hurt (one’s back)’: ljek⁷ (as a result of being hit), n⁷k (as a result of being sprained)
'break': eu⁴, khwe
'dark': phu:⁴, phu:⁴
'bathe': lWM (at home), a:p (in river)
'to cook': tu (rice, food), o (for a long time)
'tired': ne³, ca:k
'beautiful, handsome': kho⁴ (of men), hju (of women)
'love': ma⁷, kit
'cold': Q, it (water, food)
'(of water) fast flowing’: Üa, tau
'squat': u (for a long time), tsan (for a short while)

Quite often, synonym pairs involve both native words and Chinese loans. Examples:

chop (meat): tsəɲ⁴
hot: tun¹ (water food)
snore: 7X:n (Ch. dialect che³ lu²)
to tread/tram on: nap⁸(gently)
to hire to please: lai³
cut (tree): akte (Ch. duo⁴)
new: mi⁵
rotten: mu:rt⁷ ɲau⁴
clean/clear (water): liu¹
to air to dry: la: (outside the house)
aim: leu⁵
take notice: ø⁶
yellow: ma:n²
tilted: cuŋ¹
white: kwa³
knock: thak⁷
snatch loot: pit⁷
to shut (door): cek⁸
winnow (grain): ci:u¹
press: tjam²(passive)

(ii) Synonym pairs of Chinese origin:

pile: tui¹ (Ch. tui¹)
climb: pha:n¹(Ch. pan¹)
jab: thuŋ¹(Ch. tong²)
tie: ta:u² (Ch. tau²)

te³ (Chinese duo⁴)
na:i (Ch. re⁴)
tshe⁴ (from Ch. dialect che³ lu²)
isha:i³ (heavily) (from Ch. chai³)
θan¹ (Ch. xin¹)
la:n⁶ (Ch. lan¹)
la:ŋ⁴ (Ch. liang²)
mjue³ (Ch. miao⁴)
le⁶ (Ch. li³)
wu:ŋ³ (Ch. huang²)
cheu⁶ (Ch. qiao⁴)
pek⁸ (Ch. bai²)
kh:u¹ (Ch. qiao⁴)
θi:ŋ³ (Ch. qiang³)
sa:n¹ (Ch. shuan³)
j:i:ŋ³ (Ch. yang²)
ja:p⁷ (Ch. ya¹)

tjep⁸ (Ch. die²)
paŋ⁸ (Ch. ping²)
-tsok³ (Ch. chuo¹)
θuk⁸ (Ch. su²)
21.3. GRAMMAR

21.3.1. Word classes

21.3.1.1. Nouns

Nouns cannot be reduplicated except for those that can function as classifiers or measures. Examples: wan⁴wan⁴ ‘everyday, always’, pe⁴⁴pe⁴⁴ ‘every year, all years’.

When denoting a single entity, nouns may be modified by a bare measure word. Examples:

\[ \text{tsek}^8 \text{ u:n}^3 \text{ taŋ}^6 \text{ çu:ŋ}^1 \text{ tsø}^6 \text{ paŋ}^3 \text{ me}^2 \text{ pa}^3. \]

CLF bowl and pair chopsticks all have PART
‘There is a bowl and a pair of chopsticks.’

(Without the classifiers tsek⁸ and çu:ŋ¹ the sentence would mean more than one bowl and more than one pair of chopsticks.)

**Plurality** is expressed with the use of nouns along with plural classifiers like tså:i³ ‘group, flock’ and ni⁵ ‘some’. For example:

\[ \text{tså:i}^3 \text{ ða}^2\text{tø}^6 \text{ pø}^1 \text{ tok}^8 \text{ le}^1 \text{ pa}^2. \]

group child go read book PART
‘His children went to school.’

\[ \text{je}^2 \text{ la:u}^4 \text{ hjå:n}^1 \text{ ða:ŋ}^6 \text{ to}^2 \text{ ni}^7 \text{ ep}^7. \]
I inside house feed, raise ASP some duck
‘I’m raising some ducks in my house.’

Some nouns may take the prefixes ni⁴, lak⁴ to denote diminutive things (see 2.1. Derivation). ni⁴ and lak⁴ may also be used to indicate the sex of animals. Examples:

\[ \text{ni}^4\text{ma}^1 \quad \text{tak}^8\text{ma}^1 \quad \text{‘bitch’} \quad \text{‘male dog’} \]
\[ \text{ni}^4\text{ka:;}^5 \quad \text{tak}^8\text{ka:;}^5 \quad \text{‘hen’} \quad \text{‘rooster’} \]
\[ \text{θa:ŋ}^7\text{tak}^8 \quad \text{ljy}^2\text{tak}^8 \quad \text{‘male goat’} \quad \text{‘dragon’} \]

21.3.1.2. Personal pronouns

Chadong personal pronouns have both singular and plural forms. First person pronouns further distinguish between exclusive and inclusive forms.

<table>
<thead>
<tr>
<th>Person</th>
<th>Singular</th>
<th>Plural</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>je²</td>
<td>la:u¹(inclusive), lje¹ (exclusive)</td>
</tr>
<tr>
<td>2nd</td>
<td>ni²</td>
<td>cø³</td>
</tr>
<tr>
<td>3rd</td>
<td>mōn²</td>
<td>tje¹</td>
</tr>
</tbody>
</table>

Demonstrative pronouns na:i⁶ ‘this’ and ka⁵ ‘that’ are most common. Other forms include: kwa:i⁶ ‘this’, ui⁶ ‘that’, kui⁶ ‘that’. ui⁶ and kui⁶ refer to entities that are further away from the speaker than ka⁵. These demonstrative pronouns have different syntactic properties with different distributions. Basically na:i⁶ ka⁵ ui⁶ are placed after the nouns or classifiers they modify while kwa:i⁶ and kui⁶ go before the head word. Examples:
The Tai-Kadai Languages

21.3.1.3. Interrogative pronouns

Chadong interrogative pronouns are: *khau* ‘who’, *tsɔ* ‘what’; there are multiple forms for ‘where’: *laŋ* ‘where’, *la:* ‘where’, and *ji:* ‘where’; *ŋau* ‘how’; *kia* ‘how many’. As can be seen, *ŋau* as a basic interrogative element displays some interesting distribution properties. It can occur before the head element as with ‘where’, or after the head element as with ‘how’. Examples:

**kɔ̀  ai³  ha:m³  je²  pɔ¹  laŋ⁴  ŋau¹?**
brother you call me go where
‘Brother, where did you want me to go?’

**jy²kua³  pien³  kua⁶  ŋau¹  ɔa⁴  ca:γ²?**
if change  what  say?
If anything happens,  what would you say?’

21.3.1.4. Classifiers

The most common classifiers in Chadong are *ai* for humans, and *khay* for both animate and inanimate things. Classifiers can be reduplicated, with the meaning of ‘every’, ‘all’. For example:

**kwa:i⁶  tsa:i³  po⁴  khay⁴(6)  khay⁶  pay³  pi².**
this  flock  cow  CLF  CLF  all  fat
‘Every cow in this flock is fat/All cows in this flock are fat.’

As with other Kam-Tai languages, Chadong classifiers can be used alone as subjects or objects. For example:

**la:u¹  lo⁴lo⁴  taŋ⁵(1)  ɔa:i¹  lo²(1)la:k⁸,  ai¹  khay⁶**
we  everyone  come  share  fruit  CLF  CLF
‘We came and shared the fruits, and each of us got one.’

**kwa:i⁶  hja¹  ai¹  lɔ:n¹,  ai¹  tsɔ¹  u:n⁴.**
this  two  CLF  person  CLF  eat  bowl
‘These two guys each had a bowl (of rice).’

Likewise, modifying phrases with classifiers as heads may function as subjects and objects. Examples:

**kwa:i⁶  tsɔk⁵  nɔ:n³,  kui⁵  tsɔk⁷  kwe⁴  nɔ:n².**
this  CLF  good  that  CLF  no  good
‘This one is good, that one isn’t.’
je² tsɔ¹ əə¹ kwa:i⁶, ni² tsɔ¹ lɔk⁸ ko⁶
I eat small this you eat big that
‘I eat the small one, and you eat the big one.’

21.3.1.5. Numerals

21.3.1.5.1. Cardinals and ordinals

For the numbers from 1 to 10, see the Appendix at the end of the paper. In connected speech the numeral sap⁸ ‘ten’ is pronounced as səp⁸ or sə². The numbers for ‘hundred’, ‘thousand’ and ‘ten thousand’ are all borrowed from Chinese: pek⁷ ‘hundred’, əjen¹ ‘thousand’, wa:n⁶ ‘ten thousand’. Ordinals take the ordinal prefix te², also a Chinese (Modern Chinese di⁴). E.g. te²jɪt⁷ ‘first’, te² ni⁶ ‘second’, te² sap⁸ jɪt⁷ ‘eleventh’, te² əi³ sap⁸ ‘fortieth’.

The numerals ‘one’ and ‘two’ each have two forms in Chadong. For numbers below ten, or for higher numbers like ‘hundred’, ‘thousand’, ‘one’ and ‘two’ are represented by ji⁴ and hja¹ respectively. For numbers between eleven and twenty, ji⁴ ‘one’ and ni⁶ ‘two’ are used.

<table>
<thead>
<tr>
<th>Number</th>
<th>Pronunciation</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>ji⁴</td>
<td></td>
<td>‘one’</td>
</tr>
<tr>
<td>hja¹</td>
<td></td>
<td>‘two’</td>
</tr>
<tr>
<td>əa:m¹</td>
<td></td>
<td>‘three’</td>
</tr>
<tr>
<td>ni⁴ sap⁸</td>
<td></td>
<td>‘twenty’</td>
</tr>
<tr>
<td>ni⁴(⁶) sap⁸ jɪt⁷</td>
<td></td>
<td>‘twenty-one’</td>
</tr>
<tr>
<td>əa:m¹ sap⁸ ni⁶</td>
<td></td>
<td>‘thirty-two’</td>
</tr>
<tr>
<td>ji⁴ pek⁷ ləə jɪt⁷</td>
<td></td>
<td>‘one hundred and one’</td>
</tr>
<tr>
<td>hja¹ wa:n⁶</td>
<td></td>
<td>‘twenty thousand’</td>
</tr>
</tbody>
</table>

For ordinals, only jɪt⁷ and ni⁶ are used. ji⁴ and hja¹ cannot be used for ordinals.

When used as first digit with ‘hundred, thousand, ten thousand’, ‘one’ can be omitted. For example: pek⁷ ni⁶ ‘one hundred and twenty’.

The native word la:u⁶ ‘one’ appears to have given way to Chinese loans ji⁴ and jɪt⁷. la:u⁶ is now used with the meaning ‘the only one’. For example:

tje¹ kək⁸ ni⁴ tu⁶ tsi:k⁸ ya⁶ təi¹ tsi² pa⁷,  
they CLF mother also pass. hungry die go PART
səŋ⁸ lut⁴ mən² la:u⁶ ai¹ lən¹,  
remain below he single CLF person

‘His mother died of hunger and so he was left as an orphan.’

21.3.1.5.2. Approximation, multiplication and fraction

Approximation is expressed through the following elements: kak⁷ ‘one (or two)’ təə⁷ ‘a bit’, əi⁴ ‘a little bit, some’, ki¹ ‘several’.

The concept of ‘fold, time’ is expressed by poï⁶ (from Chinese bei⁴). For example:

hja¹ poï⁶ ‘double, two folds’; əa:m¹ poï⁶ ‘three times, three folds’.

Similarly, fractions are expressed through Chinese syntactic constructions, with the element zhi¹ ‘of’ omitted, or replaced with tsjem⁷, meaning ‘take, occupy’. Examples:

<table>
<thead>
<tr>
<th>Fraction</th>
<th>Pronunciation</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>əa:m¹ fən² jɪt⁷</td>
<td></td>
<td>‘one-third (lit. three share one)’</td>
</tr>
<tr>
<td>pek⁷ fən² tsjem¹ (⁶) sap⁸ yo⁴</td>
<td></td>
<td>‘fifteen one-hundredths’</td>
</tr>
</tbody>
</table>

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Cardinals cannot be reduplicated. But the approximation element etails ‘a bit’ can. For example:

\[\text{kwa}i^6 \text{khay}^4 \text{pa:n}^1 \text{ha:k}^8 \text{sey}^1, \text{ta}^7 \text{ta}^7 \text{ci}^4 \text{la:k}^8 \text{pi:k}^8.\]

this \text{CLF} class student bit bit be child female

‘Of the students in this class, only a handful are girls.’

21.3.1.6. Verbs

A number of tense-aspect markers are found in Chadong. A reciprocal prefix is found which denotes reciprocal action. Directional verbs can be reduplicated to designate repetition of an action.

Most tense-aspect markers are derived from lexical items. Most of these lexical items are not fully grammaticalized, with their lexical meanings and lexical tones often retained.

21.3.1.6.1. Completion

Completion is expressed through etails and etails immediately follows the verb it modifies while etails often occurs at the end of the sentence (very rarely in the middle of the sentence). For example:

\[\text{je}^2 \text{tsi}^4 \text{tu}^6 \text{pa}^2.\]

I eat ASP then go

‘I’ll go after I have finished my meal.’

\[\text{pe}^4(\mathrm{ki})^6 \text{k}^9 \text{nu}^4 \text{tok}^8 \text{le}^1 \text{pa}^2.\]

last year CLF y. sibling read book ASP

\(k^9\) is the weak form of \text{kok}^6, a general classifier for human being.)

‘Younger brother started school last year’

\[\text{m}^2 \text{phek}^7 \text{tsi}^4 \text{hja}^1 \text{cham}^2 \text{mi}^1 \text{pa}^2.\]

he clap ASP two clf. hand ASP

‘He clapped his hands twice.’

21.3.1.6.2. Past/experiential

The past/experiential can be expressed through the post-verbal marker etails, which is derived from the lexical verb meaning ‘to pass’. Sometimes, the element etails may also be used. For example:

\[\text{m}^2 \text{ta}^4 \text{ta}^6 \text{kwe}^4 \text{lam}^2, \text{pe}^4 \text{za}^2 \text{a}^5 \text{ta}^4.\]

he come ASP Guilin next year again come

‘He’s been here in Guilin before. He will come again next year.’

\[\text{hja}^1 \text{pe}^1 \text{ji}^4 \text{thetai}^2 \text{je}^2 \text{lay}^1 \text{tsi:k}^8 \text{m}^2 \text{ji}^4 \text{to}^6.\]

two year before I see ASP 3 sing. one time

‘I saw him once two years ago.’

21.3.1.6.3. Progressive/continuous

The progressive/continuous aspect is expressed through the post-verbal marker etails, e.g.: 
21.3.1.6.4. Temporary/transient
Temporary/transient meaning is expressed through pah⁴, derived from the lexeme pah⁴, meaning 'a while, a little'. This item is not fully grammaticalized. For example:

\[ \text{sit a while then can, able eat ASP} \]

\[ \text{‘Just sit for a little while and food will be ready (in a minute).’} \]

21.3.1.7. Reciprocal
Reciprocal meaning is expressed through the preverbal reciprocal marker tu⁴. Example:

\[ \text{hit still RECIP hit} \]

\[ \text{The two of them are hitting one another.’} \]

21.3.1.8. Verb complement
The word order for verb complement phrase in Chadong is V-C-O, which is different from that of other Kam-Tai dialects, where the order is V-O-C. For example:

\[ \text{hit dead ASP two CFL tiger} \]

\[ \text{‘He killed two tigers.’} \]

However, when the complement involves directional verbs, the order may be either V-O-C or V-C-O. Thus, the sentence ‘he brought a stick’ can be said in Chadong in two ways:

(a) \[ \text{take one CFL stick come} \]

\[ \text{he} \]

OR:

(b) \[ \text{take come one CFL stick} \]

\[ \text{he} \]

‘He brought a stick.’

Directional verbs can be reduplicated, denoting repetition of the action.

\[ \text{on/above street people come come go go} \]

\[ \text{‘People come and go in the street.’} \]

Quite a number of verbs take post-verbal descriptive elements to denote the state of the situation described by the verb in question. Most of these elements are disyllabic, some
onomatopoeic, while others have specific expressive functions. Quite often, a verb may take several such descriptive elements to denote different meanings. For example:

\[
\begin{align*}
\text{khau}^6 \, & \text{nau}^1 \, \text{nau}^1 \quad \text{pa:i}^3 \, \text{niu}^5 \text{niu}^5 \\
\text{bark} \quad & \text{DESCRIP} \quad \text{wag} \, & \text{DESCRIP} \\
'(of dogs) \quad & \text{to bark} \quad ' \text{to wag (the tail)}
\end{align*}
\]

\[
\begin{align*}
\text{jay}^6 \, & \text{nay}^6 \, \text{nay}^6 \quad \text{jay}^6 \, \text{wa}^3 \, \text{wa}^3 \\
\text{run} \quad & \text{DESCRIP} \quad \text{run} \, & \text{DESCRIP} \\
' \text{to run (individually)} \quad & ' \text{to run (in group)}
\end{align*}
\]

\[
\begin{align*}
\text{jay}^6 \, \text{pi:u}^1 \, \text{pi:u}^6 \quad \text{jay}^6 \, \text{kwe}^3 \, \text{kwe}^3 \\
\text{run} \quad & \text{DESCRIP} \quad \text{run} \, & \text{DESCRIP} \\
' \text{to run (fast)} \quad & ' \text{to run (very fast), to dash}'
\end{align*}
\]

21.3.1.9. Adjectives

Most adjectives can be reduplicated. E.g.:

\[
\begin{align*}
\text{kwa:i}^6 \, & \text{tsi}^1 \, \text{khun}^1 \, \text{wa:n}^1 \, \text{wa:n}^1 \, \text{tsi:k}^6 \\
\text{this} \, & \text{clf. road} \, \text{winding} \, \text{winding} \, \text{PART} \\
' \text{This road is extremely winding.}'
\end{align*}
\]

When used as modifiers, adjectives follow the head noun they modify. E.g.:

\[
\begin{align*}
\text{ja}^2(\text{i}) \, & \text{lak}^8 \, \text{ji}^4 \, \text{kjen}^6 \, \text{kuk}^7 \, \text{fa}^1 \, \text{mi}^5 \\
\text{field} \, & \text{big} \, \text{one} \, \text{clf. garment} \, \text{flower} \, \text{new} \\
' \text{big field}' \quad & ' \text{a new patterned garment}'
\end{align*}
\]

The majority of adjectives take idiosyncratic expressive elements, indicating changes in degree or state. Such descriptive or expressive elements may be monosyllabic or disyllabic. Reduplicated monosyllabic descriptive elements may be used to describe the intensity of the sound, or the degree of a state. A small number of adjectives may have infixing elements. The post-verbal descriptive/expressive element often shares the same phonetic series with the adjective it modifies. Apart from reduplication, these post-verbal elements may have similar initials and finals. The meaning of descriptive elements of this kind is often more difficult to pinpoint than those of verbs. Only a handful of adjectives may have differentiating suffixes in order to distinguish the subtle differences in meaning. For example:

\[
\begin{align*}
\text{nam}^1 \, & \text{o}^2 \, / \, \text{kay}^2 \, \text{nam}^1 \, \text{k\sigma^\theta\lambda^2\ell^3} \\
\text{black}, \, & \text{dark} \, \text{DESCRIP} \, \text{dark} \, \text{DESCRIP} \\
'(of sky) \, & \text{dark}' \quad & '(of people) \, \text{dark (skin)}'
\end{align*}
\]

\[
\begin{align*}
\text{ma:n}^5 \, & \text{mo}^2 \, \text{ma:n}^5 \, \text{mo}^2\text{mo}^4 \\
\text{slow} \, & \text{DESCRIP} \, \text{slow} \, \text{DESCRIP} \\
' \text{very slow}' \quad & ' \text{exceptionally slow}'
\end{align*}
\]

\[
\begin{align*}
\text{lan}^1 \, & \text{lan}^4 \, \text{lan}^6 \, \text{tiay}^6 \, \text{mek}^6 \, \text{me}^3 \\
\text{red} \, & \text{DESCRIP} \, \text{full}, \, \text{filled} \, \text{DESCRIP} \\
' \text{very red}' \quad & ' \text{extremely full}'
\end{align*}
\]
Chadong adjectives generally modify nouns by following the head. However, they may occur before nouns when the structural particle $ti^4$ is used. This phenomenon is rare among the Tai-Kadai languages. Example:

-na³ ha:jn⁴ me³ ji⁴ kun⁶ wu:y¹ cha:y⁶ ti⁴ mi⁴.  
front house have one CLF tall DESCRIP PART tree  
‘There is a very tall tree in front of the house.’

21.3.1.10. Adverbs

As modifiers, adverbs often occur before verbs and adjectives, with a few exceptions. Among the most common postverbal adverbs are kun⁵ ‘before, first’, lim² ‘after(wards).’ Note, that, the Chinese loan $\theta$$ien^1$ ‘first, before’ occurs pre-verbally.

-na² sa:m³ kun⁵.  
you walk/go before.  you before walk/go  
‘You go first.’

The negative adverb $kwe^3$ is often represented in its weak form $k\sigma^2$ except when occurring in sentence initial position or when emphasized. Example:

-ca:y¹ tshu³ $\theta$a:i¹ kok⁸ k\sigma^4 la:i⁴ $\lambda$ay¹.  
speak ugly give CLF not good look  
‘I’m going to talk about something nasty to embarrass you.’

21.3.1.11. Prepositions

The majority of prepositions in Chadong are derived from verbs. Some are borrowed from Chinese. Examples of some of the most common prepositions are: $\theta$$eu^1$ ‘taking (disposal)’, na:u⁶ ‘at, in (locative)’, the⁵ ‘for (beneficiary)’, a:u¹ ‘make’ (causative), $njey^6$ (causative), ta$^{64}$ (across), tso$^2$.. $\theta$$au^6$ ‘from…to… (duration)’, $\theta$$a^4$ ‘from’. E.g.:

-na³ $\theta$$eu^1$ la:m¹ tsau⁴ ts$\sigma$² $\lambda$ay¹.  
he taking basket take ascend come  
‘He lifted the basket.’

-tje¹ ku¹ a:u¹ na³ $\lambda$an⁶ $\lambda$an⁶ $\lambda$ay¹ po$^4$.  
3 pl. aunt make 3 sing. day day herd cow  
‘His aunt makes him herd cows every day.’
21.3.1.12. Conjunctions

Common conjunctions include: la:u⁴ tan⁶ ‘and, with’, ji⁴…tu⁶ ‘as soon as…’, ‘no sooner… than…’, jy⁶…jy⁶… ‘the more… the more…’, hot⁴tse³, hop⁶so⁶ ‘or’; jin⁴wi⁶… so⁶ji⁵ ‘because…therefore’, kσ²ta:n¹…σ²tsje⁴ ‘not only… but also’ jy⁶ku⁶…tu⁶… ‘if…then’.

21.3.1.13. Subordinators

Two subordinators, ti⁴² and lai⁴, are found in Chadong. Their usage is similar to that of the Chinese de (nominalizer) and de² (verb complementizer) respectively, with ti⁴ corresponding to Chinese de, and lai⁴ to Chinese de². Lai⁴ can also function as a lexical verb meaning ‘get, obtain’. Examples:

na:u⁶ mə⁴tsej⁴ ti⁴ ci²hau⁶, ...

at Ming Dynasty SUB time
‘During the Ming times, …’

na:i⁶ kwa:i⁶ ci⁴ ni² pən⁴ ki² ca:γ³ ti².

This CLF be you self say NOM
‘This is what you said.’

to²kuγ¹ laγ¹ lai⁴ tən² mən².

shaman look SUB up 3 sing.
‘The shaman has great respect for him.’

21.3.1.14. Discourse particles

Like many Kam-Tai languages, Chadong is rich in discourse particles, which can express certain modal meanings. Common discourse particles in Chadong include pa⁵ (assertive, which may also function as aspect marker, indicating completion; ma⁶ (yes-no question particle); kσ²θaγ³ (alternative question particle), pa¹ (mild request), among others. For example:

pa⁵ hja:n¹ ji⁴kin¹ θiu¹ nən² pa².

uncle house already build good PART
‘Uncle’s house has been already been built.’ / ‘The construction of Uncle’s house is completed.’

ni² pə¹ ta⁶ pak’kiŋ¹ ma⁶ ?

2 sing. go ASP Beijing PART
‘Have you been to Beijing?’

mən² pə¹ tsi⁴ kσ²θaγ³?

3 sing. go ASP PART
‘Has he left or not?’

ha:m³ mən² pə¹ kan¹ tje¹ ku¹ pa¹.

tell 3 sing. go with 3 plural aunt PART
‘Tell him to live with his aunt.’
21.4. WORD ORDER

The basic word order of Chadong is similar to that of other Tai-Kadai languages, that is, Subject-Verb-Object. Adjectives and adverbs may come before the head word, or after it, depending on their syntactic behaviours and semantic properties. Below we describe several common syntactic patterns that are characteristic of Chadong.

21.4.1. Modification of nouns and classifiers

Nouns are often modified by adjectives, pronouns, measure words, other nouns, numeral-classifier phrases or other modifier phrases. Classifiers take adjectives, pronouns, numerals and demonstratives as their modifiers.

Adjectives and demonstrative pronouns usually follow the head nouns (see PRONOUNS). Other modifiers normally precede the head noun.3 For example:

\[
\begin{align*}
\text{classifiers} & \quad \text{modifiers} \\
\text{kuk}^7 & \quad \text{fa}^1 \quad \text{lop}^1 & \quad \text{lak}^8 \\
\text{clothes} & \quad \text{flowery} & \quad \text{wind} & \quad \text{big} \\
\text{ta:i}^6 & \quad \text{kin}^2 & \quad \text{tje}^1 & \quad \text{ku}^1 \\
\text{sister} & \quad \text{skirt} & \quad \text{they} & \quad \text{aunt} \\
\text{a}^3 & \quad \text{ljug}^5 & \quad \text{ly}^3 & \quad \text{kha}^6 & \quad \text{pi}^2 & \quad \text{hja}^1 \\
\text{three} & \quad \text{CLF} & \quad \text{house} & \quad \text{CLF} & \quad \text{fat} & \quad \text{two} \\
\hline
\text{Directional words} & \quad \text{take nouns as heads, with the directional words preceding the nouns. For example:}
\end{align*}
\]

\[
\begin{align*}
\text{ju}^1 & \quad \text{co}^3 & \quad \text{kha}^3 & \quad \text{ca:i}^6 \\
\text{above} & \quad \text{head} & \quad \text{below} & \quad \text{world} & \quad \text{at the foot of the mountain} \\
\text{la:u}^4 & \quad \text{mi}^4 \text{ljug}^2 & \quad \text{na}^3 & \quad \text{hja:n}^1 \\
\text{inside} & \quad \text{forest} & \quad \text{front} & \quad \text{house} & \quad \text{in front of the house} \\
\text{lim}^2 & \quad \text{ta:i}^2 & \quad \text{kuj}^4 & \quad \text{pa:n}^4 \\
\text{behind} & \quad \text{table} & \quad \text{beside} & \quad \text{village} & \quad \text{at the side of the village} \\
\hline
\text{When multiple modifications are involved, the order is:} & \quad \text{‘classifier – demonstrative pronoun – noun – adjective’, or ‘demonstrative pronoun – (numeral) classifier – noun – adjective’. For example:}
\end{align*}
\]

\[
\begin{align*}
\text{ai}^1 & \quad \text{na:i}^6 & \quad \text{lop}^1 & \quad \text{ju}^1 \\
\text{CLF} & \quad \text{this} & \quad \text{person} & \quad \text{thin/skinny} \\
\end{align*}
\]

3 These may have been recent innovations, as in some compounds, modifiers typically follow the head.

Cf. \text{lom}^4 \text{la}^1 ‘water-eye – tears’, \text{ce}^4 \text{hja}^1 ‘excrement-ear – ear wax’.
For numeral classifier constructions involving demonstrative pronouns, the structure may be either ‘pronoun – numeral – classifier’ or ‘numeral – classifier – pronoun’. For example:

\[
\text{kwa}:i^6 \ (\text{kui}^6) \ y\text{o}^4 \ a\text{i}^1 = y\text{o}^4 \ a\text{i}^1 \ na:i^6 \ (k\text{a}^5)
\]

‘these (those) five people’

\[
\text{ni}^4 \ f\text{a}i^5 \ l\text{a}^8 \ t\text{a}^6 \ n\text{je}^2 k\text{a}:\text{y}^1.
\]

‘The sun is bigger than the moon.’

Influenced by Chinese syntax, this sentence may also be said as:

\[
\text{ni}^4 \ f\text{a}i^5 \ p\text{i}^3 \ n\text{je}^2 k\text{a}:\text{y}^1 \ l\text{a}^8.
\]

‘The sun is bigger than the moon.’
## APPENDIX

Chadong basic vocabulary

<table>
<thead>
<tr>
<th>English</th>
<th>Chadong</th>
</tr>
</thead>
<tbody>
<tr>
<td>alcohol</td>
<td>kha:u³</td>
</tr>
<tr>
<td>alive</td>
<td>chu³</td>
</tr>
<tr>
<td>all</td>
<td>thu³(m) sən¹</td>
</tr>
<tr>
<td>and, with</td>
<td>la:u¹, taf⁶</td>
</tr>
<tr>
<td>animal</td>
<td>ja³na:n⁴</td>
</tr>
<tr>
<td>ant</td>
<td>ni⁴mə⁸</td>
</tr>
<tr>
<td>ash</td>
<td>fuk⁷</td>
</tr>
<tr>
<td>back</td>
<td>ta⁴la:i¹</td>
</tr>
<tr>
<td>back, behind</td>
<td>lim²</td>
</tr>
<tr>
<td>bad</td>
<td>fa:i⁶</td>
</tr>
<tr>
<td>bamboo</td>
<td>fan¹</td>
</tr>
<tr>
<td>bark (of tree)</td>
<td>mi⁴pi²</td>
</tr>
<tr>
<td>bean</td>
<td>tau⁶</td>
</tr>
<tr>
<td>bear (animal)</td>
<td>kau⁴juŋ⁷</td>
</tr>
<tr>
<td>beard</td>
<td>nu:i⁸</td>
</tr>
<tr>
<td>because</td>
<td>jin⁶wi⁶</td>
</tr>
<tr>
<td>bee</td>
<td>mit⁸</td>
</tr>
<tr>
<td>before, front</td>
<td>na³</td>
</tr>
<tr>
<td>belly, stomach</td>
<td>lus²</td>
</tr>
<tr>
<td>big</td>
<td>los⁸</td>
</tr>
<tr>
<td>bird</td>
<td>nok⁸</td>
</tr>
<tr>
<td>bite</td>
<td>cit⁸</td>
</tr>
<tr>
<td>bitter</td>
<td>kəm¹</td>
</tr>
<tr>
<td>black</td>
<td>nam¹</td>
</tr>
<tr>
<td>blood</td>
<td>phjaːt⁷</td>
</tr>
<tr>
<td>blow</td>
<td>tshy¹</td>
</tr>
<tr>
<td>body</td>
<td>lən²</td>
</tr>
<tr>
<td>bone</td>
<td>kut⁷</td>
</tr>
<tr>
<td>boy</td>
<td>la:k⁹hau²</td>
</tr>
<tr>
<td>breast</td>
<td>pu⁶</td>
</tr>
<tr>
<td>breathe</td>
<td>theu¹</td>
</tr>
<tr>
<td>buffalo</td>
<td>kwai²</td>
</tr>
<tr>
<td>burn</td>
<td>ta:u³</td>
</tr>
<tr>
<td>butterfly</td>
<td>ni⁴pa⁴</td>
</tr>
<tr>
<td>catch</td>
<td>bap⁷</td>
</tr>
<tr>
<td>cave</td>
<td>gaːm³</td>
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<td>chest</td>
<td>na³tak⁷</td>
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<tr>
<td>chicken</td>
<td>ka:i⁵</td>
</tr>
<tr>
<td>child</td>
<td>lən¹(⁵)ni⁴</td>
</tr>
<tr>
<td>Word</td>
<td>Pronunciation</td>
</tr>
<tr>
<td>---------------</td>
<td>---------------</td>
</tr>
<tr>
<td>chop</td>
<td>te⁵, ɲak⁷</td>
</tr>
<tr>
<td>claw</td>
<td>tsa:u¹</td>
</tr>
<tr>
<td>cloth</td>
<td>i¹</td>
</tr>
<tr>
<td>cloud</td>
<td>fa³</td>
</tr>
<tr>
<td>cockroach</td>
<td>ʔo⁴ka:p⁷</td>
</tr>
<tr>
<td>cold</td>
<td>ɲo¹, ɲit⁷</td>
</tr>
<tr>
<td>come</td>
<td>taj¹</td>
</tr>
<tr>
<td>copper</td>
<td>toj²</td>
</tr>
<tr>
<td>correct (adj.)</td>
<td>toi⁵</td>
</tr>
<tr>
<td>count</td>
<td>jai⁵</td>
</tr>
<tr>
<td>cow</td>
<td>po⁴</td>
</tr>
<tr>
<td>crab</td>
<td>mi⁴cai⁶</td>
</tr>
<tr>
<td>crack</td>
<td>phik²</td>
</tr>
<tr>
<td>daughter</td>
<td>la:k⁸pi:k⁸</td>
</tr>
<tr>
<td>day</td>
<td>wan¹</td>
</tr>
<tr>
<td>deep</td>
<td>jam¹</td>
</tr>
<tr>
<td>deer</td>
<td>sa:n⁴pa¹</td>
</tr>
<tr>
<td>die</td>
<td>tai¹</td>
</tr>
<tr>
<td>dig</td>
<td>kwa:t⁷</td>
</tr>
<tr>
<td>dike</td>
<td>we¹</td>
</tr>
<tr>
<td>dirty</td>
<td>wa⁵</td>
</tr>
<tr>
<td>dog</td>
<td>ɲa¹</td>
</tr>
<tr>
<td>drink</td>
<td>tsə¹, su:k⁷</td>
</tr>
<tr>
<td>dry</td>
<td>hjoe¹</td>
</tr>
<tr>
<td>duck</td>
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</tr>
<tr>
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<td>phuŋ⁷</td>
</tr>
<tr>
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<td>lo⁴jiu⁶</td>
</tr>
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<td>ear</td>
<td>pe⁴khja¹</td>
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<tr>
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<td>ne⁴zan⁴</td>
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<td>eat</td>
<td>tsə¹</td>
</tr>
<tr>
<td>egg</td>
<td>cai⁵</td>
</tr>
<tr>
<td>eight</td>
<td>pa:t⁷</td>
</tr>
<tr>
<td>elder brother</td>
<td>fa:i⁴</td>
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<td>elder sister</td>
<td>ta:i⁶</td>
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<td>evening</td>
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<td>excrement</td>
<td>ce⁴</td>
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<td>eye</td>
<td>la¹</td>
</tr>
<tr>
<td>face</td>
<td>na³</td>
</tr>
<tr>
<td>fall, drop</td>
<td>tok⁷</td>
</tr>
<tr>
<td>far</td>
<td>ci¹</td>
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<tr>
<td>fart</td>
<td>toet⁷</td>
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<tr>
<td>fat</td>
<td>man²</td>
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<tr>
<td>CHADONG, A NEWLY-DISCOVERED KAM-SUI LANGUAGE IN NORTHERN GUANGXI</td>
<td>615</td>
</tr>
<tr>
<td>---------------------------------------------------------------</td>
<td>--</td>
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<tr>
<td>father</td>
<td>$ti^2$</td>
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<td>fear, afraid</td>
<td>$khwi^1$</td>
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<tr>
<td>fear, afraid</td>
<td>$kwi^1$</td>
</tr>
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<td>female organ</td>
<td>$ku^4+t$s$^6$</td>
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<td>fight</td>
<td>$sek^7+kja^4+\theta\alpha^2$</td>
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<tr>
<td>fire</td>
<td>$wi^1$</td>
</tr>
<tr>
<td>fish</td>
<td>$m\varepsilon^6$</td>
</tr>
<tr>
<td>fish gill</td>
<td>$njai^6$</td>
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<td>five</td>
<td>$\varrho^4$</td>
</tr>
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<td>float</td>
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<tr>
<td>flow</td>
<td>$tshy^1$</td>
</tr>
<tr>
<td>flower</td>
<td>$fa^1$</td>
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<td>fly (n.)</td>
<td>$ni^4+nj\nu^4$</td>
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<td>fly (v.)</td>
<td>$pi\nu^3$</td>
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<td>fog</td>
<td>$mu^1+\nu^1+\prime j^i+\prime n^1$</td>
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<td>foot</td>
<td>$ti^n^1$</td>
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<td>forehead</td>
<td>$na^2+pja:k^7$</td>
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<td>forest</td>
<td>$mi^2(+\prime lju^3$</td>
</tr>
<tr>
<td>four</td>
<td>$\theta i^5$</td>
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<tr>
<td>freeze</td>
<td>$kau^6+sy^2+po^2+lja:+\prime f^6$</td>
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<tr>
<td>frog</td>
<td>$k\varepsilon^7$ (big); $kwa^2$ (small)</td>
</tr>
<tr>
<td>fruit</td>
<td>$lo^4+la:k^8$</td>
</tr>
<tr>
<td>full</td>
<td>$tik^7$</td>
</tr>
<tr>
<td>gallbladder</td>
<td>$lo^6$</td>
</tr>
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<td>girl</td>
<td>$la:k^8+\theta\alpha\prime$</td>
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<td>give</td>
<td>$\theta\alpha^i^1$</td>
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<tr>
<td>gold</td>
<td>$cim^1$</td>
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<td>good</td>
<td>$n\varepsilon^2$</td>
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<tr>
<td>gourd</td>
<td>$lu^1$</td>
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<td>grandpa</td>
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<td>grass</td>
<td>$ca^1$</td>
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<td>he</td>
<td>$m\varepsilon^2$</td>
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<td>head</td>
<td>$co^3$</td>
</tr>
<tr>
<td>head hair</td>
<td>$pjam^1$</td>
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<td>hear</td>
<td>$ni^i+tsjek^8$</td>
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<tr>
<td>heart</td>
<td>$\theta\alpha^m+t\tau^2$</td>
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<tr>
<td>heavy</td>
<td>$lan^1$</td>
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</table>
here  ηe⁶
hill  pja⁴ (rocky), ca:i⁶ (earth)
hit  wak⁷
home  hj:i:n⁴
horn  jx:i⁴
horse  ma⁴
hot  ni:i⁸, tu:i¹
how  ηau¹θai⁴
hunt  ts:n⁴ (♂)na:n⁴
husband  pa:n¹
I  je²
ice  θy²po²jia:y⁵
if  jy²ku³
insect  ni⁴ta¹
intestine  θa:i³
iron  thjet⁷
jab  tsok⁸
kill  ha¹ (chicken), ha³ (people)
knee  co³ko⁶
knife  pja³
know  hjo⁴
lake/pond  toj²
laugh  cy¹
leaf  fa³
leech  ni³pi⁷
left  θo³
less  sjue³
level, flat  pe³
lie down  jia:i³
light (weight)  la³
liver  tap⁷
long  ja:i³
look for  len¹
louse  nan²
love  ma⁴
lower leg  luu²ki³
lung  fe⁶
male organ  ku⁴ni⁶
man  ti³pa:n¹
many, much  cu:²
marrow  jvi²
meat, flesh  na:n⁴
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<thead>
<tr>
<th>English</th>
<th>Kam-Sui</th>
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<tr>
<td>mend, sew</td>
<td>fa:ŋ’</td>
</tr>
<tr>
<td>middle</td>
<td>tu’ia’</td>
</tr>
<tr>
<td>monkey</td>
<td>ma’leu’</td>
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<tr>
<td>month</td>
<td>ṭwet’</td>
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<tr>
<td>moon</td>
<td>nje:ŋ’ka:ŋ’</td>
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<td>mosquito</td>
<td>ni’ta’ne’</td>
</tr>
<tr>
<td>mother</td>
<td>ni’</td>
</tr>
<tr>
<td>mouth</td>
<td>pa:ŋ’</td>
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<tr>
<td>name</td>
<td>la:n’</td>
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<td>ṣa:p’</td>
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<td>wan’</td>
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<td>new</td>
<td>ṃi’; əm’</td>
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<td>nine</td>
<td>cu’</td>
</tr>
<tr>
<td>no, not</td>
<td>kwe’</td>
</tr>
<tr>
<td>nose</td>
<td>naŋ’</td>
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<tr>
<td>old, aged</td>
<td>la:u’</td>
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<td>one</td>
<td>jì’; jì’</td>
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<td>khun’</td>
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<tr>
<td>pig</td>
<td>ṃu’</td>
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<td>play</td>
<td>lof’; ²fe’; ³lo’</td>
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<td>prawn</td>
<td>ni’ŋa:ŋ’; ni’cь’</td>
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<td>press</td>
<td>əp’; tjam’</td>
</tr>
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<td>pull</td>
<td>ka:k’; ɔai’</td>
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<td>rain</td>
<td>əm’</td>
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<td>rat</td>
<td>ni’ŋo’</td>
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<td>red</td>
<td>ɔan’</td>
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<td>rice</td>
<td>²u’</td>
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<td>rice field</td>
<td>ja’</td>
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<td>rice seedling</td>
<td>ce’</td>
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<td>right</td>
<td>ju’</td>
</tr>
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<td>river</td>
<td>ni’</td>
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<td>root</td>
<td>tsha’</td>
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<td>rope</td>
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<td>rotten, rot</td>
<td>map’</td>
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<td>lu:n’</td>
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<td>roundworm</td>
<td>ni’pəe’</td>
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<td>salt</td>
<td>kə’</td>
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<tr>
<td>sand</td>
<td>khįŋ’</td>
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<tr>
<td>sea</td>
<td>hai’</td>
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<td>English</td>
<td>Tai-Kadai</td>
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<td>--------------</td>
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<tr>
<td>see</td>
<td>laj'tsjek^8</td>
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<td>seed</td>
<td>pən^3</td>
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<td>ga^1</td>
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<td>shallow</td>
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<td>sheep</td>
<td>zo^2</td>
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<td>shoe</td>
<td>ha:i^2</td>
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<td>short</td>
<td>la:n^4</td>
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<td>shoulder</td>
<td>co^4 (')ha^1</td>
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<tr>
<td>silver</td>
<td>tan^2</td>
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<td>sing</td>
<td>tshi:i^6</td>
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<td>sit</td>
<td>zu:i^6</td>
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<td>six</td>
<td>ljok^8</td>
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<td>skin</td>
<td>pi^2</td>
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<td>sky</td>
<td>pən^2</td>
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<td>smell</td>
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<td>smoke</td>
<td>kwan^2</td>
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<tr>
<td>snake</td>
<td>zy^2</td>
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<tr>
<td>snow</td>
<td>cu^5</td>
</tr>
<tr>
<td>soil</td>
<td>khən^5</td>
</tr>
<tr>
<td>son, child, offspring</td>
<td>la:k^8</td>
</tr>
<tr>
<td>sour</td>
<td>θam^3</td>
</tr>
<tr>
<td>speak</td>
<td>ca:y^3</td>
</tr>
<tr>
<td>spicy, hot</td>
<td>jien^6</td>
</tr>
<tr>
<td>spider</td>
<td>tak^8 məm^4</td>
</tr>
<tr>
<td>spit out</td>
<td>phə^3</td>
</tr>
<tr>
<td>stab</td>
<td>tsok^8</td>
</tr>
<tr>
<td>stand</td>
<td>jyn^1</td>
</tr>
<tr>
<td>star</td>
<td>zən^4 θai^3</td>
</tr>
<tr>
<td>stay, (to be) at</td>
<td>na:u^6</td>
</tr>
<tr>
<td>stick</td>
<td>kun^5</td>
</tr>
<tr>
<td>stone</td>
<td>ty^2</td>
</tr>
<tr>
<td>straight</td>
<td>θi:i^7</td>
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<tr>
<td>stupid</td>
<td>pan^6</td>
</tr>
<tr>
<td>suck</td>
<td>sa:k^2</td>
</tr>
<tr>
<td>sun</td>
<td>ni^4 fai^5</td>
</tr>
<tr>
<td>sweet</td>
<td>fa:n^1</td>
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<tr>
<td>swim</td>
<td>θe:u^2</td>
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<tr>
<td>swollen</td>
<td>fok^7</td>
</tr>
<tr>
<td>tail</td>
<td>sət^7</td>
</tr>
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</table>
take $tsau^4$
taro $i:k^7$
ten $s\breve{a}p^8$
that $ka^5$
thatch grass $hi^1$
there $kui^4t\breve{a}:u^3$
they $tje^1$
 thick $na^1$
thin $pa:\tilde{e}^2$
think $\Thetai:\tilde{e}^7$
this $na:i^6$
thorn $lun^1$
three $\Thetaa:m^1$
throw $cha:u^5$
thunder $fa^2k\breve{e}m^4$
tie up $\Thetauk^8$
tiger $tak^8m\breve{e}m^4$
tongue $ma^2$
tooth $pjan^1$
tree $mi^4$
turn, spin $tsy:n^5$
two $hja^1,mi^6$
upland field $hon^1\breve{t}i^6$
upper garment $kuk^7$
vegetable $ma^1$
village $pa:n^4$
vine $taf^2$
vomit $lok^7$
waist $jiu^1$
walk $sa:m^3$
wash $luk^7$
water $\breve{n}am^3$
we $lje^1$
wet $jak^7$
what $ta^9m\breve{e}^5$
where $lau^4\breve{n}au^1$
white $kwa^3,pek^8$
who $khau^1$
wide $khu:t^7$
wife $ma:i^4$
wind $\breve{z}m^1$
wing $hwa^5$
wipe $s\check{a}t$
woman $ti'pi:k$
yam, sweet potato $wu:\check{g}su$
year $pe$
yellow $ma:n$, $wu:gi$
you (pl.) $\check{a}e$
you (sing.) $ni$
younger brother $nu\check{g}$
younger sister $mai$

ACKNOWLEDGEMENTS

A shorter version of this chapter appeared in Chinese in Li (2001). The author has benefited from the insights of Wang et al (1984) in writing this chapter.

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PART 6

HLAI (LI) AND KRA (KADAI) LANGUAGES
CHAPTER TWENTY-TWO

THE HLAI LANGUAGE

Weera Ostapirat

22.1. INTRODUCTION

The Hlai language group consists of several varieties that are spoken in the south-central part of Hainan island, China. Since 1952, this area has been designated the Hainan Li-Miao Autonomous Prefecture consisting of eight counties: Changjiang, Dongfang, Ledong, Yaxian, Lingshui, Baoting, Qiongzhong, and Baisha. With a population of over one million (1,110,900 people, according to the 1990 census), the ethnic Hlai constitute more than half of the overall inhabitants of the prefecture. Nowadays, they are also found in adjacent counties such as Danzhou, Wanning, Qionghai, Tunchang, and Ding’an in the north and east of the prefecture. Historically, Hlai people are believed to have lived on the island long before other ethnic groups such as the Miao (linguistically Mun or a Yao group), the Han (Chinese) and the Be (a Kra-Dai group) migrated to the island over the course of the last millennium.

The Hlai language belongs to the Kra-Dai language family, which includes related language groups such as Tai, Kam-Sui, and Kra. As most ethnic Kra-Dai people are found in southern China and mainland Southeast Asian areas, it is natural to think that the Hlai ancestors also once lived on the mainland. Yet it is difficult to determine when they migrated to Hainan. Nonetheless, from the fact that the Hlai languages show little of the early Chinese influence that overwhelmed the Tai and Kam-Sui groups as a consequence of the Qin-Han expansion into southern China (ca 3rd-2nd century BC), we may assume that, at least by that time, the Hlai people must have already crossed (or have started to cross) to the island. They probably arrived on the western/southern shores of Hainan from Northern Vietnam and adjacent coastal areas by traveling across the Gulf of Tonkin.

The central area of Hainan hosts clusters of mountain ranges including the Wuzhishan (Five Finger Mountain), the highest peaks on the island. From these mountains and hills, rivers radiate down toward the sea. Several Hlai centers are found along these river courses; for instance, Baoding on the bank of Changhua River in Ledong county, Baisha near the Nandu River in Baisha county, and Heitu near the Ningyuan river in Yaxian. Major Hlai expansions after this early history must have first followed along such river basins and valleys as well as across the coastal areas.

‘Hlai’ is a typable form of the autonym phonetically pronounced [lai]. This is the term used by the majority of Hlai people and may also mean ‘men, people’. In China, this people group is known as ‘Li’; the name is said to have been referred in Chinese historical records since the Han Dynasty two millennia ago (Henri 1886: 391). Several variants of the sort Lai, Loi, Le, are also attested in literature of the late 19th and early 20th centuries.1 In the southern Hlai dialects, the autonym is pronounced [dai], e.g. in Savina’s (1931) Ðay dialect and in Ouyang and Zheng’s (1983) Heitu dialect. This initial d- of southern Hlai and elsewhere is a regular correspondence. For example:

<table>
<thead>
<tr>
<th></th>
<th>Heitu</th>
<th>Baoding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hlai</td>
<td>dai434</td>
<td>ꩀai53</td>
</tr>
<tr>
<td>tongue</td>
<td>di:n11</td>
<td>ꩀi:n11</td>
</tr>
<tr>
<td>blood</td>
<td>da:t45</td>
<td>ꩀat55</td>
</tr>
</tbody>
</table>

1 Other more complex variants include s’lai, s’ai, b’lai, b’li, dli, k’lai, hiai, etc.
There were some early attempts to link the term ‘Hlai [lai]’ with other ethnic names in order to support a relationship between Hlai and those respective groups. For instance, Henri (1886: 482) noted that ‘They (Les = Hlai) add a labial when speaking of themselves, and say b’lai, b’lay, etc.’ He then related b’lai to Malay, the name of a well-known Austronesian group. Benedict (1975: 336) further attempted to relate the term Hlai with almost all ethnic names under his Austro-Thai family. He linked Hlai not only to Malay but also to the terms Thai, Yay (Tai groups of Kd family), Kelao, Kabeo (Kra groups of Kd family), and various ethnonyms of the Miao-Yao language groups. As far as linguistic evidence is concerned, such linkages remain mere speculations.

The name ‘Li’ and its variants were sometimes also used to refer to the Be people and language in early references. This usage reflects the fact that, at times in the past, the ethnic Be were labeled in Chinese 熟黎 Shúlí ‘the tamed Li’, whereas the 生黎 Shēnglí ‘the wild Li’ referred to the ethnic Hlai. For instance, the languages called K’iung-Shan Li (Parker 1890), Dam-Chiu Loi and Lim-Ko Loi (Jeremiassen 1892) are, in fact, the Be dialects spoken in those respective counties of present-day Qiongshan, Danzhou (or Danxian) and Lingao on the northern plains of Hainan. Though of the same stock, Hlai and Be constitute linguistically two separate groups within the Kra-Dai family. (For the lexical and phonological characteristics that define the Hlai group, see section 22.2.2)

22.2. HLAI PHONOLOGY AND LEXICONS

22.2.1. Hlai word structure

Hlai languages are monosyllabic and tonal. The canonical structure of a syllable consists of an initial consonant (C_i), a vowel (V), and a tone (T). The medial and final consonants (C_m and C_f) are optional.

\[
T \quad C_i (C_m)V (C_f)
\]

Examples:

<table>
<thead>
<tr>
<th>Word</th>
<th>Baoding</th>
<th>Syllable forms</th>
</tr>
</thead>
<tbody>
<tr>
<td>dog</td>
<td>pa⁵³</td>
<td>CV^T</td>
</tr>
<tr>
<td>uncover</td>
<td>pla⁵⁵</td>
<td>CCV^T</td>
</tr>
<tr>
<td>mouth</td>
<td>pom¹¹</td>
<td>CVC^T</td>
</tr>
<tr>
<td>house</td>
<td>plon¹¹</td>
<td>CVC^T</td>
</tr>
</tbody>
</table>

22.2.1.1. Tones

A number of Hlai dialects have three tones in syllables that end with a vowel or a sonorant, plus another tone in syllables that end in a stop. These are reflexes of a system of three-plus-one tones in Proto-Hlai (PH), which can be symbolized as *A, *B, *C (non-stopped tones) and *D (stopped tone). Depending on the dialect, the pitch value of a stopped tone may be identical to the value of a non-stopped tone. Some Hlai dialects split

---

2 Since no Hlai varieties have the voiced aspirated stop [bh], what Henri wrote as b’ probably represented [ph]. The form b’lai [phlai] can simply be the fusion of two syllables; [pha] ‘male, men’ and the ethnonym [lai]. Note the following Hlai phrases referring to ‘person’ where [pha] is often used [pha tōk] ‘deaf person’, [pha pla]l ‘blind person’, [pha fen] ‘good person’, etc.

3 Literally, shú = ‘ripe/cooked’ and shēng = ‘raw’. These terms were often applied to ethnic names in China since ancient times and partially reflex the relative degrees of Chinese administrative controls over those ethnic groups. The groups that came under direct rule usually became shú or ‘ripe’.
these proto tones into two series, which are normally indicative of the voicing of initial consonants at the time of tonal split in each dialect (voiceless initials with tones series 1 and voiced initials with tones series 2). Table 22.2.1.1 illustrates this system; Baoding represents a dialect with the original three-plus-one tones and Tongshi a dialect with further tonal splits.

**TABLE 22.2.1.1-1: BAODING AND TONGSHI TONAL SPLIT SYSTEM**

<table>
<thead>
<tr>
<th></th>
<th>Baoding</th>
<th>Tongshi</th>
<th>Tones</th>
</tr>
</thead>
<tbody>
<tr>
<td>fish</td>
<td>̖a^33</td>
<td>̖a^33</td>
<td>A1</td>
</tr>
<tr>
<td>surplus</td>
<td>za^53</td>
<td>̖a^11</td>
<td>A2</td>
</tr>
<tr>
<td>warm, a.</td>
<td>̖un^55</td>
<td>̖un^51</td>
<td>B1</td>
</tr>
<tr>
<td>snake</td>
<td>za^55</td>
<td>̖a^121</td>
<td>B2</td>
</tr>
<tr>
<td>tongue</td>
<td>̖un^11</td>
<td>̖un^55</td>
<td>C1</td>
</tr>
<tr>
<td>neck</td>
<td>zo^11</td>
<td>̖or^14</td>
<td>C2</td>
</tr>
<tr>
<td>enter</td>
<td>̖u^55</td>
<td>̖u^55</td>
<td>D1</td>
</tr>
<tr>
<td>steal</td>
<td>̖ok^55</td>
<td>̖ok^13</td>
<td>D2</td>
</tr>
</tbody>
</table>

From Table 22.2.1.1-1, we can see that Tongshi initial _- corresponds to Baoding _- and _z_. Such loss of initial contrast in Tongshi (_z_ > _-_) resulted in a tonal split that doubled the numbers of original tones. The tonal correspondences between Baoding and Tongshi are summarized in Table 22.2.1.1-2.

**TABLE 22.2.1.1-2: TONAL CORRESPONDENCES BETWEEN BAODING AND TONGSHI**

<table>
<thead>
<tr>
<th>Tone category</th>
<th>Tone series</th>
<th>Tone value (Baoding)</th>
<th>Tone value (Tongshi)</th>
</tr>
</thead>
<tbody>
<tr>
<td>*A</td>
<td>1</td>
<td>53</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td></td>
<td>11</td>
</tr>
<tr>
<td>*B</td>
<td>1</td>
<td>55</td>
<td>51</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td></td>
<td>121</td>
</tr>
<tr>
<td>*C</td>
<td>1</td>
<td>11</td>
<td>55</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td></td>
<td>14</td>
</tr>
</tbody>
</table>

Chinese scholars normally use raised numerals to symbolize tones. These numeral symbols, as used in Ouyang and Zheng (1983), typically correspond to Hlai tonal categories as follows:

<table>
<thead>
<tr>
<th>Tones</th>
<th>A1</th>
<th>A2</th>
<th>B1</th>
<th>B2</th>
<th>C1</th>
<th>C2</th>
<th>D1</th>
<th>D2</th>
</tr>
</thead>
<tbody>
<tr>
<td>no tone split</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>7</td>
<td>3</td>
<td>6</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>with tone split</td>
<td>1</td>
<td>4</td>
<td>5</td>
<td>2</td>
<td>3</td>
<td>6</td>
<td>7</td>
<td>8</td>
</tr>
</tbody>
</table>

---

4 Chinese scholars normally use raised numerals to symbolize tones. These numeral symbols, as used in Ouyang and Zheng (1983), typically correspond to Hlai tonal categories as follows:
Modern Hlai dialects have different numbers of tones, ranging from three to seven (in native words), but all these tones can be similarly traced back to the same PH system. The tonal correspondences of various Hlai dialects are provided in Appendix 1. This tonal system can also be related to those of Tai, Kam-Sui, Be, and Kra languages (Ostapirat 2000). Such connections provide important evidence that puts the whole family into a clear developmental system.

22.2.1.2. Initial consonants ($C_i$)

Modern Hlai inventories of initial consonants vary from dialect to dialect. Nonetheless, in native Hlai lexicons, a number of sounds overlap among varieties and the typical system of modern Hlai initial consonants may be generalized as follows.

1. Hlai dialects usually have glottalized/implosive stops /b/ and /d/, voiceless unaspirated stops and affricate /ts/, /k/, and a glottal stop /ʔ/. A set of voiceless aspirated obstruents /ph th tsh kh h/, nasals /m n ɲ/, liquids /l r/ and spirants /v z/ are also typical among dialects.5

<table>
<thead>
<tr>
<th>Initial</th>
<th>Baoding</th>
<th>Yuanmen</th>
<th>Heitu</th>
</tr>
</thead>
<tbody>
<tr>
<td>b</td>
<td>deu₁</td>
<td>deu₁</td>
<td>deu₁</td>
</tr>
<tr>
<td>d</td>
<td>deu₁</td>
<td>deu₁</td>
<td>deu₁</td>
</tr>
<tr>
<td>ts</td>
<td>kaʊ₃</td>
<td>kaʊ₃</td>
<td>kaʊ₃</td>
</tr>
<tr>
<td>k</td>
<td>deu₁</td>
<td>deu₁</td>
<td>deu₁</td>
</tr>
<tr>
<td>ʔ</td>
<td>?ai¹</td>
<td>?ai¹</td>
<td>?ai¹</td>
</tr>
<tr>
<td>m</td>
<td>ɲ</td>
<td>ɲ</td>
<td>ɲ</td>
</tr>
<tr>
<td>n</td>
<td>ɲ</td>
<td>ɲ</td>
<td>ɲ</td>
</tr>
<tr>
<td>v</td>
<td>ɿ</td>
<td>ɿ</td>
<td>ɿ</td>
</tr>
<tr>
<td>l,r</td>
<td>l,r</td>
<td>l,r</td>
<td>l,r</td>
</tr>
</tbody>
</table>

Examples:

- leaf: Baoding: beu₁, Yuanmen: beu₁, Heitu: beu₁
- face, nose: Baoding: danj¹, Yuanmen: donj³, Heitu: donj³
- sit: Baoding: tson³, Yuanmen: tsu³, Heitu: tsu³
- early: Baoding: kaʊ₃, Yuanmen: kaʊ₃, Heitu: kaʊ₃
- musk melon: Baoding: ?ai¹, Yuanmen: ?ai¹, Heitu: ?ai¹
- name: Baoding: pheu₁, Yuanmen: phion¹, Heitu: phau₃
- short (not tall): Baoding: thau³, Yuanmen: thau³, Heitu: thau³
- tree: Baoding: tshai¹, Yuanmen: tshai¹, Heitu: tshai¹
- chicken: Baoding: khaɪ¹, Yuanmen: khaï¹, Heitu: khaï¹
- excrement: Baoding: hai³, Yuanmen: hai³, Heitu: hai³
- hand: Baoding: meu¹, Yuanmen: meu⁴, Heitu: meu¹
- thick: Baoding: na¹, Yuanmen: na⁴, Heitu: na¹
- moon: Baoding: na⁴, Yuanmen: nuan⁴, Heitu: nuan⁴
- liver: Baoding: naⁿ¹, Yuanmen: nuan⁴, Heitu: naⁿ¹
- far: Baoding: lai¹, Yuanmen: lai⁴, Heitu: lai¹
- star: Baoding: rau¹, Yuanmen: rau⁴, Heitu: rau¹
- shoulder: Baoding: va², Yuanmen: va², Heitu: va²
- old: Baoding: za¹, Yuanmen: za⁴, Heitu: za¹

2. Lacking from the preceding example sets are p-, t- and voiceless fricative initials. These sounds are found across modern Hlai dialects but they do not often correspond one-to-one. For instance, stop initial reflexes in some varieties may correspond to nasals or fricatives in the others. These different reflexes among varieties are crucial to comparative phonology and dialect subgrouping (see Section 22.3 for more details). A few main types of such

---

5 Sibilant initials /ts/, /tʃ/, and /z/ are pronounced as (pre-)palatal [ʈʃ], [tʃ], and [ʃ] in a number of dialects. Some dialects (e.g. Qiandui) may merge r- into l-.
correspondences are described below.

A. Nasal initials in some dialects may correspond to stops in the others (via prenasalized stops):

<table>
<thead>
<tr>
<th></th>
<th>Heitu</th>
<th>Baoding</th>
<th>Yuanmen</th>
</tr>
</thead>
<tbody>
<tr>
<td>dog</td>
<td>ma¹</td>
<td>pa¹</td>
<td>pa⁴</td>
</tr>
<tr>
<td>field, paddy</td>
<td>na²</td>
<td>ta²</td>
<td>ta²</td>
</tr>
<tr>
<td>horse</td>
<td>ŋa³</td>
<td>ka³</td>
<td>ka⁶</td>
</tr>
</tbody>
</table>

B. Fricative initials in some dialects may correspond to stops in the others:

<table>
<thead>
<tr>
<th></th>
<th>Xifang</th>
<th>Baoding</th>
<th>Heitu</th>
</tr>
</thead>
<tbody>
<tr>
<td>fire</td>
<td>fei¹</td>
<td>fei¹</td>
<td>pei¹</td>
</tr>
<tr>
<td>tongue</td>
<td>ŋiŋ³</td>
<td>òi:ŋ³</td>
<td>diːn³</td>
</tr>
<tr>
<td>thread, v.</td>
<td>ŋsk⁷</td>
<td>tok⁷</td>
<td>tok⁷</td>
</tr>
</tbody>
</table>

C. Voiced spirants in some dialects may be devoiced in others (e.g. v- > f-, z- > l):

<table>
<thead>
<tr>
<th></th>
<th>Baoding</th>
<th>Yuanmen</th>
<th>Qiandui</th>
</tr>
</thead>
<tbody>
<tr>
<td>raw</td>
<td>viːp⁷</td>
<td>fip⁸</td>
<td>fiːp⁸</td>
</tr>
<tr>
<td>ear</td>
<td>zai¹</td>
<td>tsai⁴</td>
<td>lai⁴</td>
</tr>
<tr>
<td>ask</td>
<td>gaːm¹</td>
<td>kham¹</td>
<td>haːm⁴</td>
</tr>
</tbody>
</table>

22.2.1.3. **Medial consonants (Cₘ)**

Hlai consonant clusters are rare. The only true cluster with medial -l- is pl-. The other complex initials have either -w- or -j- medials. The medial -w- may occur after velar (g- and ŋ-) or glottal (h- and ?-) initials while -j- is only found with glottal initials. Examples with ŋw- and ŋj- are few in number.

A number of Hlai dialects simplify initial clusters into simple initials. Either the initial or medial may drop (Ciₘ > Ci or Ciₘ > Ciₙ). For instance, in Heitu, pl- has become l- while all medials -w- and -j- are lost (gw- > g-, hj- > h-, etc). In Qiandui, the medial -l- is dropped (pl- > p-) while medials -w- and -j- were usually retained and became spirants (gw- > v-, hj- > z-, but ŋw- > ŋj-).

<table>
<thead>
<tr>
<th></th>
<th>Baoding</th>
<th>Heitu</th>
<th>Qiandui</th>
</tr>
</thead>
<tbody>
<tr>
<td>hear</td>
<td>pleu¹</td>
<td>leu¹</td>
<td>peu¹</td>
</tr>
<tr>
<td>rotten</td>
<td>gwaːu³</td>
<td>gaːu³</td>
<td>vaːu⁶</td>
</tr>
<tr>
<td>straw</td>
<td>ŋwin⁳</td>
<td>ŋin³</td>
<td>ŋin⁶</td>
</tr>
<tr>
<td>ant</td>
<td>hwaːu³</td>
<td>heu³</td>
<td>vau³</td>
</tr>
<tr>
<td>rise, get up</td>
<td>?wau²</td>
<td>?eũ²</td>
<td>vau⁵</td>
</tr>
<tr>
<td>thatch grass</td>
<td>ŋja¹</td>
<td>ha¹</td>
<td>za¹</td>
</tr>
<tr>
<td>swallow, v.</td>
<td>?joːm²</td>
<td>?oːm²</td>
<td>zɔːm⁵</td>
</tr>
</tbody>
</table>

There are also two other reported clusters in modern Hlai: dr- and tl-. Ouyang and Zheng (1983) noted that what transcribed as /r-/ is sometimes variantly pronounced [dr], [r], or [d]. This agrees with Savina’s (1931) transcriptions of a southern Hlai dialect which shows the variants dr-/d- for the same sound. Recently, L-Thongkum (2001) reported dr- in a Bendi dialect which regularly correspond to r- in other varieties; for instance, /draw33/ ‘star’, /drow33/ ‘knee’ (Baoding /raːu⁵³/ and /rou⁵³/ respectively). In general, there is no phonemic
contrast between r- and dr- in the same dialect.

The cluster tl- appeared in Savina’s (1931) records of a central Hlai dialect and usually corresponds to /ɬ/ in other records. This is compatible with Ouyang and Zheng’s (1983) note that /ɬ/ is phonetically pronounced [tɬ] in some dialects. In the same dialect, Savina also recorded r- in a couple of words corresponding to /ɬ/. In the Vietnamese script (which Savina used in his records) the graph forms tr- represent a palatal affricate in Standard Vietnamese and was probably intended for [ʨ], the sound which is also reported for /ɬ/ in the Tongshi area (Ouyang and Zheng 1983: 14).

22.2.1.4. Final consonants (Cf)

The Hlai system of final consonants is relatively simple; a syllable may end with a nasal (-m, -n, -ŋ, -ŋ), or a stop (-p, -t, -ʔ, -k). These endings are fairly stable and often correspond one-to-one among the dialects. The palatal finals (-n and -t) are the most subject to change and are kept as such only in the Baoding dialect; in other dialects, they have usually merged with alveolars (-n and -t). Some northern-Hlai dialects (e.g. Xifang and Baisha) have adopted other changes such as -n > -ŋ and -t > -k, and several dialects show the weakening of *-k to -ʔ, especially after long vowels and diphthongs. With the exception of palatal endings, this Hlai system of final consonants is also typical among Kra-Dai languages.

<table>
<thead>
<tr>
<th>Baoding</th>
<th>Heitu</th>
<th>Baisha</th>
</tr>
</thead>
<tbody>
<tr>
<td>ask</td>
<td>ga:m1</td>
<td>xa:m1</td>
</tr>
<tr>
<td>moon</td>
<td>na:n1</td>
<td>na:n1</td>
</tr>
<tr>
<td>take off</td>
<td>lan³</td>
<td>lan³</td>
</tr>
<tr>
<td>master</td>
<td>ve:ŋ¹</td>
<td>vian¹</td>
</tr>
<tr>
<td>carry on shoulder</td>
<td>tsha:p⁷</td>
<td>tsha:p⁷</td>
</tr>
<tr>
<td>poor</td>
<td>va:t⁷</td>
<td>va:?⁸</td>
</tr>
<tr>
<td>blood</td>
<td>³a:t⁷</td>
<td>³a:t⁶</td>
</tr>
<tr>
<td>banana</td>
<td>hwe:k⁷</td>
<td>va:?⁷</td>
</tr>
</tbody>
</table>

There is another ending that may be posited as PH *-l. This final has become -l in a Baisha dialect (Wang and Qian 1951) and -u in all other dialects. Its distribution is very limited, however; it occurs only after *-a-.

<table>
<thead>
<tr>
<th>Baoding</th>
<th>Heitu</th>
<th>Baisha (W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>short (not tall)</td>
<td>thau³</td>
<td>theu²</td>
</tr>
<tr>
<td>near</td>
<td>plau³</td>
<td>leu³</td>
</tr>
<tr>
<td>nine</td>
<td>fau³</td>
<td>peu³</td>
</tr>
</tbody>
</table>

This ending is usually reflected as -u (later >-i) in Tai, -i in Kam-Sui, and simply lost in Kra languages. For instance, ‘near’, Wuming /klau/, Sui /phjai/, Laha /klaa/, etc.

22.2.1.5. Vowels (V)

Like initial consonants, modern Hlai vowel inventories differ from dialect to dialect. The typical vowel system that occurs in native vocabularies consists of six to seven monophthongs plus diphthongs, which may be described as follows:

Monophthongs:

- i
- u
- e
- (ə)
- a
In a number of Hlai dialects, vowels may be short or long. The long low vowels (a, e and o) are normally more open than their short counterparts (e.g. /e/ and /o/ are close to [e] and [ɔ]). The long high vowels, on the other hand, are usually diphthongized (e.g. /i/ and /u/ are phonetically [ie ia] and [uo ua]).

The schwa [a] is relatively rare among modern varieties. In most dialects, it occurs only before -uu, i.e. [aui]. (Because of this limited distribution, this rime is typically written as /eu/). In certain dialects such as Yuanmen, [a] may be found before alveolar finals, e.g. -an and -at (historically from *un and *ut, etc.)

Diphthongs:

Diphthongs may be distinguished into two types. The first type consists of diphthongs that have a high vowel onset gliding down to a central low vowel:

\[ ia \quad ua \quad ua \]

These diphthongs seldom correspond one-to-one across dialects and may not be traced back to Proto-Hlai diphthongs. They do not occur in open syllables.

The other set of diphthongs all ends in a high vowel. Contrary to the first type, this type of diphthongs may not take a final consonant, i.e. they occur only in open syllables. Because of this constraint, these diphthongs may be synchronically interpreted as consisting of a vowel (monophthong) plus a glide ending (-j, -w, or -ɰ).

With ending -i

\[ ui, ui^* \quad ui,u:i \]
\[ ei \quad oi,o:i \]
\[ ai,a:i \]

With ending -u

\[ iu,i:u \]
\[ eu \quad ou \]
\[ au,a:u \]

With ending -uu

\[ au \]
\[ au \]

22.2.2. Hlai lexicons: Kra-Dai traits versus Hlai traits

The vocabularies of various Hlai dialects have been recorded since the late 19th century (for early materials, see especially Jeremiassen 1892, Savina 1931, and Stübel 1937). Their records show Hlai to be a tonal monosyllabic language which, similar to Tai and other Kd languages, hosts a set of nasal and stop finals such as -m, -n, -ŋ and -p, -t, -k. Such similar syllable structures, though not a guarantee of genetic relationship by itself, have facilitated lexical comparisons between Hlai and other Kd languages.6

The lexical connection between Hlai and other Kra-Dai languages is illustrated in Table 22.2.2-1. As we have noted, the Hlai tonal system has shown itself to be relatable to that of other Kd languages (Ostapirat 2000). These Kd tonal categories are shown in the last column.

---

6 Many languages of southern China and southeast Asia which belong to different language families have these similar kinds of syllable structure, e.g. the Yue dialects of Chinese (namely, Cantonese), Vietnamese, and a number of Yao dialects of Miao-Yao family.
On the other hand, the Hlai language group has lexical and phonological characteristics of its own.7 Hlai dialects share among themselves a number of vocabulary items that differ from those of the other Kd groups. Examples in Table 22.2.2-2 are of two main types. The first set shows Hlai roots against pan-Kra-Dai etyma; the second set shows Hlai roots against Tai and Kam-Sui’s, on the one hand, and Kra’s, on the other.

### TABLE 22.2.2-1: HLAI LEXICAL TRAITS OF KRA-DAI ORIGIN

<table>
<thead>
<tr>
<th>(Hlai)</th>
<th>(Tai)</th>
<th>(Kam-Sui)</th>
<th>(Kra)</th>
<th>Tones</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baoding</td>
<td>Siamese</td>
<td>Sui</td>
<td>Gelaos</td>
<td></td>
</tr>
<tr>
<td>eye</td>
<td>tsha</td>
<td>taa</td>
<td>daa</td>
<td>tau</td>
</tr>
<tr>
<td>hand</td>
<td>meu</td>
<td>muu</td>
<td>mjaa</td>
<td>mpau</td>
</tr>
<tr>
<td>dog</td>
<td>pa</td>
<td>maa</td>
<td>ṇaa</td>
<td>mpau</td>
</tr>
<tr>
<td>bear, n.</td>
<td>mui</td>
<td>mii</td>
<td>ṇmii</td>
<td>mi (Lz)</td>
</tr>
<tr>
<td>fire</td>
<td>fei</td>
<td>fai</td>
<td>wii</td>
<td>pai</td>
</tr>
<tr>
<td>bitter</td>
<td>höm</td>
<td>khom</td>
<td>qam</td>
<td>qan</td>
</tr>
<tr>
<td>tooth</td>
<td>fan</td>
<td>fan</td>
<td>wjan</td>
<td>pan</td>
</tr>
<tr>
<td>drum</td>
<td>laŋ</td>
<td>klǫŋŋ</td>
<td>kuŋ (K)</td>
<td>lau</td>
</tr>
<tr>
<td>shoulder</td>
<td>va</td>
<td>baa</td>
<td>wie (Lk)</td>
<td>?baa (By)</td>
</tr>
<tr>
<td>old</td>
<td>khau</td>
<td>kau</td>
<td>qaau</td>
<td>qa</td>
</tr>
<tr>
<td>excrement</td>
<td>hai</td>
<td>khii</td>
<td>qee</td>
<td>qa</td>
</tr>
<tr>
<td>water</td>
<td>nom</td>
<td>naam</td>
<td>nam</td>
<td>(sαu)</td>
</tr>
<tr>
<td>fingernail</td>
<td>lŋ</td>
<td>lep</td>
<td>?djap</td>
<td>kle</td>
</tr>
<tr>
<td>fart</td>
<td>thǔ:</td>
<td>tot</td>
<td>tā</td>
<td>tæ (Lz)</td>
</tr>
<tr>
<td>child, person</td>
<td>łu:k</td>
<td>luuk</td>
<td>laak</td>
<td>leı</td>
</tr>
</tbody>
</table>

7 One of the phonological characteristics of the Hlai language group is the aspiration of voiceless stops and affricate:

### TABLE 22.2.2-2: LEXICAL TRAITS OF HLAI LANGUAGES

<table>
<thead>
<tr>
<th>Hlai</th>
<th>Baoding</th>
<th>Heitu</th>
<th>Siamese</th>
<th>Sui</th>
<th>Laha</th>
</tr>
</thead>
<tbody>
<tr>
<td>liver</td>
<td>ṇan</td>
<td>ṇan</td>
<td>tap</td>
<td>tap</td>
<td>tap</td>
</tr>
<tr>
<td>ear</td>
<td>zai</td>
<td>zai</td>
<td>huu</td>
<td>qhaa</td>
<td>khlaa</td>
</tr>
<tr>
<td>fat</td>
<td>gwei</td>
<td>rui</td>
<td>man</td>
<td>man</td>
<td>mal</td>
</tr>
<tr>
<td>knee</td>
<td>rou</td>
<td>rou</td>
<td>khau</td>
<td>qu</td>
<td>qαu (Lz)</td>
</tr>
<tr>
<td>bird</td>
<td>tat</td>
<td>tat</td>
<td>nok</td>
<td>nok</td>
<td>nok</td>
</tr>
<tr>
<td>sick</td>
<td>tshok</td>
<td>tshok</td>
<td>khai</td>
<td>saai (K)</td>
<td>khai</td>
</tr>
<tr>
<td>high</td>
<td>pheck</td>
<td>phaʔ</td>
<td>suuŋ</td>
<td>waaŋ</td>
<td>kwaŋ</td>
</tr>
<tr>
<td>come</td>
<td>pu:n</td>
<td>mu:n</td>
<td>maa</td>
<td>maa</td>
<td>maa</td>
</tr>
<tr>
<td>pluck</td>
<td>rou</td>
<td>rou</td>
<td>bit</td>
<td>?bit</td>
<td>bêt</td>
</tr>
<tr>
<td>wind</td>
<td>hwọt</td>
<td>vọt (Bc)</td>
<td>lom</td>
<td>lum</td>
<td>van</td>
</tr>
<tr>
<td>mouth</td>
<td>pom</td>
<td>mom</td>
<td>paak</td>
<td>paak</td>
<td>mul</td>
</tr>
<tr>
<td>forehead</td>
<td>da:u</td>
<td>da:u</td>
<td>phaak</td>
<td>pjaak</td>
<td>daŋ</td>
</tr>
</tbody>
</table>

* The Siamese form means ‘below’.

---

* The Siamese form means ‘below’. 
In cultural perspective, it is worth noting that a number of Hlai rice terms are also distinct from other languages. (For these roots, Tai and Kam-Sui often share forms.)

Several material culture terms show similar distributions.

Note that Chinese has related forms for the above Tai and Kam-Sui etyma: ‘iron’ *hlīt < -k and ‘crossbow’ *nǎi?. For the first root, the Old-Chinese voiceless lateral *hl- goes back at least to the Han period (ca. two thousand years ago) or earlier (*hl- later became th- in Middle Chinese). This suggests that the interaction between Chinese and Tai/Kam-Sui groups, that resulted in these shared forms, must have already occurred by that time. The word ‘crossbow’ is an areal root which is distributed widely across language families; it is also found as a typical root in Austroasiatic and Miao-Yao languages. The direction of loans for such roots is difficult to determine. However, the fact that Hlai (and Kra) did not adopt the terms possibly suggests that when these materials such as ‘iron’ and ‘crossbow’ spread throughout southern China and southeast Asian areas, Hlai might have already left the mainland.

It is thus promising that thorough study of these kinds of vocabulary distributions will not only shed light on the history of Hlai but also bring us a clearer picture of the cultural history of the Kra-Dai people, the early migrations, as well as the interaction among various ethnic groups of the areas.

22.3. HLAI VARIETIES

Hlai dialects may be divided into northern, southern, central, and Jiamao groups, based on their phonological characteristics. In China, they are separated into five dialects: ha, gei, hjuun, mozi-fau, and thai. The main reported varieties, including several dialects in early literatures, belong to the Hlai divisions as shown in Table 22.3-1.

<table>
<thead>
<tr>
<th>Hlai branches</th>
<th>Ouyang and Zheng (1983)</th>
<th>Early sources</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dialect groups</td>
<td>Vernaculars</td>
<td></td>
</tr>
<tr>
<td>Northern</td>
<td>Xifang</td>
<td>mozi-fau</td>
</tr>
<tr>
<td></td>
<td>Baisha</td>
<td>hjuun</td>
</tr>
<tr>
<td></td>
<td>Yuanmen</td>
<td>(bendi)</td>
</tr>
</tbody>
</table>

8 The Laha form /dam/ is probably a Tai loan. The word is not normally found in the Kra languages where *tam C (Laha /tam/) ‘plant’ is used.
22.3.1. Southern Hlai (SH)

This variety is mainly distributed along the Ningyuan River valleys in Yaxian and adjacent areas of Ledong county. It is sometimes known as /bou11 hım11/ and is included as one of the Ha vernaculars by Chinese scholars. A form of this dialect called Lai of Yulinkan was recorded as early as the late 19th century (Swinhoe 1871), but the few lexical items and vague transcriptions of the material made it less useful for serious linguistic purpose. Savina (1931) later published comprehensive lexicons of this variety (called ‘southern Ĉay’) which contain more than 1,200 entries transcribed in quốc ngữ (romanized Vietnamese) scripts. The corpus surpassed all earlier word-lists on Hlai languages in both quantity and quality and remained the only source of southern Hlai forms until 1980s.

22.3.1.1. Characteristics of the Southern Hlai varieties

In the following comparisons, Heitu, Baoding, and Yuanmen varieties represent the southern (SH), central (CH), and northern (NH) groups of Hlai respectively.

1. SH has nasal initials in a set of words where other dialects have stops:

<table>
<thead>
<tr>
<th></th>
<th>(SH)</th>
<th>(CH)</th>
<th>(NH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>five</td>
<td>ma1</td>
<td>pa1</td>
<td>pa4</td>
</tr>
<tr>
<td>long</td>
<td>nau1</td>
<td>tau3</td>
<td>tau6</td>
</tr>
<tr>
<td>firewood</td>
<td>nun1</td>
<td>kun3</td>
<td>kum6</td>
</tr>
</tbody>
</table>

2. SH has d- in a set of words where others have f-:

<table>
<thead>
<tr>
<th></th>
<th>(SH)</th>
<th>(CH)</th>
<th>(NH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>tongue</td>
<td>dim3</td>
<td>tım3</td>
<td>tın3</td>
</tr>
<tr>
<td>blood</td>
<td>dat7</td>
<td>łatw1</td>
<td>หลวง7</td>
</tr>
</tbody>
</table>

3. SH has p- in a set of words where other dialects have f-:

<table>
<thead>
<tr>
<th></th>
<th>(SH)</th>
<th>(CH)</th>
<th>(NH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>fire</td>
<td>pei1</td>
<td>fei1</td>
<td>feh1</td>
</tr>
<tr>
<td>rain</td>
<td>pun1</td>
<td>fun1</td>
<td>fhàn1</td>
</tr>
</tbody>
</table>

4. SH distinguishes *γ- and *R- (>r-) while others merge them:

<table>
<thead>
<tr>
<th></th>
<th>(SH)</th>
<th>(CH)</th>
<th>(NH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ask</td>
<td>gam1</td>
<td>gam1</td>
<td>kham1</td>
</tr>
<tr>
<td>iron</td>
<td>rai1</td>
<td>gor1</td>
<td>khui1</td>
</tr>
</tbody>
</table>

Sw = Swinhoe 1871, J = Jeremiassen 1892, Sv = Savina 1931, St = Stübel 1937, W = Wang and Qian 1951
5. SH has -a- before velars where others have fronted or diphthongized the vowel:

<table>
<thead>
<tr>
<th></th>
<th>(SH)</th>
<th>(CH)</th>
<th>(NH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>phan$^1$</td>
<td>phe$^1$</td>
<td>phia$^1$</td>
</tr>
<tr>
<td>otter</td>
<td>na$^2$</td>
<td>tek$^2$</td>
<td>tia$^2$</td>
</tr>
</tbody>
</table>

6. SH has -a- in a set of words where others have -o- or -ua- (and its variants):

<table>
<thead>
<tr>
<th></th>
<th>(SH)</th>
<th>(CH)</th>
<th>(NH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>fruit</td>
<td>tsham$^1$</td>
<td>tshom$^1$</td>
<td>tsham$^1$</td>
</tr>
<tr>
<td>skin</td>
<td>na$^4$</td>
<td>no$^4$</td>
<td>nua$^4$</td>
</tr>
<tr>
<td>fish scale</td>
<td>lap$^7$</td>
<td>lop$^7$</td>
<td>luap$^8$</td>
</tr>
</tbody>
</table>

22.3.2. Northern Hlai (NH)

NH dialects include such dialects as Baisha, Yuanmen and Xifang, which are mainly distributed in Baisha and Dongfang counties. People speaking these dialects constitute about 10 percent of Hlai population. According to Chinese scholars, Baisha and Yuanmen belong to Bendi ‘local’ or [hjua] dialect group (Baisha county) and Xifang belongs to Mofu [moi fau] group (Dongfang county).

22.3.2.1.1. Characteristics of the Northern varieties

1. NH dialects have palatal and velar (or labio-velar) nasal reflexes of PH *$\chi $- and *$\chi w$- respectively. These NH nasal initials correspond to palatal and labio-velar glides (hj- and hw-) in such dialects as Baoding and Baocheng (-w- may be lost before certain vowels, namely, -u-). These glides may further lose yielding h- (e.g. in Heitu) or became spirants z- (<j) and v- (<w) (e.g. in Qiandui).

<table>
<thead>
<tr>
<th></th>
<th>NH</th>
<th>CH</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>thatch grass</td>
<td>na$^1$</td>
<td>hja$^1$</td>
<td>ha$^1$</td>
</tr>
<tr>
<td>worm</td>
<td>na$^2$</td>
<td>nan$^2$</td>
<td>hjan$^2$</td>
</tr>
<tr>
<td>mountain</td>
<td>$\eta o^3$</td>
<td>hou$^3$</td>
<td>hau$^3$</td>
</tr>
<tr>
<td>hair (body)</td>
<td>$\eta o^1$</td>
<td>hun$^1$</td>
<td>hun$^1$</td>
</tr>
</tbody>
</table>

2. NH dialects usually have fricative or affricate reflexes of PH *$s$-. This PH *$s$- has become t- in other dialect groups. The reconstruction of PH *$s$- thus relies mainly on NH reflexes.

<table>
<thead>
<tr>
<th></th>
<th>NH</th>
<th>CH</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>wash</td>
<td>so:$^7$</td>
<td>tsho:$^7$</td>
<td>tok$^7$</td>
</tr>
<tr>
<td>thread</td>
<td>sok$^7$</td>
<td>tshak$^7$</td>
<td>tok$^7$</td>
</tr>
<tr>
<td>bird</td>
<td>sat$^7$</td>
<td>tshat</td>
<td>tat$^7$</td>
</tr>
</tbody>
</table>

3. NH dialects emphasize on vowel height distinction where other dialects show length distinction (phonetically diphthongized):
22.3.2.2. Xifang or [mor3 fau3] dialect

This variety is spoken by about 45,000 people who lived mainly in Xifang township and the southeastern part of Dongfang county. This area is located at the northwest periphery of Hlai settlement and little linguistic material had been available before 1980s. Among early studies on Hlai, only Stübel (1937) recorded some scores of vocabulary items from this dialect.

This dialect shows a unique modern reflex \( \chi \)- which mainly corresponds to f- or v- in other Northern varieties.

<table>
<thead>
<tr>
<th>*i:</th>
<th>NH</th>
<th>CH</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>gift</td>
<td>xim3</td>
<td>khim3</td>
<td>gitm3</td>
</tr>
<tr>
<td>tongue</td>
<td>lin3</td>
<td>lin3</td>
<td>lim3</td>
</tr>
<tr>
<td>hang</td>
<td>rin3</td>
<td>rin6</td>
<td>rin3</td>
</tr>
<tr>
<td>fingernail</td>
<td>lip7</td>
<td>lip8</td>
<td>lip7</td>
</tr>
<tr>
<td>whip</td>
<td>fit7</td>
<td>fit8</td>
<td>fit7</td>
</tr>
<tr>
<td>pole</td>
<td>fit7</td>
<td>fi7</td>
<td>fi7</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>*i</th>
<th>NH</th>
<th>CH</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>forbidden</td>
<td>kem3</td>
<td>kem3</td>
<td>kim3</td>
</tr>
<tr>
<td>fly, v.</td>
<td>ben1</td>
<td>ben1</td>
<td>bin1</td>
</tr>
<tr>
<td>straw</td>
<td>nen3</td>
<td>nen5</td>
<td>nin3</td>
</tr>
<tr>
<td>dog louse</td>
<td>tshep7</td>
<td>tship7</td>
<td>tship7</td>
</tr>
<tr>
<td>spicy</td>
<td>xet7</td>
<td>xet8</td>
<td>git7</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>*u:</th>
<th>NH</th>
<th>CH</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>body</td>
<td>nuj4</td>
<td>nuj4</td>
<td>hun4</td>
</tr>
<tr>
<td>hole</td>
<td>tshun3</td>
<td>tshun3</td>
<td>tshun3</td>
</tr>
<tr>
<td>enter</td>
<td>fuk7</td>
<td>lut7</td>
<td>lut7</td>
</tr>
<tr>
<td>termite</td>
<td>pluk7</td>
<td>plu7</td>
<td>lu7</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>*u</th>
<th>NH</th>
<th>CH</th>
<th>SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>hair</td>
<td>noj4</td>
<td>man4</td>
<td>hun1</td>
</tr>
<tr>
<td>neck</td>
<td>zon3</td>
<td>tsen5</td>
<td>zon3</td>
</tr>
<tr>
<td>ant</td>
<td>pot7</td>
<td>pot8</td>
<td>put7</td>
</tr>
<tr>
<td>stomach</td>
<td>pak7</td>
<td>pak8</td>
<td>pok7</td>
</tr>
</tbody>
</table>

Alveolar codas usually change into velars (*-n > -\( \eta \) and *-t > -k). On the other hand, early palatal codas have become alveolar (*-n > -n and *-t > -t). These innovations are shared by Baisha variety and may suggest a close relationship between the two dialects. The Baoding
forms (a CH dialect), which contrast alveolar and palatal endings, are provided as a point of reference.

* -n > -η and * -t > -k

<table>
<thead>
<tr>
<th>Xifang</th>
<th>Baisha</th>
<th>Baoding</th>
</tr>
</thead>
<tbody>
<tr>
<td>stone</td>
<td>tshiŋ¹</td>
<td>tshiŋ¹</td>
</tr>
<tr>
<td>body</td>
<td>ŋuŋ¹</td>
<td>ŋuŋ¹</td>
</tr>
<tr>
<td>rain</td>
<td>foŋ¹</td>
<td>foŋ³</td>
</tr>
<tr>
<td>grass</td>
<td>kan³</td>
<td>kan³</td>
</tr>
<tr>
<td>moon</td>
<td>na:ŋ¹</td>
<td>na:ŋ¹</td>
</tr>
<tr>
<td>nose</td>
<td>khak⁷</td>
<td>khak⁷</td>
</tr>
<tr>
<td>poor</td>
<td>va:k⁷</td>
<td>va:t⁸</td>
</tr>
</tbody>
</table>

* -n > -n and * -t > -t

<table>
<thead>
<tr>
<th>Xifang</th>
<th>Baisha</th>
<th>Baoding</th>
</tr>
</thead>
<tbody>
<tr>
<td>blood</td>
<td>łożyć⁷</td>
<td>łoż¹⁷</td>
</tr>
<tr>
<td>short</td>
<td>that⁷</td>
<td>that⁸</td>
</tr>
<tr>
<td>ant</td>
<td>pot⁷</td>
<td>put⁷</td>
</tr>
<tr>
<td>select</td>
<td>ła:n¹</td>
<td>ła:n¹</td>
</tr>
<tr>
<td>fly, v.</td>
<td>ben¹</td>
<td>ben¹</td>
</tr>
</tbody>
</table>

Xifang has merged some pairs of rimes that end with -ui, -i, and -u. For instance, NH *auu merged with *iuu, *iu with *eu, and *ui with *oi.

22.3.2.3. Baisha dialect

Baisha varieties are spoken mainly in Baisha county, which has long been a gateway for excursions by Chinese and foreign travelers from the northern plain into Hlai territories. Different forms of Baisha have been recorded very early; for instance, White Sand Loi (Jeremiassen 1892), Basadung Li (Stübel 1937), and Baisha (Wang and Qian 1951).

Some features of Baisha varieties may be noted as follows.

1. Baisha shares with Xifang the changes of alveolar and palatal endings: * -n > -ŋ, * -t > -k, * -n > -n and * -t > -t (as mentioned above). However, Baisha alone has adopted the change -k > -t after the high front vowel -i-:
2. Baisha agrees with Yuanmen in having merged *s- and *ch- and in having diphthongs -ua- and -ia- where Xifang has -o- and -e-:

<table>
<thead>
<tr>
<th></th>
<th>Baisha</th>
<th>Yuanmen</th>
<th>Xifang</th>
</tr>
</thead>
<tbody>
<tr>
<td>buffalo</td>
<td>tshai³</td>
<td>tshou³</td>
<td>sui³</td>
</tr>
<tr>
<td>thread, v.</td>
<td>tshok⁷</td>
<td>tshok²</td>
<td>sok⁷</td>
</tr>
<tr>
<td>stone</td>
<td>tshin¹</td>
<td>tshin¹</td>
<td>Tshin¹</td>
</tr>
<tr>
<td>hole</td>
<td>tshuŋ³</td>
<td>tshuŋ³</td>
<td>tshuŋ³</td>
</tr>
<tr>
<td>fruit</td>
<td>tshuam¹</td>
<td>tshuam¹</td>
<td>tshcm¹</td>
</tr>
<tr>
<td>skin</td>
<td>nuan¹</td>
<td>nuan¹</td>
<td>noŋ¹</td>
</tr>
<tr>
<td>fish scale</td>
<td>luap⁸</td>
<td>luap⁸</td>
<td>lop⁷</td>
</tr>
<tr>
<td>master</td>
<td>vian¹</td>
<td>vian⁴</td>
<td>ven¹</td>
</tr>
</tbody>
</table>

3. The Baisha vernacular recorded by Wang and Qian (1951) shows the unique final -l which usually corresponds to -uə in other varieties:

<table>
<thead>
<tr>
<th></th>
<th>Baisha (W)</th>
<th>Baisha (O)</th>
<th>Yuanmen</th>
</tr>
</thead>
<tbody>
<tr>
<td>near</td>
<td>pla:l³</td>
<td>pla³</td>
<td>pla³</td>
</tr>
<tr>
<td>nine</td>
<td>fa:l³</td>
<td>fau³</td>
<td>fau³</td>
</tr>
<tr>
<td>light, a.</td>
<td>kha:l³</td>
<td>khau³</td>
<td>khau³</td>
</tr>
<tr>
<td>short, a.</td>
<td>tha:l³</td>
<td>thau³</td>
<td>thau³</td>
</tr>
</tbody>
</table>

This same dialect shows voiceless unaspirated stops p- and t- for glottalized b- and d- in other dialects:

<table>
<thead>
<tr>
<th></th>
<th>Baisha (W)</th>
<th>Baisha (O)</th>
<th>Yuanmen</th>
</tr>
</thead>
<tbody>
<tr>
<td>fly, v.</td>
<td>pen¹</td>
<td>ben¹</td>
<td>ben¹</td>
</tr>
<tr>
<td>face, nose</td>
<td>tan¹</td>
<td>dan¹</td>
<td>dan¹</td>
</tr>
</tbody>
</table>

This dialect is spoken in the southeastern part of Baisha county. Yuanmen split PH tones into two series conditioned by the voicing of initial consonants at the time of the tonal split. Examples in Table 22.3.2.3-1 are all in PH tone *C category and show Yuanmen tones 44 (early Yuanmen voiceless initials) and 13 (early Yuanmen voiced initials) corresponding to Baisha tone 33 and Xifang tone 24 (the latter two varieties do not split tones).

**TABLE 22.3.2.3-1: HLAI TONE C COMPARISONS**

<table>
<thead>
<tr>
<th></th>
<th>Tone</th>
<th>Yuanmen</th>
<th>Baisha</th>
<th>Xifang</th>
<th>NH</th>
</tr>
</thead>
<tbody>
<tr>
<td>male</td>
<td>C1</td>
<td>pha⁴⁴</td>
<td>pha³³</td>
<td>pha²⁴</td>
<td>*ph</td>
</tr>
<tr>
<td>short</td>
<td>C1</td>
<td>thau⁴⁴</td>
<td>thau³³</td>
<td>th&lt;ur²⁴</td>
<td>*th</td>
</tr>
<tr>
<td>light, a.</td>
<td>C1</td>
<td>khau⁴⁴</td>
<td>khau³³</td>
<td>kh&lt;ur²⁴</td>
<td>*kh</td>
</tr>
<tr>
<td>buffalo</td>
<td>C1</td>
<td>tshou⁴⁴</td>
<td>tshoi³³</td>
<td>su¹²⁴</td>
<td>*s</td>
</tr>
<tr>
<td>beard</td>
<td>C2</td>
<td>pum¹³ &lt; b</td>
<td>pum³³</td>
<td>pum²⁴</td>
<td>*mp</td>
</tr>
<tr>
<td>long</td>
<td>C2</td>
<td>ta:u¹³ &lt; d</td>
<td>ta:u³³</td>
<td>ta:u²⁴</td>
<td>*nt</td>
</tr>
<tr>
<td>grass</td>
<td>C2</td>
<td>kan¹³ &lt; g</td>
<td>kan³³</td>
<td>kan²⁴</td>
<td>*ŋk</td>
</tr>
<tr>
<td>neck</td>
<td>C2</td>
<td>tsœŋ¹³ &lt; dz</td>
<td>zœŋ³³</td>
<td>zœŋ²⁴</td>
<td>*ŋ</td>
</tr>
</tbody>
</table>
22.3.3. Central Hlai (CH)

A majority of Hlai people (about three-fourth of Hlai population) speak the CH dialects, which includes most of the so-called Gei and Ha dialects (minus Heitu, which forms a southern Hlai dialect). The CH dialects are distributed in virtually all counties of Hlai territory, with dense concentration in big cities such as Tongshi (Baoting county) and Sanya (Yaxian). Most of Hlai varieties recorded in early literature belong to this CH group.

All CH dialects shows a set of stop (< nasal) consonants (which remain nasal in the SH dialect), like the NH group. On the other hand, they share with the SH group such changes as the occlusion of *s- > t- and demonstrate a length distinction (diphthongization) of early high vowels.

<table>
<thead>
<tr>
<th></th>
<th>(SH)</th>
<th>(CH)</th>
<th>(NH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>five</td>
<td>Heitu</td>
<td>Baoding</td>
<td>Xifang</td>
</tr>
<tr>
<td>long</td>
<td></td>
<td>pa¹</td>
<td>pa¹</td>
</tr>
<tr>
<td>firewood</td>
<td>Kun³</td>
<td>kon³</td>
<td></td>
</tr>
<tr>
<td>bird</td>
<td>D</td>
<td>tat⁷</td>
<td>sat⁷</td>
</tr>
<tr>
<td>thread v.</td>
<td>tok⁷</td>
<td>sōk⁷</td>
<td></td>
</tr>
</tbody>
</table>

In general, the CH dialects in the west and coastal areas (or the Ha group) do not split tones. This group is represented by such dialects as Baoding and Zhongsha. Baoding is located on the bank of the Changhua river in Ledong County and represents a vernacular sometimes known as Luohuo [lau⁵⁵ huf⁵⁵]. It is distributed mainly in Ledong County and adjacent areas of Dongfang (eastern part), Changjiang (southern part), and Baisha (western part) Counties. Zhongsha represents a vernacular called [ha¹¹ ?em⁵⁵], which is scattered throughout the coastal areas from Dongfang in the northwest to Lingshui in the southeast of Hlai territory. About half of Hlai population are said to speak these varieties.

The other CH group (or the Gei group) is concentrated mainly to the east of the former, especially in Baoting and Qiongzhong Counties. This group is represented by such dialects as Tongshi (western areas of Baoting and Qiongzhong Counties), Qiandui (eastern area of Qiongzhong), and Baocheng (eastern area of Baoting). Speakers of these varieties constitute about one-fourth of Hlai population. All reported dialects of this group split tones.

Examples of tonal correspondences between the dialects that do not split tones (the western group, represented by Baoding) and the dialects that split tones (the eastern group) are shown in Table 22.3.3-1.

**TABLE 22.3.3-1: EASTERN HLAI DIALECT TONE SPLIT**

<table>
<thead>
<tr>
<th></th>
<th>Baoding</th>
<th>Tongshi</th>
<th>Qiandui</th>
<th>Baocheng</th>
</tr>
</thead>
<tbody>
<tr>
<td>sky</td>
<td>C₁</td>
<td>fa¹¹</td>
<td>fa⁵⁵</td>
<td>fa³⁵</td>
</tr>
<tr>
<td>heart</td>
<td>C₁</td>
<td>la:u¹¹</td>
<td>la:u⁵⁵</td>
<td>la:u³⁵</td>
</tr>
<tr>
<td>excrement</td>
<td>C₁</td>
<td>ha:i¹¹</td>
<td>ha:i⁵⁵</td>
<td>ha:i³⁵</td>
</tr>
<tr>
<td>store (water)</td>
<td>C₂</td>
<td>ve:ʒ¹¹</td>
<td>fe:ʒ¹⁴</td>
<td>fe:ʒ²¹⁳</td>
</tr>
<tr>
<td>neck</td>
<td>C₂</td>
<td>zoŋ¹¹</td>
<td>tʊŋ¹⁴</td>
<td>tʊŋ²¹³</td>
</tr>
<tr>
<td>grove</td>
<td>C₂</td>
<td>goŋ¹¹</td>
<td>goŋ¹⁴</td>
<td>hoŋ²¹³</td>
</tr>
</tbody>
</table>
Some features of CH varieties may be further noted as follows:

A. Baoding is the only dialect that has palatal finals. These finals have merged with alveolar endings in other CH dialects.

<table>
<thead>
<tr>
<th></th>
<th>Baoding</th>
<th>Tongshi</th>
<th>Qiandui</th>
<th>Baocheng</th>
</tr>
</thead>
<tbody>
<tr>
<td>blood</td>
<td>ūat⁵⁵</td>
<td>ūat⁵⁵</td>
<td>ūat⁴²</td>
<td>ūat⁴³</td>
</tr>
<tr>
<td>select</td>
<td>ūan⁵³</td>
<td>ūan³³</td>
<td>ūan³³</td>
<td>ūan⁴⁴</td>
</tr>
</tbody>
</table>

B. Zhongsha has r- in a set of words where other CH dialects have labio-dental fricatives (Baoding v-, others (*v- >) f-).

<table>
<thead>
<tr>
<th></th>
<th>Zhongsha</th>
<th>Baoding</th>
<th>Tongshi</th>
<th>Qiandui</th>
<th>Baocheng</th>
</tr>
</thead>
<tbody>
<tr>
<td>navel</td>
<td>ūer⁵³</td>
<td>ūe⁵³</td>
<td>ūe⁴¹</td>
<td>ūe⁴¹</td>
<td>ūe⁴²</td>
</tr>
<tr>
<td>bone</td>
<td>ūr:⁵⁵</td>
<td>ūr:⁵⁵</td>
<td>ūr:⁴¹</td>
<td>ūr:⁴¹</td>
<td>ūr:⁴³</td>
</tr>
</tbody>
</table>

Zhongsha otherwise differs very little from Baoding dialect. The tonal reflexes are the same (*A=53, *B=55, *C=11, *D=55). In most cases, Zhongsha initial reflexes are simplified forms of Baoding’s:

<table>
<thead>
<tr>
<th></th>
<th>Zhongsha</th>
<th>Baoding</th>
</tr>
</thead>
<tbody>
<tr>
<td>straw</td>
<td>ūnj¹¹</td>
<td>ūnj¹¹</td>
</tr>
<tr>
<td>head</td>
<td>gau¹¹</td>
<td>gwhou¹¹</td>
</tr>
<tr>
<td>mountain</td>
<td>hau¹¹</td>
<td>hwou¹¹</td>
</tr>
<tr>
<td>thatch</td>
<td>ha⁵³</td>
<td>hja⁵³</td>
</tr>
<tr>
<td>seedlings</td>
<td>viu⁵³</td>
<td>hwiu⁵³</td>
</tr>
<tr>
<td>wasp</td>
<td>lou⁵³</td>
<td>plou⁵³</td>
</tr>
</tbody>
</table>

C. Baoding and Zhongsha share certain vowel reflexes that differ from the eastern dialects.

<table>
<thead>
<tr>
<th></th>
<th>Zhongsha</th>
<th>Baoding</th>
<th>Tongshi</th>
<th>Qiandui</th>
<th>Baocheng</th>
</tr>
</thead>
<tbody>
<tr>
<td>many</td>
<td>ūō:i¹</td>
<td>ūō:i¹</td>
<td>ūō:i¹</td>
<td>ūō:i¹</td>
<td>ūō:i¹</td>
</tr>
<tr>
<td>tomorrow</td>
<td>hau²</td>
<td>hau²</td>
<td>ūo³</td>
<td>ūo³</td>
<td>ūo³</td>
</tr>
</tbody>
</table>

D. Among the dialects that split tones (eastern dialects), early sonorant initials are treated differently with respect to tones. These initials all act as voiced initials and take tone series 2 in Qiandui (*A₂=[11]), whereas in Baocheng they all take tone series 1 (*A₁=[44]), indicating an early voiceless feature. Tongshi’s reflexes split into two, showing tone series 1 (*A₁=33) for nasal and lateral initials and tone series 2 (A₂=[11]) for early glides.

<table>
<thead>
<tr>
<th></th>
<th>PH tones</th>
<th>Qiandui</th>
<th>Tongshi</th>
<th>Baocheng</th>
</tr>
</thead>
<tbody>
<tr>
<td>hand</td>
<td>A</td>
<td>meu¹¹ / meu³³</td>
<td>meu⁴⁴</td>
<td>*m</td>
</tr>
<tr>
<td>thick</td>
<td>A</td>
<td>na¹¹ / na³³</td>
<td>na⁴⁴</td>
<td>*n</td>
</tr>
<tr>
<td>liver</td>
<td>A</td>
<td>ūn¹¹ / ūn³³</td>
<td>ūn⁴⁴</td>
<td>*ŋ</td>
</tr>
<tr>
<td>far</td>
<td>A</td>
<td>lai¹¹ / lai³³</td>
<td>lai⁴⁴</td>
<td>*l</td>
</tr>
<tr>
<td>master</td>
<td>A</td>
<td>ūe:ŋ¹¹ / ūe:ŋ³³</td>
<td>ūe:ŋ⁴⁴</td>
<td>*w</td>
</tr>
<tr>
<td>medicine</td>
<td>A</td>
<td>ūa¹¹ / ūa³³</td>
<td>ūa⁴⁴</td>
<td>*y</td>
</tr>
</tbody>
</table>
E. Qiandui is the only dialect where early voiced stops have become voiceless aspirated.

<table>
<thead>
<tr>
<th></th>
<th>Qiandui</th>
<th>Tongshi</th>
<th>Baoding</th>
</tr>
</thead>
<tbody>
<tr>
<td>beard</td>
<td>( \text{phu:m}^{13} )</td>
<td>( \text{pu:m}^{14} )</td>
<td>( \text{pu:m}^{13} )</td>
</tr>
<tr>
<td>long</td>
<td>( \text{tha:u}^{213} )</td>
<td>( \text{ta:u}^{14} )</td>
<td>( \text{tha:u}^{213} )</td>
</tr>
<tr>
<td>grass</td>
<td>( \text{khan}^{213} )</td>
<td>( \text{kan}^{14} )</td>
<td>( \text{kan}^{213} )</td>
</tr>
</tbody>
</table>

Qiandui is also the only reported dialect that lost medial -l- in \(*\text{pl}*-:

<table>
<thead>
<tr>
<th></th>
<th>Qiandui</th>
<th>Tongshi</th>
<th>Baocheng</th>
</tr>
</thead>
<tbody>
<tr>
<td>near</td>
<td>( \text{pau}^{55} )</td>
<td>( \text{plau}^{55} )</td>
<td>( \text{plau}^{35} )</td>
</tr>
<tr>
<td>hear</td>
<td>( \text{peur}^{33} )</td>
<td>( \text{pleur}^{33} )</td>
<td>( \text{pleur}^{44} )</td>
</tr>
</tbody>
</table>

22.3.4. Jiamao

This variety, sometimes known as [thai\(^{11}\)], is spoken by about 70,000-80,000 people who live mainly in the Jiamao township, Baoting County, and in adjacent areas of Lingshui and Qiongzhou counties. It has long been understudied; the only early material on this dialect (called Bupali) is noted by Stübel (1937).

Jiamao is often considered the most aberrant among Hlai dialects.\(^9\) The shared vocabulary between Jiamao and other Hlai dialects (around 550 words from among 1,630 vocabulary items) is only about half of the amount typically shared among other dialects (1,000+ words). Nonetheless, Jiamao appears to show clear lexical and phonological traits of the Hlai group. For instance, Jiamao has /\(\text{th}\)/ ‘liver’, which is a lexical item unique to Hlai languages (cf. Baoding Hlai /\(\text{th}\)/, but Tai /\(\text{t}\)/, etc.); moreover, Jiamao /\(\text{kai}\)/ ‘chicken’ shows the aspiration of stop initials typical of the Hlai group (cf. Baoding Hlai /\(\text{kai}\)/, but Tai /\(\text{ka}\)/, etc).

Jiamao hosts a number of phonological reflexes that are distinct from those of other Hlai dialects. Some of these features seem to suggest that Jiamao split off early from the rest of Hlai varieties (which we may call Hlai Proper). Details of phonological comparisons between Jiamao and other Hlai varieties are presented elsewhere (Ostapirat 2004).

1. Jiamao shows two kinds of stop initials, voiceless aspirated and glottalized or implosive, corresponding to the voiceless aspirated stops \(*\text{ph}*- and \(*\text{th}*- in other dialects.

<table>
<thead>
<tr>
<th></th>
<th>Jiamao</th>
<th>(NH)</th>
<th>(CH)</th>
<th>(SH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>phu(^1)</td>
<td>phian(^1)</td>
<td>phe(^1)</td>
<td>pham(^1)</td>
</tr>
<tr>
<td>rice</td>
<td>thou(^1)</td>
<td>th(^5)</td>
<td>th(^2)</td>
<td>th(^2)</td>
</tr>
<tr>
<td>sparrow</td>
<td>bat(^7)</td>
<td>phat(^7)</td>
<td>phat(^7)</td>
<td>phat(^7)</td>
</tr>
<tr>
<td>seven</td>
<td>dau(^1)</td>
<td>thou(^1)</td>
<td>thou(^1)</td>
<td>thou(^1)</td>
</tr>
</tbody>
</table>

2. Likewise, Jiamao has either voiceless unaspirated or glottalized/implosive stops corresponding to only one set of stops in other dialects.

<table>
<thead>
<tr>
<th></th>
<th>Jiamao</th>
<th>(NH)</th>
<th>(CH)</th>
<th>(SH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>leaf</td>
<td>pi(^1)</td>
<td>beur(^1)</td>
<td>beur(^1)</td>
<td>beur(^1)</td>
</tr>
<tr>
<td>gall bladder</td>
<td>ti(^1)</td>
<td>dai(^1)</td>
<td>dai(^1)</td>
<td>dai(^1)</td>
</tr>
<tr>
<td>rice wine</td>
<td>bi:ŋ(^5)</td>
<td>biŋ(^5)</td>
<td>bi:ŋ(^2)</td>
<td>bi:ŋ(^2)</td>
</tr>
<tr>
<td>replant</td>
<td>dep(^7)</td>
<td>dap(^7)</td>
<td>dop(^7)</td>
<td>dup(^7)</td>
</tr>
</tbody>
</table>

\(^9\) Thurgood (1991a) considered it as a non-Hlai language.
3. Early nasal consonants which have become (prenasalized stops >) stops in some dialects also have two sets of reflexes in Jiamao.

<table>
<thead>
<tr>
<th></th>
<th>Jiamao</th>
<th>(NH)</th>
<th>(CH)</th>
<th>(SH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>dog</td>
<td>pou⁴</td>
<td>pa¹</td>
<td>pa¹</td>
<td>ma¹</td>
</tr>
<tr>
<td>field, paddy</td>
<td>tou⁴</td>
<td>ta²</td>
<td>ta²</td>
<td>na²</td>
</tr>
<tr>
<td>needle</td>
<td>kuat⁸</td>
<td>kta²</td>
<td>kut⁷</td>
<td>nta⁷</td>
</tr>
<tr>
<td>beard</td>
<td>mum²</td>
<td>pum⁶</td>
<td>pu:m³</td>
<td>mum:m³</td>
</tr>
<tr>
<td>six</td>
<td>nam⁴</td>
<td>tom⁴</td>
<td>tom¹</td>
<td>nom¹</td>
</tr>
<tr>
<td>sleep</td>
<td>ŋo⁴</td>
<td>kau²</td>
<td>kau²</td>
<td>ŋau²</td>
</tr>
</tbody>
</table>

4. Jiamao distinguishes t- and tsh- where others have tsh-.

<table>
<thead>
<tr>
<th></th>
<th>Jiamao</th>
<th>(NH)</th>
<th>(CH)</th>
<th>(SH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>eye</td>
<td>tou¹</td>
<td>tsha¹</td>
<td>tsha¹</td>
<td>tsha¹</td>
</tr>
<tr>
<td>four</td>
<td>tiau¹</td>
<td>tsho³</td>
<td>tshau¹</td>
<td>tsha:u³</td>
</tr>
<tr>
<td>tail</td>
<td>tshuat⁷</td>
<td>tshat⁷</td>
<td>tshut⁷</td>
<td>tshet⁷</td>
</tr>
<tr>
<td>wear</td>
<td>tsho:t²</td>
<td>tshat⁷</td>
<td>tshet⁷</td>
<td>tshet⁷</td>
</tr>
</tbody>
</table>

5. On the other hand, Jiamao merges some early palatal and velar sounds which are distinguished in other dialects.

<table>
<thead>
<tr>
<th></th>
<th>Jiamao</th>
<th>(NH)</th>
<th>(CH)</th>
<th>(SH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>sit</td>
<td>tsiaŋ¹</td>
<td>tŋ³</td>
<td>tsoŋ³</td>
<td>tsun³</td>
</tr>
<tr>
<td>old</td>
<td>tso¹</td>
<td>za⁴</td>
<td>za¹</td>
<td>za¹</td>
</tr>
<tr>
<td>crocodile</td>
<td>kai¹</td>
<td>kai³</td>
<td>kai³</td>
<td>kai³</td>
</tr>
<tr>
<td>pile up</td>
<td>kap⁷</td>
<td>–</td>
<td>go:p⁷</td>
<td>go:p⁷</td>
</tr>
</tbody>
</table>

6. Jiamao lost early final *-k in some rimes, and thus the early checked syllables have become open syllables.

<table>
<thead>
<tr>
<th></th>
<th>Jiamao</th>
<th>(NH)</th>
<th>(CH)</th>
<th>(SH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>high</td>
<td>phu⁵</td>
<td>phiaʔ⁷</td>
<td>phe:k⁷</td>
<td>pha:ʔ⁷</td>
</tr>
<tr>
<td>otter</td>
<td>nu²</td>
<td>tiaʔ⁷-t</td>
<td>te:k⁷</td>
<td>na:ʔ⁷</td>
</tr>
<tr>
<td>wash</td>
<td>tsha⁵</td>
<td>tshaʔ⁷</td>
<td>to:k⁷</td>
<td>tak⁷</td>
</tr>
<tr>
<td>deep</td>
<td>ŋa²</td>
<td>ŋoʔ⁷</td>
<td>ŋo:k⁷</td>
<td>dak⁷</td>
</tr>
</tbody>
</table>

Jiamao also lost final *-u and merged *eau and *au ( < al ) into -a.
In sum, Jiamao shows a number of unique phonological developments which suggest that it split off early from the rest of Hlai. Jiamao evidence, once fully incorporated into the comparisons, will alter the picture of PH reconstruction. On the other hand, it is possible that some Jiamao aberrancies result from interlectal loans and recent historical contact that may not reflex the early Hlai sound system.

22.3.5. Other varieties

22.3.5.1. Cun (Ngao Fon)

The Cun language is spoken in Dongfang and Changjiang Counties, with the number of speakers estimated at between 45,000 to 60,000. These people have lived for generations among the Chinese of the area and are officially placed with the Han (Chinese) nationality in China. This is also reflected by the fact that the Cun people are usually called Moi [moi], the Hlai word designating ethnic Han, by the local Hlai people.

The word Cun in Chinese means ‘village’ and such terms as Cun Hua ‘village language’ and Cun Ren ‘village people’ refer respectively to the language and the people of this group. These are Chinese equivalents of the native forms [tshan¹ fən¹] ‘language + village’ and [ŋau¹ fən¹] ‘people + village’.

The Cun language shows five tones in native words. These tones systematically reflex the PH tonal categories as shown in Table 22.3.5.1-1 (tone letters are as used in Ouyang (1998):

<table>
<thead>
<tr>
<th>PH tones</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tone letter</td>
<td>1</td>
<td>4</td>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td>Tone value</td>
<td>[35]</td>
<td>[13]</td>
<td>[21]</td>
<td>[42]</td>
</tr>
</tbody>
</table>

Examples:

<table>
<thead>
<tr>
<th>name</th>
<th>Cun</th>
<th>Yuanmen</th>
<th>Baoding</th>
<th>Heitu</th>
<th>Tones</th>
</tr>
</thead>
<tbody>
<tr>
<td>star</td>
<td>la:u³</td>
<td>ra:u¹</td>
<td>ra:u¹</td>
<td>ra:u¹</td>
<td>A2</td>
</tr>
<tr>
<td>dry</td>
<td>kha²</td>
<td>khau²</td>
<td>khau⁵</td>
<td>kheu²</td>
<td>B1</td>
</tr>
<tr>
<td>shoulder</td>
<td>va²</td>
<td>va³¹</td>
<td>va⁵⁵</td>
<td>va²⁴</td>
<td>B2</td>
</tr>
<tr>
<td>water</td>
<td>nam⁴²</td>
<td>nam⁴⁴</td>
<td>nom¹¹</td>
<td>nom¹¹</td>
<td>C1</td>
</tr>
<tr>
<td>skirt</td>
<td>lin¹³</td>
<td>rin¹³</td>
<td>ri:n¹¹</td>
<td>ri:n¹¹</td>
<td>C2</td>
</tr>
<tr>
<td>full</td>
<td>thiak³³</td>
<td>thi?⁵⁵</td>
<td>thi:k⁵⁵</td>
<td>thi:?⁴⁵</td>
<td>D1</td>
</tr>
<tr>
<td>centipede</td>
<td>lip¹³</td>
<td>rip¹³</td>
<td>ri:p⁵⁵</td>
<td>ri:p⁴⁵</td>
<td>D2</td>
</tr>
</tbody>
</table>

Some important phonological development in Cun can be noted as follows.

1. Cun shares a number of sound changes with Northern-Hlai varieties, including the nasal accretion from *ɛj- and *ɛw- to Ն- and Ր-:
Also similar to NH varieties, Cun often contrasts vowel height where CH and SH dialects distinguish vowel length:

<table>
<thead>
<tr>
<th>(NH)</th>
<th>(CH)</th>
<th>(SH)</th>
<th>PH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cun</td>
<td>Yuanmen</td>
<td>Zhongsha</td>
<td>Heitu</td>
</tr>
<tr>
<td>centipede</td>
<td>lip⁴</td>
<td>rip⁸</td>
<td>ri:p⁷</td>
</tr>
<tr>
<td>arm</td>
<td>khin¹</td>
<td>khin¹</td>
<td>khi:n¹</td>
</tr>
<tr>
<td>fly, v.</td>
<td>ben¹</td>
<td>ben¹</td>
<td>bin¹</td>
</tr>
<tr>
<td>spicy</td>
<td>het⁴</td>
<td>khet⁶</td>
<td>git⁷</td>
</tr>
<tr>
<td>hole</td>
<td>tshon³</td>
<td>tshon³</td>
<td>tshu:ŋ³</td>
</tr>
<tr>
<td>termite</td>
<td>lok⁴</td>
<td>pluʔ⁷</td>
<td>luʔ⁷</td>
</tr>
<tr>
<td>neck</td>
<td>ləŋ⁴</td>
<td>tson⁶</td>
<td>zuŋ³</td>
</tr>
<tr>
<td>stomach</td>
<td>bok⁴</td>
<td>pok⁸</td>
<td>puk⁷</td>
</tr>
</tbody>
</table>

PH *s- is reflexed as Cun tø-. This tø- becomes tsh- before the palatalized feature, which often developed secondarily from the influence of early palatal finals (e.g. *sat > tøiat > tshiat ‘bird’). PH *s- usually becomes t- in CH and SH varieties.

2. On the other hand, Cun has made a number of its own innovations. For instance, Cun has merged *s with *Ɂ and *a with *au (< al):

<table>
<thead>
<tr>
<th>(NH)</th>
<th>(CH)</th>
<th>(SH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cun</td>
<td>Yuanmen</td>
<td>Baoding</td>
</tr>
<tr>
<td>thread, v.</td>
<td>tøøk²</td>
<td>tshøk⁷</td>
</tr>
<tr>
<td>wash</td>
<td>tøak²</td>
<td>tshøʔ⁷</td>
</tr>
<tr>
<td>wart</td>
<td>tshuə²</td>
<td>tshuʔ⁷</td>
</tr>
<tr>
<td>bird</td>
<td>tshiat²</td>
<td>–</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>(NH)</th>
<th>(CH)</th>
<th>(SH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cun</td>
<td>Yuanmen</td>
<td>Baoding</td>
</tr>
<tr>
<td>eye</td>
<td>hø¹</td>
<td>tsha¹</td>
</tr>
<tr>
<td>thick</td>
<td>no¹</td>
<td>na⁴</td>
</tr>
<tr>
<td>dry</td>
<td>khø⁵</td>
<td>khaur³</td>
</tr>
</tbody>
</table>
THE HLAI LANGUAGE

short (height)  thɔ⁵  thau⁵  thau⁵  theu⁵  *ar

3. Cun makes certain distinctions that are seldom found in other dialects. Cun shows two initial reflexes /h/ and /tsh/ corresponding to /tsh/ in other dialects. This distinction, which has to be reconstructed for PH, is also kept in Jiamao.

<table>
<thead>
<tr>
<th></th>
<th>Cun</th>
<th>Yuanmen</th>
<th>Baoding</th>
<th>Heitu</th>
<th>Jiamao</th>
</tr>
</thead>
<tbody>
<tr>
<td>eye</td>
<td>hɔ¹</td>
<td>tsha¹</td>
<td>tsha¹</td>
<td>tsha¹</td>
<td>tou¹</td>
</tr>
<tr>
<td>four</td>
<td>hau³</td>
<td>tsho³</td>
<td>tshu³</td>
<td>tsha:u³</td>
<td>tiau¹</td>
</tr>
<tr>
<td>tail</td>
<td>tshat²</td>
<td>tshat⁷</td>
<td>tshut⁷</td>
<td>tshut⁷</td>
<td>tshuat⁷</td>
</tr>
<tr>
<td>wear</td>
<td>tshat²</td>
<td>tshat⁷</td>
<td>tshat⁷</td>
<td>tshet⁷</td>
<td>tshɔ:ṭ⁸</td>
</tr>
</tbody>
</table>

Cun has l- corresponding to fricatives (z- or z-) or affricates (ts- < *dz-or *dz-) in other Hlai dialects. This suggests the reconstruction of PH palatal lateral fricative *ɬ-:

<table>
<thead>
<tr>
<th></th>
<th>Cun</th>
<th>Yuanmen</th>
<th>Baoding</th>
<th>Heitu</th>
</tr>
</thead>
<tbody>
<tr>
<td>neck</td>
<td>lɔŋ⁴</td>
<td>tsɔŋ⁶ &lt; dz</td>
<td>zoŋ³</td>
<td>zoŋ³</td>
</tr>
<tr>
<td>ear</td>
<td>lai⁴</td>
<td>tsai⁴ &lt; dz</td>
<td>zai¹</td>
<td>zai¹</td>
</tr>
</tbody>
</table>

In some words, Cun has palatalized reflexes where others have dental/alveolar initials:

<table>
<thead>
<tr>
<th></th>
<th>Cun</th>
<th>Yuanmen</th>
<th>Baoding</th>
<th>Heitu</th>
</tr>
</thead>
<tbody>
<tr>
<td>rice</td>
<td>thɔ⁵</td>
<td>tha⁵</td>
<td>tha²</td>
<td>tha²</td>
</tr>
<tr>
<td>face, nose</td>
<td>tsen⁴</td>
<td>dɔŋ¹</td>
<td>daŋ¹</td>
<td>daŋ¹</td>
</tr>
</tbody>
</table>

To sum up, although having experienced enormous contact influence and borrowed a great amount of vocabulary from Chinese, Cun is linguistically a Hlai variety. It shares a number of phonological innovations with the Northern Hlai dialects. On the other hand, it shows certain developments that are not in evidence in other varieties. It remains to be seen whether Cun should be considered a primary subgroup that split off early from Proto-Hlai or one of the NH groups that was displaced early from the major areas of Hlai settlement and has since intermingled with the Chinese over a long period of time.

22.3.5.2. Natou

This variety is spoken in Dongfang county. Fu (1990) presented a list of around 70 words from this place; no new and substantial materials have been published since. The available data are thus very limited. Nonetheless, preliminary comparisons with other Hlai dialects seem to reveal that Natou possesses some characteristics of the Northern Hlai branch. The linguistic characteristics of Natou are described below.

1. Natou has four tones which correspond to PH tones as follows:

<table>
<thead>
<tr>
<th>PH tones</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tone letter</td>
<td>1</td>
<td>4</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Tone value</td>
<td>[11]</td>
<td>[21ɭ]</td>
<td>[42]</td>
<td>[25]</td>
</tr>
</tbody>
</table>
Examples:

<table>
<thead>
<tr>
<th></th>
<th>Natou</th>
<th>Yuanmen</th>
<th>Baoding</th>
<th>Heitu</th>
<th>Tones</th>
</tr>
</thead>
<tbody>
<tr>
<td>seven</td>
<td>thou¹</td>
<td>thou¹</td>
<td>thou¹</td>
<td>thu¹</td>
<td>A1</td>
</tr>
<tr>
<td>dog</td>
<td>pa²</td>
<td>pa¹</td>
<td>pa¹</td>
<td>ma¹</td>
<td>A2</td>
</tr>
<tr>
<td>worm</td>
<td>njen²</td>
<td>nan²</td>
<td>hjan²</td>
<td>hen²</td>
<td>B</td>
</tr>
<tr>
<td>black</td>
<td>dan²</td>
<td>dam³</td>
<td>dom³</td>
<td>dom³</td>
<td>C</td>
</tr>
<tr>
<td>blood</td>
<td>la⁷</td>
<td>ūat⁷</td>
<td>ɦaːt⁷</td>
<td>daːt⁷</td>
<td>D</td>
</tr>
</tbody>
</table>

2. Concerning final consonants, Natou shows more extensive changes than those of any other places. All proto stop finals (*-p, *-t, *-k), which have been preserved well in most Hlai dialects, have become glottal stop -ʔ and final *-m has merged to -n. These dramatic changes in final consonants are most likely to have arisen under influence of Chinese.

<table>
<thead>
<tr>
<th></th>
<th>Natou</th>
<th>Yuanmen</th>
<th>Baoding</th>
<th>Heitu</th>
</tr>
</thead>
<tbody>
<tr>
<td>worm</td>
<td>ʔeʔ⁷</td>
<td>kop⁷</td>
<td>kup⁷ (Ts)</td>
<td>kup⁷</td>
</tr>
<tr>
<td>nose</td>
<td>ʔaʔ⁷</td>
<td>khat⁷</td>
<td>khet⁷</td>
<td>*-t</td>
</tr>
<tr>
<td>blood</td>
<td>li⁷</td>
<td>ūat⁷</td>
<td>ɦaːt⁷</td>
<td>*-k</td>
</tr>
<tr>
<td>fall</td>
<td>ʔaʔ⁷</td>
<td>thok⁷</td>
<td>thok⁷</td>
<td></td>
</tr>
<tr>
<td>water</td>
<td>nam³</td>
<td>nam⁶</td>
<td>nom³</td>
<td>*-m</td>
</tr>
<tr>
<td>grass</td>
<td>kan³</td>
<td>kan⁶</td>
<td>kan³</td>
<td>*-n</td>
</tr>
<tr>
<td>hang</td>
<td>lin³</td>
<td>riŋ⁶</td>
<td>riːŋ³</td>
<td>*-ŋ</td>
</tr>
</tbody>
</table>

3. Natou shares Northern Hlai features such as the initial nasalization of PH *ʃj- and *ʃw-:

<table>
<thead>
<tr>
<th></th>
<th>Natou</th>
<th>Yuanmen</th>
<th>Baoding</th>
<th>Heitu</th>
</tr>
</thead>
<tbody>
<tr>
<td>worm</td>
<td>njen²</td>
<td>nan²</td>
<td>hjan²</td>
<td>*Xj-</td>
</tr>
<tr>
<td>hair (body)</td>
<td>njen¹</td>
<td>nmn⁴</td>
<td>hun¹</td>
<td>*Xw-</td>
</tr>
<tr>
<td>body</td>
<td>njun¹</td>
<td>nmn⁴</td>
<td>hu:n¹</td>
<td>*Xw-</td>
</tr>
</tbody>
</table>

Also similar to NH varieties, Natou contrasts vowel height where CH and SH dialects distinguish vowel length:

<table>
<thead>
<tr>
<th></th>
<th>Natou</th>
<th>Yuanmen</th>
<th>Baoding</th>
<th>Heitu</th>
</tr>
</thead>
<tbody>
<tr>
<td>fly, v.</td>
<td>ben¹</td>
<td>ben¹</td>
<td>benn¹</td>
<td>bin¹</td>
</tr>
<tr>
<td>hang</td>
<td>liŋ³</td>
<td>riŋ⁶</td>
<td>riːŋ³</td>
<td>*-iːŋ</td>
</tr>
<tr>
<td>wing</td>
<td>phi?⁷</td>
<td>phi?⁷</td>
<td>phiː?⁷</td>
<td>*-iːk</td>
</tr>
<tr>
<td>hair (body)</td>
<td>njen¹</td>
<td>nmn⁴</td>
<td>hun¹</td>
<td>*-un</td>
</tr>
<tr>
<td>body</td>
<td>njun¹</td>
<td>nmn⁴</td>
<td>hu:n¹</td>
<td>*-uːn</td>
</tr>
</tbody>
</table>

PH *s- has become f-. This PH *s- usually becomes *t- in CH and SH dialects.
4. On the other hand, Natou has experienced several changes of its own such as final consonant simplification described above. Other innovations include the following developments in initial consonants and vowels:

Velar/postvelar spirant initials become nasalized:

<table>
<thead>
<tr>
<th></th>
<th>Natou</th>
<th>Yuanmen</th>
<th>Baoding</th>
<th>Heitu</th>
</tr>
</thead>
<tbody>
<tr>
<td>ask</td>
<td>ɹan(^4)</td>
<td>kham(^1)</td>
<td>ga:(\text{m})(^1)</td>
<td>ga:(\text{m})(^1)</td>
</tr>
<tr>
<td>run</td>
<td>ɹeu(^2)</td>
<td>vou(^2)</td>
<td>gou(^2)</td>
<td>rou(^2)</td>
</tr>
</tbody>
</table>

*\(pl- > pj-\). This softening of medial -l- > -j- is known to occur in many Tai and Kam-Sui languages but is unique among Hlai dialects:

<table>
<thead>
<tr>
<th></th>
<th>Natou</th>
<th>Yuanmen</th>
<th>Baoding</th>
<th>Heitu</th>
</tr>
</thead>
<tbody>
<tr>
<td>house</td>
<td>pja(\text{n})(^3)</td>
<td>plo(\text{n})(^3)</td>
<td>plo(\text{n})(^3)</td>
<td>-</td>
</tr>
</tbody>
</table>

*\(f- > f-\)

<table>
<thead>
<tr>
<th></th>
<th>Natou</th>
<th>Yuanmen</th>
<th>Baoding</th>
<th>Heitu</th>
</tr>
</thead>
<tbody>
<tr>
<td>blood</td>
<td>ɹa(\text{i})(^7)</td>
<td>ɹa(\text{i})(^7)</td>
<td>ɹa:(\text{t})(^7)</td>
<td>da:(\text{t})(^7)</td>
</tr>
<tr>
<td>deep</td>
<td>ɹo(\text{i})(^7)</td>
<td>ɹo(\text{i})(^7)</td>
<td>ɹo:(\text{t})(^7)</td>
<td>da(\text{k})(^7)</td>
</tr>
<tr>
<td>many</td>
<td>ɹi(^7)</td>
<td>ɹu(\text{i})(^7)</td>
<td>ɹo:(\text{i})(^7)</td>
<td>da(\text{i})(^7)</td>
</tr>
</tbody>
</table>

Natou has a central low vowel -a- where others have back rounded vowels (plus velars):

<table>
<thead>
<tr>
<th></th>
<th>Natou</th>
<th>Yuanmen</th>
<th>Baoding</th>
<th>Heitu</th>
</tr>
</thead>
<tbody>
<tr>
<td>fall</td>
<td>th(\text{i})(^7)</td>
<td>th(\text{h}k)(^7)</td>
<td>th(\text{h}k)(^7)</td>
<td>th(\text{h}k)(^7)</td>
</tr>
<tr>
<td>stomach</td>
<td>pa(\text{i})(^7)</td>
<td>p(\text{ok})(^8)</td>
<td>pok(^7)</td>
<td>mok(^7)</td>
</tr>
<tr>
<td>house</td>
<td>pja(\text{n})(^3)</td>
<td>plo(\text{n})(^3)</td>
<td>plo(\text{n})(^3)</td>
<td>-</td>
</tr>
<tr>
<td>neck</td>
<td>za(\text{n})(^3)</td>
<td>tso(\text{n})(^6)</td>
<td>zo(\text{n})(^3)</td>
<td>zo(\text{n})(^3)</td>
</tr>
</tbody>
</table>

In sum, Natou shows characteristics of the Northern Hlai branch, but more data are needed to confirm its place. The final consonants, which are relatively stable in most Hlai dialects, are drastically simplified in Natou; this reflects heavy contact with the Chinese.

### 22.4. OTHER LINGUISTICS FEATURES

#### 22.4.1. Syntax

The study on the grammar and syntax of Hlai languages is still in its infancy. We may only note here some preliminary word order and typological features. Examples are from Baoding dialect unless indicated.

1. A sentence has a SVO order:

   \[\text{hou}^1 \quad \text{thai}^2 \quad \text{pa}^1 \quad \text{‘I beat the dog’}\]

   \[\text{I} \quad \text{beat} \quad \text{dog}\]
2. A head noun precedes modifiers or adjuncts (including pronoun and demonstrative):

- **N + Adjective**
  - \( \text{pha}^3 \text{ len}^1 \) ‘good person’
  - \( \text{person} \text{ good} \)

- **Noun + Demonstrative**
  - \( \text{tui}^3 \text{ nei}^2 \) ‘this buffalo’
  - \( \text{buffalo} \text{ this} \)

- **N + Pronoun (possessive)**
  - \( \text{plo}^3 \text{ hou}^1 \) ‘my house’
  - \( \text{house} \text{ I} \)

In dialects that have been heavily influenced from Chinese, the Chinese pattern may interfere. For instance, Cun has two ways to say ‘my clothes’; the first type follows the N + Pronoun order to indicate possession and the second type shows the Chinese pattern Pronoun + di + Head N, where /di/ is a particle corresponding to Chinese 的 /de/.

\( \text{van}^4 \text{ ka}^5 \) or \( \text{ka}^5 \text{ di}^2 \text{ van}^4 \)

- \( \text{clothes} \text{ I} \) or \( \text{I} \text{ part.} \text{ clothes} \)

3. A quantitative phrase usually has a classifier; the typical order is Numeral + Classifier + Head Noun:

\( \text{la}^3 \text{ la}^1 \text{ pa}^1 \) ‘two dogs’

\( \text{two} \text{ clf} \text{ dog} \)

4. A Head Verb may be preceded by an adverb (including directional verbs such as /hei^1/ ‘go’ and /phn^1/ ‘come’):

\( \text{meu}^1 \text{ khun}^2 \text{ hei}^1 \) ‘you go first’

\( \text{you} \text{ first} \text{ go} \)

\( \text{meu}^1 \text{ tai}^3 \text{ tai}^3 \text{ fei}^1 \) ‘(you) walk slowly’

\( \text{you} \text{ slow} \text{ slow} \text{ walk} \)

\( \text{hou}^1 \text{ hei}^1 \text{ lui}^1 \text{ nom}^3 \) ‘I go down to the river’

\( \text{I} \text{ dir.} \text{go} \text{ descend} \text{ river(water)} \)

5. Comparisons and experience. The morpheme /dua^3/ (literally ‘pass, cross over’) may indicate a comparative degree when following a descriptive verb or adjective. When following certain groups of verbs, it may indicate experience.
meu¹ phck⁷ dua³ hou¹ ‘You are taller than I’
you tall ‘pass’ I

hou¹ lai³ dua³ meu¹ ‘I have seen you’
I see ‘pass’ you

Perfective may be indicated by using the morpheme /bai³/ (literally ‘finish’) before the verb. The final particle /ne¹/, similar to Chinese /le/, is also usually added after the verb.

pai³ khai¹ bai³ zu:m¹ ne¹
female chicken ‘finish’ (lay) egg part.
‘The hen has already laid an egg.’

6. Negation. The negative morpheme /ta¹/ precedes the verb or adjective:

   ta¹ loi¹ ‘not much’
   not many

   hou¹ ta¹ hei¹ ‘I do not go’
   I not go

7. Prepositional phrases:

tsho² du³ teu¹ tsho¹ ‘put on the table’
put part.’stay’ above table

tson³ du³ fou¹ tshai¹ ‘sit under the tree’
sit part.’stay’ under tree

22.4.2. Orthography

The orthography of the Hlai language was created in 1952, concurrent with the establishment of ‘the Hainan Li-Miao Autonomous Prefecture’. This alphabetical system is partially modeled after the Pinyin or romanized system of Mandarin Chinese. Those who are familiar with Pinyin will notice the similar use of such graphs as b, d, g to represent IPA voiceless unaspirated stops /p t k/ while p, t, k are used to represent IPA voiceless aspirated stops /ph th kh/. A number of innovations were made, of course, since the sound inventories of the Hlai languages are different from those of Mandarin.

The Baoding dialect was selected as a standard for this system, though features in the other dialects were also taken into consideration. The phonetic values of the orthography in native words may be summarized as follows.

Consonants (initial)

<table>
<thead>
<tr>
<th>Consonant</th>
<th>Pronunciation</th>
</tr>
</thead>
<tbody>
<tr>
<td>bh</td>
<td>/b/</td>
</tr>
<tr>
<td>dh</td>
<td>/d/</td>
</tr>
<tr>
<td>gh</td>
<td>/g/</td>
</tr>
<tr>
<td>b</td>
<td>/p/</td>
</tr>
<tr>
<td>d</td>
<td>/t/</td>
</tr>
<tr>
<td>g</td>
<td>/k/</td>
</tr>
<tr>
<td>p</td>
<td>/ph/</td>
</tr>
<tr>
<td>t</td>
<td>/th/</td>
</tr>
<tr>
<td>k</td>
<td>/kh/</td>
</tr>
<tr>
<td>f</td>
<td>/f/</td>
</tr>
<tr>
<td>h</td>
<td>/h/</td>
</tr>
<tr>
<td>m</td>
<td>/m/</td>
</tr>
<tr>
<td>n</td>
<td>/n/</td>
</tr>
<tr>
<td>ng</td>
<td>/ŋ/</td>
</tr>
<tr>
<td>v</td>
<td>/v/</td>
</tr>
<tr>
<td>r</td>
<td>/r/</td>
</tr>
<tr>
<td>dz</td>
<td>/z/</td>
</tr>
<tr>
<td>w</td>
<td>/ɻ/</td>
</tr>
<tr>
<td>l</td>
<td>/ɻ/</td>
</tr>
<tr>
<td>y</td>
<td>/ŋ/</td>
</tr>
<tr>
<td>z</td>
<td>/z/</td>
</tr>
</tbody>
</table>
Notes:
*j* and *q* are used for /ts/ and /tsh/ before the high front vowel -i-; elsewhere *z* and *c* are respectively used. For instance, *jieu* = /tsiu/ ‘savage, wild’, *zeeng* = /tseŋ/ ‘ear of grain’; *qien* = /tshin/ ‘stone’, *ca* = /tsha/ ‘eye’. Complex initials are written by combining two graphs. For instance, *bl* = /pl/, *hy* = /hj/, *hw* = /hw/, *ghw* = /gw/, *ngw* = /ŋw/, etc.

Vowels

<table>
<thead>
<tr>
<th>i</th>
<th>/i/*</th>
<th>uu</th>
<th>/u/</th>
<th>u</th>
<th>/u/*</th>
</tr>
</thead>
<tbody>
<tr>
<td>e</td>
<td>/e/</td>
<td>o</td>
<td>/o:/</td>
<td></td>
<td></td>
</tr>
<tr>
<td>a</td>
<td>/a/</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes:
*i* is pronounced /e/ before /-n,-t/, e.g., *bhin* = /fən/ ‘to fly’, *ghit* = /get/ ‘spicy’.
*u* is pronounced /o/ when followed by grave finals, e.g., *um* = /om/, *up* = /op/, *ung* = /oŋ/, *uk* = /ok/. Elsewhere it is pronounced /u/, e.g., *un* = /un/.
*o* is pronounced /o/ only in the diphthong ou /ou/; elsewhere it represents /o/.

Length is represented by adding the graph -e- after the vowels. For instance, *a* = /a/, *ae* = /a/, *i* = /i/, *ie* = /i/, etc.

Diphthongs are written by combining two graphs, e.g. *ia* = /ia/, *ua* = /ua/, *ai* = /ai/, *auu* = /au/, etc.

Final consonants

<table>
<thead>
<tr>
<th>-m</th>
<th>/m/</th>
<th>-n</th>
<th>/n n/</th>
<th>-ng</th>
<th>/ŋ/</th>
</tr>
</thead>
<tbody>
<tr>
<td>-p</td>
<td>/p/</td>
<td>-t</td>
<td>/t t/</td>
<td>-k</td>
<td>/k/</td>
</tr>
</tbody>
</table>

The distinction between alveolar and palatal endings has been neutralized in the orthography. For instance, the form /dhat/ may represent either [dat] ‘real’ or [da] ‘insipid’ in Baoding. Note also that the voiceless unaspirated stops [p t k] are written with the graphs -p, -t, -k when they occur as finals; when they occur as initials these stops are represented by b-, d-, g-.

Tones
In native words, Hlai tonal categories A, B, C, and D are represented by the symbols as shown in Table 22.4.2-1. The Hlai tonal categories B, and C are marked with the graphs -x and -s at the end of the forms; when nothing is added, the form indicates tone A. Tone D syllables are readily shown by stop endings.

**TABLE 22.4.2-1: ORTHOGRAPHY OF HLAI TONES**

<table>
<thead>
<tr>
<th>Tonal categories</th>
<th><em>A</em></th>
<th><em>B</em></th>
<th><em>C</em></th>
<th><em>D</em></th>
</tr>
</thead>
<tbody>
<tr>
<td>Graphs</td>
<td>zero</td>
<td>-x</td>
<td>-s</td>
<td>zero</td>
</tr>
<tr>
<td>Tonal values</td>
<td>[53]</td>
<td>[55]</td>
<td>[11]</td>
<td>[55]</td>
</tr>
<tr>
<td>(Baoding)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Examples:

\[ hlaeu /\text{\textipa{a:u53}}/ \] burn, v.
\[ hlaeux /\text{\textipa{a:u55}}/ \] die
\[ hlaeus /\text{\textipa{a:u11}}/ \] heart
\[ hlaet /\text{\textipa{a:t55}}/ \] blood

**ABBREVIATIONS**

B Be
By Buyang
K Kam
Kd Kra-Dai
Lh Laha
Lk Lakkja
Lz Laozhai (Gelao)
Ph Paha
PH Proto-Hlai
S Sui

**REFERENCES**


Lacouperie, Terrain de (1887) The Languages of China before the Chinese, London: David Nutt.


### APPENDICES

#### A. TONAL CORRESPONDENCES AMONG HLAI DIALECTS

<table>
<thead>
<tr>
<th>Tones</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dialects</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Heitu</td>
<td>454</td>
<td>24</td>
<td>11</td>
<td>45</td>
</tr>
<tr>
<td>Baoding</td>
<td>53</td>
<td>55</td>
<td>11</td>
<td>55</td>
</tr>
<tr>
<td>Zhongsha</td>
<td>53</td>
<td>55</td>
<td>11</td>
<td>55</td>
</tr>
<tr>
<td>Tongshi</td>
<td>33</td>
<td>11</td>
<td>51</td>
<td>121</td>
</tr>
<tr>
<td>Qiandui</td>
<td>33</td>
<td>11</td>
<td>42</td>
<td>21</td>
</tr>
<tr>
<td>Baocheng</td>
<td>44</td>
<td>22</td>
<td>53</td>
<td>31</td>
</tr>
<tr>
<td>Xifang</td>
<td>53</td>
<td>55</td>
<td>24</td>
<td>55</td>
</tr>
<tr>
<td>Baisha</td>
<td>11</td>
<td>31</td>
<td>33</td>
<td>11</td>
</tr>
<tr>
<td>Yuanmen</td>
<td>42</td>
<td>11</td>
<td>51</td>
<td>131</td>
</tr>
<tr>
<td>Cun</td>
<td>35</td>
<td>13</td>
<td>21</td>
<td>42</td>
</tr>
<tr>
<td>Natou</td>
<td>11</td>
<td>21</td>
<td>42</td>
<td>25</td>
</tr>
</tbody>
</table>

* Baocheng’s tonal split in the *D1 series is conditioned by vowel length: [44] for syllables with short vowels and [53] for syllables with long vowels.
B. MAP OF HAINAN ISLAND AND
THE HAINAN LI-MIAO AUTONOMOUS PREFECTURE
CHAPTER TWENTY-THREE

KRA OR KADAI LANGUAGES

Jerold A. Edmondson

23.1. INTRODUCTION

The Kra or Kadai language group is a relatively uncelebrated stock with small populations living in South China’s Guizhou Province, Yunnan Province and Guangxi Zhuang Autonomous Region, as well as in Vietnam’s Cao Bằng Province, Hà Giang Province, Lào Cai Province, and Sơn La Province. Unlike the better known Kam-Tai Branch, the Kra data and history have been little discussed. In the listings below we have given their names in English, Chinese, and Vietnamese. There are seven languages in this group, which are listed in order of the number of speakers:

- Lachi, 拉基, La Chi, 10,000 speakers
- Gelao, 仡佬 Co Lao, in all countries, 7,900 speakers
- Paha, 巴哈, Langjia 兰家架, Ecun 峨村, Yalhong 雅郞 (collectively Buyang 布央), 2,000 speakers
- Laha, 拉哈 La Ha, 1,400 speakers
- Pubiao, 普标, Qabiao, Pu Peo, 700 speakers
- En, 侬文, Nùng Vên, 250 speakers

The total number of speakers amounts perhaps to 22,000.

The Gelao ethnicity and some of their terms were mentioned in Chinese chronicles and gazetteers from a period well before the Tang Dynasty (618-907 AD). Scholars believe the Gelao precursors were those people recorded during Han times (206 BC to 220 AD) as the 洓 Pu and later the 僚 Lao. Many lexical items from the Lao find reflexes in some forms of the Gelao language, e.g. lǎn-gān 阁干. For example, the Book of the Latter Han Dynasty: Chapter on the SW Barbarians 後漢書 西南夷卷 Houhan Shu: Xinan Yijuan states that the Lao used densely woven flax (jute or linen), which in Gelao is still called lā21 or liē33 (Zhang 1993: 3). Also the name gānlǎn 干兰 is used for a multistory house. Perhaps, these two characters were used to record this name according to the qiéyün 切韵 ‘cut the rhyme’ practice of that day in which the initial consonant of the first syllable is to be added to the rhyme and sometimes the entire second syllable so [k-an] + [lan] is a way transcribing k+lan. Ostapirat 2000 has recently provided detailed descriptions and reconstructions of this language group reconstructing ‘house’ as *kranA and the form klan is a close approximation of that, as l and r are not clearly distinguished in this geographic area. The recorded history

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1 The research reported on here has been sponsored by a 1995 grant NEH RT-21754-95 from the National Endowment for the Humanities and by the grants SBR 9511285 and SBR 9729043 from the National Science Foundation to the author and Dr Kenneth J. Gregerson all entitled ‘Languages of the Vietnam-China Borderlands’. I wish also to acknowledge the assistance of Profs. Nguyễn Văn Lợi, Hoàng Văn Ma, and Tổ Văn Thang, who arranged and accompanied me on the field trips that led to the data and analysis here. I also wish to thank Ms Shen Yu-May, who has provided me with data on several other kinds of Gelao from her own fieldwork elicitation.
of the the Lachi is not as long, as they are thought to have moved about 200-300 years ago into Chinese territory in Yunnan from locations in Vietnam called 麥布 Maibu,麥督 Maidu, and 麥哈 Maiba. Reports about the other Kra languages are of much more recent provenience. For example, the Buyang complex appeared in Liang 1990 with deeper studies by Li Jinfang 2000. The En or Nùng Vên language was reported only in Edmondson, Nguyên, and Hoàng 1999. Indeed the data presented here for the first time on En is based on the author’s own fieldwork investigations as well as my data on Qabiao, Laha, Lachi and Gelao; Buyang materials are taken from Li Jinfang, some Gelao material from my student Shen Yu-may, and some materials from Ostapirat 2000.

Ostapirat 2000 has also suggested a new name for the group Kra. He argues that the lexical item kra C ‘person’ in many of Kra languages is descended from *kraC ‘people’ in the parent language, comparing this root to Standard Thai khaa C1 ‘slave, servant’, which originally meant ‘people, common people’, who were in many cases vanquished during the Tai expansion over their territory. During my fieldwork on the Noong Lay Laha, Mr Sam, one of the local sages and an important informant for present and past fieldwork, noted that the khla C1 in khla phlao ‘their autonym’ meant ‘slave’ in the Black Thai of their surrounding neighbors.

23.2. KRA OR KADAI AND THE KAM-SUI BRANCH

While in the past there was some uncertainty whether this language group was related to Kam-Sui and Tai languages, that doubt has in recent years been definitely put to rest by Ostapirat (2000). The Kra or Kadai languages evidence several hallmark features that unequivocally confirm that Kra and Kam-Tai are descended from a common parent language. Some of the most important shared phonological and lexical features are:

I. Kra and Kam-Tai languages have a similar tonal organization that enables the reconstruction of a common parent tonal system from which both are derived.

II. Kra and Kam-Tai both have a special kind of glottal constriction at the end of a syllable that is found in vocabulary descended from the proto-C tone. This phenomenon is independent of the loss of coda in some Kra languages in items in the original D tone category, which also results in a glottal constriction.

III. Kra and Kam-Tai rhymes may be long or short when they are followed by a consonantal syllable coda /-p -t -k -m -n -ŋ -l -i –u/. Moreover, length is present before coda in the conservative Laha language of the village at Noong Lay, which has preserved a coda –l. This is also found in the Saek language of Nakhon Phanom at Ban Phay Lom, Thailand (Hudak 1993).

IV. Kra and Kam-Tai share a great many lexical items, some in common with Tai, some in common with Kam-Sui, and some in common with both groups. There are also many etyma whose origins are unique to Kra languages and not belonging to the set it shares with Kam-Sui or Tai vocabulary.

V. There is evidence in both Kra and Kam-Tai that original forms in the proto language may have included some sesqui-syllabics (weak first syllable plus strong second syllable) along with monosyllabics.

The first of these important pieces of evidence connecting Kra with Kam-Tai is the tonal organization. Comparative evidence tells us that there were four original tones, called in
Kam-Tai studies *A, *B, *C, and *D. In Kra languages there are also these four tone categories. In both groups the *A, *B, *C, and *D tones often go on to split into high and low tone reflexes, depending upon whether the initial consonant was voiceless or voiced, respectively. Generally speaking, Kra languages tend to evidence fewer such tone splits than Kam-Tai. Moreover, despite many exact correspondences in A, B, C, and D tonal category between Kam-Tai and Kra, there are also many cases of presumed cognates that show conflicting tonal categories:

<table>
<thead>
<tr>
<th>Gloss</th>
<th>Sack</th>
<th>Sui</th>
<th>En</th>
<th>Laha NL/TM</th>
<th>Proto-Kra</th>
</tr>
</thead>
<tbody>
<tr>
<td>‘fish’</td>
<td>pla\textsuperscript{A1}</td>
<td>pa\textsuperscript{A1}</td>
<td>pan\textsuperscript{A1}</td>
<td>la\textsuperscript{A1}</td>
<td>*p-la\textsuperscript{A}</td>
</tr>
<tr>
<td>‘ear’</td>
<td>rua\textsuperscript{A2}</td>
<td>qha\textsuperscript{A1}</td>
<td>khe\textsuperscript{33}</td>
<td>ra\textsuperscript{53}</td>
<td>*k-ra\textsuperscript{A}</td>
</tr>
<tr>
<td>‘bone’</td>
<td>(\text{?bli}\textsuperscript{A1} \text{?do}\textsuperscript{B1} \text{?dwa}\textsuperscript{A1} \text{?dau}\textsuperscript{A1} \text{?dap}\textsuperscript{D1} \text{?thaup}\textsuperscript{A2} \text{?dau}\textsuperscript{A2} \text{?dak}\textsuperscript{D2} \text{?dai}\textsuperscript{D1} \text{?dau}\textsuperscript{A2} \text{?dau}\textsuperscript{A2} \text{?dak}\textsuperscript{D2} \text{?dai}\textsuperscript{D1} \text{?dai}\textsuperscript{D1} \text{?dak}\textsuperscript{D2} \text{?dai}\textsuperscript{D1} \text{?dai}\textsuperscript{D1} \text{?dak}\textsuperscript{D2} \text{?dai}\textsuperscript{D1} \text{?dai}\textsuperscript{D1} \text{?dak}\textsuperscript{D2} \text{?dai}\textsuperscript{D1} \text{?dai}\textsuperscript{D1} \text{?dak}\textsuperscript{D2} \text{?dai}\textsuperscript{D1} \text{?dai}\textsuperscript{D1} \text{?dak}\textsuperscript{D2} \text{?dai}\textsuperscript{D1} \text{?dai}\textsuperscript{D1} \text{?dak}\textsuperscript{D2} \text{?dai}\textsuperscript{D1} \text{?dai}\textsuperscript{D1} \text{?dak}\textsuperscript{D2} \text{?dai}\textsuperscript{D1}</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>‘gallbladder’</td>
<td>– \text{?baan}\textsuperscript{C1}</td>
<td>– \text{?baan}\textsuperscript{C1}</td>
<td>\text{?baan}\textsuperscript{C1}</td>
<td>\text{?baan}\textsuperscript{C1}</td>
<td>\text{?baan}\textsuperscript{C1}</td>
</tr>
</tbody>
</table>

The second common feature of Kra and Kam-Tai is glottal constriction in vocabulary descended from proto-C tone, a special characteristic connected with this tone category in ?Kra and Tai (Kam-Sui does not show it). We indicate this feature with a glottal stop placed after the numbers representing the pitch trajectory, e.g. Laha \textit{ma}\textsuperscript{41} ‘horse’.

![Horse Waveform + Smooth](image-url)

**FIGURE 23.2-1:** LALA NOONG LAY WAVEFORM AND PITCH TRACK \textit{tu}\textsuperscript{33} \textit{ma}\textsuperscript{41}\textsuperscript{7} ‘CLF-HORSE’

In Figure 23.2-1, one can see the rapidly decreasing waveform with a few very weak glottal vibrations at the end of the second syllable. Of course, \textit{ma}\textsuperscript{C2} ‘horse’ is an example of a \textit{Wanderwort} that appears widely in many families of E and SE Asia. But glottal constriction is also found in *C vocabulary not shared with Tai, cf. the example \textit{\textit{ay}\textsuperscript{41}\textsuperscript{7} ‘water’}. 

![Wanderwort](image-url)
The third feature Kra and Kam-Tai share is vowel length contrast before codas. Many Kra languages have simplified their word structure shapes to permit only open syllables. However, Laha, Buyang, Qabiao, Paha, and En preserve codas and rhymes sufficiently to indicate that Kra languages once had a syllable coda as a possible word structure as well. Interestingly, there is evidence that vowels before final -l also distinguished length. One feature of Kra that is not found in Kam-Tai is the advanced state of atrophy of the right side of the syllable, especially in Gelao and Lachi, in which many final voiceless stops (though at times preserved as a final glottal catch) and even many of the nasals have disappeared through phonological change. The lack of codas has led to sound changes in the rhymes and probably the genesis of additional tones.

The common lexicon of Kra and Kam-Tai will be illustrated copiously below so I shall pass over this for the moment.

The fifth shared feature is the evidence for the reconstruction of prefixes or augmentative consonants before the stem, which may reflect a word structure composed of a weak syllable before a strong one. Ostapirat (2000) has reconstructed proto-Kra forms such as: *l-ma^A (*lal^A-ma^A) ‘tongue’, *k-ra^A ‘ear’, *x-ma^A ‘dog’, *x-mu^A ‘pig’, *p-la^A ‘fish’, *m-djan^A ‘moon’, *d-la^A ‘near’, *k-li^A ‘far’, and *m-ru^A ‘eight’. Kam-Tai also has this feature, which is most clearly seen in archaic Kam-Sui languages Sui and Lakkja (Lakkia). As was shown in Edmondson and Yang (1988), there is a systematic alternation between Sui and Lakkja forms such that Lakkja manifests a consonant with a nasalized vowel in the same places where Sui has a complex initial (cf. Edmondson and Yang 1988: 151, 152):

<table>
<thead>
<tr>
<th>Proto-Form</th>
<th>Lakkja</th>
<th>Sui</th>
<th>Gloss</th>
<th>Lakkja</th>
<th>Sui</th>
<th>Gloss</th>
</tr>
</thead>
<tbody>
<tr>
<td>*kh-ma^A</td>
<td>khwo^1</td>
<td>m^1</td>
<td>‘dog’</td>
<td>kuu^1</td>
<td>m^1</td>
<td>‘bear’ (n.)</td>
</tr>
<tr>
<td>*kh-mu^A</td>
<td>kuu^1</td>
<td>m^1</td>
<td>‘pig’</td>
<td>kjo^3</td>
<td>m^3</td>
<td>‘before, face’</td>
</tr>
<tr>
<td>*kh-gai^A</td>
<td>khej^1</td>
<td>e^1</td>
<td>‘move’</td>
<td>kow^2</td>
<td>?nam^1</td>
<td>‘hold in mouth’</td>
</tr>
<tr>
<td>*kh-nep^D</td>
<td>kh^7ep</td>
<td>nj^7p</td>
<td>‘stir fire’</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

These examples should be compared to those without a prefix:

Lakkja      Sui | Gloss
miec^7      mja^1 | ‘hand’

As these examples show, Lakkja has kh- plus nasalized vowel where Sui has a voiceless nasal, and Lakkja has k- plus nasalized vowel where Sui has a preglottalized nasal, suggesting perhaps the existence of an initial preconsonant, cf. proto-Kra ‘dog’ and ‘pig’ for similar structures.

Finally, it must be pointed out that Hlai, cf. Ostapirat (Chapter 22 of this volume), possesses features that would put it at a greater linguistic distance from Kra and Kam-Sui. It possesses the codas /n l/, which must have disappeared in Kra and Kam-Tai. There are other differences: d ~ l are not found in Kra or Kam-Sui. Also Hlai seems to have undergone a rather different tonal development than Kra and Kam-Tai. So it seems that the Hlai language must be accorded a place more distant from Kra and Kam-Tai.

Having tentatively located Kra within the wider family, I now turn to discussing the individual languages. In the following I will concentrate on examples of new data, as Ostapirat (2000) has done much to establish the relationship among members of this group. We now turn to examining information about the members of this group.

23.3. GELAO

The Gelao language has the largest number of speakers, perhaps numbering 7,900. The Gelao people are settled in territory from northern Guizhou Province to the border areas of northern Vietnam in Hà Giang Province. Mostly, they live today in mixed villages with
other groups of the area and no longer have mono-ethnic settlements of their own. One of the consequences of this pattern is that there is today great diversity in the languages in various places. Usually, speakers from one village are unable to communicate with Gelao people from even nearby locations. Some varieties of Gelao are highly endangered.

23.3.1. Phonology and subdivisions

According to Ostapirat (2000: 26) there are three subvarieties of Gelao, which he labels *Southwestern* (represented in our data by Dòng Văn District Phố Là Village), *Central* (represented by Wanzi near Anshun City in Guizhou Province, China, autonym klau³³, data from He 1983), and *Northern*, represented here by Bigong. We include in our data as well examples from Red Gelao and ha³³ kei³³ Gelao at Sanchong in Guangxi Province (known as Green Gelao in Vietnam). During a visit to Hà Giang Province, Vietnam, May 25, 1997, Edmondson was able to gather data on a type then unreported in China. There are only two villages in Vietnam (Na Khe and Bich Dich of Yên Minh District) where this language is still spoken by perhaps 50 people and one village in China at Fanpo in Malipo County of Yunnan Province, cf. Edmondson and Li 2003. Often brides are sent back and forth between these two non-contiguous places in order to ensure the continuation of the language and culture. These people call themselves va³³ ntu³³.

The differences among the three branches are quite large. The SW forms have retained voicing in A2, B2, C2, and D2 tone categories and have even developed prenasalization. The northern forms show a development of /t/ to /z/ (called *spirant reflexes* by Ostapirat), e.g. ‘eye’ ze⁴⁴ at Qiaoshang (N) and zau⁵¹ at Bigong (N) vs. tau⁵⁷ at Laozhai (SW), and voiceless nasals to uvulars, e.g. ‘dog’ kwau³¹ at Qiaoshang (N) vs. n⁵⁷ at Laozhai (SW). The fricative initials in northern Gelao types are reflexes of retroflex initial of the parent language, cf. Ostapirat (2000: 26). This contrast has been merged in both SW and Central varieties and thus represents a shared innovation, suggesting perhaps that SW and C are slightly more closely related to one another than to the northern type. Another major Gelao type was left unclassified in Ostapirat, those varieties of Gelao with autonym Hagei, Hoki, etc. Sanchong is an example of this type, where they call themselves ha³³ kei³³. Shen (2003) shows, however, that Sanchong undergoes the same changes as those found in Wanzi for the rhyme -ak, which in both places has become -aŋ. Some examples descended from *-ak are: ‘bone’ (in the table below), Sanchong liŋ³³ and Wanzi lan⁵¹ ‘deep’ from proto-Kra *(h)lak D2, Ostapirat (2000: 235), and Sanchong ntsañ³³ and Wanzi tsañ³³ ‘to hear’, from proto-Kra *(ŋ)ak D2, Ostapirat (2000: 241). Therefore, it appears that the classification of the Green Gelao types has been solved; they are Central Gelao types.

As for the Red Gelao language exemplified below, it is indeed a piece of good fortune that we have been able to gather data on this smallest member of the Gelao complex while there are still some fluent speakers, though admittedly we possess at present only a limited word list. The Red Gelao people of call themselves va³³ ntu³³ Gelao-red with va³³ representing a C1 tone and corresponding to klau³³ of Wanzi; it probably represents a form derived from vei³³ ‘person’ with assimilated final. It shares the feature of prenasalization of voiced stop initials, such as nte³³ xə³⁷ B1 ‘head’ and ma³³ ndu⁵² A1 ‘star’. Also, there are examples of retained voiceless nasals and laterals: ma³³ ny³³ ‘flea’, qa⁵⁵ nu⁵³ ‘nose’, ᵗ³³ bn⁵⁵ ‘heart’. The development of voiceless nasals from the parent language into Red Gelao has taken some distinctive turns when velars are involved. Specifically, Red Gelao has evolved a rule of that moves a velar nasal or resonant such as /-r-/ in an initial consonant cluster with h- or x- to word final or coda position or perhaps. A more precise statement would be that the opening of the velic has been delay to the word final position. Consider the examples below (reconstructions from Ostapirat 2000): pig *x-mu³ > fon⁴⁴ or mop⁵⁵ ‘belly’ *hmok³³ > fon³³, ‘dog’ *xma³ > xaj⁴⁴, ‘head’ *krai³³ > xu³³, ‘road’ *kron³ > xi⁴⁴, ‘ripe’ *hmwu³ > xon⁵³, ‘wait’ *hna(utu)³³ > xii⁴⁴.

Red Gelao has some more conservative traits than SW Gelao in preserving final nasals (there are examples of both -n and -ŋ), e.g. bn³³ C1 ‘heart’, nwa³³ ᵗ³³ n⁵³ C1 ‘mushroom’ and fon⁵¹ B1 ‘sticky’, but ᵗ³³ nay⁵¹ A2 ‘salt’, (though *pan ‘teeth’ A1 has become pon⁵⁵ A1)
while eliminating most initial clusters, e.g. *pl- in favor of *p-, cf. *pu₃⁵ ‘boil, ulcer’. Moreover, we noted that it has innovated a rule of nasal transportation and of vowel breaking from original *-a not found in SW Gelao types. It does not follow Central Gelao types in having reflexes of the original *-ak become -aŋ in some others: ma₄₅ ntu₄₅ ‘bone’ from *d₄kg and qa₄⁵-taro from *p-yak⁵ (cf. Ostapirat 2000). Clearly Red Gelao is close to SW Gelao but seems to differ from it at the same time. Thus we will have leave open the question whether Red Gelao constitutes a separate branch of the parent proto-Gelao language. It seems to us likely instead that it is a distant sister to SW types such as White Gelao.

A view of Central and SW Gelao can be exemplified by the following set of data:

<table>
<thead>
<tr>
<th>Gloss</th>
<th>Central</th>
<th>Southwestern</th>
<th>Red Gelao</th>
<th>Central</th>
</tr>
</thead>
<tbody>
<tr>
<td>‘autonym’</td>
<td>klau⁵⁵</td>
<td>te₄⁵lo₃⁵ (Lz/PL)</td>
<td>va₃⁵nto₃¹ (Na</td>
<td>ha₅³ke₃³ (Sc)</td>
</tr>
<tr>
<td>‘blood’</td>
<td>pla D₁</td>
<td>pl₄³³/pl₄³¹ D₁</td>
<td>pai₃¹ D₁</td>
<td>pla₇⁵³ D₁</td>
</tr>
<tr>
<td>‘bone’</td>
<td>ton D₂</td>
<td>---</td>
<td>ma₃⁵ndu₄³¹ D₁</td>
<td>---</td>
</tr>
<tr>
<td>‘boil’ (n.)</td>
<td>plau C₁</td>
<td>---</td>
<td>lu₄⁴pu₃⁵ C₁</td>
<td>---</td>
</tr>
<tr>
<td>‘face’</td>
<td>lau B₂</td>
<td>---</td>
<td>?u₅⁵le₅² B₂</td>
<td>mble₃³ B₂</td>
</tr>
<tr>
<td>‘ear’</td>
<td>zau A₂</td>
<td>zi₃⁵/ze₃⁵ A₂</td>
<td>lo₅⁵mlan₃¹ A₂</td>
<td>tso₅³ A₂</td>
</tr>
<tr>
<td>‘head’</td>
<td>kla B₁</td>
<td>?rə/?œ B₁</td>
<td>nde₃³xut B₁</td>
<td>bu₃³ke₅³ B₁</td>
</tr>
<tr>
<td>‘intestine’</td>
<td>sai C₁</td>
<td>ci₃³/si₃³ C₁</td>
<td>?a ci₃⁵³ C₁</td>
<td>sai C₁</td>
</tr>
<tr>
<td>‘leg’</td>
<td>qau A₁</td>
<td>---</td>
<td>la₅⁵qu₅³ A₁</td>
<td>bu₃³ko₅³ A₁</td>
</tr>
<tr>
<td>‘nose’</td>
<td>ætæe D₁</td>
<td>−/mæ₃¹ D₁</td>
<td>qa₃⁵₃pu₃⁵ D₁</td>
<td>nj₅³ D₁</td>
</tr>
<tr>
<td>‘dog’</td>
<td>mpau A₁</td>
<td>m₄⁵/hm₅⁵ A₁</td>
<td>xa₃⁵ A₁</td>
<td>hm₅³ A₁</td>
</tr>
<tr>
<td>‘pig’</td>
<td>mpa A₁</td>
<td>hvu₄⁵/hn₄⁵ A₁</td>
<td>fo₃⁵ A₁</td>
<td>ma₅⁵ A₁</td>
</tr>
<tr>
<td>‘fire’</td>
<td>pai A₁</td>
<td>−/−</td>
<td>?a â₃⁵ A₁</td>
<td>pai₃³ A₁</td>
</tr>
<tr>
<td>‘star’</td>
<td>zog A₂</td>
<td>−/−</td>
<td>ma ndu₅³⁵ A₁</td>
<td>ts₃ A₁</td>
</tr>
<tr>
<td>‘water’</td>
<td>?uəu C₂</td>
<td>−/?n₁ C₁</td>
<td>?aŋ C₁</td>
<td>?n₅³ C₁</td>
</tr>
<tr>
<td>‘heavy’</td>
<td>xen A₁</td>
<td>qo₄⁵/ko₄⁵</td>
<td>li₅⁵ _kŋ₅ A₁</td>
<td>cε₃ A₁</td>
</tr>
<tr>
<td>‘raw’</td>
<td>te D₂</td>
<td>da₃¹/da₃¹ D₂</td>
<td>nte₃¹ D₂</td>
<td>nte₃¹ ti₃ D₂</td>
</tr>
<tr>
<td>‘drink’ (v)</td>
<td>han C₁</td>
<td>−/−</td>
<td>Nŋan₅ C₁</td>
<td>han₅³ C₁</td>
</tr>
<tr>
<td>‘one’</td>
<td>tsrí C₁</td>
<td>−/−</td>
<td>tsa₃³ C₁</td>
<td>s₃ C₁</td>
</tr>
<tr>
<td>‘two’</td>
<td>su A₁</td>
<td>−/−</td>
<td>se₅ A₁</td>
<td>ša₃ A₁</td>
</tr>
<tr>
<td>‘three’</td>
<td>ta A₁</td>
<td>tvu₄⁵/tau₄⁵</td>
<td>tua₅ A₁</td>
<td>tua₃⁵ A₁</td>
</tr>
<tr>
<td>‘four’</td>
<td>pu A₁</td>
<td>pu₄⁵/pu₄⁵</td>
<td>pu₅ A₁</td>
<td>pu₅³ A₁</td>
</tr>
<tr>
<td>‘five’</td>
<td>mpu A₂</td>
<td>mlen₃³/mlen₃³</td>
<td>maŋ₅ A₂</td>
<td>me₁³ A₂</td>
</tr>
<tr>
<td>‘six’</td>
<td>nan A₁</td>
<td>−/−</td>
<td>šon₅ A₁</td>
<td>naŋ₃ A₂</td>
</tr>
<tr>
<td>‘seven’</td>
<td>tu A₁</td>
<td>−/−</td>
<td>tə₃ A₁</td>
<td>tšau₃ A₁</td>
</tr>
</tbody>
</table>
| ‘eight’    | vla A₂  | −/−          | wu₃ A² | zau₅轨道交通 | 23.4. LACHI

The Lachi language was spoken by about 10,300 people, of which 7863 lived in Vietnam according to the 1990 census and 2500 in China according to a count taken in 1995 (Li 2000: 6). The Chinese Lachi live in Maguan County of Yunnan Province. We have data from two different locations. In China the Lachi call themselves li₃₅ pu₄⁴ lio₄⁴, whereas in Vietnam the usual autonym is qu₃² te₄³³. The etymology qu₃² means ‘person’, probably from the root *khra C₁, cf. Ostapirat (2000). In China the Flowery Lachi live at Jinchangzhen Zhongzhai 金厂中寨 and Sanjiajie 三家街; the Chinese Lachi live at Jiahanqin of Niu-longshan 夹寒箐 (牛龙山), at Dujiaozhai 独脚寨, Qianchang 钱章, Shi’er Daohe 十二道河, Laozhai 老寨, Renhezhen of Baishiyan 仁和镇 (白石岩), Shiqiao 石桥, and Huomuqing 火木箐; the Pocket Lachi live at Nanlaoxiang of Busu 南捞乡 (布苏), and the Red Lachi live at
In Vietnam the Lachi are an officially recognized minority group and live in Hà Giang Province, Hoàng Su Phì District at Xin Mắn Township at Bàn Phùng (Long Haired Lachi), Bàn Pang, and Bàn Máy (White Lachi), and Bàn Diệu (Black Lachi). A large number of Lachi were resettled from the Vietnam-China border area to Bắc Quảng near the southern border of Hà Giang Province. I was told that Vietnamese scholars are not able to find speakers of White Lachi any longer. The analysis here is based on Long Haired Lachi and Black Lachi.

Ostapirat (2000) suggests that Lachi might be divided into three types: the Northern, which includes the Chinese, or Flowery type, the Central or White Lachi, such as those at Bàn März and Bàn Pang, and the Southern or Long Haired and Black Lachi, which includes Bàn Phùng and Bàn Diệu. There is very little data available for the Central kinds (perhaps some vocabulary recorded by French colonial officials Bonifacy 1906 and Lajongière 1906, but we also agree that Bàn Phùng and Bàn Diệu are very similar and have important innovations not found in the Northern kinds. For comparison, consider this list of items from Ostapirat (2000) and our field data:

<table>
<thead>
<tr>
<th>Item</th>
<th>Kra Northern Lachi</th>
<th>Central Lachi</th>
<th>Southern Bàn Phùng</th>
</tr>
</thead>
<tbody>
<tr>
<td>*p</td>
<td>pje</td>
<td>A1 'fire'</td>
<td>pji</td>
</tr>
<tr>
<td>*t</td>
<td>tje</td>
<td>B1 'ash'</td>
<td>tê</td>
</tr>
<tr>
<td>*t</td>
<td>ṭa</td>
<td>A1 'egg'</td>
<td>ṭa</td>
</tr>
<tr>
<td>*k</td>
<td>ko</td>
<td>D1S 'foot'</td>
<td>ko D1S</td>
</tr>
<tr>
<td>*k</td>
<td>kho</td>
<td>D1S 'monkey'</td>
<td>ko D1S</td>
</tr>
<tr>
<td>*o</td>
<td>ñ</td>
<td>C1 'water'</td>
<td>ñi</td>
</tr>
<tr>
<td>*ô</td>
<td>pñi</td>
<td>B1 'shoulder'</td>
<td>pû C2</td>
</tr>
<tr>
<td>*ô</td>
<td>tñja</td>
<td>D2S 'bone'</td>
<td>tñ C3</td>
</tr>
<tr>
<td>*ô</td>
<td>tñje</td>
<td>D2 'raw'</td>
<td>tñ C3</td>
</tr>
<tr>
<td>*ô</td>
<td>tñjo</td>
<td>B2 'chopsticks'</td>
<td>tñ C3</td>
</tr>
<tr>
<td>*ô</td>
<td>su</td>
<td>A1 'two'</td>
<td>fu</td>
</tr>
<tr>
<td>*ô</td>
<td>so</td>
<td>D1 'rope'</td>
<td></td>
</tr>
<tr>
<td>*ô</td>
<td>sñ</td>
<td>B1 'satisfied'</td>
<td></td>
</tr>
<tr>
<td>*ô</td>
<td>ts</td>
<td>A1 'tobuy'</td>
<td>tsû B2</td>
</tr>
<tr>
<td>*ô</td>
<td>zñjo</td>
<td>B2 'y.brother'</td>
<td>jo B2</td>
</tr>
<tr>
<td>*ô</td>
<td>tja</td>
<td>A1 'o.brother'</td>
<td>tja A1</td>
</tr>
<tr>
<td>*ô</td>
<td>dñ</td>
<td>D2S 'tohear'</td>
<td>zq D2S</td>
</tr>
<tr>
<td>*ô</td>
<td>zñi</td>
<td>C2 'grandmother'</td>
<td>zã C2</td>
</tr>
<tr>
<td>*ô</td>
<td>tçñi</td>
<td>A2 'mountain'</td>
<td>jo A2</td>
</tr>
<tr>
<td>*ô</td>
<td>m</td>
<td>A2 'hand'</td>
<td>m A2</td>
</tr>
<tr>
<td>*ô</td>
<td>(?)n</td>
<td>A2 'six'</td>
<td>nĩ A2</td>
</tr>
<tr>
<td>*ô</td>
<td>nhñ</td>
<td>D2 'bird'</td>
<td>no D2</td>
</tr>
<tr>
<td>*ô</td>
<td>nhñu</td>
<td>A2 'salt'</td>
<td>nũ A2</td>
</tr>
<tr>
<td>*ô</td>
<td>nñ</td>
<td>A2 'snake'</td>
<td>nĩ A2</td>
</tr>
<tr>
<td>*ô</td>
<td>hñ</td>
<td>D1 'flea'</td>
<td>ma? D1</td>
</tr>
<tr>
<td>*ô</td>
<td>nñ</td>
<td>A1 'door'</td>
<td>nĩ A1</td>
</tr>
<tr>
<td>*ô</td>
<td>lhñ</td>
<td>C1 'heart'</td>
<td>le? C1</td>
</tr>
<tr>
<td>*ô</td>
<td>lhñ</td>
<td>C2 'tosteal'</td>
<td>nũm C2</td>
</tr>
<tr>
<td>*ô</td>
<td>lhñu</td>
<td>C2 'near'</td>
<td>lũ C2</td>
</tr>
<tr>
<td>*ô</td>
<td>lhñu</td>
<td>A2 'ear'</td>
<td>lũ A2</td>
</tr>
<tr>
<td>*ô</td>
<td>vñi</td>
<td>C2 'togo'</td>
<td>vũ C2</td>
</tr>
<tr>
<td>*ô</td>
<td>vñi</td>
<td>A2 'sun'</td>
<td>ŋwä A2</td>
</tr>
<tr>
<td>*ô</td>
<td>pño</td>
<td>D1L 'blood'</td>
<td>pũ D1L</td>
</tr>
<tr>
<td>*ô</td>
<td>pño</td>
<td>D1 'ten'</td>
<td>pwe D1</td>
</tr>
<tr>
<td>*ô</td>
<td>phjo</td>
<td>B1 'silver'</td>
<td>phjo B1</td>
</tr>
</tbody>
</table>
Ostapirat (2000: 149) notes that in a few instances there is a velar initial with ‘slight offglide’ (k̂h) as in k̂h=e'i C2 ‘ribs’, which in Southern Lachi is q̂h=yei C2 from Proto-Southwestern Kra *k-r-. Laha supports this analysis: Laha Noong Lay has ḏak D khla ƕ̃ and Laha Tamit has ḏhak le la ƕ̃. Several differences between Northern and Southern Lachi are: (1) Central and Southern Lachi seems to have developed uvular reflexes for some consonants where Northern has velars, e.g. leg, excrement, iron, horn, dry, rib, etc.; (2) Southern Lachi has labialized the initial s before u to f or fw, e.g. two, garlic, tail, etc. as well as some other initials, e.g. *ŋu B in ŋu B2 to qũ B2; (3) the initial /l/ but not /hl/ or C + l become /n/, e.g. steal, child, etc., and (4) Southern Lachi has simplified secondary articulations such the tje B1 to te ‘ash’ and kwũ A1 to qũ ‘horn’.

23.5. BUYANG AND EN

We now turn to the Buyang language group and En (also known as Nùng Vên). These Kra languages have been discovered only recently. They contribute important new perspectives on the family and its history.

Buyang was first reported by Liang Min (1990) though he states that he had encountered this people and language group in the 1950s. His data set was enriched by the work of Li Jinfang of The Central University of Nationalities in his doctoral dissertation (1999) and later in his book (1999). My data in this section were taken from this book.

The history of the En or [ai~Ú~53] language in the linguistic literature on this family is even shorter; its existence and status as a member of this group was discovered only in 1998. Before that this group had been named in Các dân tộc ít người ở Việt Nam (1978: 204), where it was treated in this largely anthropological work as a member of the Nùng subgroup of Central Tai languages called Nùng Viêt. It is perhaps not surprising that the En (Nùng Vên) were grouped with the Nùng, since the Nùng group is a much larger minority. Vên or Viêt in the Nùng language means ‘earrings’, perhaps signifying that the Nùng Vên women wear long, large, or distinctive ear ornamentation and they also are culturally influenced by their neighbors. By good fortune, Professor Hoàng Văn Ma of the Linguistic Institute of Vietnam, who is a Tày from Cao Bằng Province, Vietnam, heard this language on a trip to his home area and immediately recognized that En was not a Tai language but had no time to investigate it. A couple of years later in 1998, he accompanied us on our expedition to northern Cao Bằng, where we found them living in a single village called Nội Thun about 20 km northeast on foot from Hà Quảng City in Hà Quảng District, Cao Bằng Province at the location 22° 55’ N, 106° 10’ E. Mr Vương Văn Võ, our informant, 27 years of age, reported
that the people do not have traditional accounts of their name, nor do they have any idea about where they once lived or how or when they arrived in Vietnam. This location is very near the China border at Jingxi County in southern Guangxi and lies less 100 km from Napo county seat (see below), where the Buyang live. In 2000 I visited Jingxi County in the area just opposite looking for other traces of the En without any success.

En will be treated with the Buyang languages for it is clear that they are all closely related. Indeed, Li Jinfang of The Central University of Nationalities in Beijing has told me that there are stories among the Buyang of Napo County in Guangxi that three brothers went their separate ways to escape from grinding poverty some generations ago. One brother went west from Napo into Yunnan Province; one stayed in Napo; and one went south into Vietnam. Perhaps, the En or Nung Ven represents the descendant of the third brother.

As for the Buyang languages themselves, Ostapirat considers one of the Buyang types to represent a separate language called Paha, which is spoken in Yunnan Province at Guangnan County at Diyu  and Yangliancun Village. The other two described by Li Jinfang 1999 are: (1) E-cun and Langxia found respectively in Guangnan County 广南, Funing County 富宁, Gula  Township at E-cun Village 村 and Langxia Village 村, and (2) Yalhong found in Guangxi in Nuo County. The isoglossic difference is that *r became z- and in Yalhong it developed further into a voiceless lateral ṭ-. Also, Yalhong has changed its rhymes dramatically.

<table>
<thead>
<tr>
<th>Gloss</th>
<th>Yalhong</th>
<th>E-cun</th>
<th>En</th>
<th>Proto-Kra</th>
</tr>
</thead>
<tbody>
<tr>
<td>'ear'</td>
<td>fou⁴³</td>
<td>ɗaa⁴</td>
<td>khe⁵⁴-ta⁵³</td>
<td>*k-ra A</td>
</tr>
<tr>
<td>'bee'</td>
<td>ɗaa⁴</td>
<td>ɗaa⁴</td>
<td>ɗae⁵³</td>
<td>*re A</td>
</tr>
<tr>
<td>'eye'</td>
<td>ɗaa⁴</td>
<td>ɗaa⁴</td>
<td>ɗa⁵³</td>
<td>*m-ta A</td>
</tr>
<tr>
<td>'two'</td>
<td>ɗaa⁴</td>
<td>ɗaa⁴</td>
<td>ɗa⁵³</td>
<td>*sa A</td>
</tr>
<tr>
<td>'neck'</td>
<td>ɗaa⁴</td>
<td>ɗaa⁴</td>
<td>ɗa⁵³</td>
<td>*C-jo A</td>
</tr>
<tr>
<td>'dry'</td>
<td>ɗaa⁴</td>
<td>ɗaa⁴</td>
<td>ɗa⁵³</td>
<td>*kza B</td>
</tr>
<tr>
<td>'hand'</td>
<td>ɗaa⁴</td>
<td>ɗaa⁴</td>
<td>ɗa⁵³</td>
<td>*r-uk D</td>
</tr>
<tr>
<td>'excrement'</td>
<td>ɗaa⁴</td>
<td>ɗaa⁴</td>
<td>ɗa⁵³</td>
<td>*r-uk D</td>
</tr>
<tr>
<td>'white'</td>
<td>ɗaa⁴</td>
<td>ɗaa⁴</td>
<td>ɗa⁵³</td>
<td>*r-uk D</td>
</tr>
</tbody>
</table>

As this chart makes clear, Paha differs from the others in regard to the preglottalized series /ʔb/ ?d/. Yalang, Ecu, Langxia, and En all show preglottalized stops, whereas Paha has nasals, plain voiced stops or breathy voiced stops in place of the preglottalized voiced stops. This feature suggests a division in Buyang separating Paha from the others, i.e. Paha-Yalang/Ecun/Langxia (Ostapirat 2000) and we would include En in the Yalang/Ecun/Langxia grouping. One other development in Paha/Buyang phonology deserves mention. The Laha language preserves final -l. In most other languages this coda develops into -n, but in Buyang it is occasionally realized as -l. En partakes in this diagnostic development.
Both lexically and phonologically En and the Buyang group share much in common. Much work is still needed on En as this language has only a small population of speakers. Encouragingly, it was reported to us that children are still learning En as their first language.

23.6. QABIAO

The Qabiao language is often referred to in Chinese language materials as Pubiao 鄭 标, cf. Zhang Junru’s (1990) treatment. This is also the term used by Ostapirat (2000). The people call themselves qa’qbiau33 with a very short toneless syllable preceding the main syllable. They live directly on the China-Vietnam border in Yunnan Province, Guangnan Prefecture in Malipo County and in territory just opposite this place in Vietnam’s Hà Giang Province in Đông Văn District in the villages of Phố Là and Sùng Thành and perhaps in a few neighboring places in Yên Minh and Mèo Vạc Districts. No one knows the exact meaning of this name Qabiao today. There about 380 in Vietnam and perhaps an equal number in China today; the Ethnologue (2001) gives a total population of 689. This language is highly endangered and the situation of the people themselves is unstable because of a lack of nearby potable water in this area.

The Qabiao language has a large inventory of disyllabic vocabulary in which the first or weak syllable has no real tonal contour.

Qabiao tones:

A1 tee42 ‘eye’ B1 kaqmi423 ‘hand’ C1 qa33 ‘blood’ D1?ok33 ‘excrement’
A2 kaqroo33 ‘ear’ B2 mfi424 ‘face’ C2 muum35 ‘beard’ D2 paqnu45 ‘bird’

We have listed a number of examples here in their full forms as we recorded them. At times these also differ insignificantly from the forms recorded by Ostapirat (2000). In other cases the full disyllabic forms of Qabiao and En (see above) are supportive of his reconstructions.

<table>
<thead>
<tr>
<th>Gloss</th>
<th>Laha</th>
<th>Paha</th>
<th>Yalang</th>
<th>Ecun</th>
<th>Langjia</th>
<th>En</th>
</tr>
</thead>
<tbody>
<tr>
<td>rain</td>
<td>dzaa447</td>
<td>zin31</td>
<td>zuut31</td>
<td>zuut55</td>
<td>ziit55</td>
<td>ji44</td>
</tr>
<tr>
<td>new</td>
<td>maal447</td>
<td>mail41</td>
<td>mat31</td>
<td>ma433</td>
<td>man312</td>
<td>mam52</td>
</tr>
<tr>
<td>yellow</td>
<td>nii41</td>
<td>gñ45</td>
<td>gñ4t31</td>
<td>gñ14</td>
<td>gñ11</td>
<td></td>
</tr>
<tr>
<td>sweet</td>
<td>thal32</td>
<td>—</td>
<td>it33</td>
<td>zan33</td>
<td>an24</td>
<td>jin437</td>
</tr>
<tr>
<td>louse</td>
<td>mañral44</td>
<td>—</td>
<td>?dot33</td>
<td>tan33</td>
<td>tan312</td>
<td>?dan35</td>
</tr>
</tbody>
</table>

Both lexically and phonologically En and the Buyang group share much in common. Much work is still needed on En as this language has only a small population of speakers. Encouragingly, it was reported to us that children are still learning En as their first language.
23.7. LAHA

The Laha are one of Vietnam’s officially recognized minority groups. The total population in 1989 was 1,400. They live in two separated locations in Northern Vietnam, one area in Lào Cai Province, Than Uyên District, Nậm Cắn, Ta Mit, and Pha Mu Villages and one location in Sơn La Province at Chỉ Xóm, Noong Lay, Liếp Tê, Nam Ét, as well as those at Mường La District in the communes of Nậm Giôn, Chỉ Xàng, Chỉ Xong Dong, Pi Toong, and Mường Bọ.

In Edmondson and Gregerson (1997), we presented data from Ta Mit Laha. The Ta Mit Laha data were gathered in the summer of 1996 at Sa Pa District in Lào Cai Province from Mr Hoàng Văn Phòm, who was 26 years of age at the time. He told us that there were eight Laha settlements mostly along the eastern bank of the Nậm Mu River, a secondary waterway that flows southward into the Sông Đà or Black River in Sơn La Province (22° 05’ N, 103° 50’ E). The Ta Mit Laha live with Black Thai and a few Hmong neighbors. In this paper we augment our previous analysis with data from the Laha of Noong Lay and Nát Êt Communes in Sơn La Province about 80-90 km to the south. The second study site was at Noong Lay Commune, pop. 700, which is located about 25 km northwest of Son La City, Sơn La Province in northern Vietnam. Specifically, if one follows National Route 6 northwest from Sơn La City to a place where the road forks and then proceeds along Route 107 for 10 km to the next main market and turns right off the road into a lane that leads 8 km to the commune center (21° 30’ N, 103° 45’ E). The commune is about 10 km from the Sông Đà or Black River, which descends from Lai Châu Province to the west and flows easterly to the great lake created above the dam at Hoa Binh City. The landscape is determined by a rich fertile basin several kilometers wide along the banks of a relatively large river with high mountains to the west separating Sơn La from Lai Châu Province. Most of the people in the village are Khmu. There are two or three Black Thái families and recently some Vietnamese have moved there. The wider area is, however, mostly inhabited by Black Thai wet paddy rice farmers, who are concentrated in this part of Vietnam in 500,000 strength, along with Khmu, Káng, and Ksongmul peoples. It is reported in Solntseva N.B. and Hoang Van Ma 1986 that another group of Laha speakers is found in Phú Yên on the north bank of the Sông Đà about 80 km to the southeast of the Noong Lay community. We were unable to study this group.

It is notable that the Laha language at these two locations differs considerably and the two groups have not been in contact for a long time (according to Mr Lò Văn Sám of Noong Lay.) The linguistic data from the two locations also demonstrate several distinctive features that confirm a considerable time depth of independent development. Basically, Noong Lay possesses initial consonant clusters, whereas Ta Mit shows disyllabic word structure. We give a listing of Laha initials as found in Noong Lay in the table below.

<table>
<thead>
<tr>
<th>Laha initials</th>
<th>‘four’</th>
<th>‘cloth’</th>
<th>‘harrow’</th>
<th>‘carry on shoulder’</th>
<th>‘flower’</th>
<th>‘dog’</th>
<th>‘hand’</th>
<th>‘buffalo’</th>
</tr>
</thead>
<tbody>
<tr>
<td>p</td>
<td>pa^423</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ph</td>
<td>phaa^132</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>?b</td>
<td>?baan^534</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>b</td>
<td>baal^447</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>m</td>
<td>ma^23</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The Qabiao of Vietnam differs from the data presented in Ostapirat (2000) especially in regard to the preglottalized series of initials.
As this table shows, Laha has two series of voiced stops, a preglottalized series /?b ?d/ and a series of plain voiced stops /b d/. In Noong Lay the contrast is /?b ?d/ vs. /b d/. In Ta Mit the two series also have different reflexes, but the contrast is /b d/ vs. /f th/ (f is derived from ph). Thus, we find these developments:

<table>
<thead>
<tr>
<th>Kra</th>
<th>Noong Lay</th>
<th>Ta Mit</th>
</tr>
</thead>
<tbody>
<tr>
<td>*?b</td>
<td>?b</td>
<td>b</td>
</tr>
<tr>
<td>*?d</td>
<td>?d</td>
<td>d</td>
</tr>
<tr>
<td>*b</td>
<td>b</td>
<td>b</td>
</tr>
<tr>
<td>*d</td>
<td>d</td>
<td>d</td>
</tr>
</tbody>
</table>

as in the examples:

<table>
<thead>
<tr>
<th>Noong Lay</th>
<th>Ta Mit</th>
</tr>
</thead>
<tbody>
<tr>
<td>'harrow'</td>
<td>'village'</td>
</tr>
<tr>
<td>'red'</td>
<td>'boat'</td>
</tr>
<tr>
<td>'village'</td>
<td>'boat'</td>
</tr>
</tbody>
</table>

The two series of voiced stops in Laha suggests two original series, which in all the remaining languages have merged in Gelao and Lachi to /b d/ and in the others to /?b ?d/, thereby reducing the contrasts.

Laha has a vowel length contrast before the codas /-p -t -k -m -n -l -i -u/. This feature is one it shares with all Kam-Tai languages, as mentioned at the beginning. Some good examples are sau\(^{354}\)saau\(^{41}\) ‘rope’, maat\(^{423}\)maat\(^{354}\) ‘widow’, and saal\(^{354}\) ‘sputum’ vs. saal\(^{423}\) ‘unhusked rice’, though the vowel length contrast is today not as robust as it once must have been. The system is Tai-like in a second sense that the proto-Tai mid vowels, /e œ o/, when
long, developed into the open reflex, i.e. -oC,-oC, and -eC, but when short, demonstrate
the more closed reflex, i.e. -C,-tUC, and -eC cf. Li points out, the Tai languages show today
a wide variety of long and short vowel possibilities. Laha is unlike Tai languages, though, in
the sense that in CV syllables the open reflex is usually found, e.g. ꟾ Cipher ‘wife’ and ꙲Cipher ‘bear’. There are also the diphthong ꦖCipher, as in ꦖCipher ‘big’. There are only a few
examples in our corpus of ꦖCipher and ꥎCipher syllables, however, as the word shapes in Laha Noong
Lay have undergone an innovation, not unlike in the history of English, creating outgliding
diphthongs ꥎCipher and ꥎCipher from these sources, as in: ꥎCipher ‘pig’, ꦖCipher ‘chicken’, ꦖCipher ‘fire’
bcrypt ‘gall’. It is one of the two or three remaining languages with a lateral coda. The
following is a list of vocabulary with final -l coda.

<table>
<thead>
<tr>
<th>Gloss</th>
<th>Noong Lay</th>
<th>Ta Mit</th>
<th>Gloss</th>
<th>Noong Lay</th>
<th>Ta Mit</th>
</tr>
</thead>
<tbody>
<tr>
<td>‘anus’</td>
<td>ꦑCipher</td>
<td>ꦑCipher</td>
<td>‘arrow’</td>
<td>ꦏCipher</td>
<td>ꦑCipher</td>
</tr>
<tr>
<td>‘below’</td>
<td>ꦑCipher</td>
<td>ꦑCipher</td>
<td>‘buy’</td>
<td>ꦒCipher</td>
<td>ꦒCipher</td>
</tr>
<tr>
<td>‘carry midpole’</td>
<td>ꦑCipher</td>
<td>ꦑCipher</td>
<td>‘comb’</td>
<td>ꦒCipher</td>
<td>ꦒCipher</td>
</tr>
<tr>
<td>‘difficult’</td>
<td>ꦑCipher</td>
<td>ꦑCipher</td>
<td>‘iron/hard’</td>
<td>ꦒCipher</td>
<td>ꦒCipher</td>
</tr>
<tr>
<td>‘dry in sun’</td>
<td>ꦑCipher</td>
<td>ꦑCipher</td>
<td>‘fishy’</td>
<td>ꦒCipher</td>
<td>ꦒCipher</td>
</tr>
<tr>
<td>‘flower’</td>
<td>ꦑCipher</td>
<td>ꦑCipher</td>
<td>‘fly’</td>
<td>ꦒCipher</td>
<td>ꦒCipher</td>
</tr>
<tr>
<td>‘heavy’</td>
<td>ꦐCipher</td>
<td>ꦑCipher</td>
<td>‘heart’</td>
<td>ꦒCipher</td>
<td>ꦒCipher</td>
</tr>
<tr>
<td>‘body louse’</td>
<td>ꦐCipher</td>
<td>ꦐCipher</td>
<td>‘lizard’</td>
<td>ꦒCipher</td>
<td>ꦒCipher</td>
</tr>
<tr>
<td>‘mouth’</td>
<td>ꦑCipher</td>
<td>ꦑCipher</td>
<td>‘old thing’</td>
<td>ꦐCipher</td>
<td>ꦐCipher</td>
</tr>
<tr>
<td>‘sticky rice’</td>
<td>ꦑCipher</td>
<td>ꦑCipher</td>
<td>‘rag’</td>
<td>ꦒCipher</td>
<td>ꦒCipher</td>
</tr>
<tr>
<td>‘saliva’</td>
<td>ꦐCipher</td>
<td>ꦐCipher</td>
<td>‘unhusked rice’</td>
<td>ꦒCipher</td>
<td>ꦒCipher</td>
</tr>
<tr>
<td>‘sick’</td>
<td>ꦐCipher</td>
<td>ꦐCipher</td>
<td>‘fat’</td>
<td>ꦐCipher</td>
<td>ꦐCipher</td>
</tr>
<tr>
<td>‘sputum’</td>
<td>ꦐCipher</td>
<td>ꦐCipher</td>
<td>‘rice spike’</td>
<td>ꦐCipher</td>
<td>ꦐCipher</td>
</tr>
<tr>
<td>‘sweet, honey’</td>
<td>ꦑCipher</td>
<td>ꦑCipher</td>
<td>‘stone’</td>
<td>ꦒCipher</td>
<td>ꦒCipher</td>
</tr>
<tr>
<td>‘yellow wasp’</td>
<td>ꦑCipher</td>
<td>ꦑCipher</td>
<td>‘tar’</td>
<td>ꦒCipher</td>
<td>ꦒCipher</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>‘tree’</td>
<td>ꦒCipher</td>
<td>ꦒCipher</td>
</tr>
</tbody>
</table>

23.8. COMPARISON OF THE SYNTACTIC FEATURES

Kra language speakers have had small populations in comparison to neighboring minorities
and the majority groups for quite a long time. As a consequence, many of these Kra
speakers know other languages of wider communication: Han Chinese, Vietnamese, Nùng,
Tày, Zhuang, Miao, Yao, Thái (Black and White Thai) etc. Our impression is that the
language having the greatest influence on them has been Guanhua Chinese (SW Mandarin),
as this language is more widely spoken in the borderlands area than, for example,
Vietnamese or Modern Standard Chinese. In fact, it was a curiosity that many of our
informants were not able to speak Vietnamese well nor do they participate much in the
larger Vietnamese world, which necessitated using Guanhua, Miao, or Tày. Our Red Gelao
informant, though a citizen of Vietnam, could not speak Vietnamese but did know Red
Gelao, Miao, Kim Mun Yao, and Tày, so he brought along a Kim Mun neighbor to help
interpret into Vietnamese. That said, I was impressed at the lack of Vietnamese borrowings
in these languages; generally the lexical borrowings were more likely to Guanhua Chinese.
forms. That said, the sentence patterns of Kra languages were strongly SVO and conformed strongly to the trans-regional and trans-typological norms.\(^2\) For the NP that meant an order of elements numeral (NUM)-classifier (CLS)-N-specifier (SPEC); for the VP the order is V-NP (direct object). There are examples of the Chinese-like \textit{ba} construction in some of these languages NP\(_1\)-take-NP\(_2\)-VP such as Pingba Gelao:

(1) \textit{su}\textsuperscript{33} \textit{u}\textsuperscript{24} \textit{hau}\textsuperscript{13} \textit{la}\textsuperscript{43} \textit{te}\textsuperscript{55} \textit{pa}\textsuperscript{13} \textit{hu}\textsuperscript{33} \textit{tsu}\textsuperscript{53} \textit{n}\textsuperscript{21} \\
    s/he take bowl put-on top table-this

    ‘S/he put the bowl on the table.’

Adverbial modifiers with meaning ‘very, excessive’ are often placed after the adjective or adverb. Chinese \textit{hèn} precedes and Vietnamese \textit{lâm} follows but \textit{rất} precedes. Eg.

(2) plei\textsuperscript{33} ni\textsuperscript{21} u\textsuperscript{55} mei\textsuperscript{33} zu\textsuperscript{55} ηka\textsuperscript{21} ηka\textsuperscript{21} tei\textsuperscript{13} ηka\textsuperscript{42} (Pingba Gelao) \\
    year this water rain excessive ADV ADV much PERF

    ‘This year’s rain has been excessively much!’

The syntactic structure of these languages largely matches those of the area except for one dramatic exception, the position of the negative. Nearly all the Kra languages share the common feature that the negative element (negator) in the sentence comes last, even after direct objects. The fact is that all share this position. It seems likely that the parent language differed from Kam-Tai sister languages in this regard.

With this brief introduction we now turn to some illustrations of these syntactic patterns.

\subsection{Word order}

All the Kra languages show SVO word order typology.

(3) Gelao (Bigong) \\
    zu\textsuperscript{33} qi\textsuperscript{35} j\textsuperscript{11} tj\textsuperscript{31} qan\textsuperscript{31} qo\textsuperscript{33} qa\textsuperscript{33} pai\textsuperscript{35} qhju\textsuperscript{31} \\
    farm person must farm work then can eat

    ‘A farmer must work in order to eat.’

Lachi \\
    a\textsuperscript{44} ne\textsuperscript{44} i\textsuperscript{45} pl\textsuperscript{44} vua\textsuperscript{35} \\
    here be hot very

    ‘It is very hot here.’

Laha \\
    then\textsuperscript{432} dzal\textsuperscript{447} \\
    sky rain

    ‘It’s raining.’

\footnote{\textit{Data from Zhang Jimin 张济民 (1993), He Jiashan 贺嘉善 (1983), Li Yunbin 李云兵 (2000), Li Jinfang 李锦芳 (1999) as well as Solntseva and Hoang Van Ma (1986). Some examples also come from my field notes on the languages or from Ms Shen Yu-May.}}
My father lives at home.

Fish swim in the water, birds fly above sky

‘Fish swim in the water, and birds fly in the sky’

Langjia Buyang:
ku54 paŋ33 ma312
I help you
‘I’ll help you.’

En:
?baau35 le232 ta323 ki54
I NEG know him
‘I don’t know him’

Modifiers, adjuncts, and complements all follow heads (head-first) in NP structures. Examples from Pingba Gelao are: la42 tu21 ground-level ‘level ground’, mpau33 laŋ55 pig-black ‘black pig’, luŋ55 zŋ13 se13 vegetable-insect-plant ‘bugs’; Langjia Buyang (Li 1999: 78) uŋ24 qai54 meat-chicken ‘chicken (meat)’ and maŋ11 ok11 horse-white ‘white horse’, and Laha has lon44 mal447 house-new ‘new house’.

Prepositions and not post-postitions are employed, cf. Pingba Gelao hu33 tsu33 on-table ‘on the table’ and tsen21 thŋ55 below-bed ‘under the bed’. Laha klun54 luŋ55 in-water ‘in the water’.

In Wanzi Gelao (He 1983: 30-50) the head of the construction comes first as in: (1) head-in situ interrogative adjective i24 an33 tŋ55 nu31 duck-at-place-where ‘Where is the duck?’.

In Kra the order is numeral-classifier-head noun-specifier (Gelao) lŋ44 ni21 bowl-this ‘this bowl’, mŋ13 tsə44 ni31 CLS-mountain-this ‘this mountain’, and Laha tu447 maŋ11 ni31 me354 CLS-buffalo-those ‘those buffalos’ and tŋu24 tu447 nok55 three-CLS-bird ‘three birds’. The possessive adjective follows the head noun as in Gelao tau33 i33 book-my ‘my book’ and luŋ44 mu44 tŋ55 sen44 sen53 clothing-new-my-yesterday-buy ‘I bought my new clothes yesterday’.

Adverbs follow adjectives:

(4) Lachi
a44 ne44 ̯55 pi44 vua35
here be hot very

Laha
thau354 əi44
old very
The pronominal system of Gelao shows several features quite unlike those of other members of the Kam-Tai group. Pronouns are distinctive for singular and plural. In the singular there is a long and short form. Regular plurals are distinct from the pronominal form for ‘family, household, clan’. These are portrayed below:

(5) Gelao Pronouns

- i42 or su33 i42 ‘I’
- su33 ta33 ‘we’
- qa33 qei42 ‘my household’
- mu21 or su33 mu21 ‘you sg.’
- su33 sa33 ‘you pl.’
- a33 mu21 ‘your household’
- u42 or su33 u42 ‘he, she, it’
- pa42 nu42 ‘they’
- qa33 qu42 ‘his/her household’

(6) Lachi pronouns

<table>
<thead>
<tr>
<th>Singular</th>
<th>Plural</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st person</td>
<td>ki51 la44 tei51, tha51 tei51, thai51 tei51</td>
</tr>
<tr>
<td>2nd person</td>
<td>m51 la44 m44 tei51</td>
</tr>
<tr>
<td>3rd person</td>
<td>kje31 tha51 kje31</td>
</tr>
</tbody>
</table>

Plural forms of the household pronoun are identical to the usual plurals. Some examples are:

(7) a. su33 san33 mpi32 ni21 tshu55 qa33 su33 qu55 li33 a42

Two CLF goat this be clan house’s POSS NEG

‘This goat is not ours.’

b. ma21 thau33 ni21 tshu55 qa33 su33 sa33 li33

CLF knife this be clan 2PL POSS

‘This knife is your (household)’s.’

c. ma21 i44 tshu55 mu21 li33 vu55

mother 1SG be 2SG POSS maternal aunt

‘My mother is your maternal aunt.’

d. a33 tau33 i42 xa33 a55 mpau33 a42

POL m. granddad 1SG eat meat dog NEG

‘My maternal grandfather does not eat dog.’

e. qa33 ua55 te55

clan Wang house

‘The Wang family house(hold)’

Interrogative pronouns. Gelao uses its own interrogative forms for questions. ‘What’ is sa33 tsaŋ13, ‘how’ is aŋ33 na21, ‘how much’ is xen13 na21.

Numerals and classifiers. Gelao and the other Kra languages have their own number system (except when items have been borrowed from Chinese or other languages.) Ostapirat (2000)
has reconstructed the numerals as *tσəm C ‘one’, *sa A ‘two’, *tu A ‘three’, *pə A ‘four’, *r-ma A ‘five’, *x-nəm A ‘six’, *t-ru A ‘seven’, *m-ru A ‘eight’, *s-γwa B ‘nine’, and *pwlot D ‘ten’. The system of classifiers is very rich. So, for example, Gelao at Pingba has distinct classifiers for a number of long narrow objects that are all rendered by tiao in Chinese, i.e.; s13 qan13 qen55 ‘one-CLF-road’, s13 san13 ŋkau55 ‘one-CLF-snake’, s13 la55 en55 ‘one-CLF-skirt’, s13 nen33 thu55 ‘one-CLF-boat’, and s13 tshu55 ten55 ‘one-CLF-blanket’.

**Demonstrative pronouns.** Gelao at Pingba distinguishes only proximal and distal forms in its demonstrative system, but at other Gelao locations three forms are the norm as in Tai and Kam-Sui languages. In the NP the position for demonstratives or specifiers is at the end of the NP. Examples are:

(8) a. su33 u42 hau13 la55 te55 pə13 hu33 tsu33 ni21
   s/he take bowl pu on top table this
   ‘S/he put the bowl on this table.’

b. nen33 ni21 a33, nen33 nu42 a33 o54
   CLF this good CLS that good NEG
   ‘This is good, but that is bad.’

c. s13 tsa21 mpo21 ni21 kū21 a33
   one meal rice this full good

Lachi

d. san55 ne44 a55, san55 pje44 a55 ljo31
   CLF this good CLF that good NEG
   ‘This one (animal) is good, but that one is not good.’

Family names, such as Wang, Huang, Long, etc., are rendered into Gelao with the word corresponding to that meaning. Thus Long ‘dragon’ is zau55; Wen is ven21, etc.

Negation is one aspect of this subgrouping that is quite unlike other Kam-Tai languages. Negation always comes at the end of the sentence (also in questions, which are of the V-V-NEG ‘are you, or are you not’ type. Examples are:

*Gelao*

(9) a. su33 tə33 vu13 a33 (Wanzi)
   we go NEG
   ‘We are not going.’

b. tjo31 lie31, pai35 qhu31 tou35 o33. (Bigong Gelao)
   plant late obtain eat arrive NEG
   ‘If you plant late, you won’t be able to eat.’
c. (qo\(^{33}\)ju\(^{31}\)) le\(^{35}\) te\(^{31}\) o\(^{33}\)
   a farmer lazy can NEG
   ‘(A farmer) cannot be lazy.’

Laha
d. in\(^{417}\) an\(^{447}\) si\(^{417}\)
   I have comb
   ‘I have a comb.’

d’. in\(^{417}\) an\(^{447}\) si\(^{417}\) tau\(^{417}\)
   I have comb NEG
   ‘I don’t have a comb.’

Buyang resembles the other Kra languages in another important and distinctive feature: negation. For example. van\(^{54}\) ni\(^{11}\) qa o \(\bar{b}o\) ni\(^{11}\) laai\(^{11}\) day-this-cold-NEG ‘Today it is not cold’ and ke\(^{54}\) tin\(^{11}\) la\(^{31}\) qhn\(^{54}\) laam\(^{11}\) s/he-can-walk-road-not yet ‘S/he can walk yet.’ Paha is exceptional in the position of negation by having it precede the verb. The meaning ‘No one knows him’ can be rendered in Buyang dialects as (10).

(10) a. Paha:
   pa\(^{33}\) nau\(^{33}\) k\(^{33}\) pi\(^{45}\) \(\theta\)aa\(^{45}\) \(\theta\)a\(^{31}\) k\(^{55}\)
   who also NEG know 3sg

b. Yalang:
   va\(^{31}\) ni\(^{12}\) j\(^{53}\) ka\(^{33}\) ki\(^{33}\) la\(^{31}\)
   who also know 3sg NEG

c. Ecun:
   vaai\(^{33}\) n\(^{33}\) k\(^{33}\) ?de\(^{55}\) ke\(^{24}\) naai\(^{53}\)
   who also know 3sg NEG

d. Langjia:
   ma\(^{0}\) n\(^{31}\) k\(^{54}\) tin\(^{11}\) k\(^{54}\) laai\(^{11}\)
   who also know 3sg NEG

Data on the Kra languages are only just beginning to emerge. They are giving us a glimpse into a language and culture of great interest, great antiquity, and surprising sophistication. They have not only their own number system but also unique vocabulary for metalworking (silver, gold, iron) and handicrafts (needlework). They do not appear to have been involved in the central occupation of the Kam-Tai group of wet paddy rice cultivation or at least did not share its unique vocabulary. We look forward to seeing much more about this important group.
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