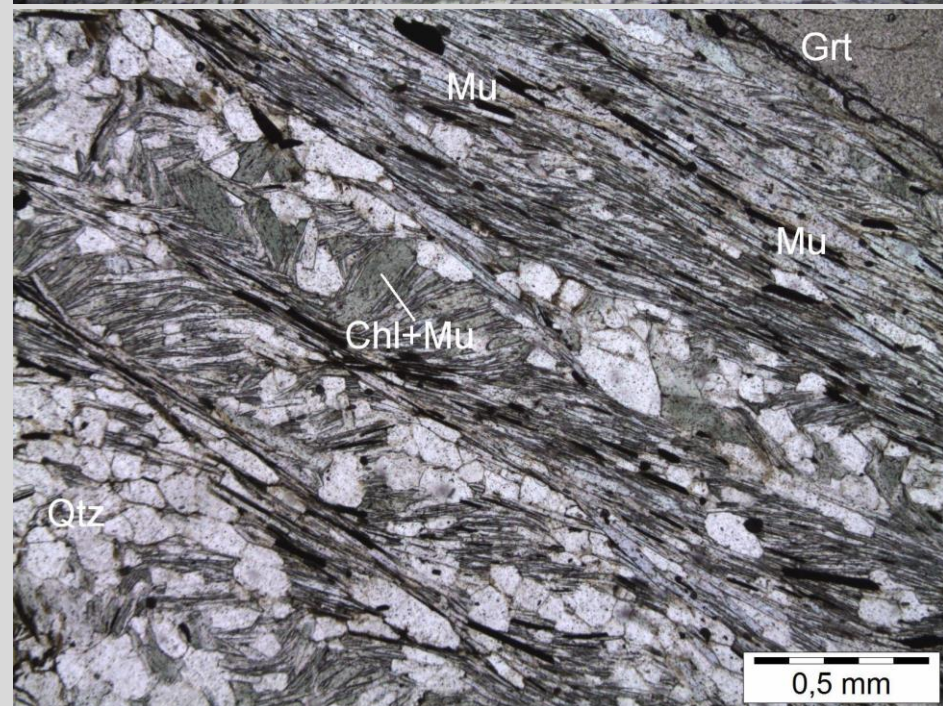
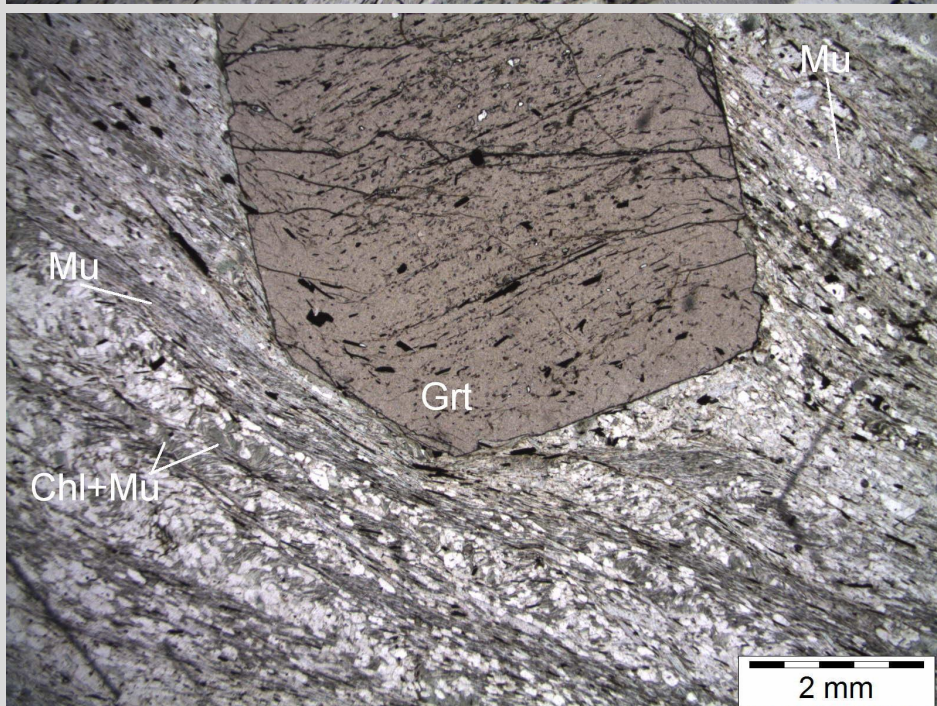
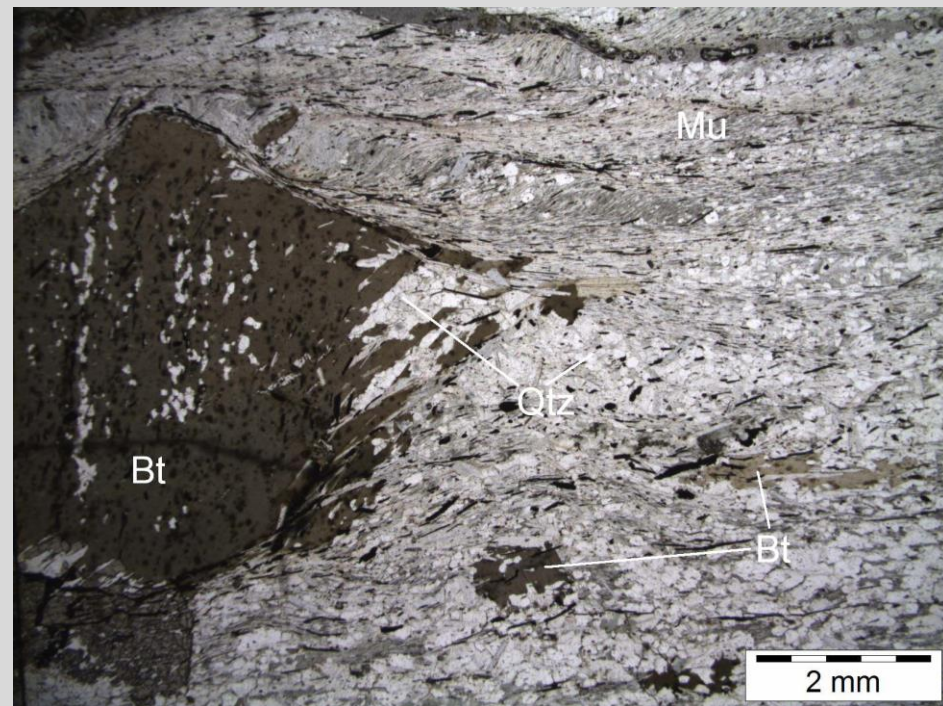
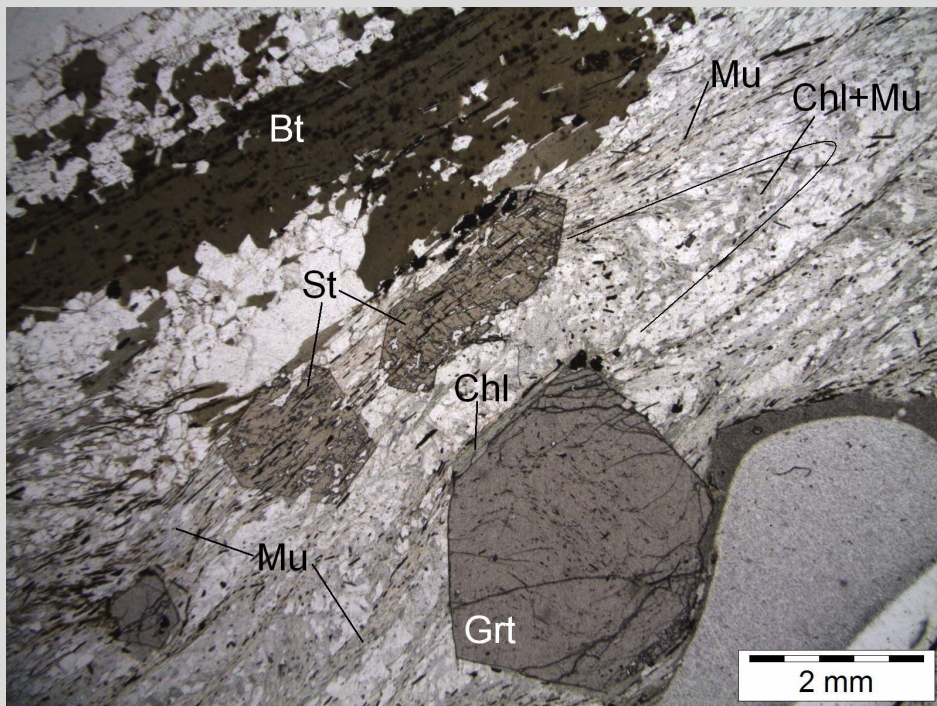


# Exercício 1: Blastese *versus* Deformação



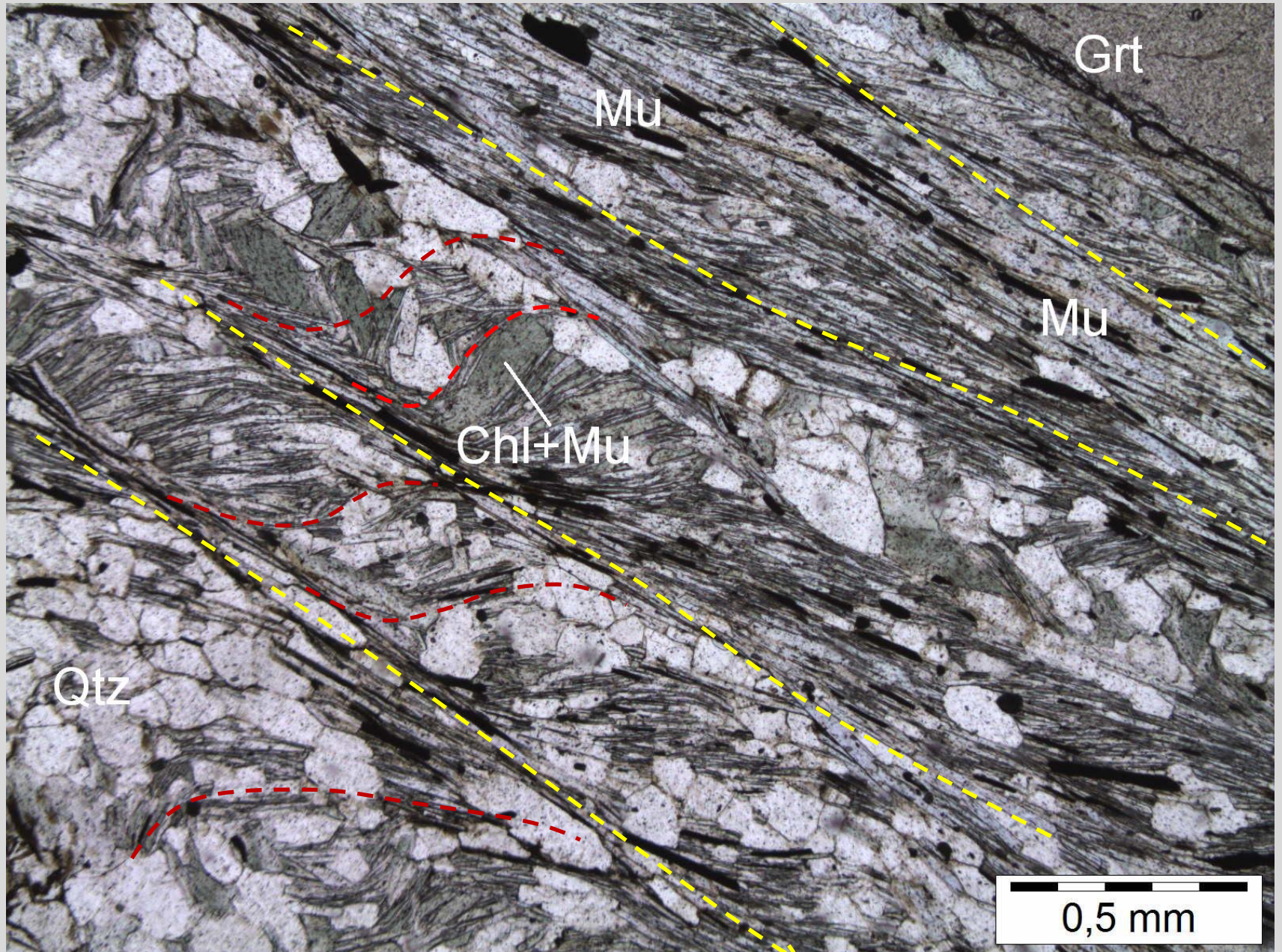




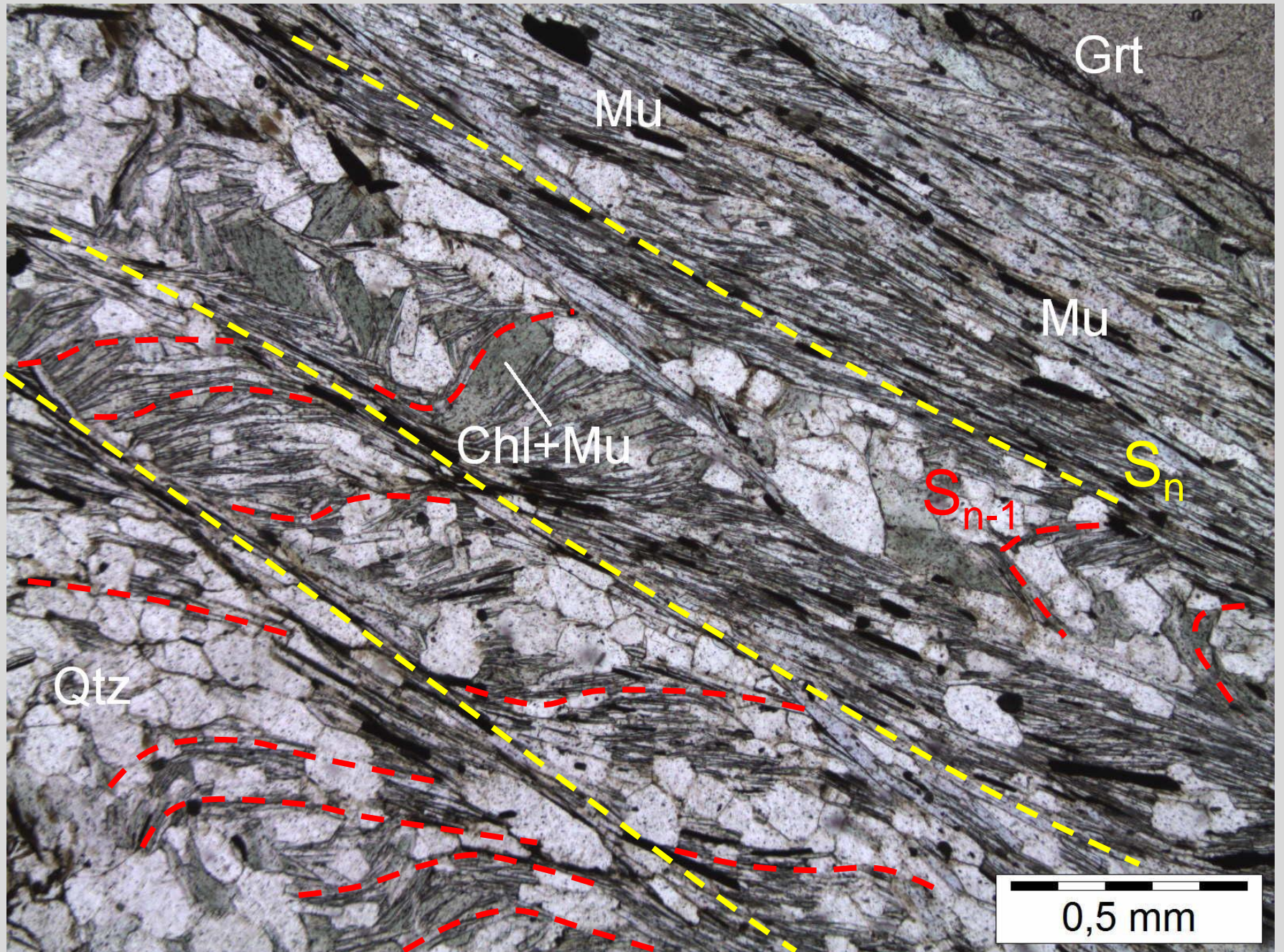
Passo 1: Determine as relações entre as foliações externas



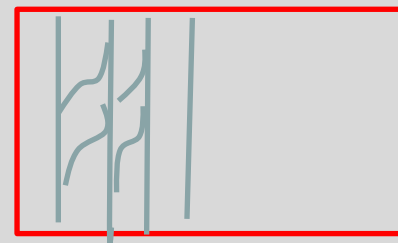
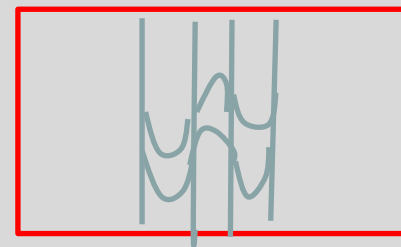
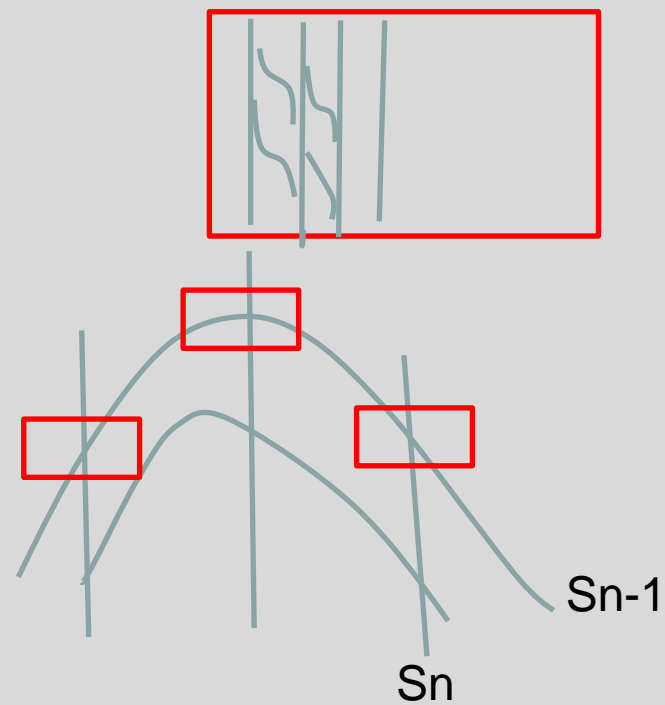
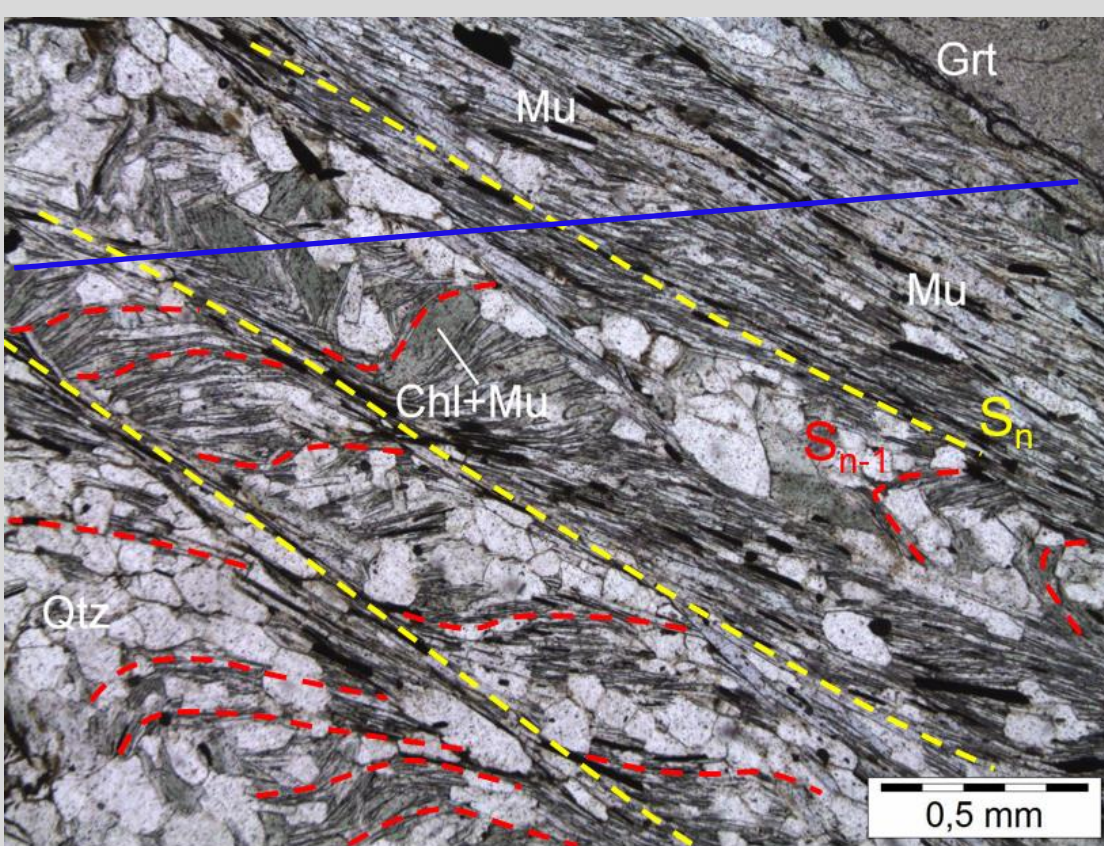
# Quantas foliações?









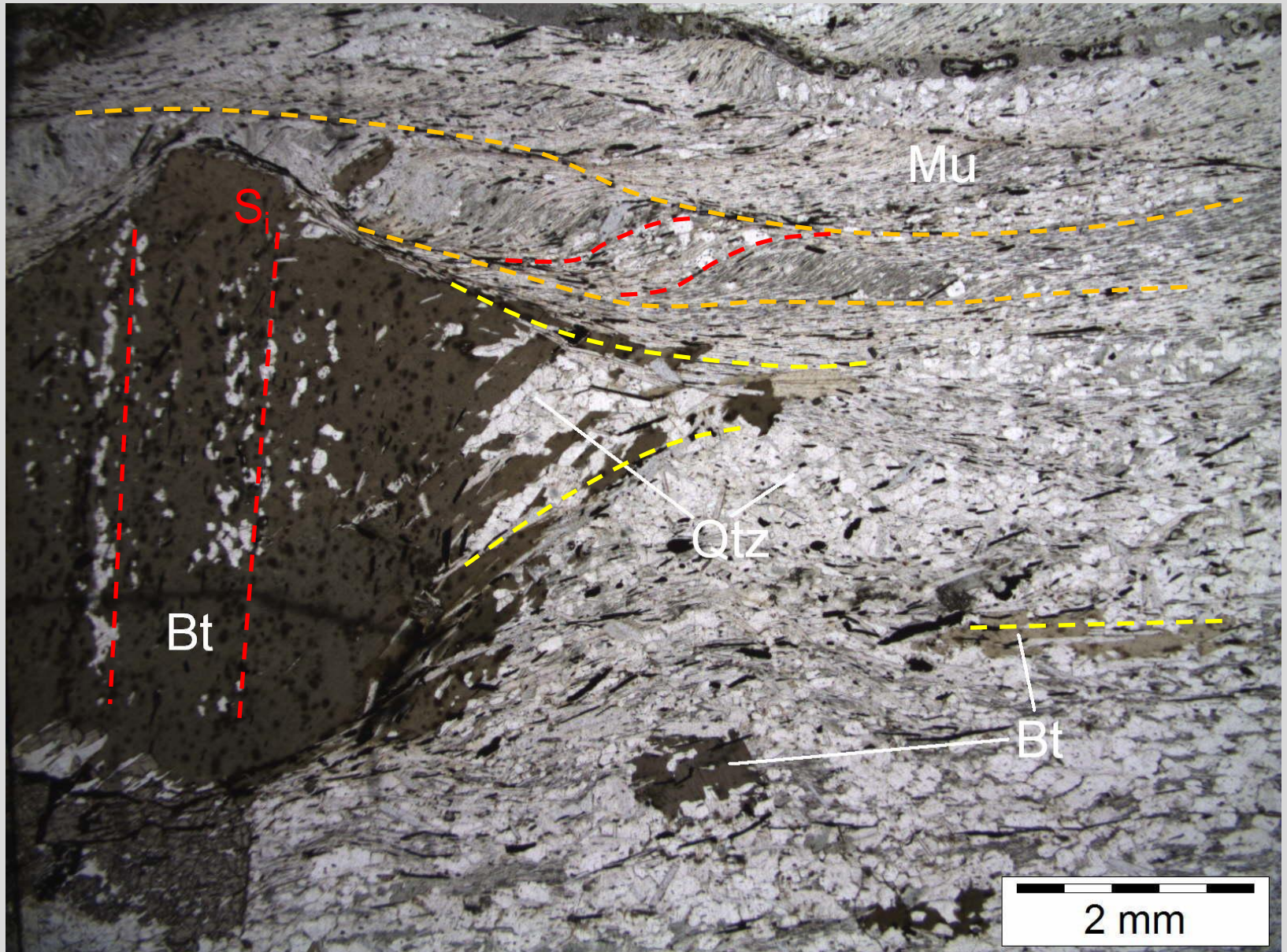


|     | $S_{n-1}$ | Pós- $S_{n-1}$ | $S_n$ | Pós- $S_n$ |
|-----|-----------|----------------|-------|------------|
| Ms  |           |                |       |            |
| Qtz |           |                |       |            |
| Chl |           |                |       |            |
| Bt  |           |                |       |            |
| Grt |           |                |       |            |
| St  |           |                |       |            |

Passo 2: Determine as relações entre as foliações externas e internas para cada porfiroblasto

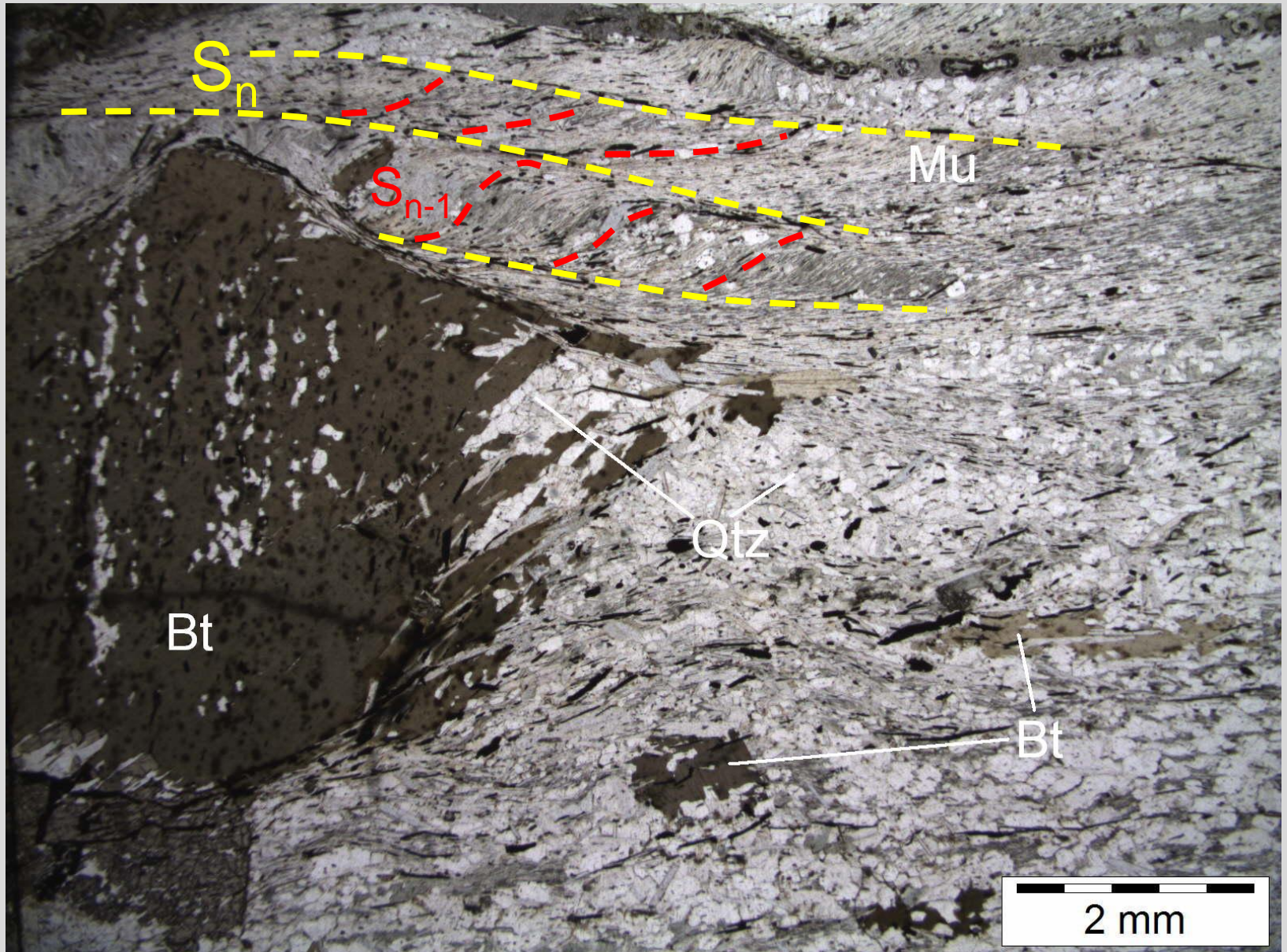


# Biotita



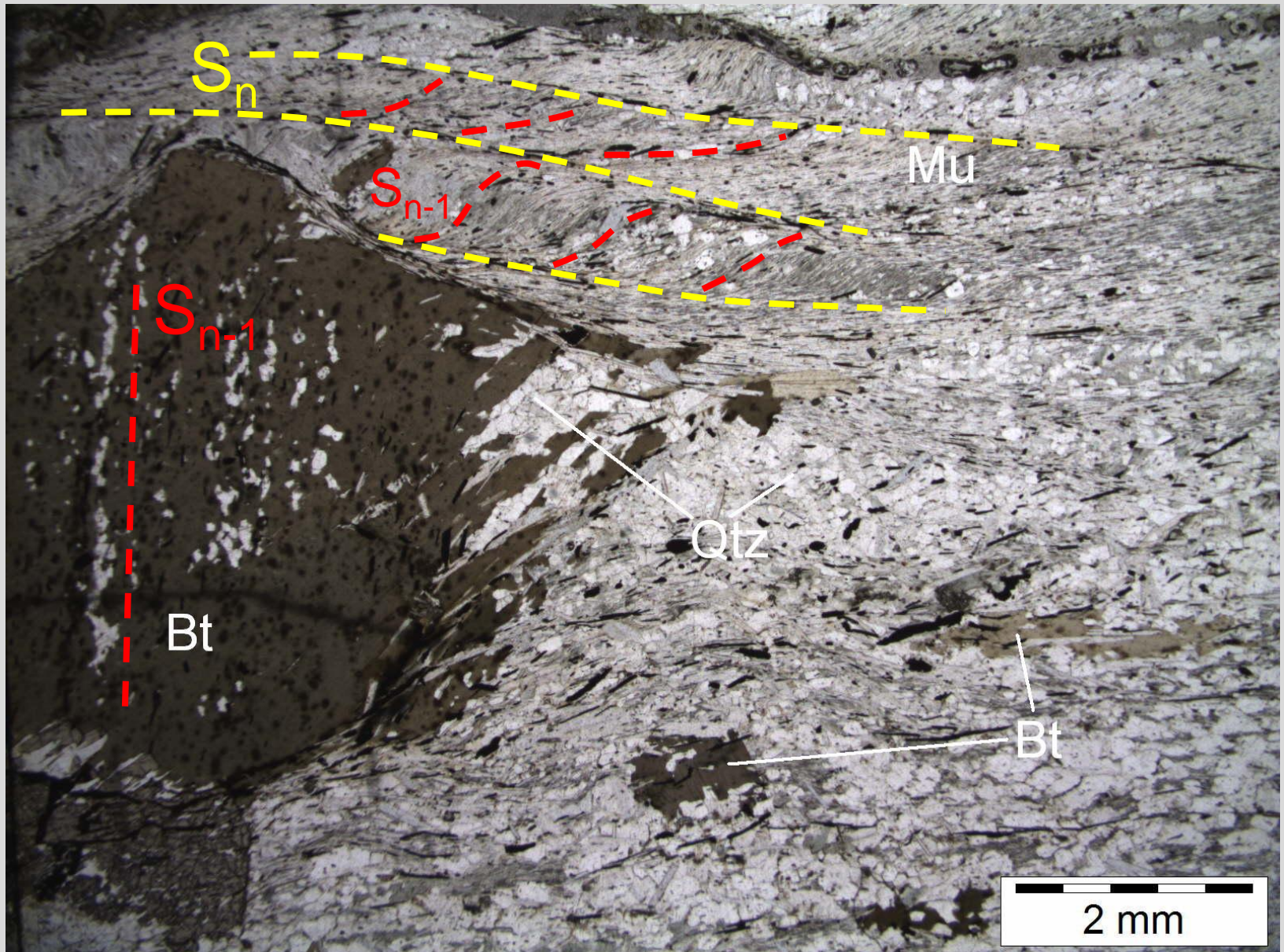


# Biotita



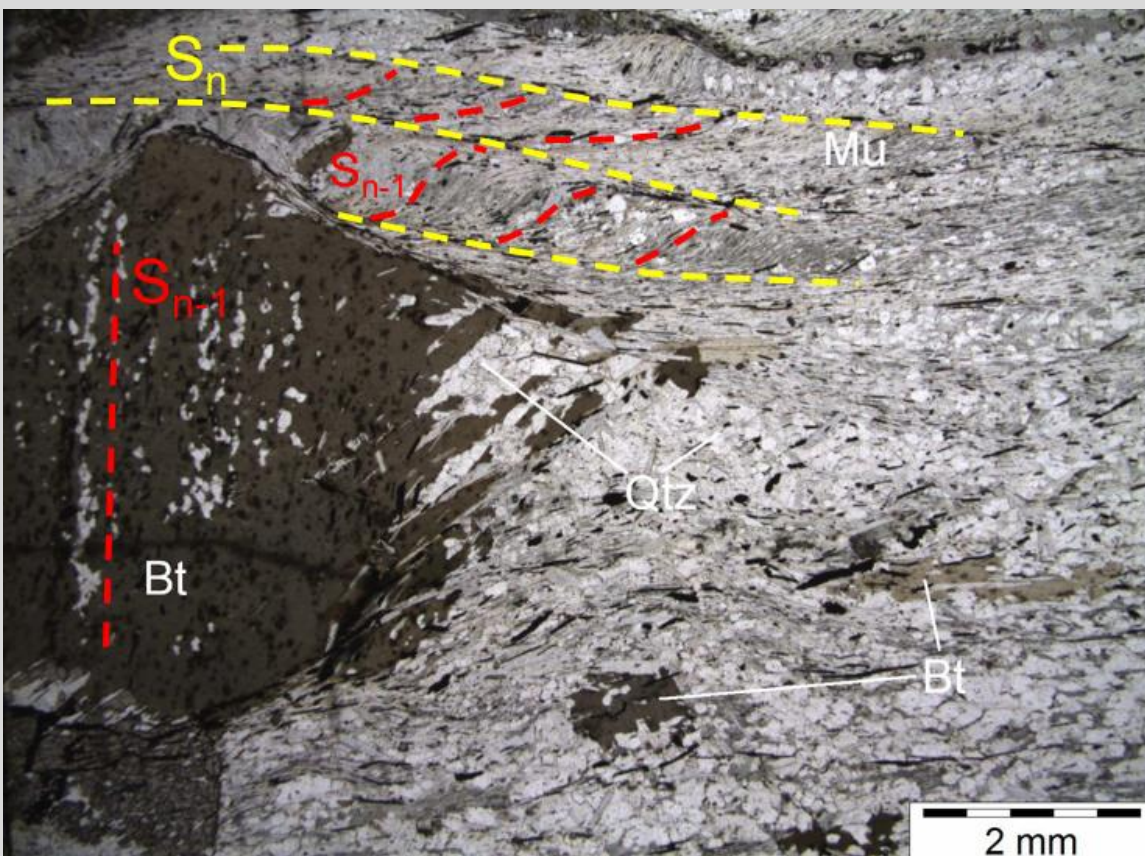


# Biotita





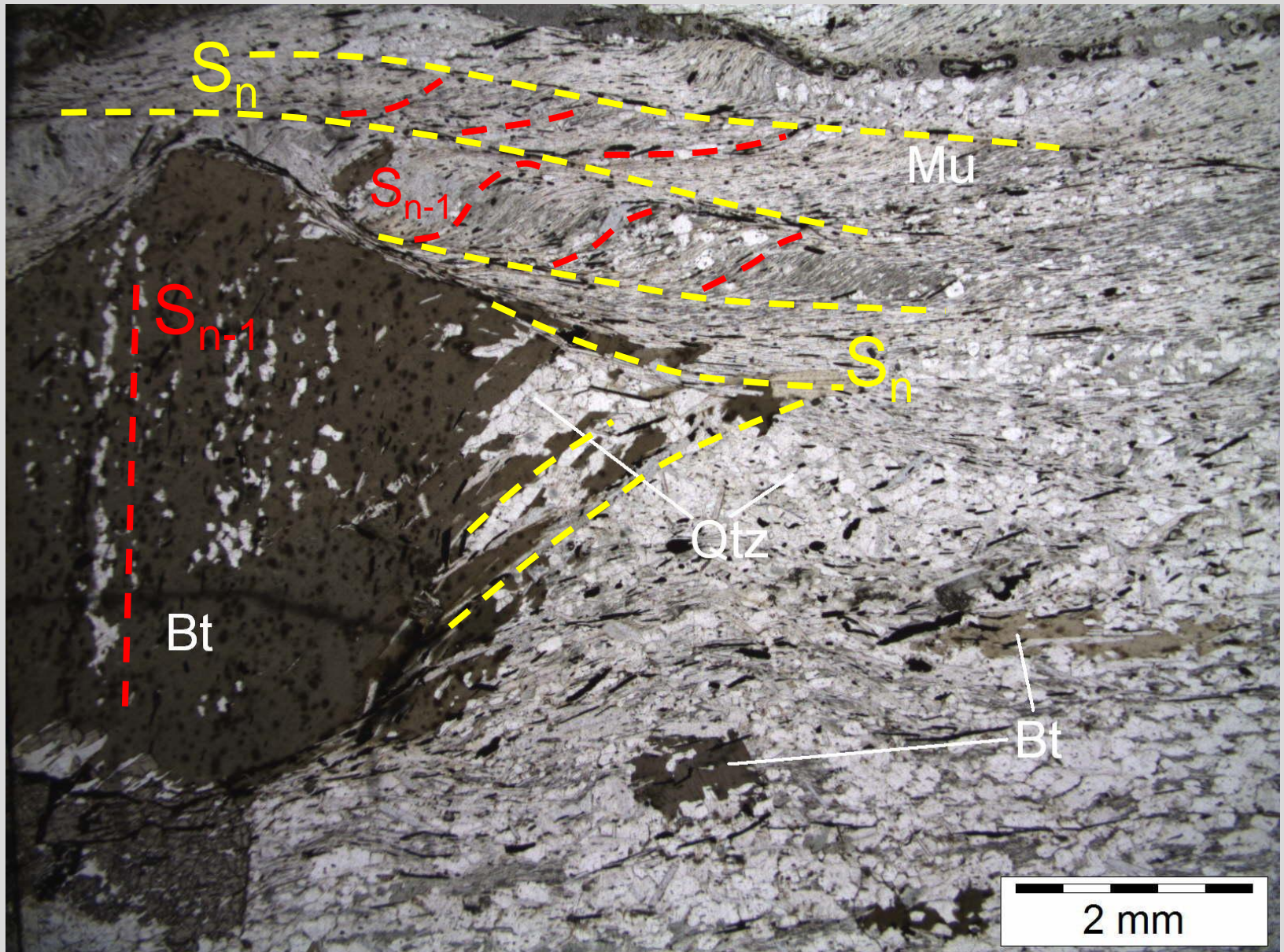
# Biotita



|     | $S_{n-1}$  | Pós- $S_{n-1}$ | $S_n$      | Pós- $S_n$ |
|-----|------------|----------------|------------|------------|
| Ms  | ██████████ |                | ██████████ |            |
| Qtz | ██████████ |                | ██████████ |            |
| Chl | ██████████ |                |            |            |
| Bt  |            | ██████████     |            |            |
| Grt |            |                |            |            |
| St  |            |                |            |            |

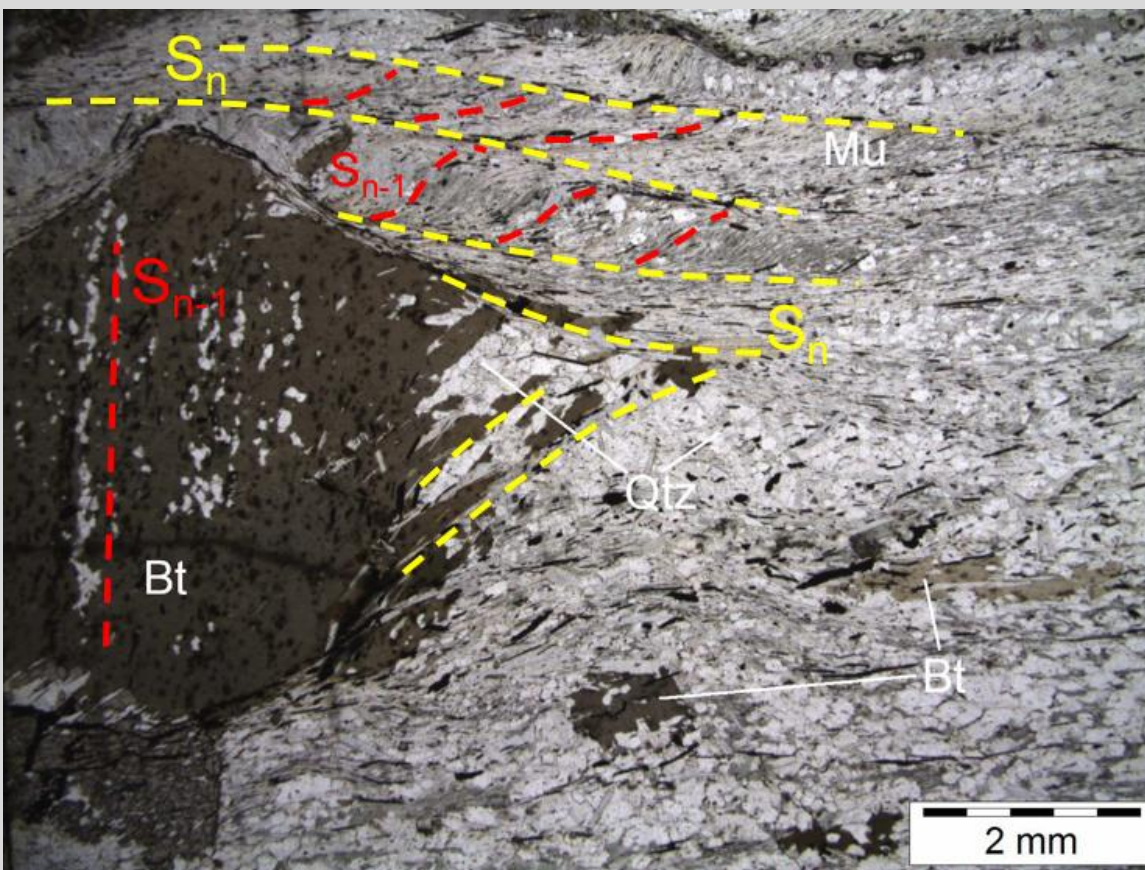


# Biotita





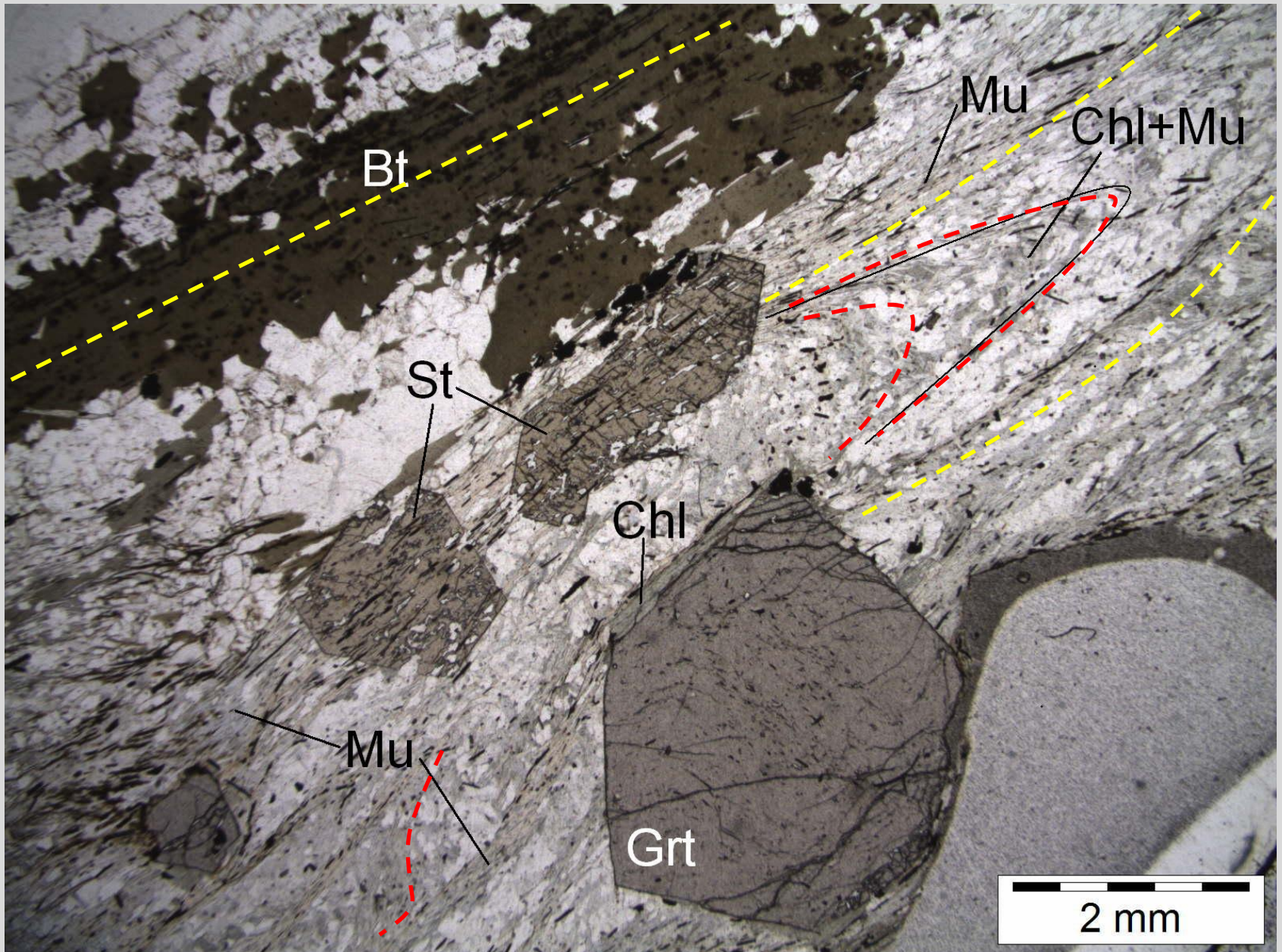
# Biotita



|     | $S_{n-1}$  | Pós- $S_{n-1}$ | $S_n$      | Pós- $S_n$ |
|-----|------------|----------------|------------|------------|
| Ms  | ██████████ |                | ██████████ |            |
| Qtz | ██████████ |                | ██████████ |            |
| Chl | ██████████ |                |            |            |
| Bt  |            | ██████████     |            |            |
| Grt |            |                |            |            |
| St  |            |                |            |            |

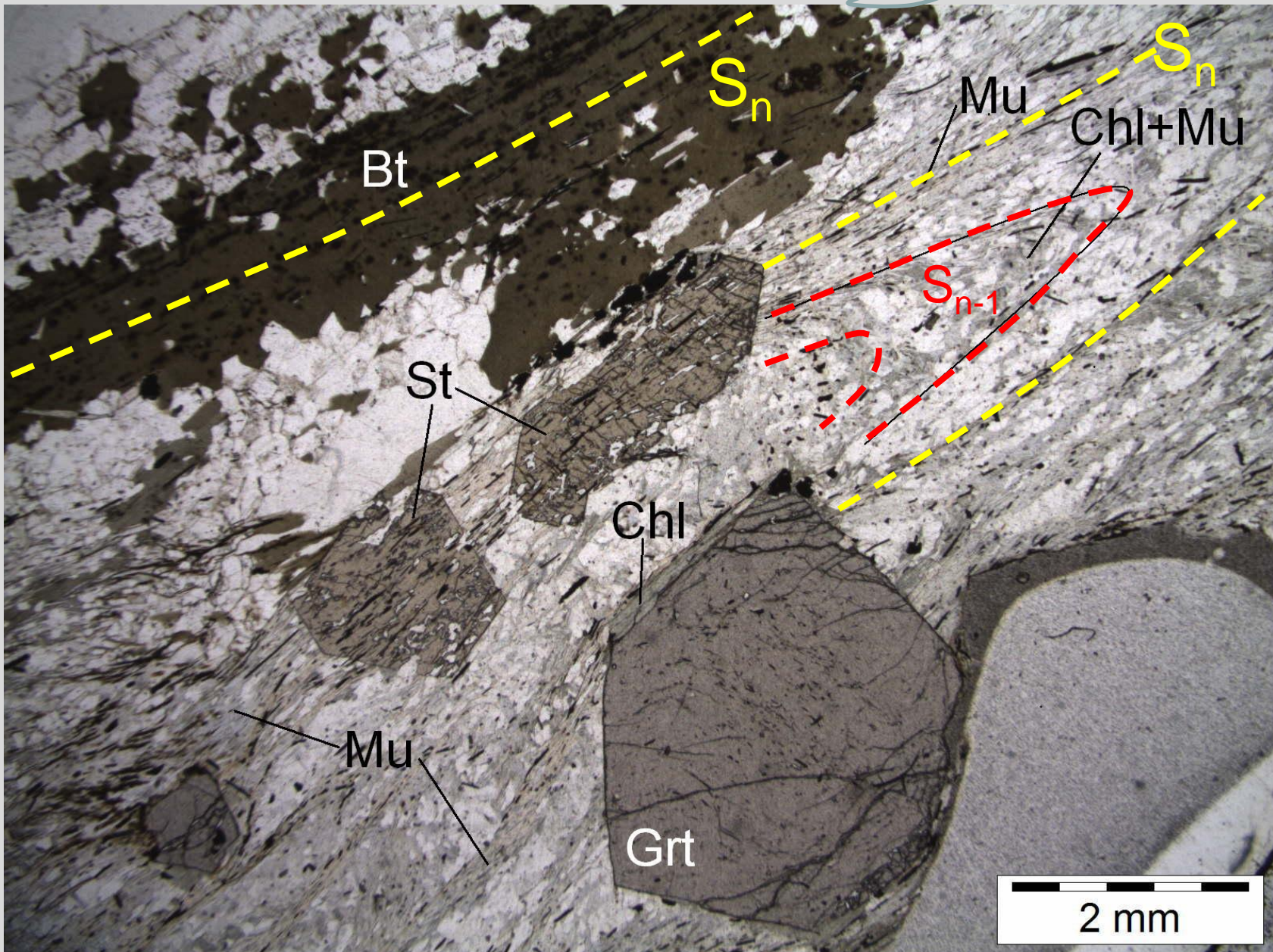


# Biotita



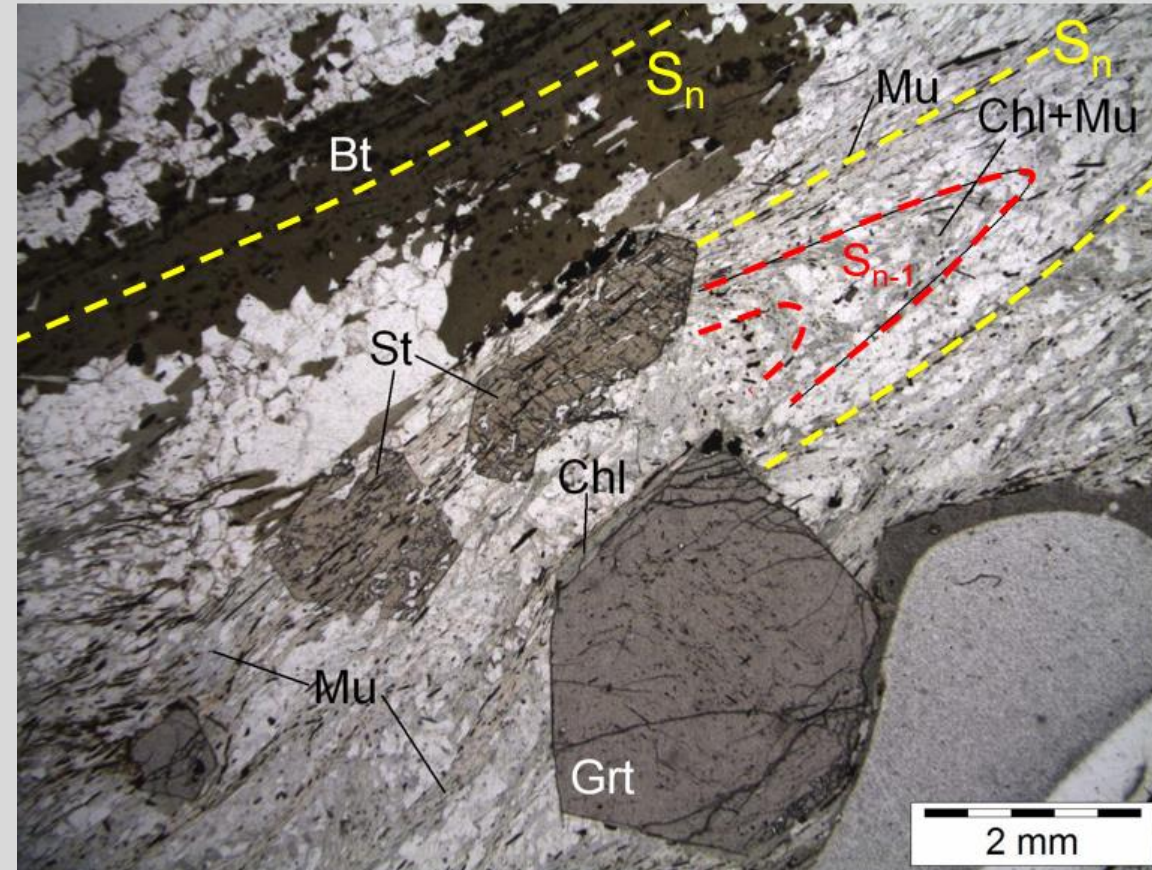


# Biotita





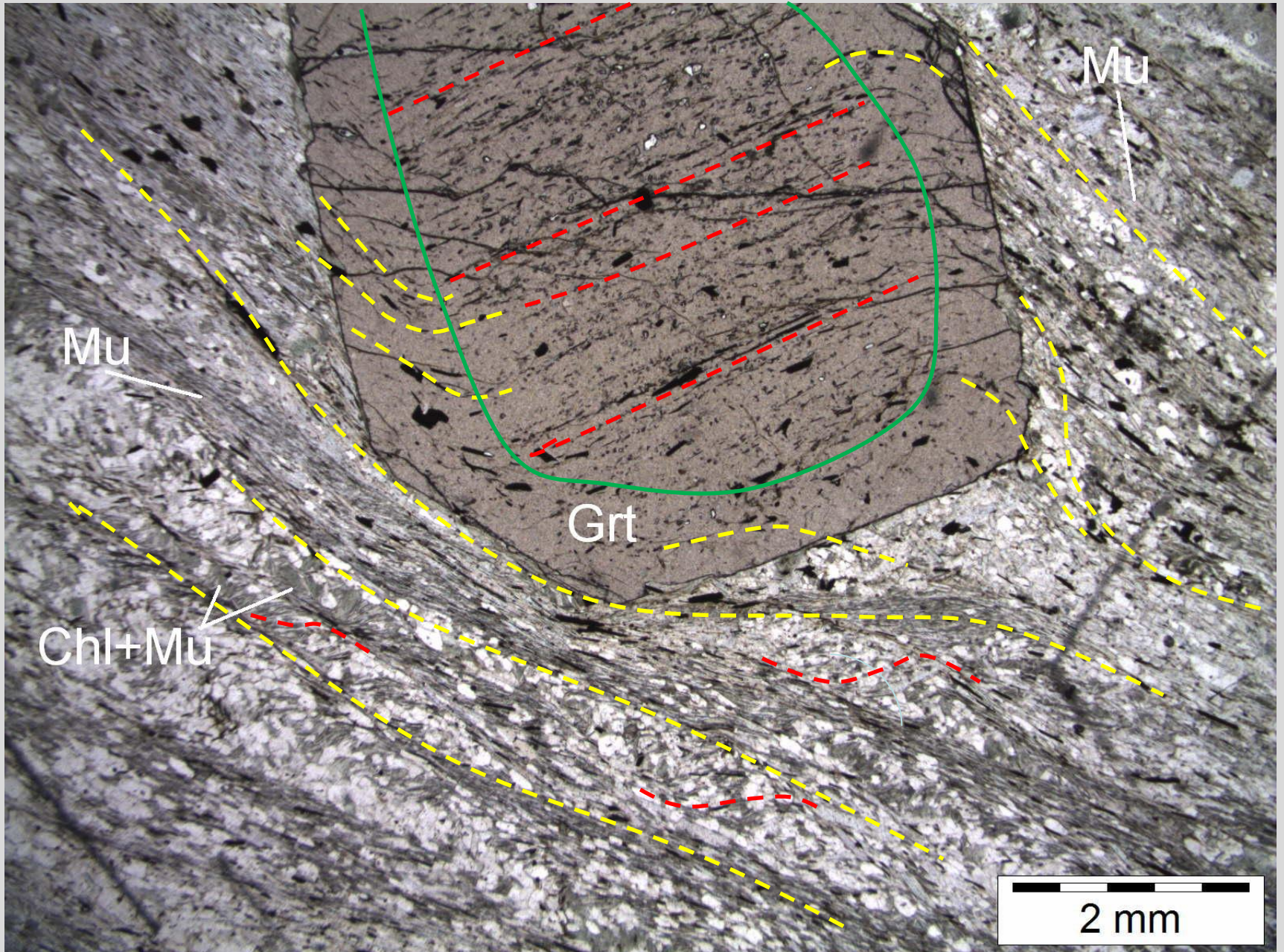
# Biotita



|     | $S_{n-1}$  | Pós- $S_{n-1}$ | $S_n$      | Pós- $S_n$ |
|-----|------------|----------------|------------|------------|
| Ms  | ██████████ |                | ██████████ |            |
| Qtz | ██████████ |                | ██████████ |            |
| Chl | ██████████ |                |            |            |
| Bt  |            | ██████████     |            | ██████████ |
| Grt |            |                |            |            |
| St  |            |                |            |            |

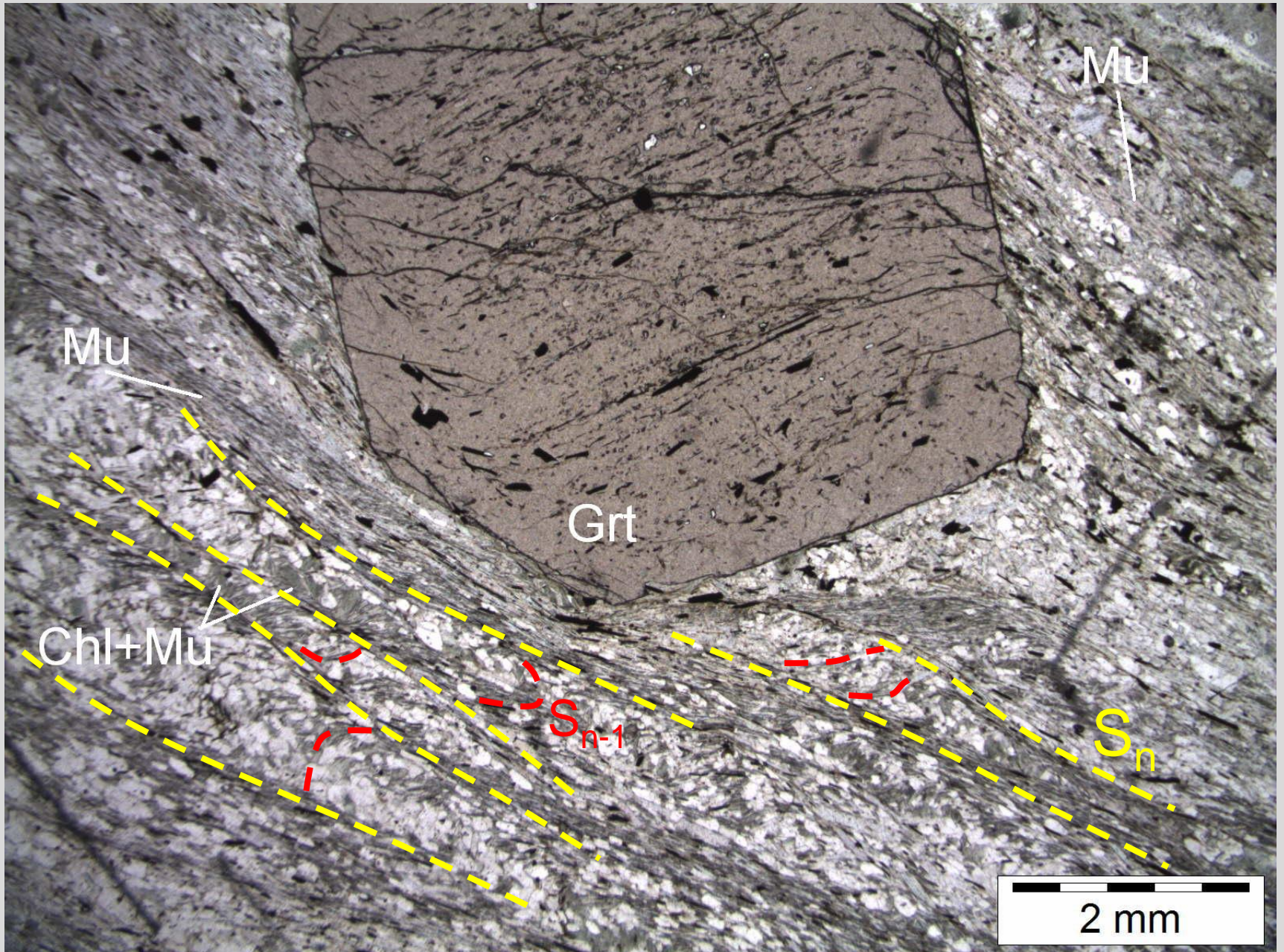


# Granada



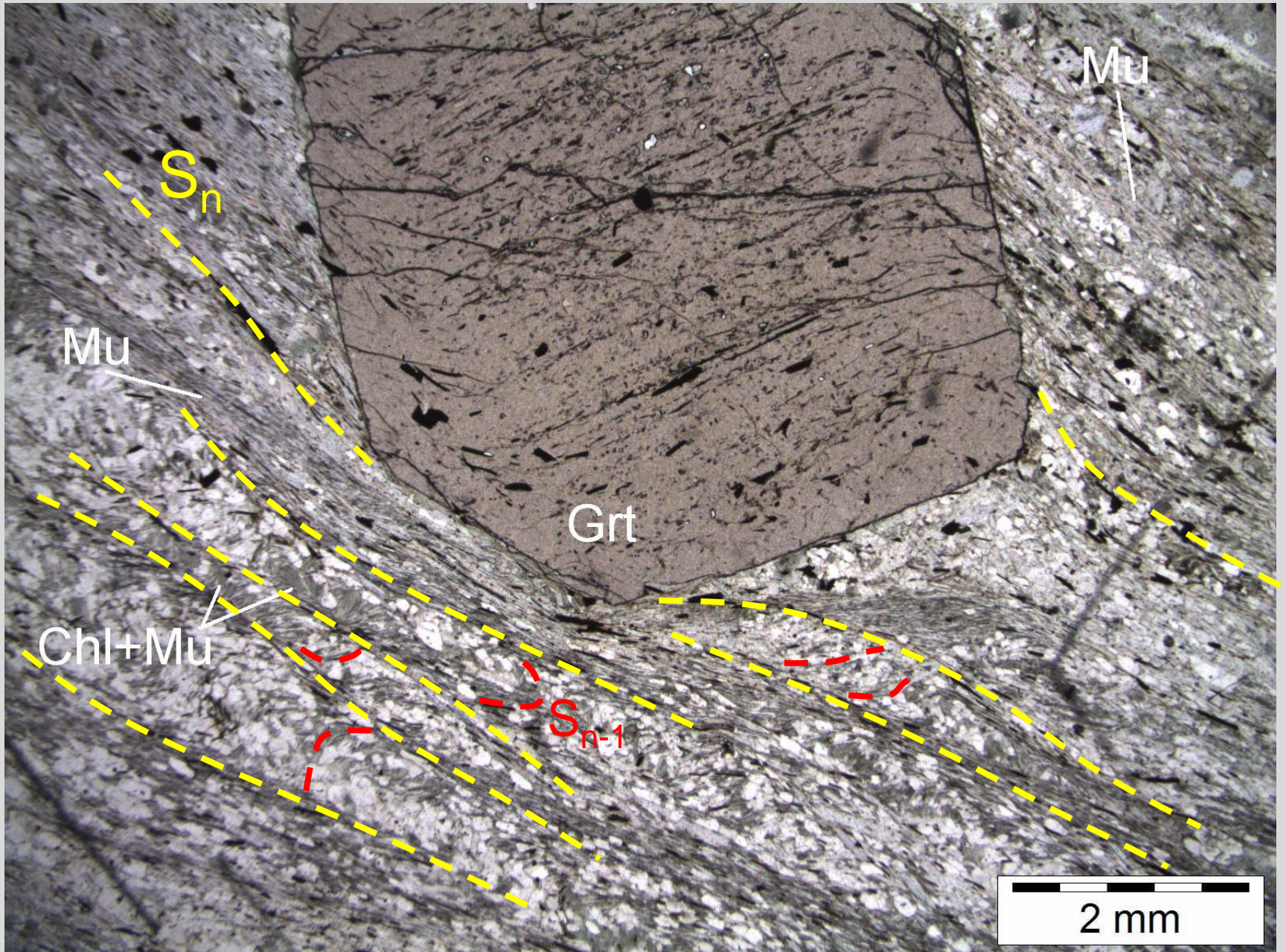


# Granada



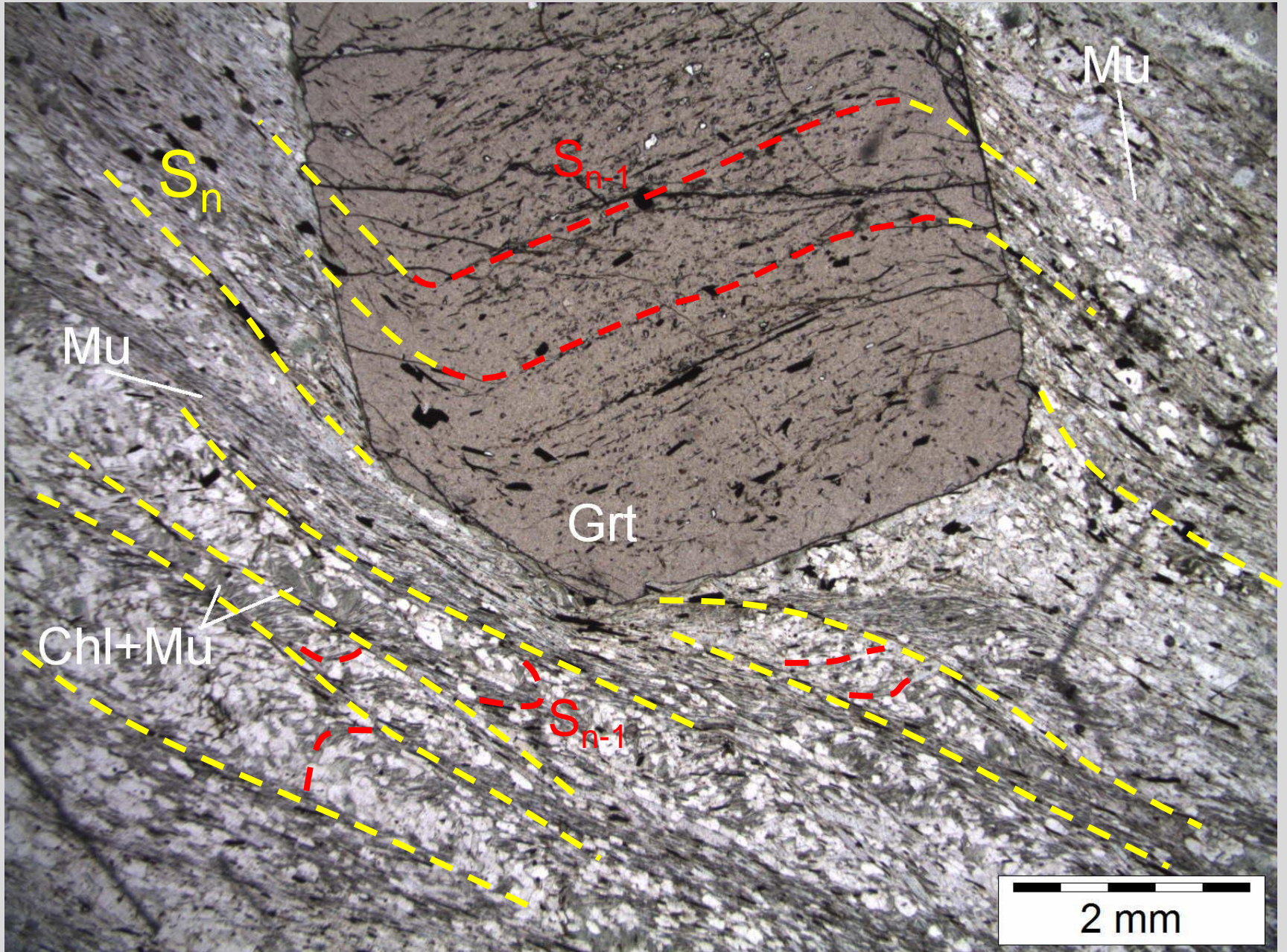


# Granada



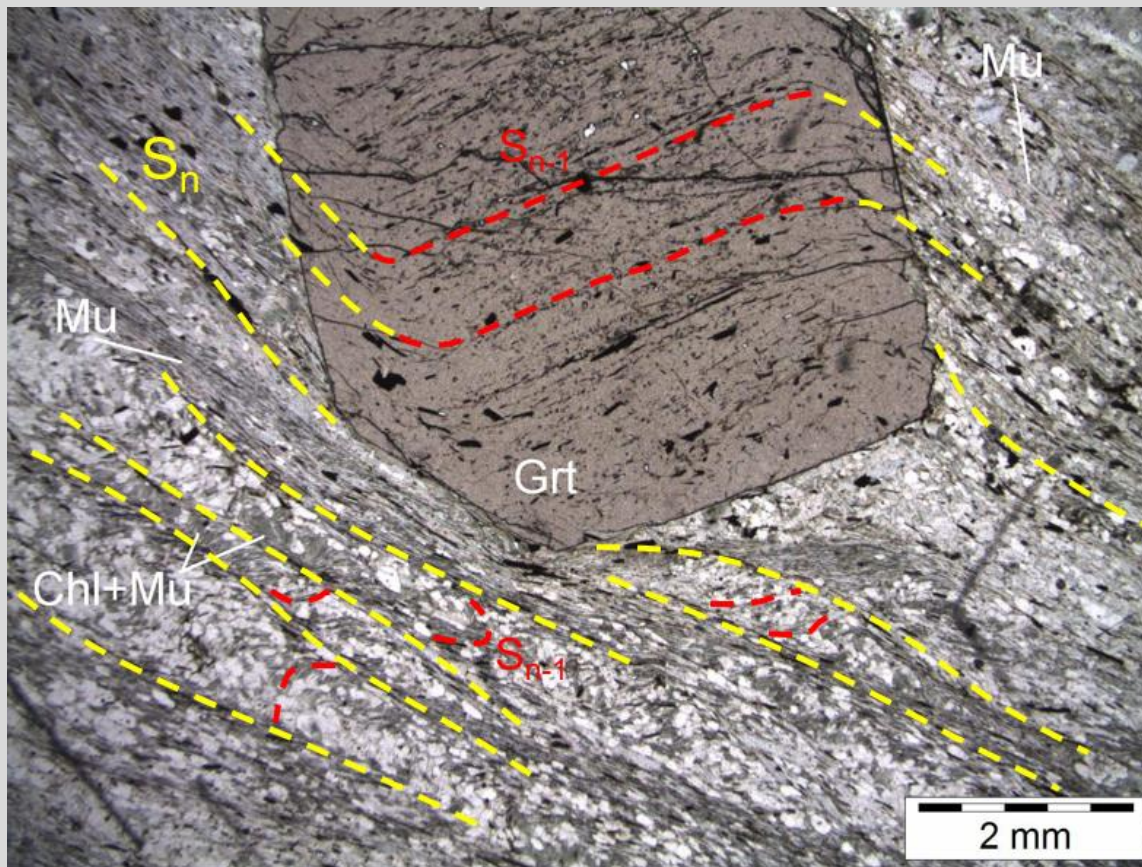


# Granada





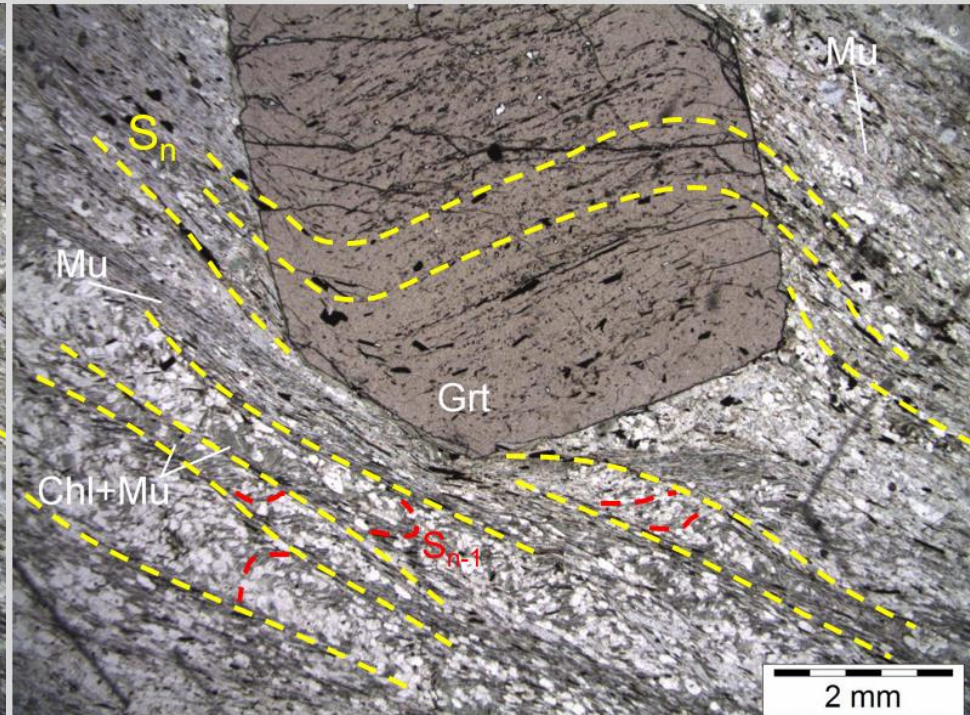
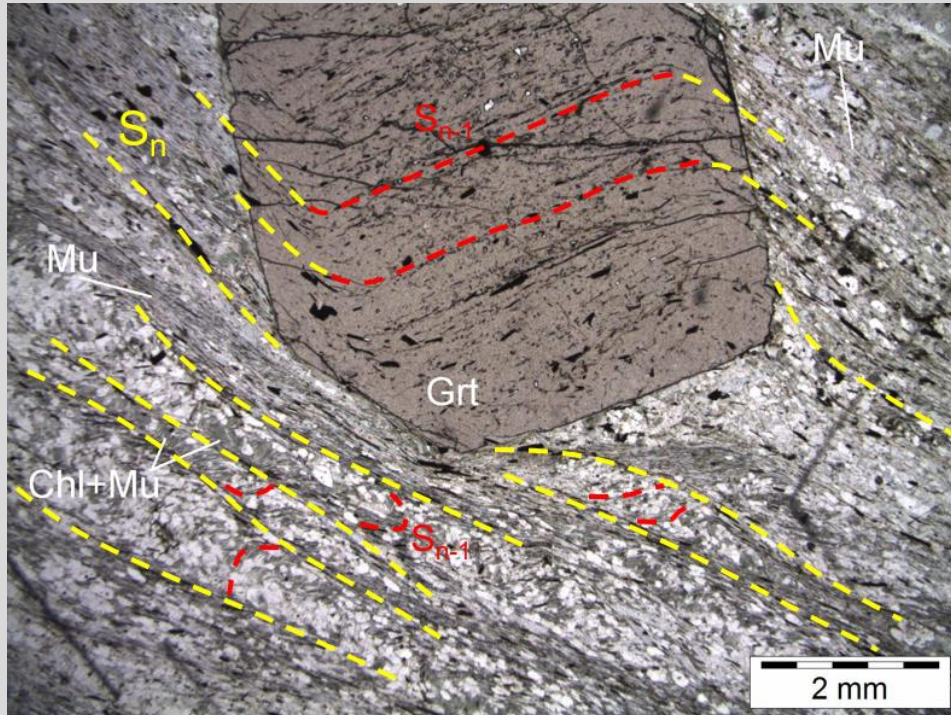
# Granada



|     | $S_{n-1}$  | Pós- $S_{n-1}$ | $S_n$      | Pós- $S_n$ |
|-----|------------|----------------|------------|------------|
| Ms  | ██████████ |                | ██████████ |            |
| Qtz | ██████████ |                | ██████████ |            |
| Chl | ██████████ |                |            |            |
| Bt  |            | ██████████     |            | ██████████ |
| Grt |            | ██████████     |            |            |
| St  |            |                |            |            |



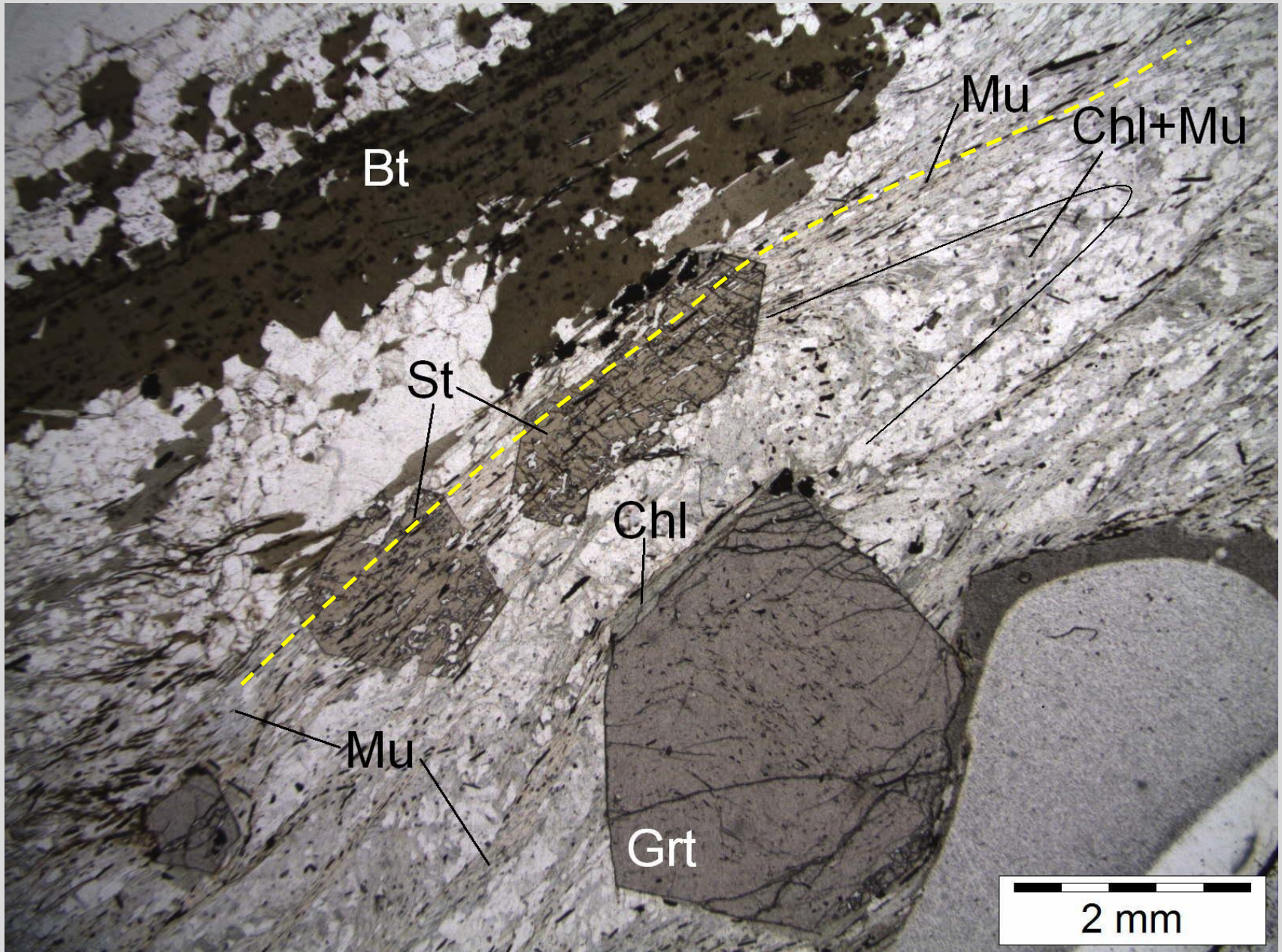
# Granada



|     | $S_{n-1}$  | Pós- $S_{n-1}$ | $S_n$      | Pós- $S_n$ |
|-----|------------|----------------|------------|------------|
| Ms  | ██████████ |                | ██████████ |            |
| Qtz | ██████████ |                | ██████████ |            |
| Chl | ██████████ |                |            |            |
| Bt  |            | ██████████     |            | ██████████ |
| Grt |            | ██████████     |            |            |
| St  |            |                |            |            |

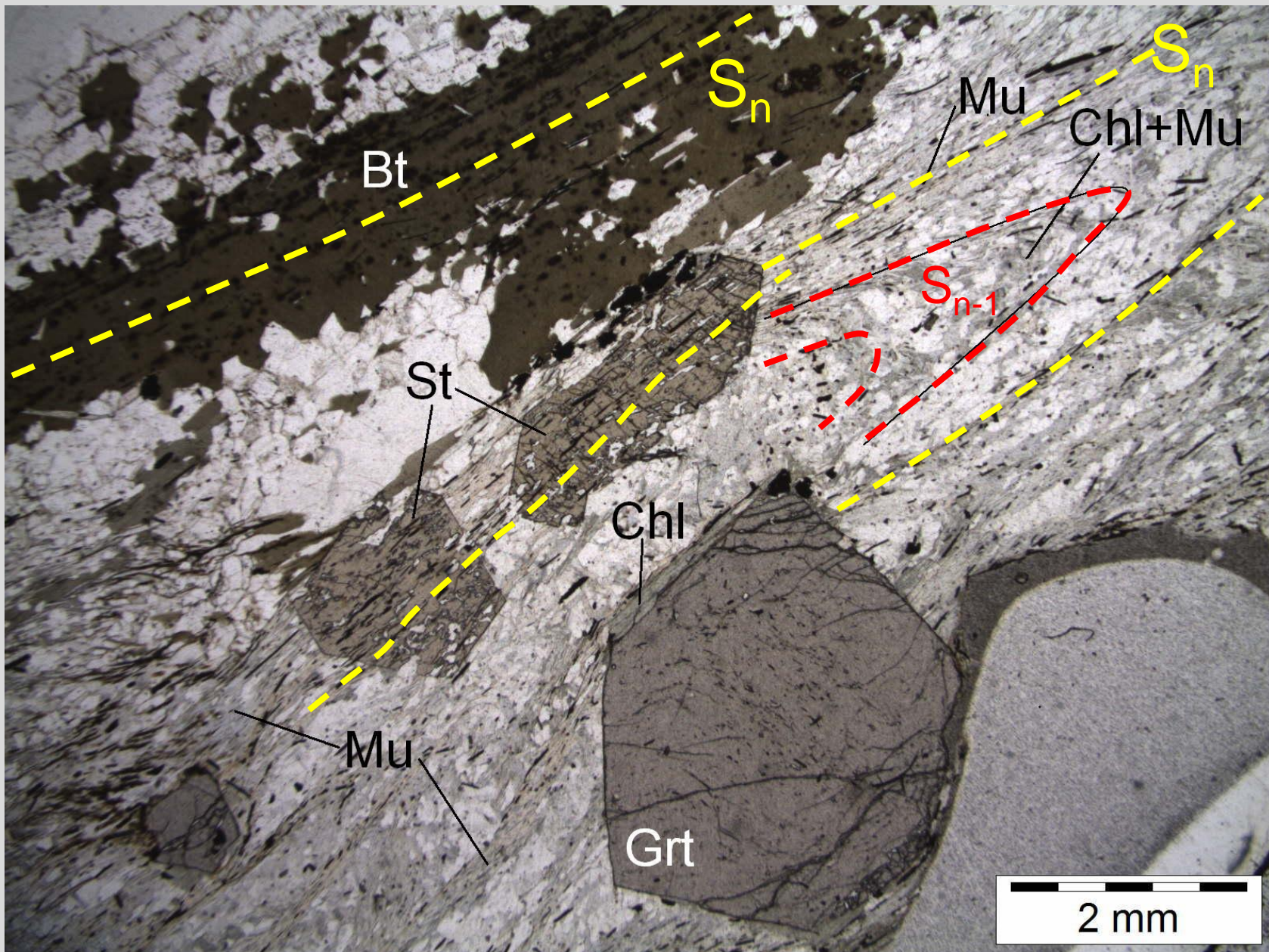


# Estaurolita



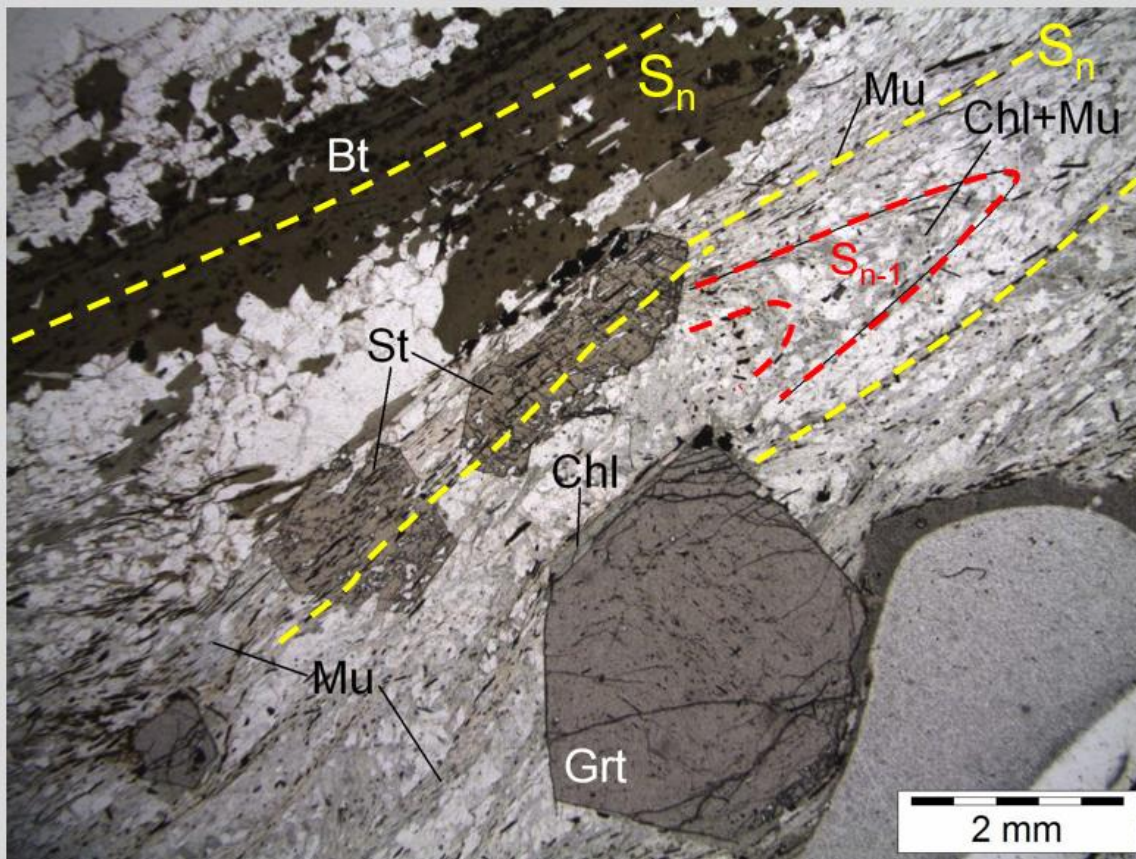


# Estaurolita



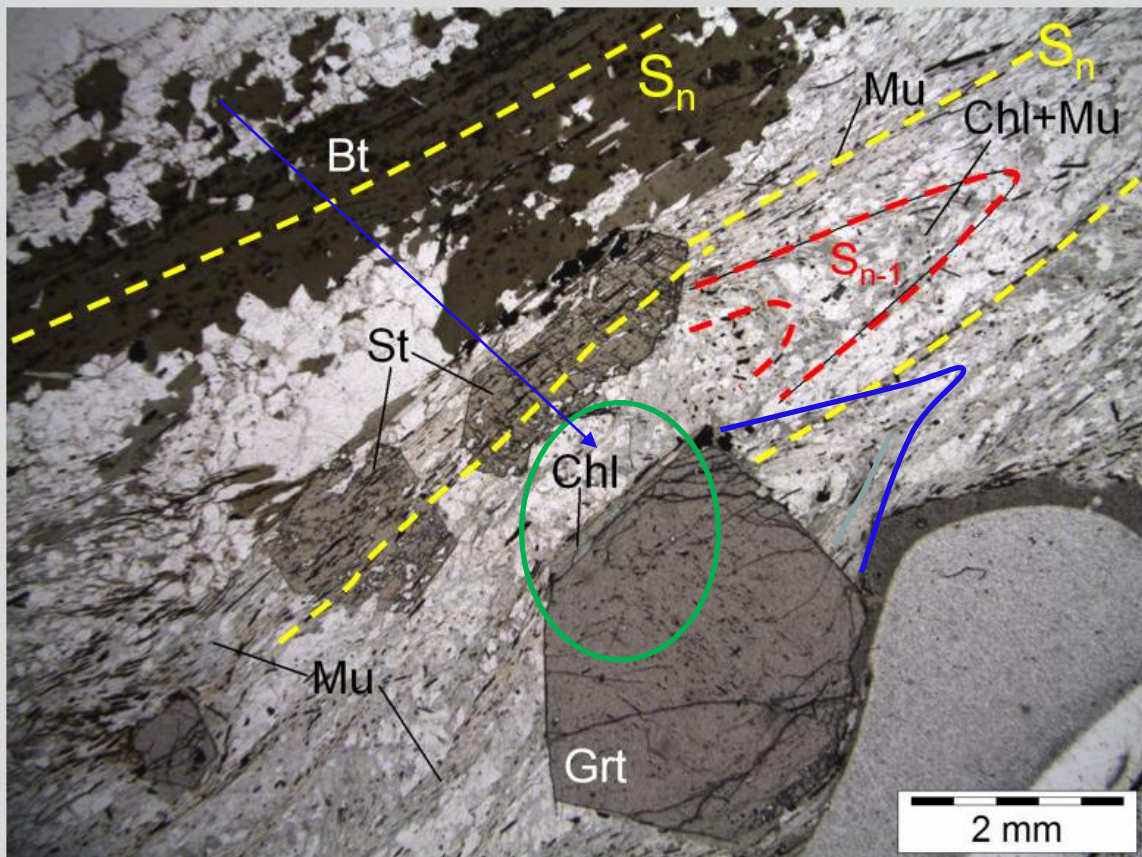


# Estaurorolita

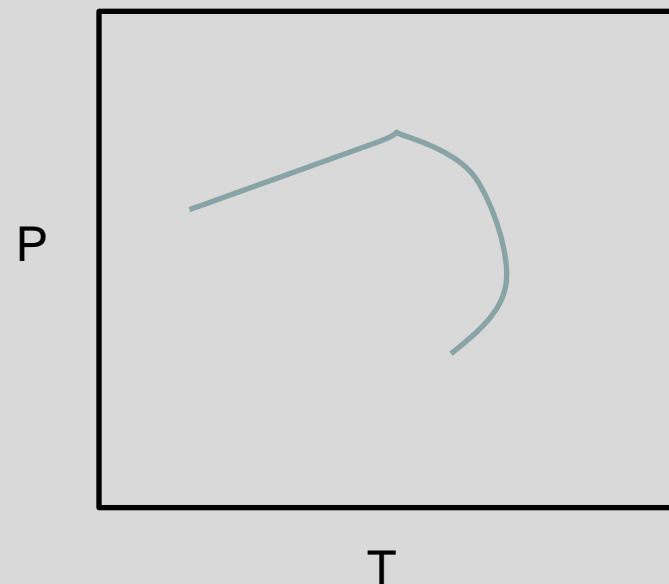


|     | $S_{n-1}$  | Pós- $S_{n-1}$ | $S_n$      | Pós- $S_n$ |
|-----|------------|----------------|------------|------------|
| Ms  | ██████████ |                | ██████████ |            |
| Qtz | ██████████ |                | ██████████ |            |
| Chl | ██████████ |                |            |            |
| Bt  |            | ██████████     |            | ██████████ |
| Grt |            | ██████████     |            |            |
| St  |            |                |            | ██████████ |



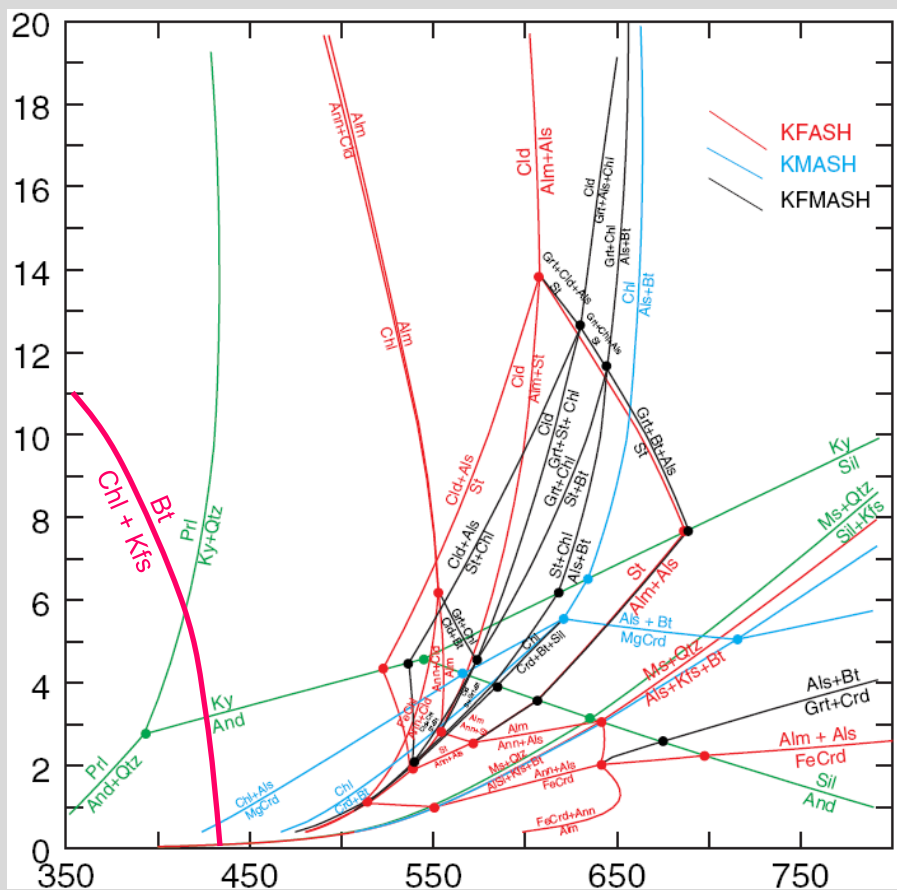


# Clorita



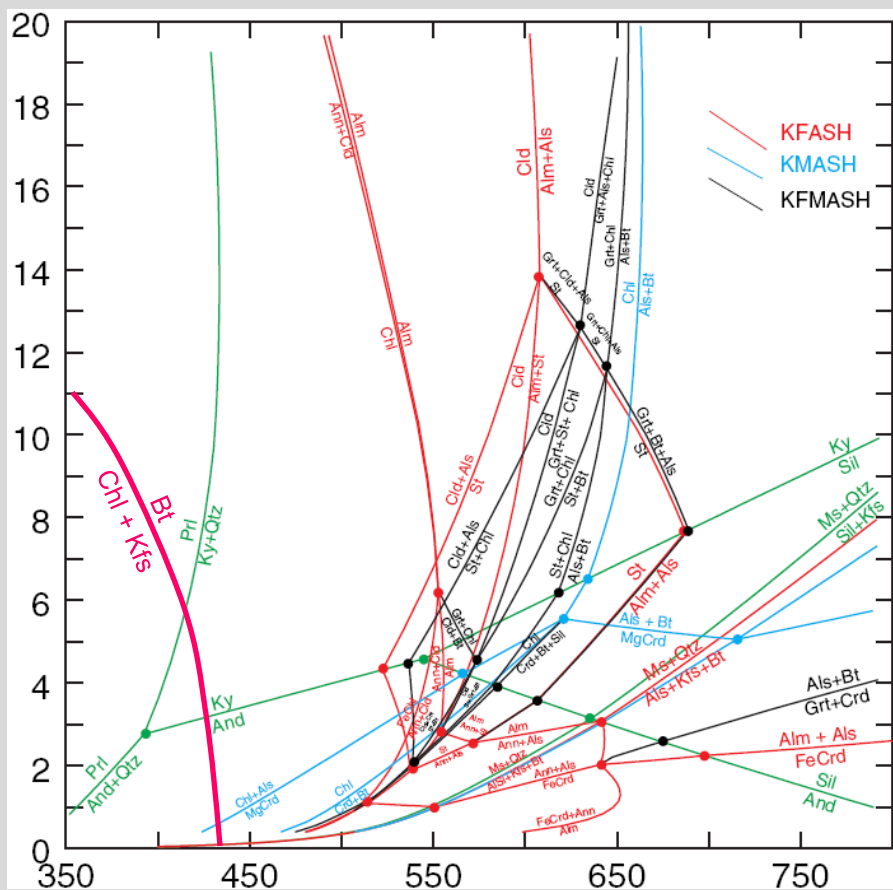
|     | $S_{n-1}$  | Pós- $S_{n-1}$ | $S_n$      | Pós- $S_n$ |
|-----|------------|----------------|------------|------------|
| Ms  | ██████████ |                | ██████████ |            |
| Qtz | ██████████ |                | ██████████ |            |
| Chl | ██████████ |                |            | ████       |
| Bt  |            | ██████████     |            | ██████████ |
| Grt |            | ██████████     |            |            |
| St  |            |                |            | ██████████ |





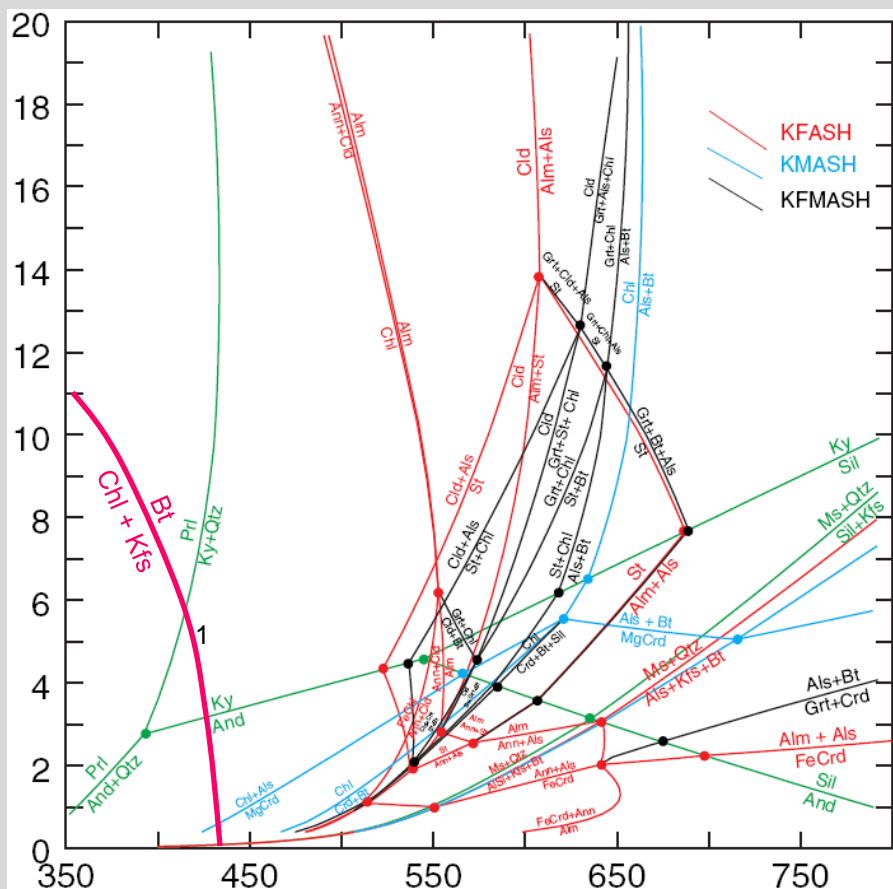
|            | $S_{n-1}$  | Pós- $S_{n-1}$ | $S_n$      | Pós- $S_n$ |
|------------|------------|----------------|------------|------------|
| <u>Ms</u>  | ██████████ |                | ██████████ |            |
| <u>Qtz</u> | ██████████ |                | ██████████ |            |
| <u>Chl</u> | ██████████ |                |            | ██████████ |
| <u>Bt</u>  |            | ██████████     |            | ██████████ |
| <u>Grt</u> |            | ██████████     |            |            |
| <u>St</u>  |            |                |            | ██████████ |





|            | $S_{n-1}$  | Pós- $S_{n-1}$ | $S_n$      | Pós- $S_n$ |
|------------|------------|----------------|------------|------------|
| <u>Ms</u>  | ██████████ |                | ██████████ |            |
| <u>Qtz</u> | ██████████ |                | ██████████ |            |
| <u>Chl</u> | ██████████ |                |            | ██████████ |
| <u>Bt</u>  |            | ██████████     |            | ██████████ |
| <u>Grt</u> |            | ██████████     |            |            |
| <u>St</u>  |            |                |            | ██████████ |



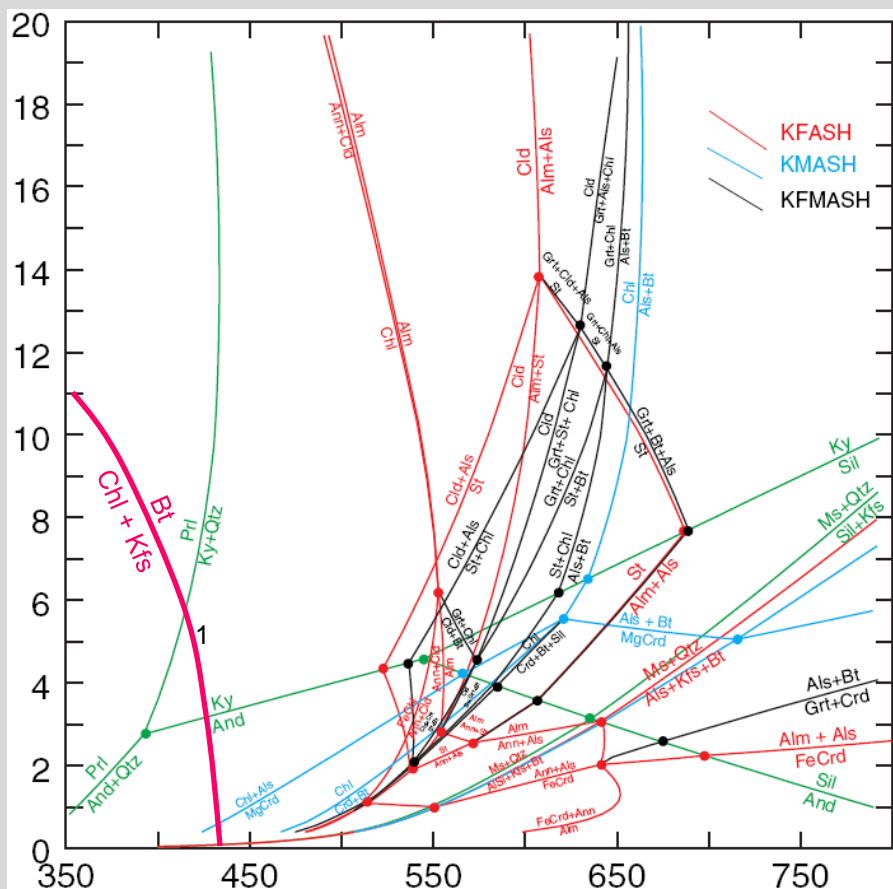


Chl + Kfs = Bt ~400°C

1

|            | $S_{n-1}$  | Pós- $S_{n-1}$ | $S_n$      | Pós- $S_n$ |
|------------|------------|----------------|------------|------------|
| <u>Ms</u>  | ██████████ |                | ██████████ |            |
| <u>Qtz</u> | ██████████ |                | ██████████ |            |
| <u>Chl</u> | ██████████ |                |            | ██████████ |
| <u>Bt</u>  |            | ██████████     |            | ██████████ |
| <u>Grt</u> |            | ██████████     |            |            |
| <u>St</u>  |            |                |            | ██████████ |





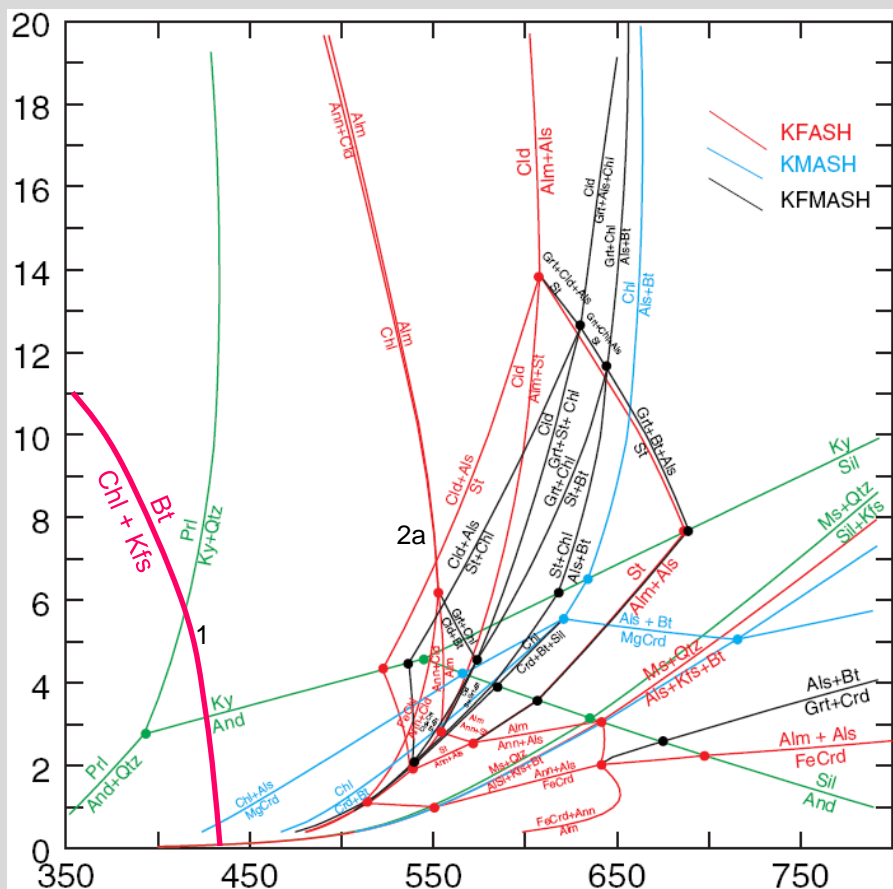
Chl + Kfs = Bt ~400°C

1

1

|            | $S_{n-1}$  | Pós- $S_{n-1}$ | $S_n$      | Pós- $S_n$ |
|------------|------------|----------------|------------|------------|
| <u>Ms</u>  | ██████████ |                | ██████████ |            |
| <u>Qtz</u> | ██████████ |                | ██████████ |            |
| <u>Chl</u> | ██████████ |                |            | ██████████ |
| <u>Bt</u>  |            | ██████████     |            | ██████████ |
| <u>Grt</u> |            | ██████████     |            |            |
| <u>St</u>  |            |                |            | ██████████ |





Chl + Kfs = Bt      ~400°C

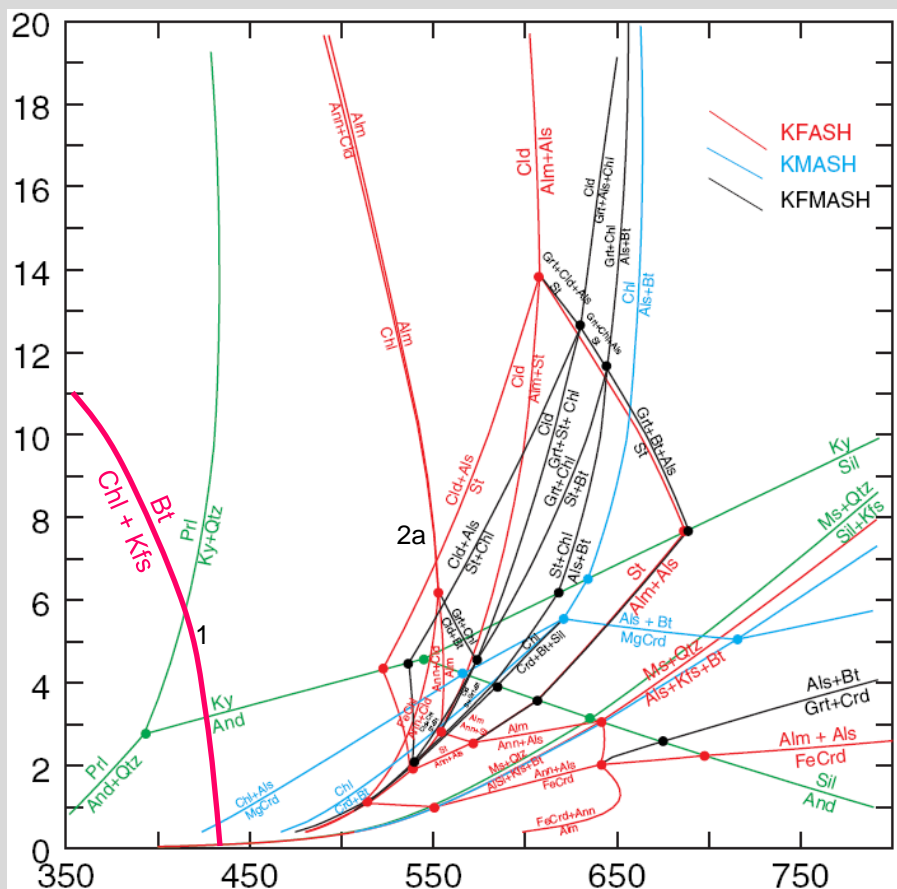
1

Chl = Bt + Grt      500-550°C

2a

|            | $S_{n-1}$  | Pós- $S_{n-1}$ | $S_n$      | Pós- $S_n$ |
|------------|------------|----------------|------------|------------|
| <u>Ms</u>  | ██████████ |                | ██████████ |            |
| <u>Qtz</u> | ██████████ |                | ██████████ |            |
| <u>Chl</u> | ██████████ |                |            | ██████████ |
| <u>Bt</u>  |            | ██████████     |            | ██████████ |
| <u>Grt</u> |            | ██████████     |            |            |
| <u>St</u>  |            |                |            | ██████████ |





Chl + Kfs = Bt      ~400°C

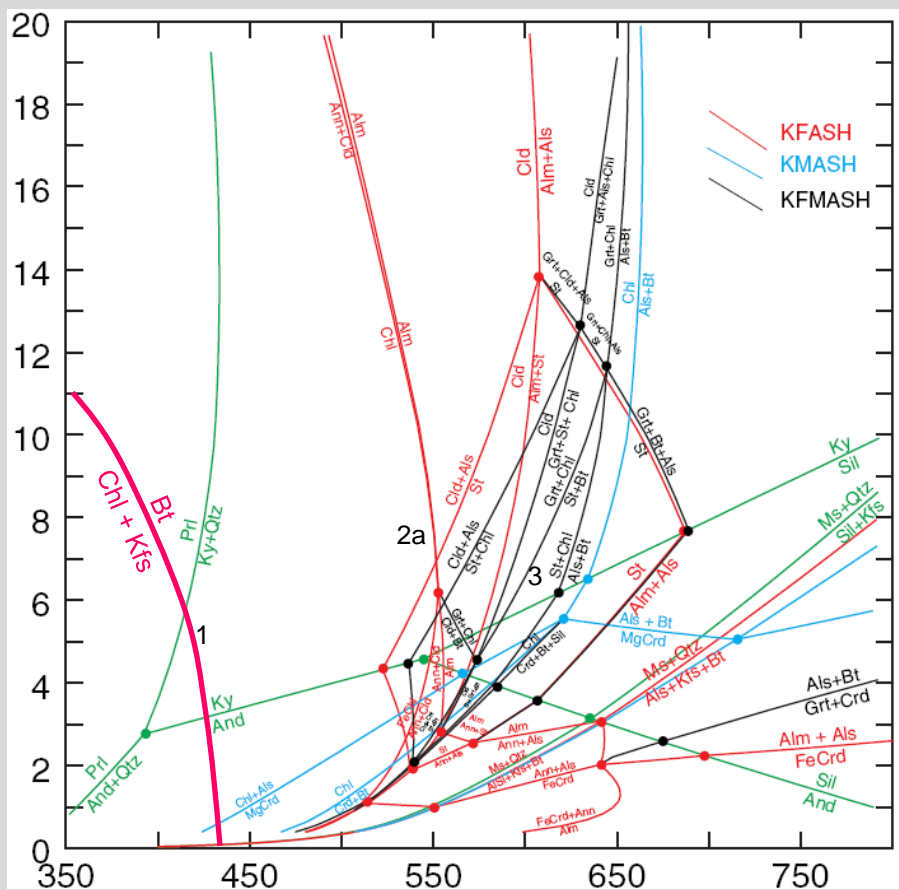
Chl = Bt + Grt      500-550°C

1

2a

|            | $S_{n-1}$  | Pós- $S_{n-1}$ | $S_n$      | Pós- $S_n$ |
|------------|------------|----------------|------------|------------|
| <u>Ms</u>  | ██████████ |                | ██████████ |            |
| <u>Qtz</u> | ██████████ |                | ██████████ |            |
| <u>Chl</u> | ██████████ |                |            | ██████████ |
| <u>Bt</u>  |            | ██████████     |            | ██████████ |
| <u>Grt</u> |            | ██████████     |            |            |
| <u>St</u>  |            |                |            | ██████████ |





Chl + Kfs = Bt ~400°C

Chl = Bt + Grt 500-550°C

Grt + Chl = St + Bt 610-640°C

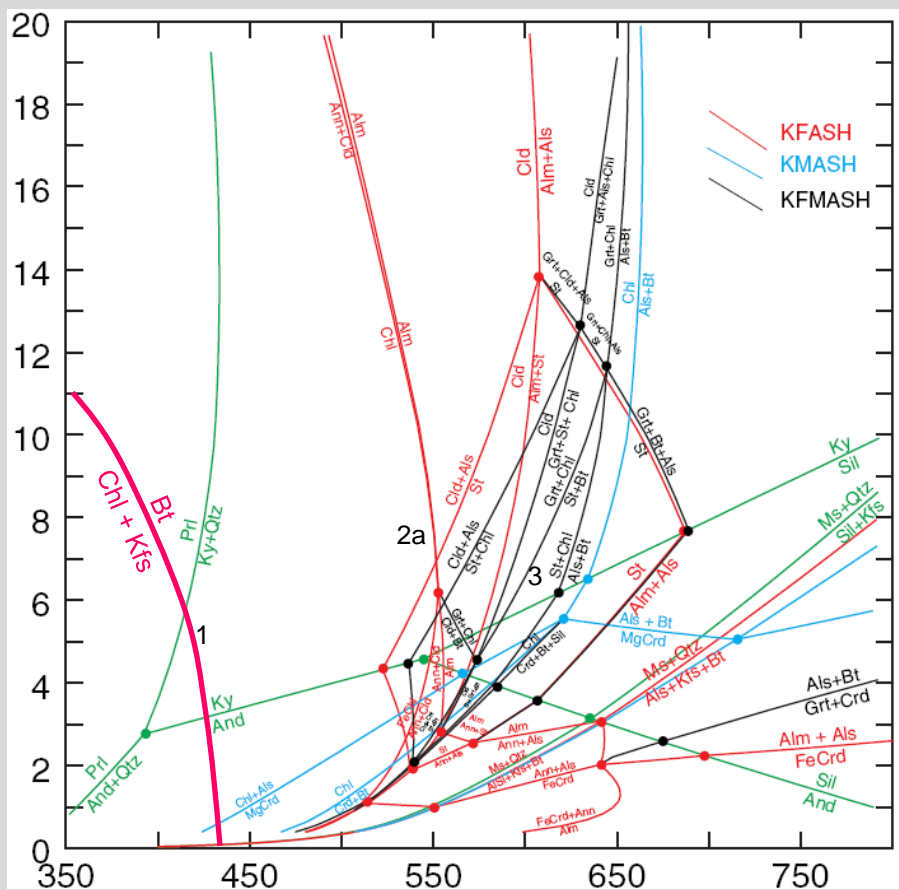
1

2a

3

|            | $S_{n-1}$  | Pós- $S_{n-1}$ | $S_n$      | Pós- $S_n$ |
|------------|------------|----------------|------------|------------|
| <u>Ms</u>  | ██████████ |                | ██████████ |            |
| <u>Qtz</u> | ██████████ |                | ██████████ |            |
| <u>Chl</u> | ██████████ |                |            | ██████████ |
| <u>Bt</u>  |            | ██████████     |            | ██████████ |
| <u>Grt</u> |            | ██████████     |            |            |
| <u>St</u>  |            |                |            | ██████████ |





Chl + Kfs = Bt ~400°C

Chl = Bt + Grt 500-550°C

Grt + Chl = St + Bt 610-640°C

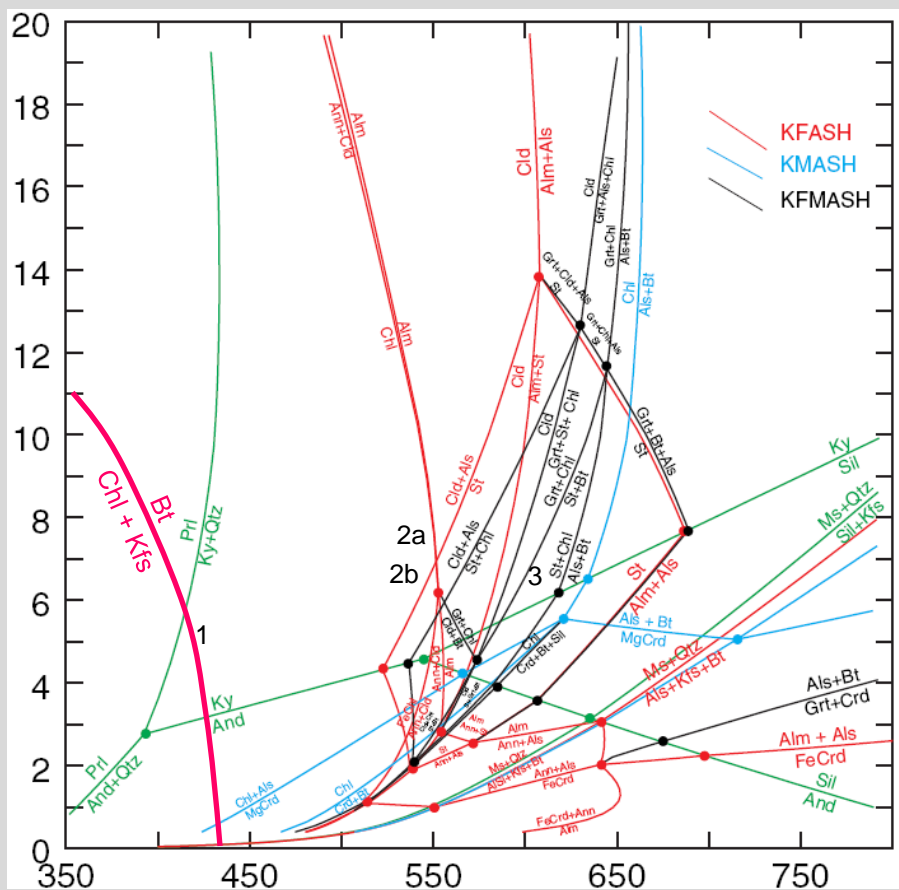
1

2a

3

|            | $S_{n-1}$  | Pós- $S_{n-1}$ | $S_n$      | Pós- $S_n$ |
|------------|------------|----------------|------------|------------|
| <u>Ms</u>  | ██████████ |                | ██████████ |            |
| <u>Qtz</u> | ██████████ |                | ██████████ |            |
| <u>Chl</u> | ██████████ |                |            | ██████████ |
| <u>Bt</u>  |            | ██████████     |            | ██████████ |
| <u>Grt</u> |            | ██████████     |            |            |
| <u>St</u>  |            |                |            | ██████████ |





Chl + Kfs = Bt    ~400°C

Chl = Bt + Grt    500-550°C

Grt + Chl = St + Bt    610-640°C

Bt + Grt = Chl    500-550°C (??)

1

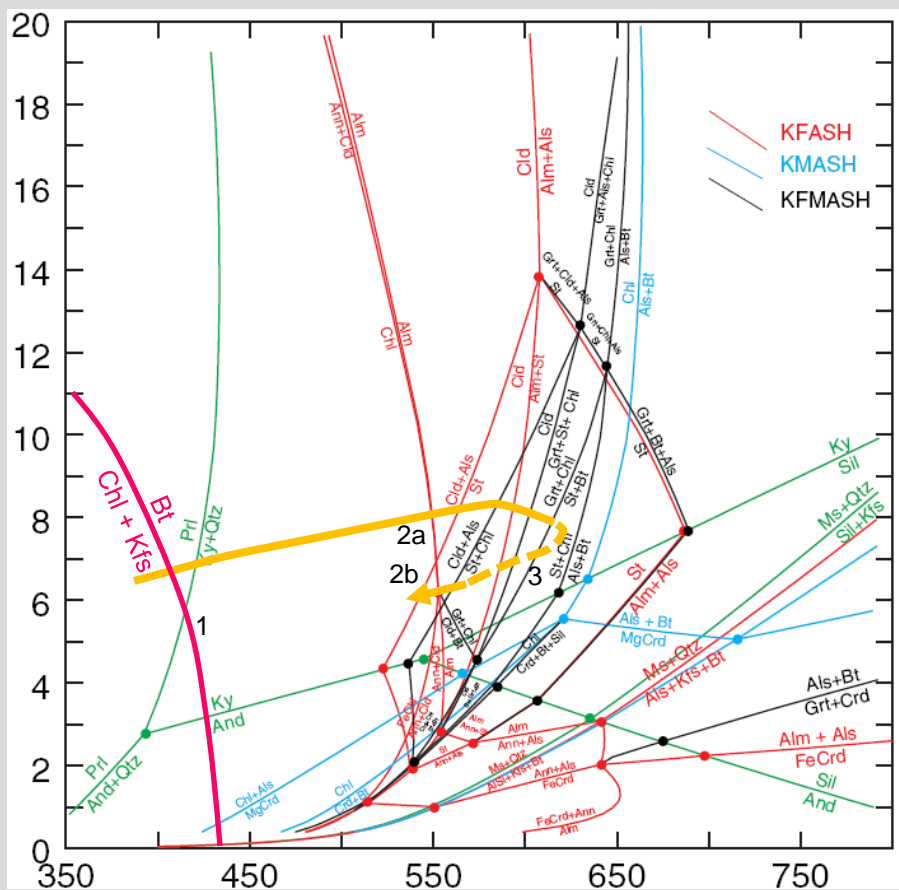
2a

3

2b

|            | $S_{n-1}$  | Pós- $S_{n-1}$ | $S_n$      | Pós- $S_n$ |
|------------|------------|----------------|------------|------------|
| <u>Ms</u>  | ██████████ |                | ██████████ |            |
| <u>Qtz</u> | ██████████ |                | ██████████ |            |
| <u>Chl</u> | ██████████ |                |            | ██████████ |
| <u>Bt</u>  |            | ██████████     |            | ██████████ |
| <u>Grt</u> |            | ██████████     |            |            |
| <u>St</u>  |            |                |            | ██████████ |





Chl + Kfs = Bt    ~400°C

Chl = Bt + Grt    500-550°C

Grt + Chl = St + Bt    610-640°C

Bt + Grt = Chl    500-550°C

1

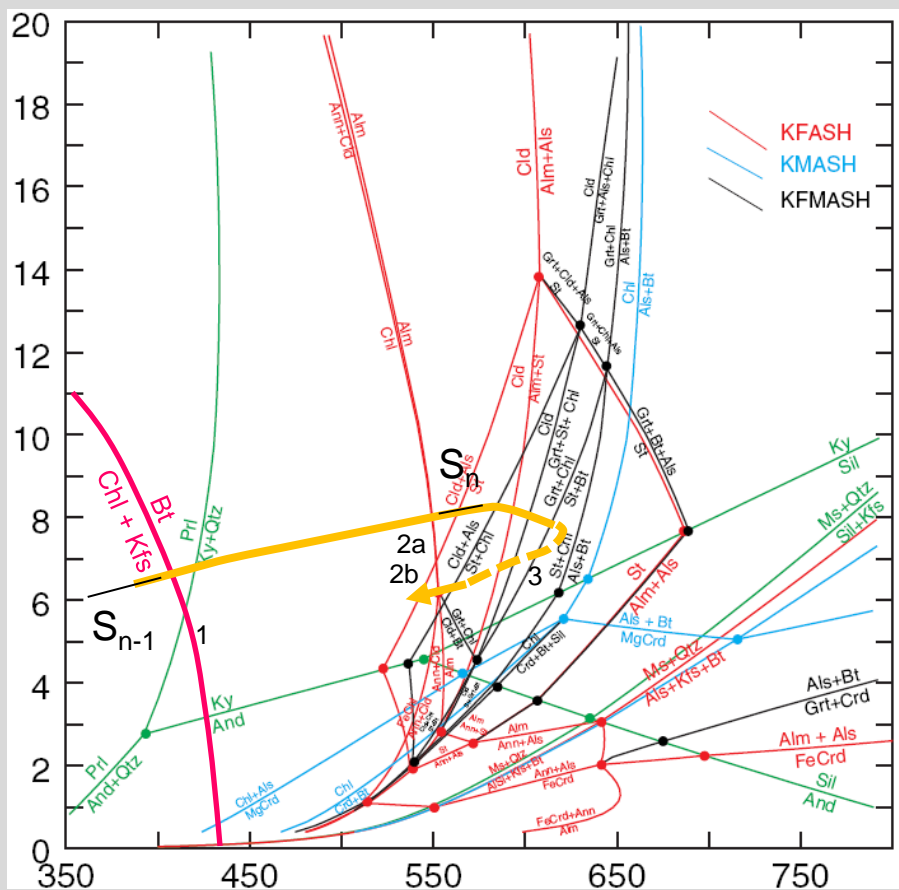
2a

3

2b

|            | $S_{n-1}$  | Pós- $S_{n-1}$ | $S_n$      | Pós- $S_n$ |
|------------|------------|----------------|------------|------------|
| <u>Ms</u>  | ██████████ |                | ██████████ |            |
| <u>Qtz</u> | ██████████ |                | ██████████ |            |
| <u>Chl</u> | ██████████ |                |            | ██████████ |
| <u>Bt</u>  |            | ██████████     |            | ██████████ |
| <u>Grt</u> |            | ██████████     |            |            |
| <u>St</u>  |            |                |            | ██████████ |





Chl + Kfs = Bt    ~400°C

Chl = Bt + Grt    500-550°C

Grt + Chl = St + Bt    610-640°C

Bt + Grt = Chl    500-550°C

1

2a

3

2b

|            | $S_{n-1}$  | Pós- $S_{n-1}$ | $S_n$      | Pós- $S_n$ |
|------------|------------|----------------|------------|------------|
| <u>Ms</u>  | ██████████ |                | ██████████ |            |
| <u>Qtz</u> | ██████████ |                | ██████████ |            |
| <u>Chl</u> | ██████████ |                |            | ██████████ |
| <u>Bt</u>  |            | ██████████     |            | ██████████ |
| <u>Grt</u> |            | ██████████     |            |            |
| <u>St</u>  |            |                |            | ██████████ |