

Sistema deposicional eólico

GSA0252-Sedimentologia

André Oliveira Sawakuchi



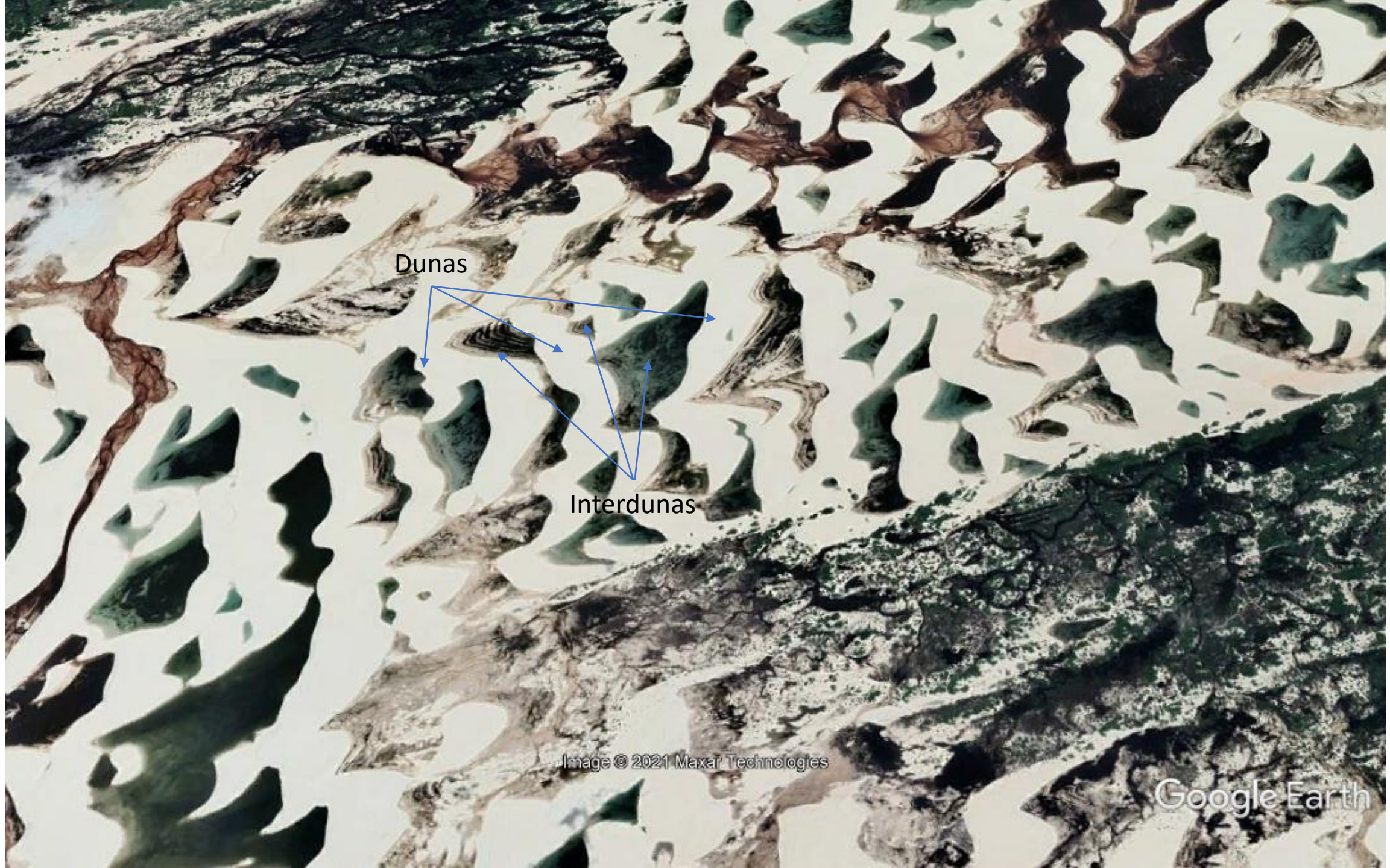
Área fonte

Vento predominante

Lençol de areia

Campo de dunas

Zona de deflação



Dunas

Interdunas

Image © 2021 Maxar Technologies

Google Earth



Área de deflação (erosão)



Ventifacto



Campo de dunas

Lençol de areia

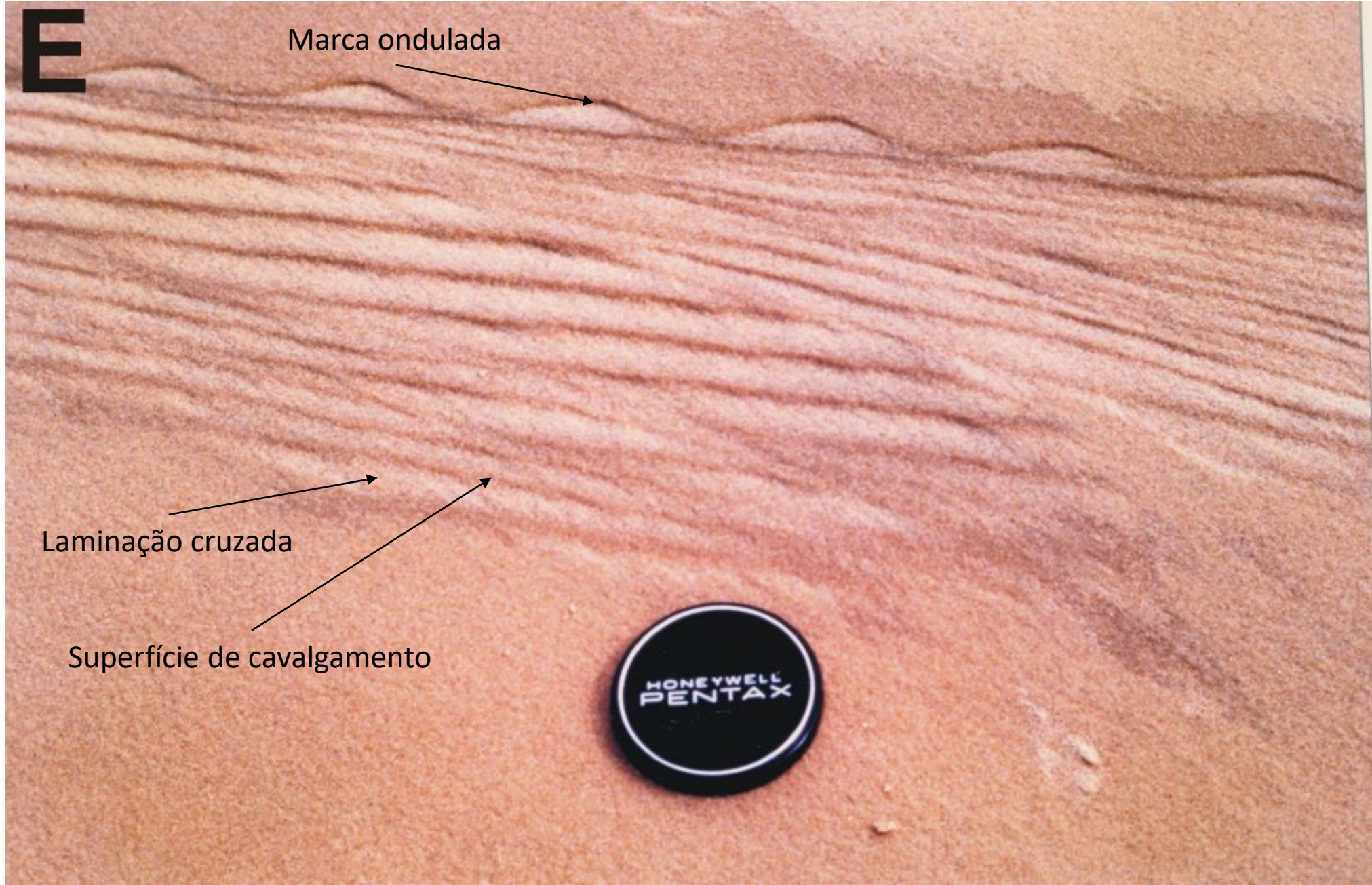
Marcas onduladas



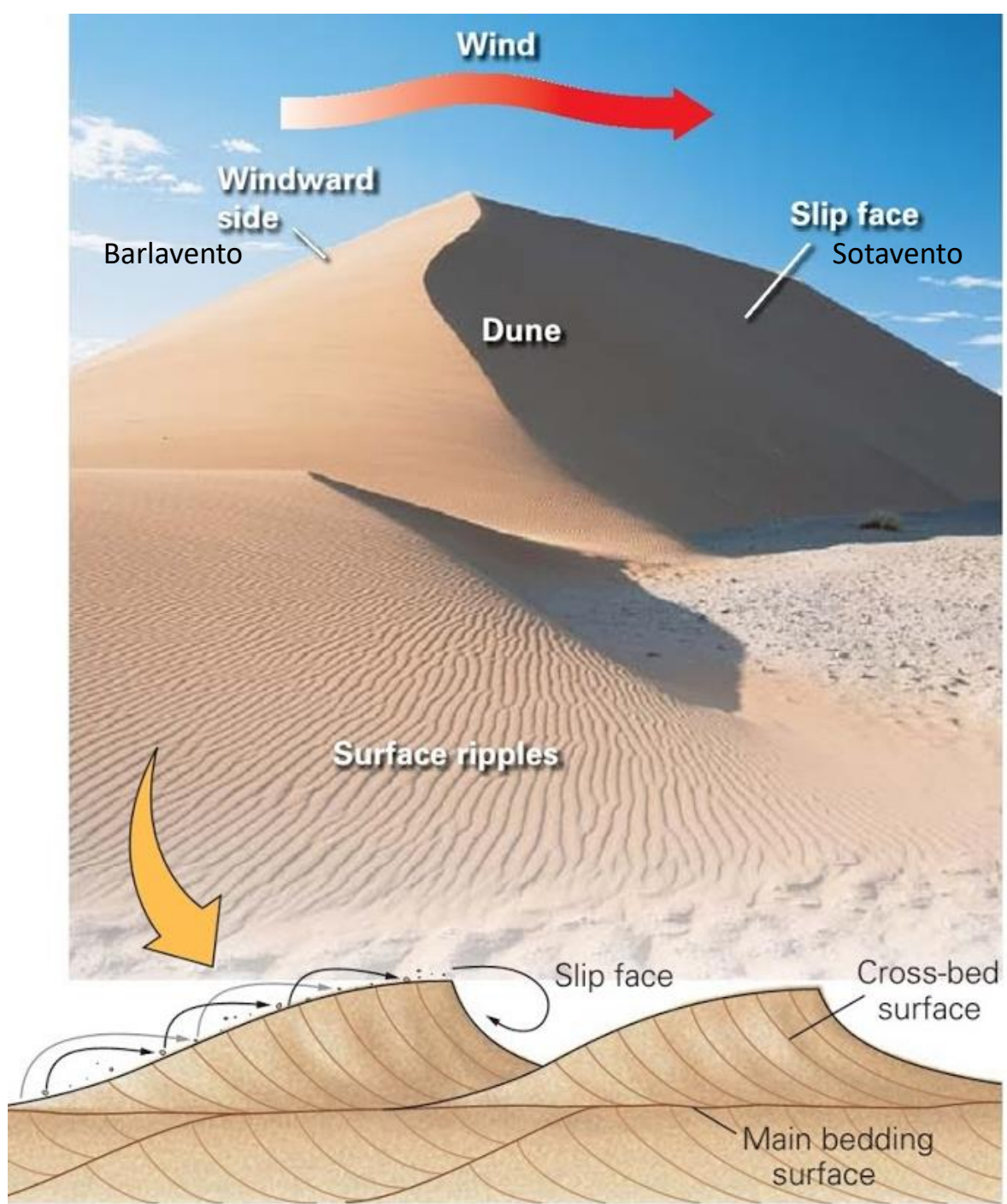
B

comprimento/altura ~ 20

Laminação cruzada



Duna



Grãos em saltação



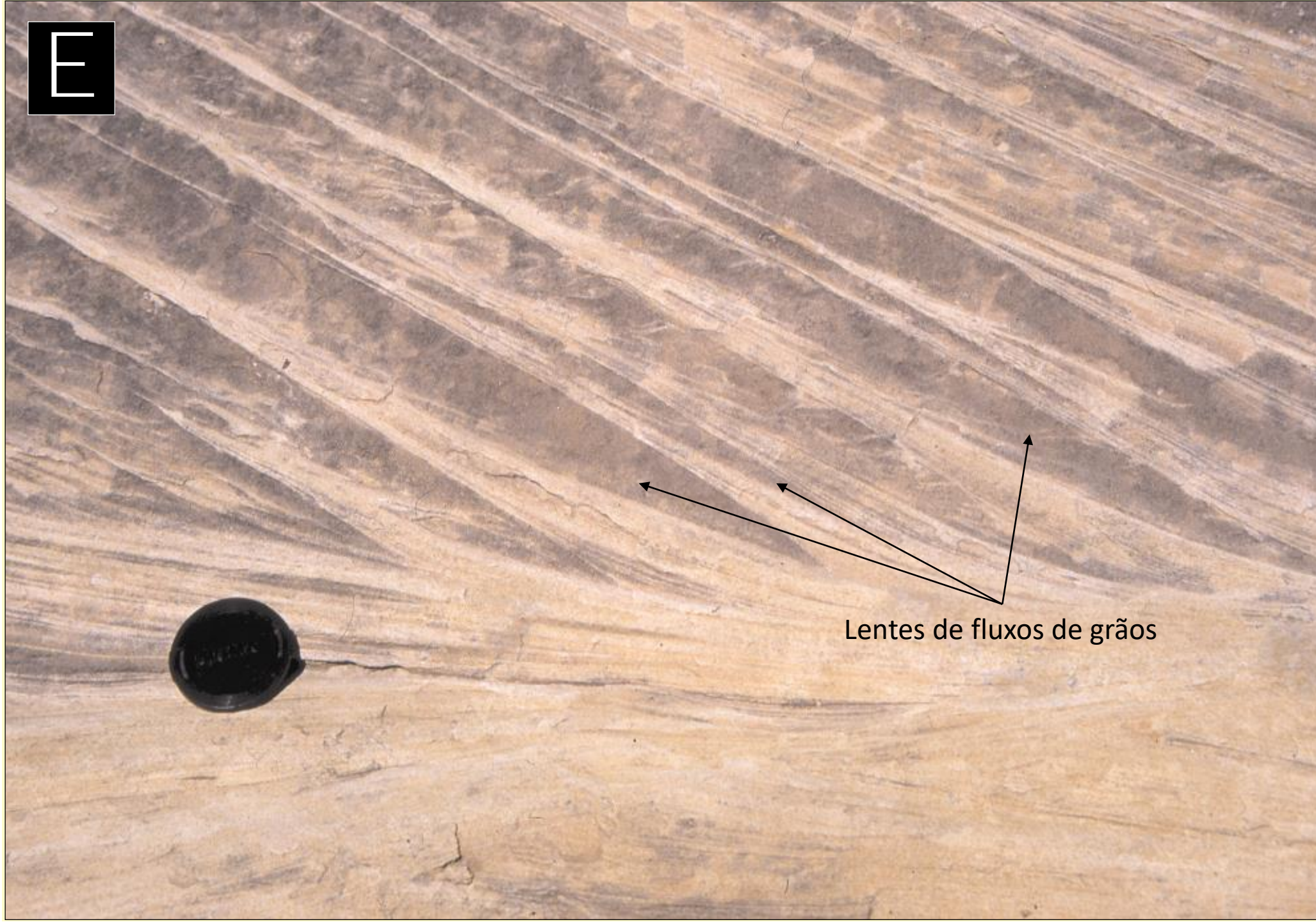
A



C



E



Lentes de fluxos de grãos

B



Lâminas de queda de grãos

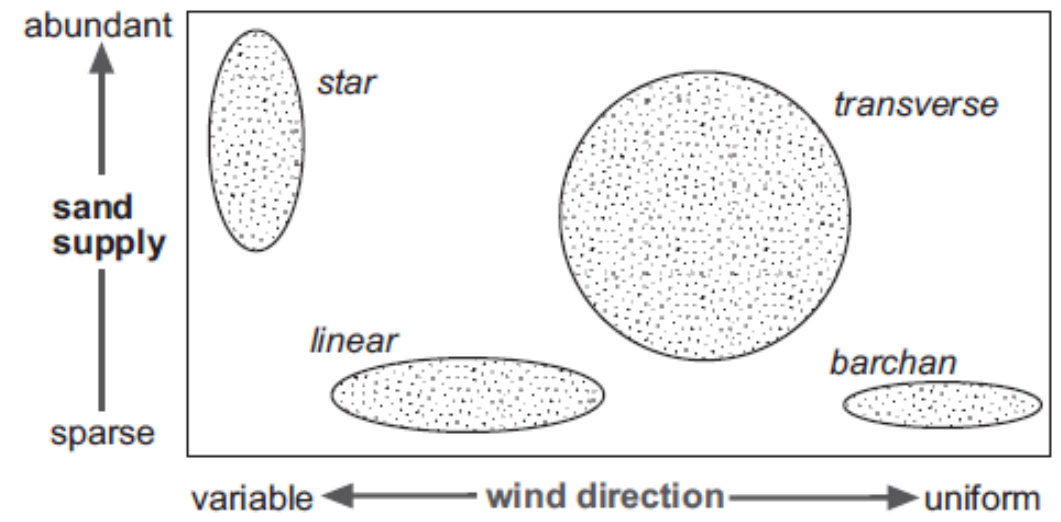
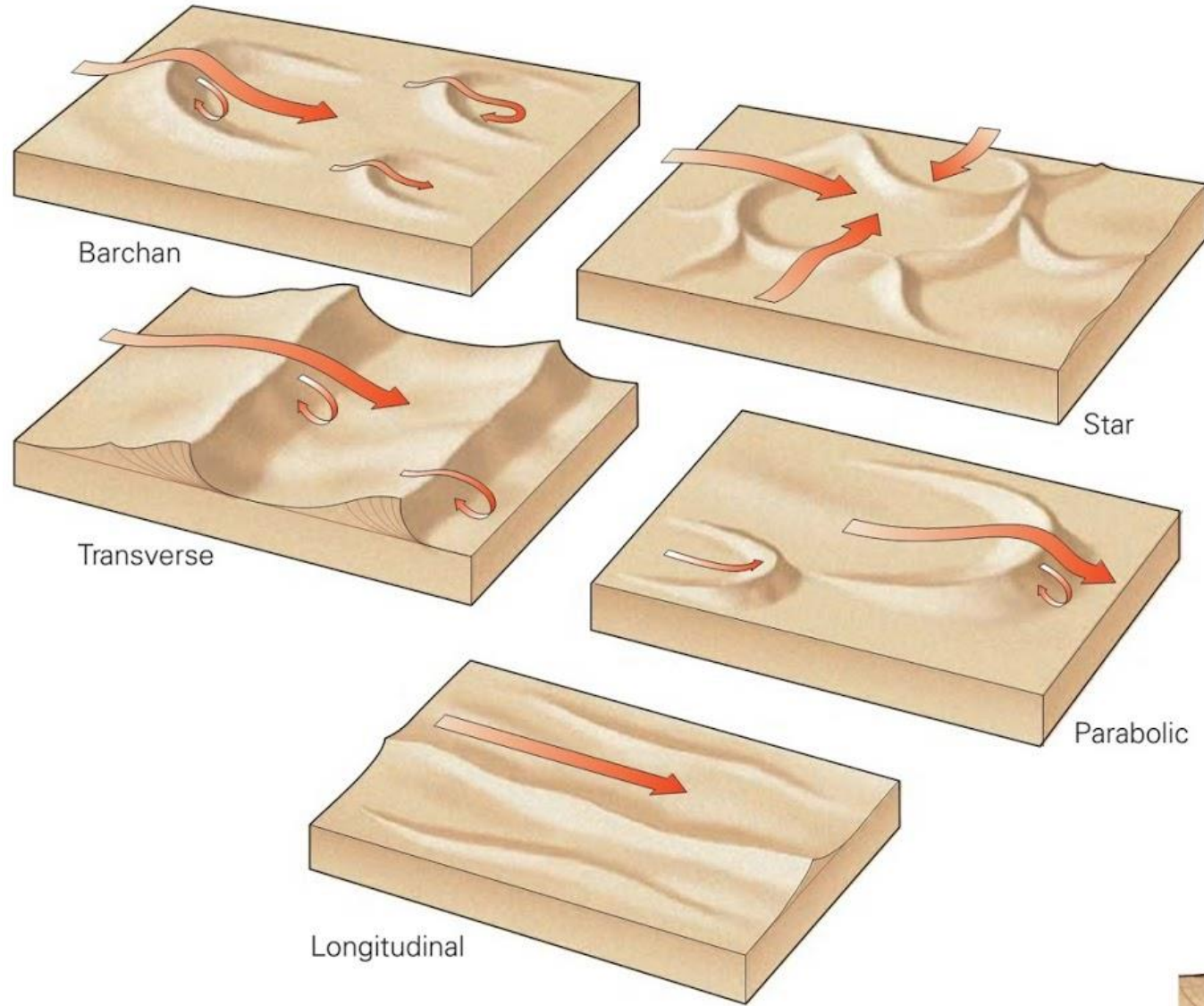
Duna



Fácies de duna



Tipos de dunas livres



Duna barcanoide



Duna transversal



Image © 2006 DigitalGlobe

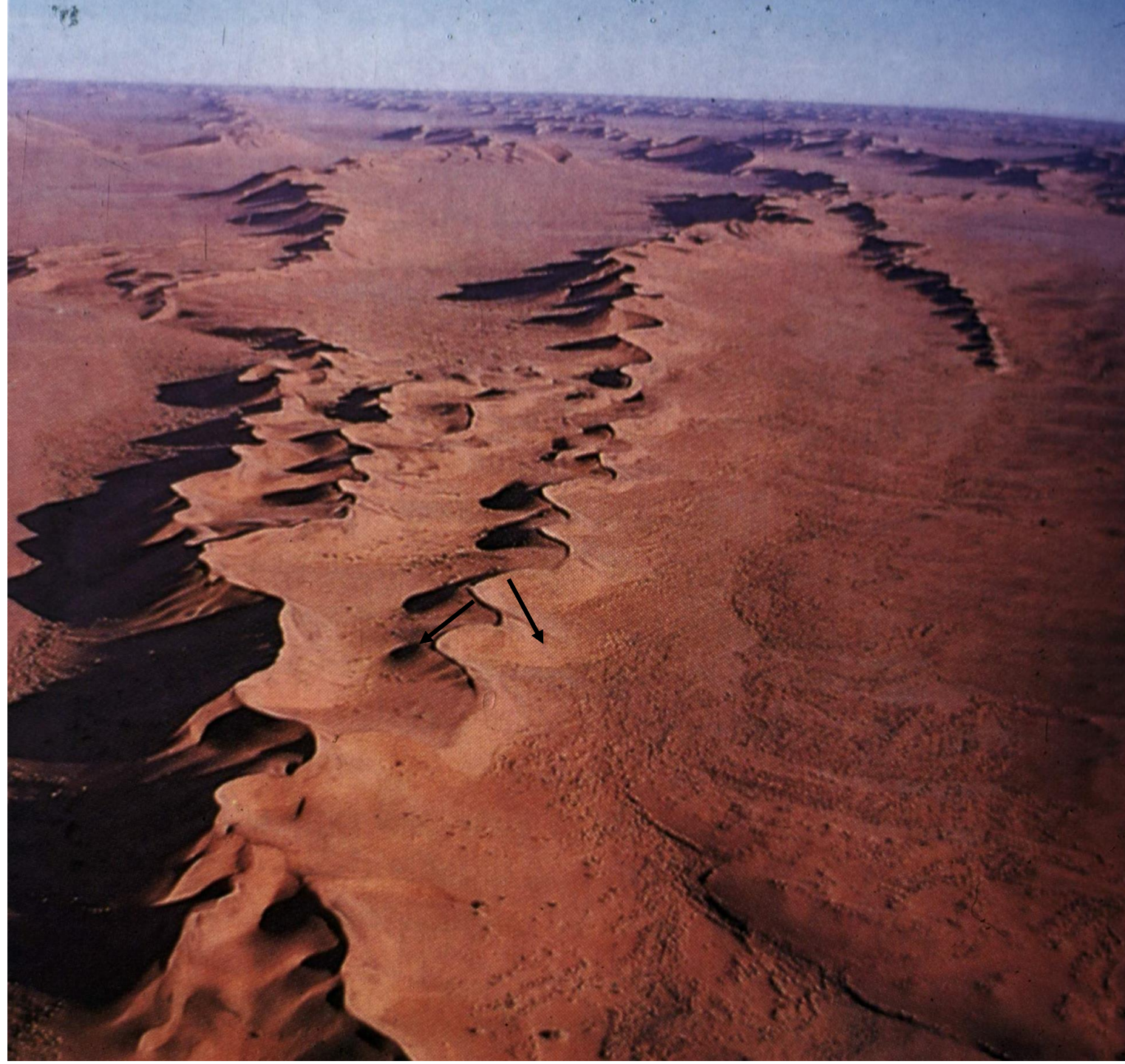
© 2006 Google

118 m
Pointer 39°00'16.12" N 83°25'47.41" E elev 1097 m

Streaming ||||| 100%

Eye alt 1.51 km

Duna longitudinal (*seif*)

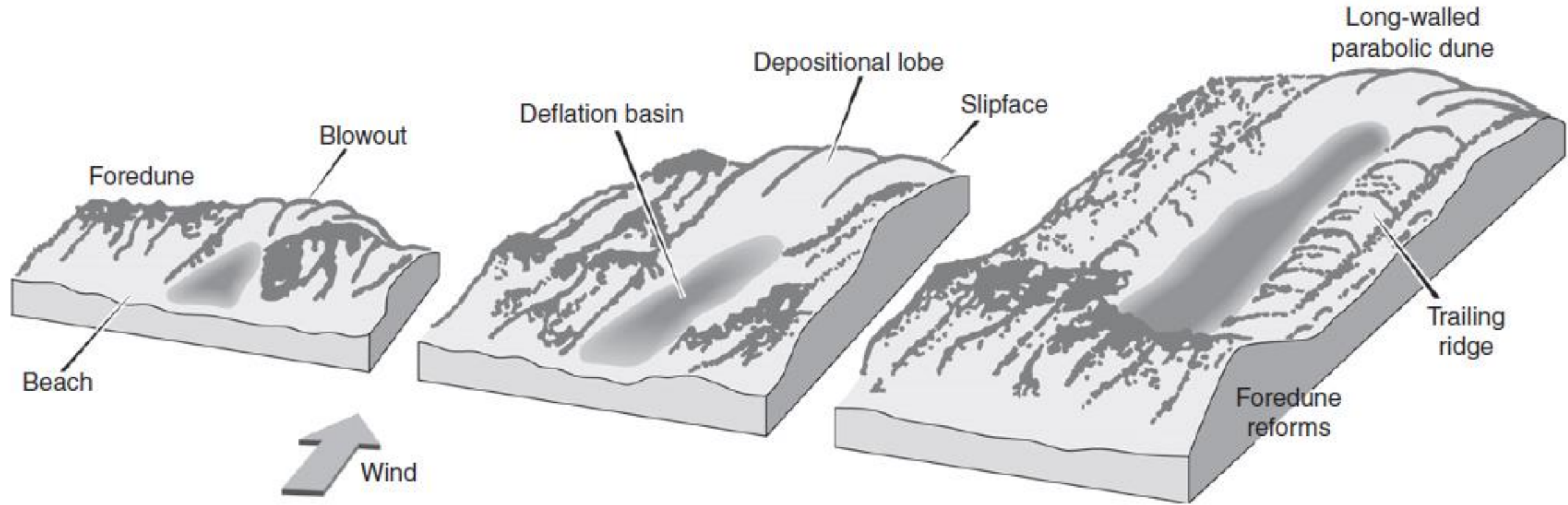


Duna estrela



Compound Star Dunes of Algeria
USGS Geomorphology from Space

Dunas vegetadas



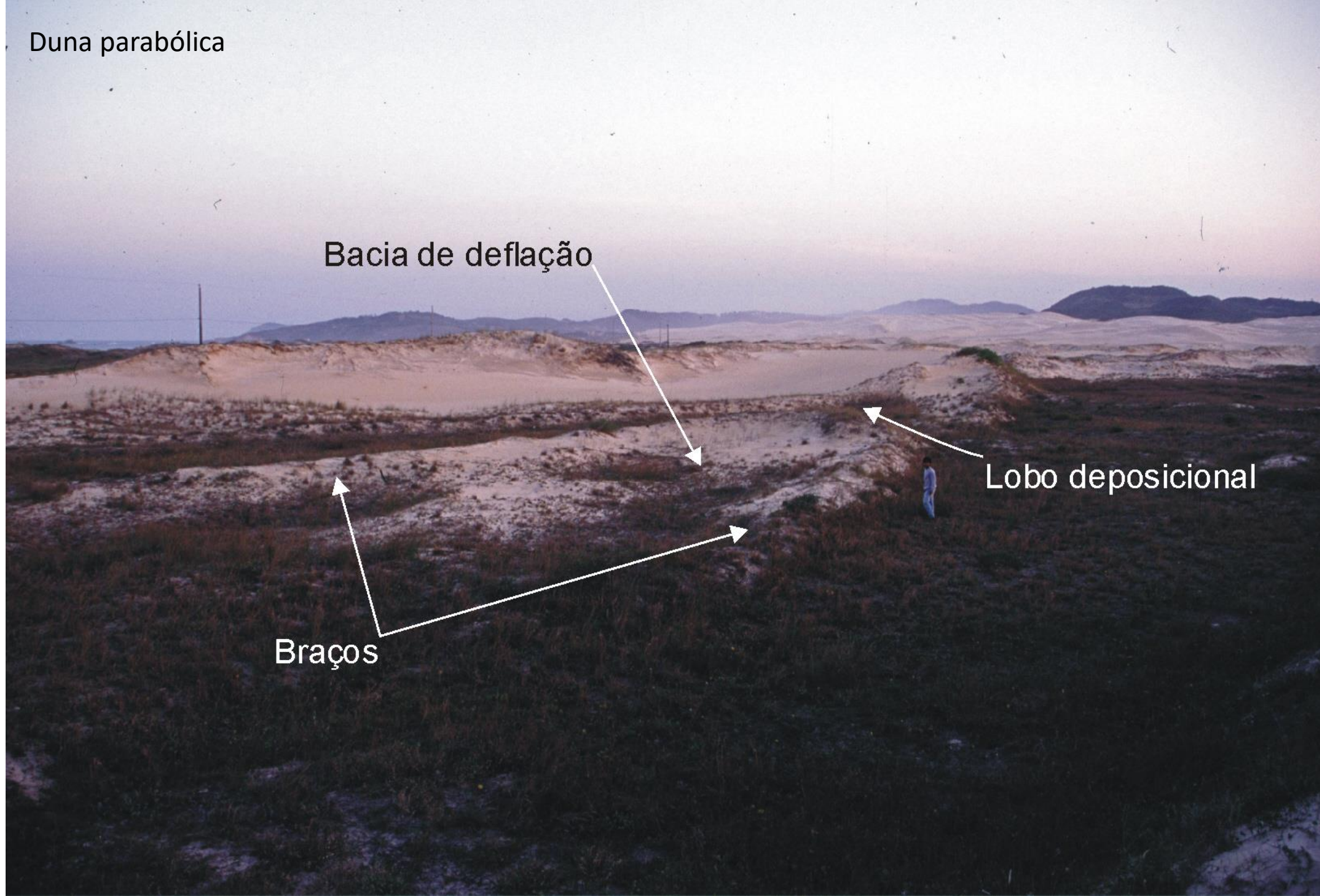
Duna frontal



Cava de deflação (*blowout*)



Duna parabólica



Bacia de deflação

Lobo deposicional

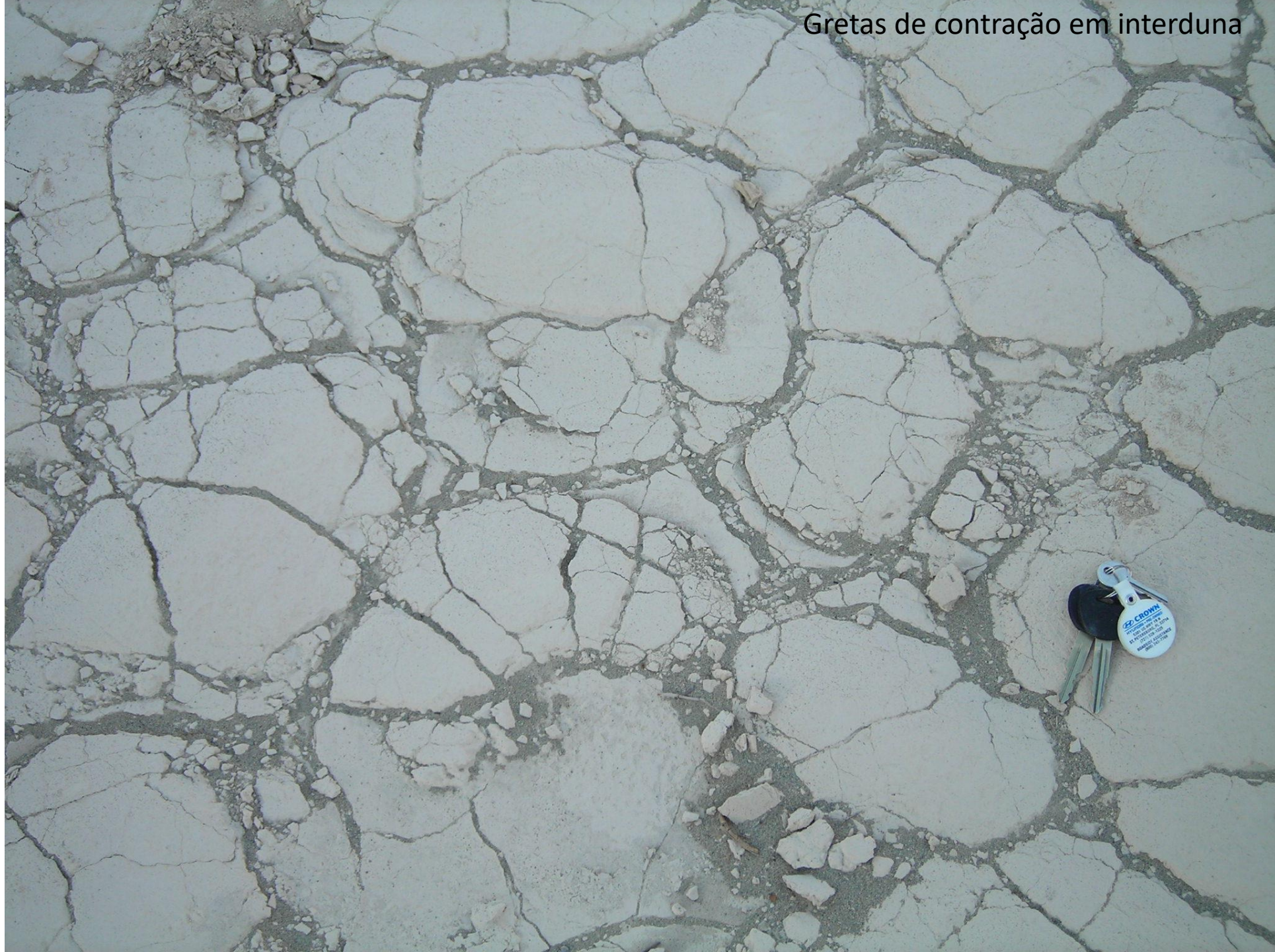
Braços



Duna

Interduna

Gretas de contração em interduna



Fácies de interduna



Draas

Dunas

Image © 2020 Maxar Technologies

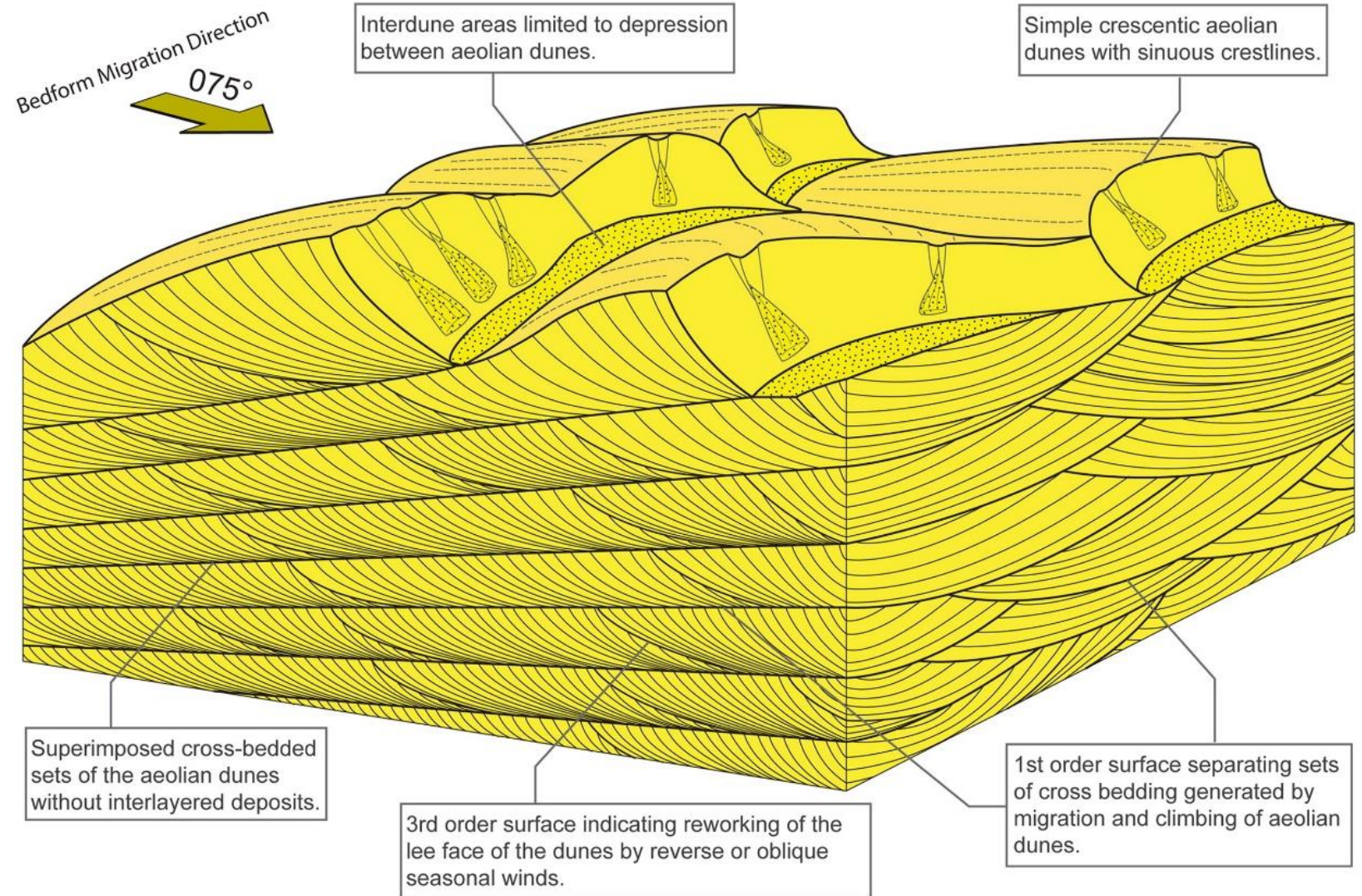
Google Earth

692 m

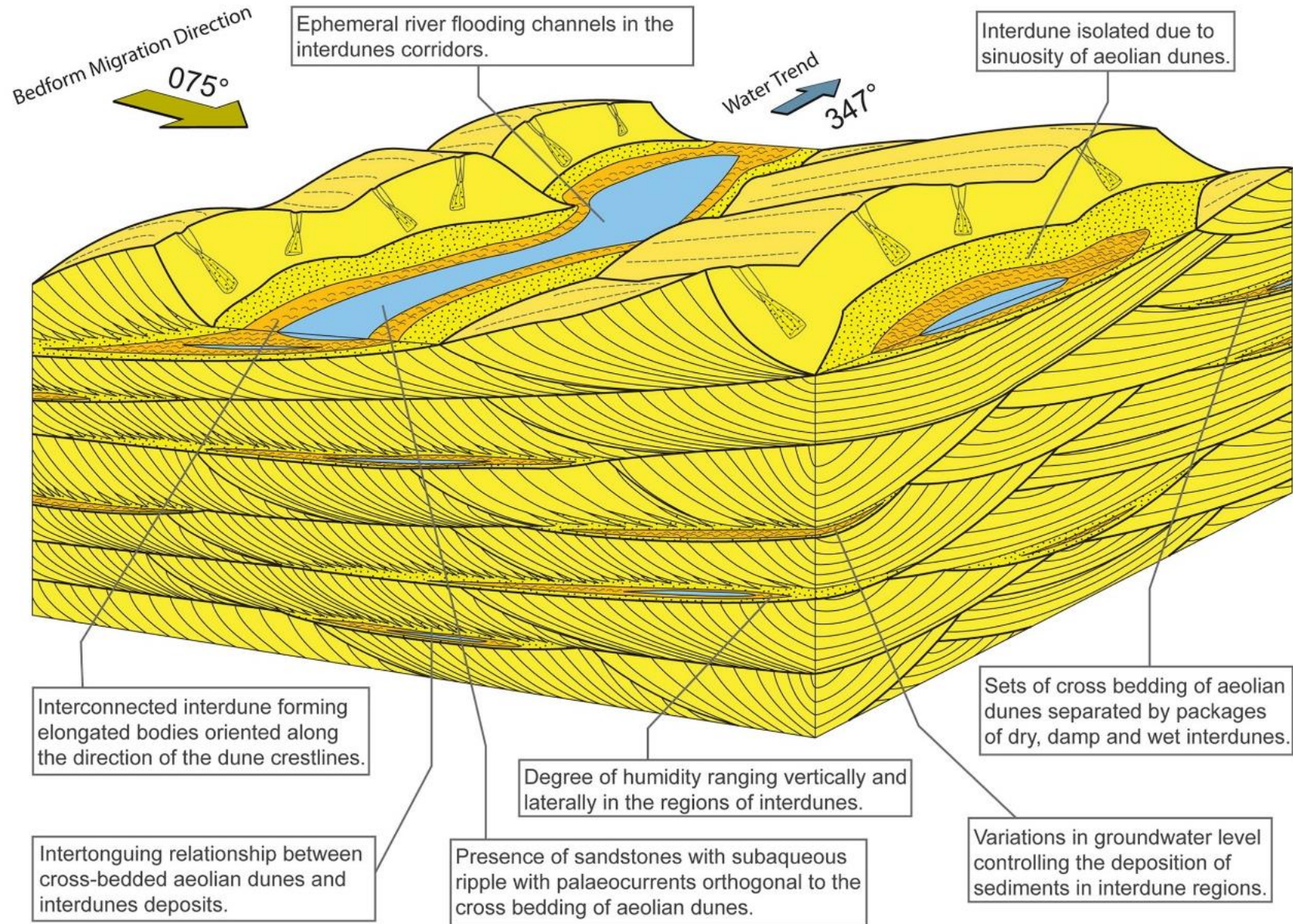


Modelo de fácies

Depositional Model of Dry Aeolian System (Intervals I and III)



Depositional Model of Wet Aeolian System (Intervals II and IV)

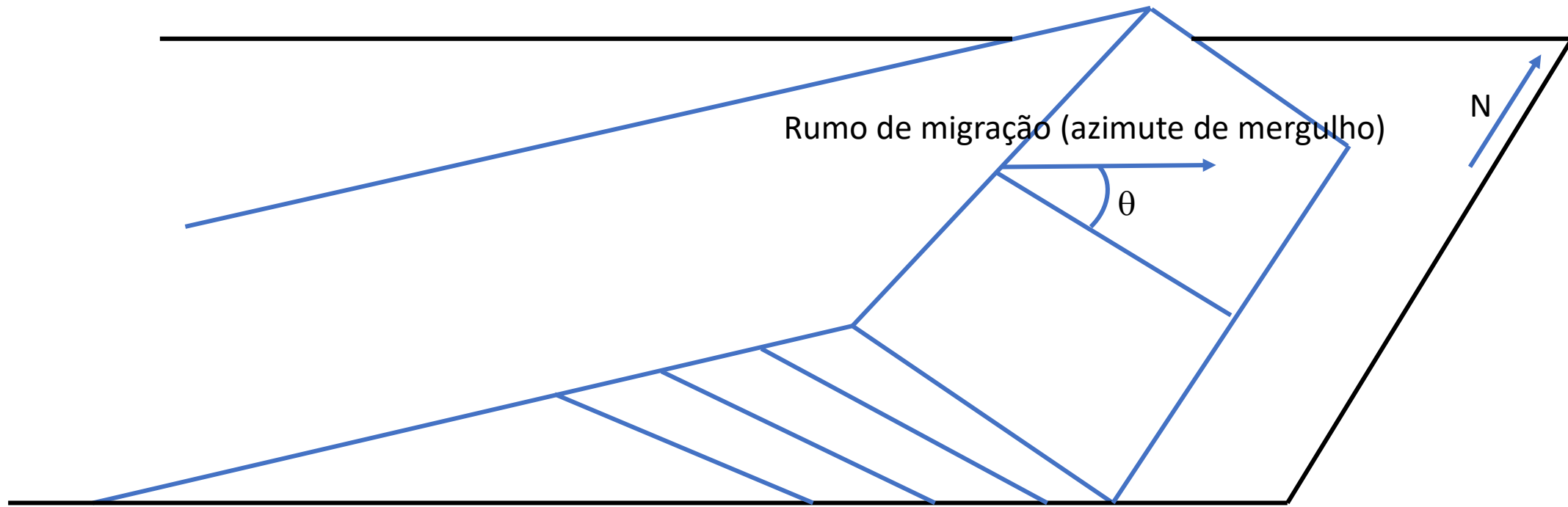


- Zona de deflação
- Marcas onduladas
- Lençol de areia
- Tipos de dunas
- Interduna
- Modelo de fácies (duna-interduna)

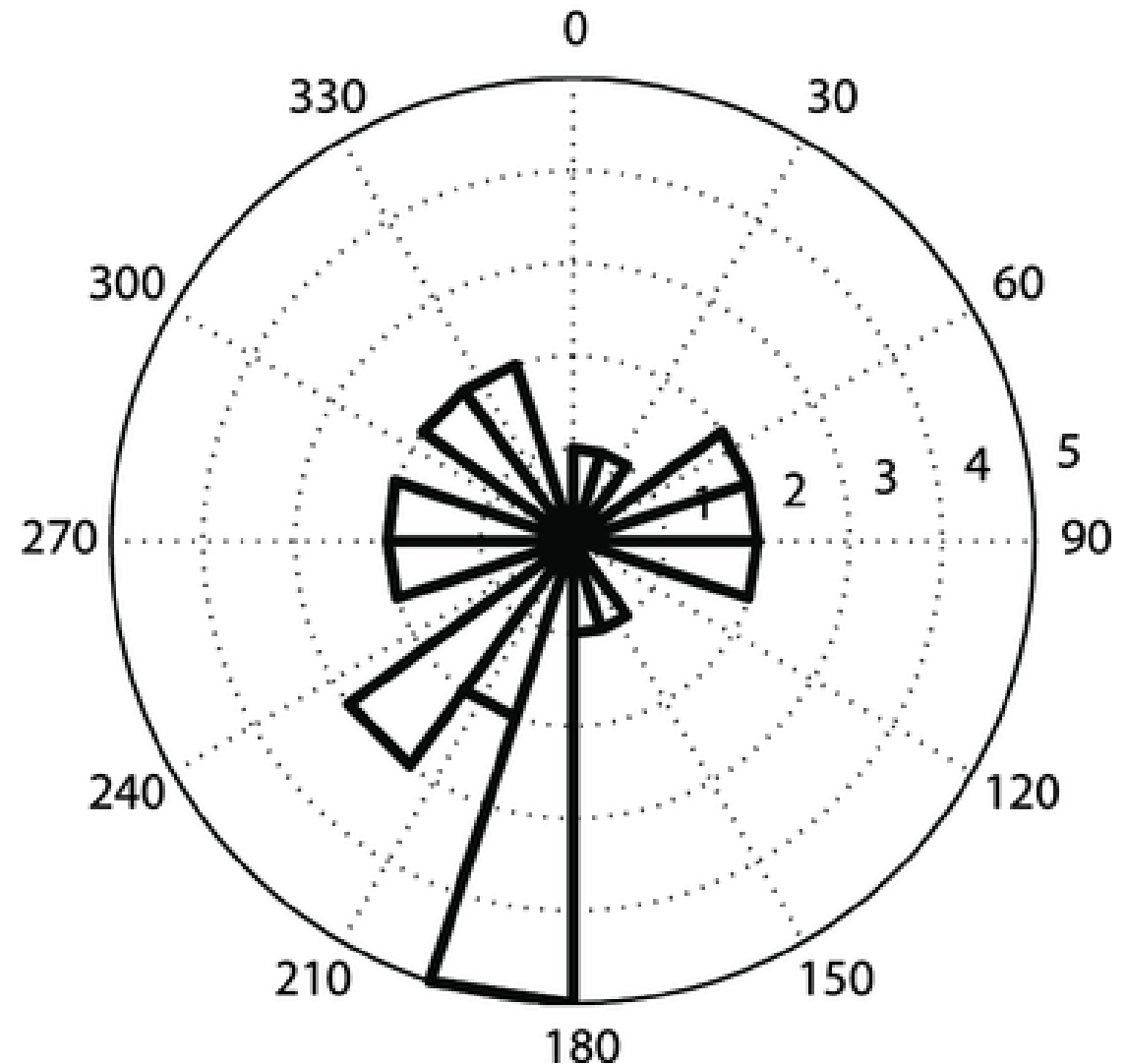
Paleocorrente (paleovento)



Paleocorrente (paleovento)



Histograma circular (roseta ou rosácea)



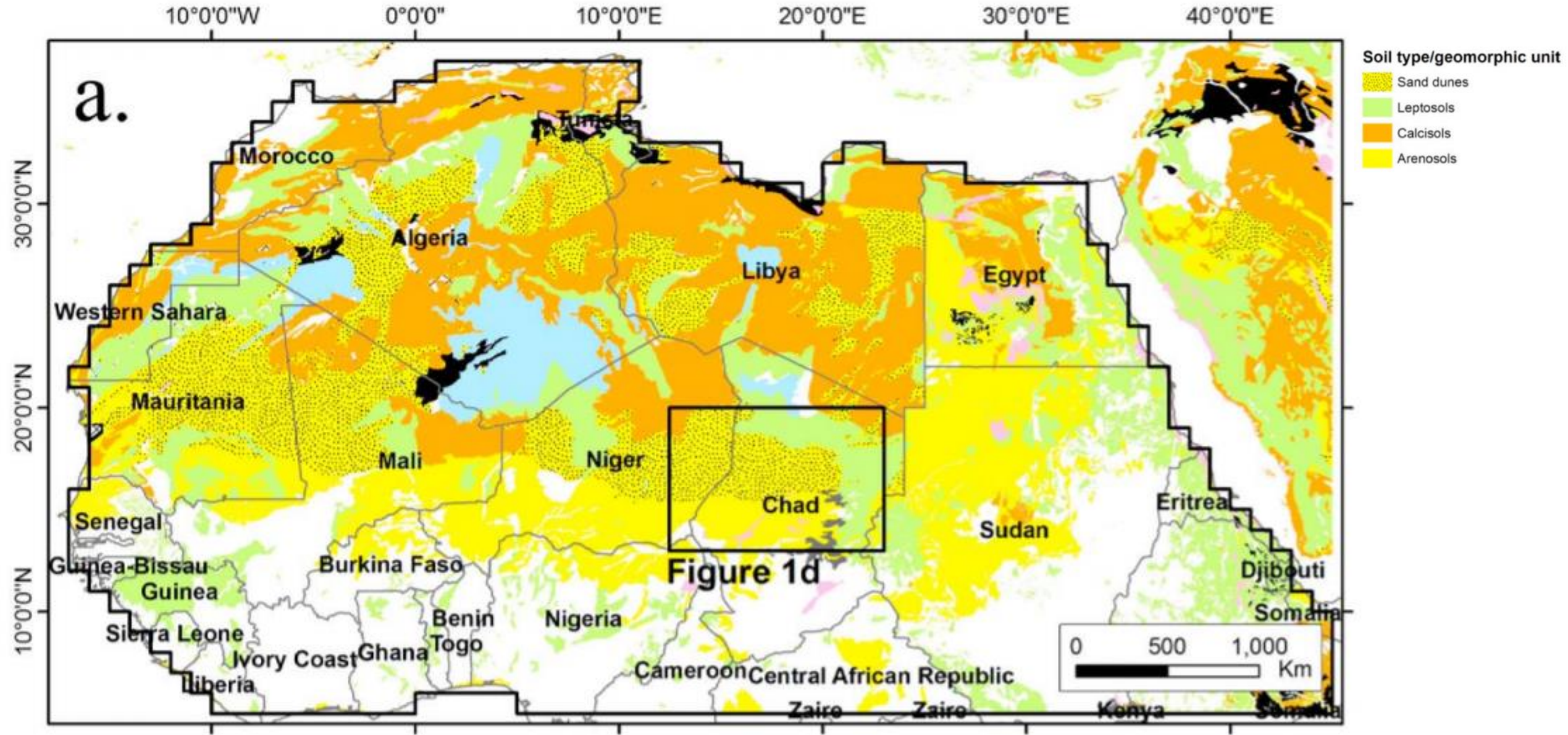
Oriana – Estatística circular

<https://www.kovcomp.co.uk/oriana/oribroc.html>

Openstereo (Software do Guano, Arthur e Ginaldo)

http://carlosgrohmann.com/pages/openstereo_chg/

Sistema deposicional eólico em clima árido



Pluma de poeira do Sahara

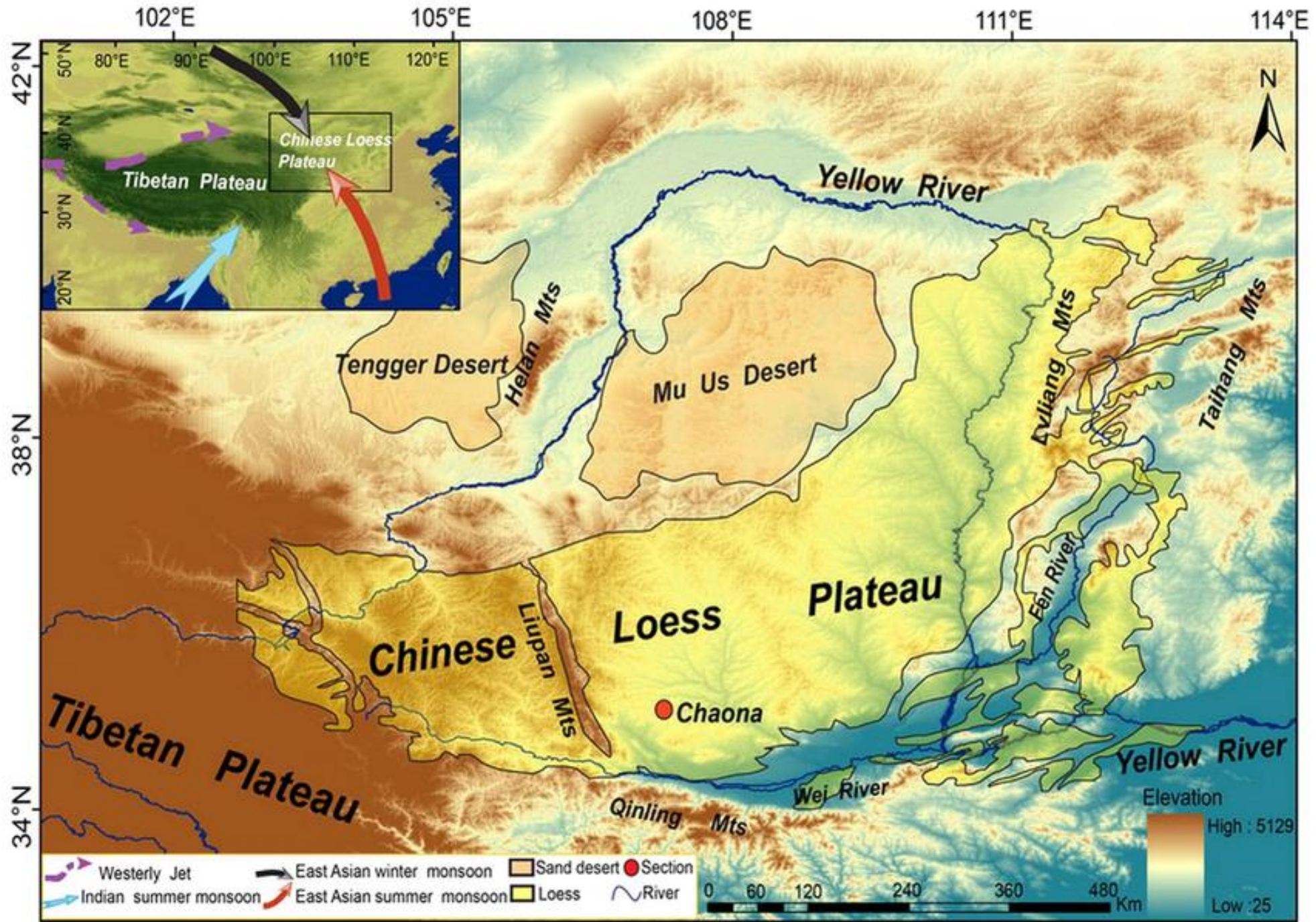


18/06/2020 (NASA Worldview)

Loess



Loess



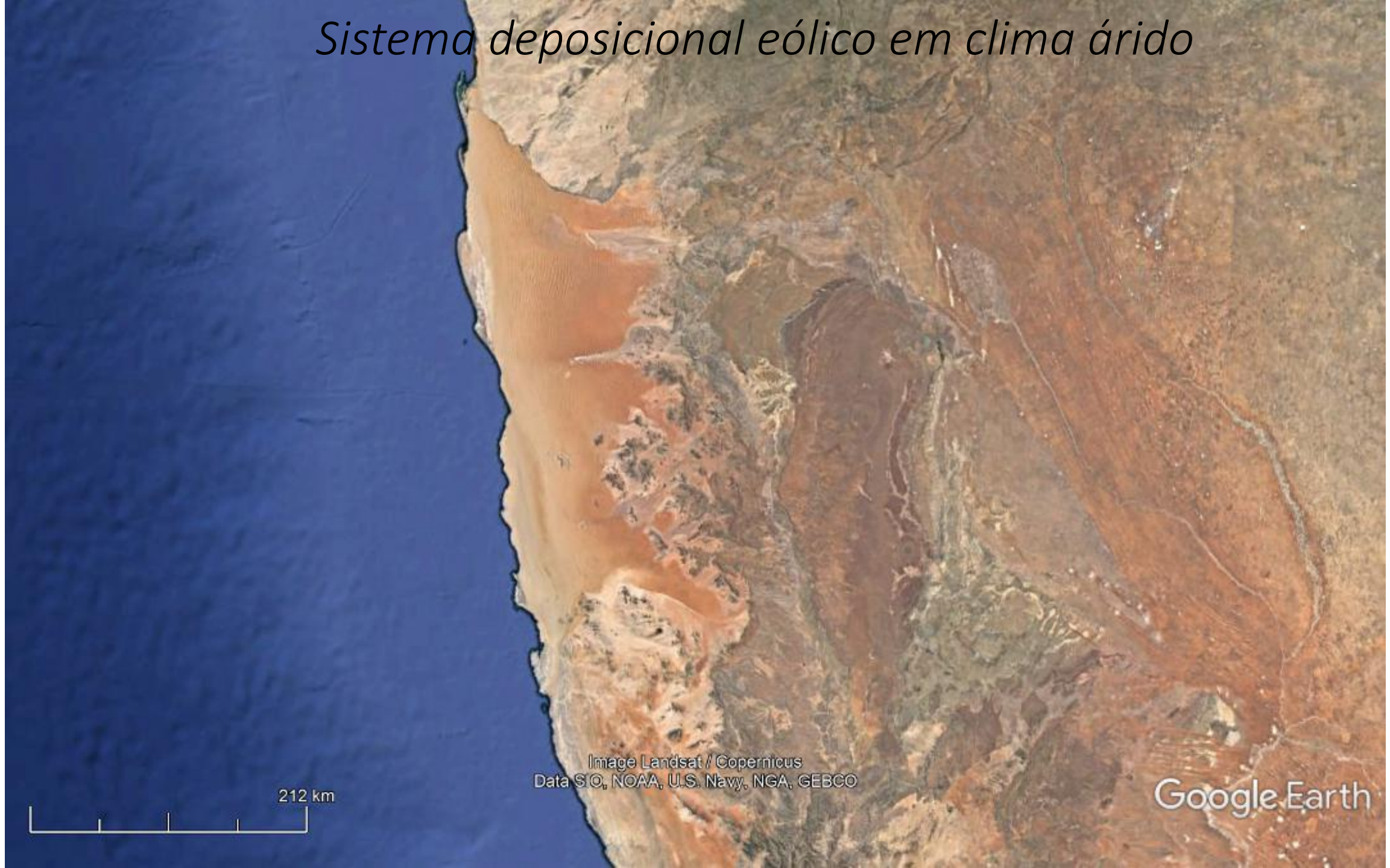
Sistema deposicional eólico em clima árido

212 km

A white scale bar with four segments, indicating a total length of 212 km.

Image Landsat / Copernicus
Data SIO, NOAA, U.S. Navy, NGA, GEBCO

Google Earth



Sistema deposicional eólico em clima úmido

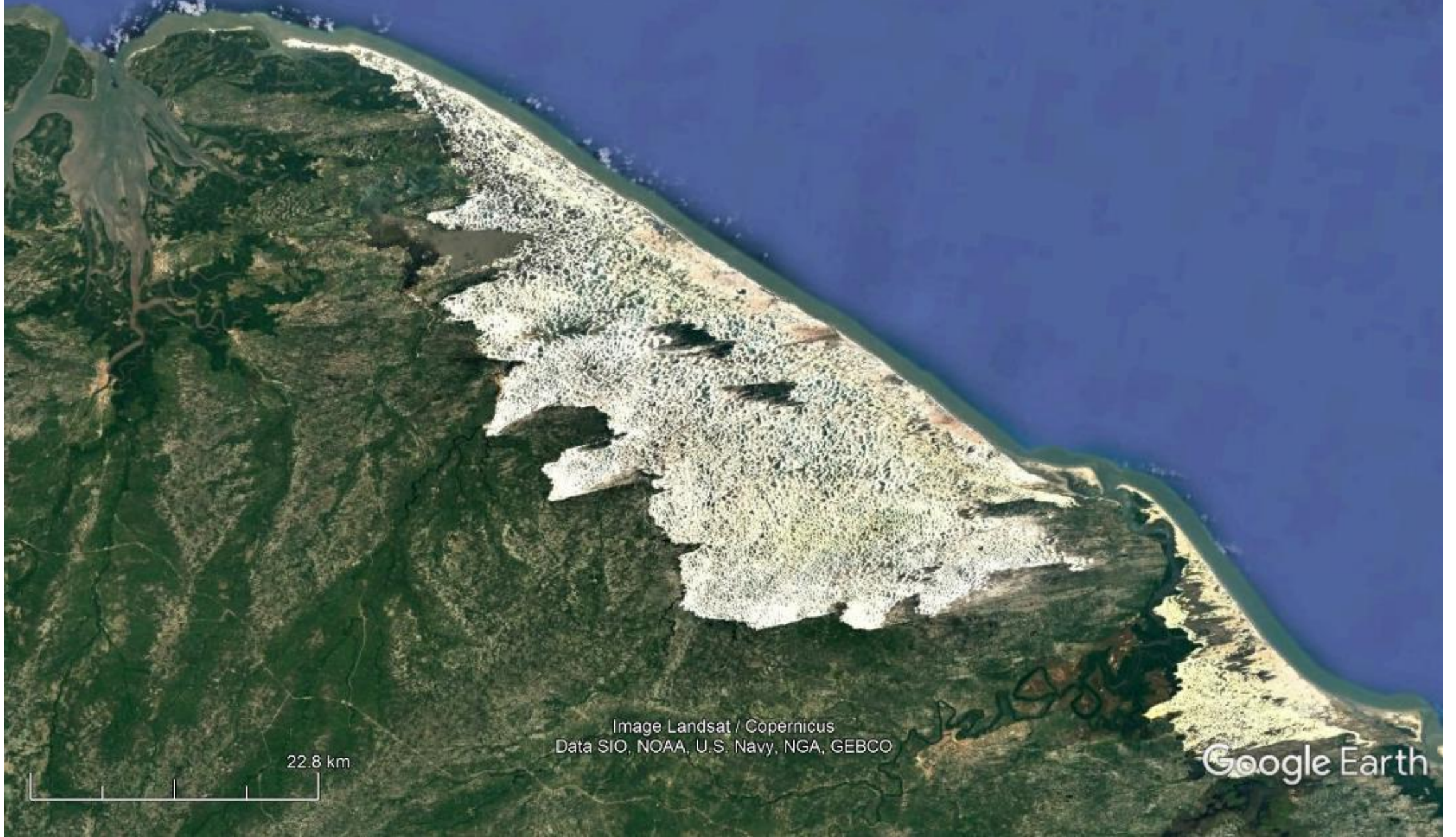
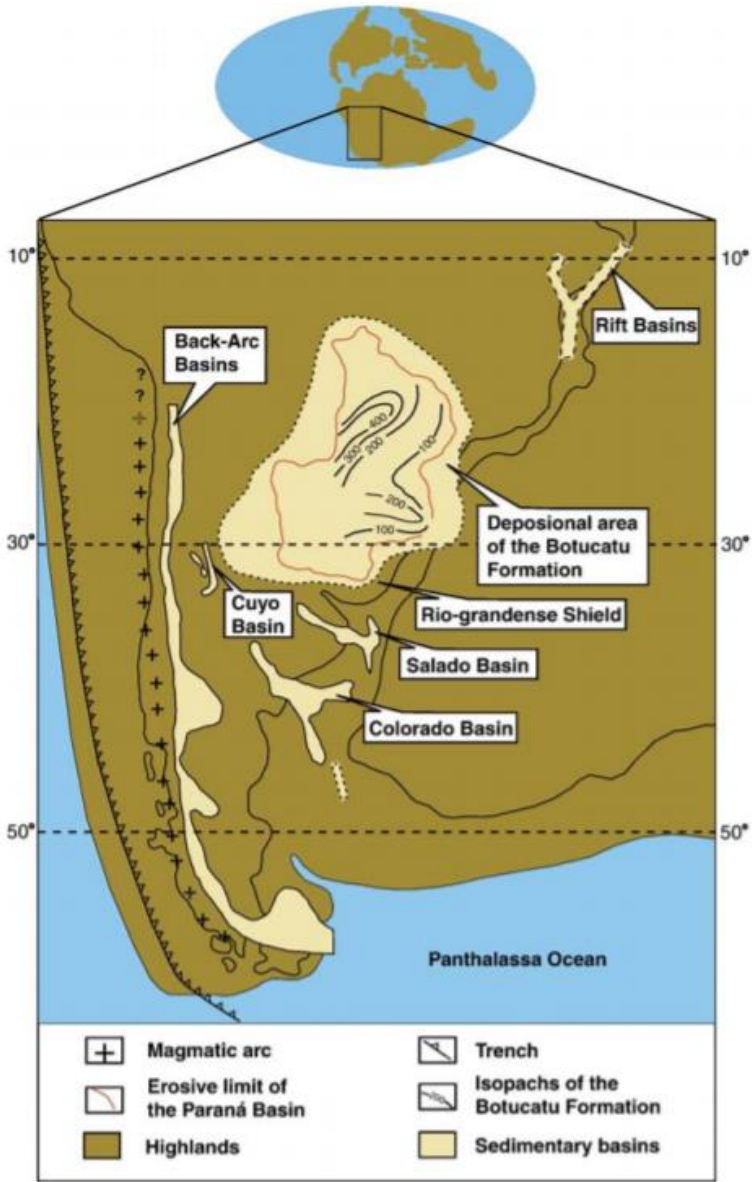


Image Landsat / Copernicus
Data SIO, NOAA, U.S. Navy, NGA, GEBCO

22.8 km

Google Earth

Fm. Botucatu (Eocretáceo, Bacia do Paraná)



Scherer & Goldemberg (2007)



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