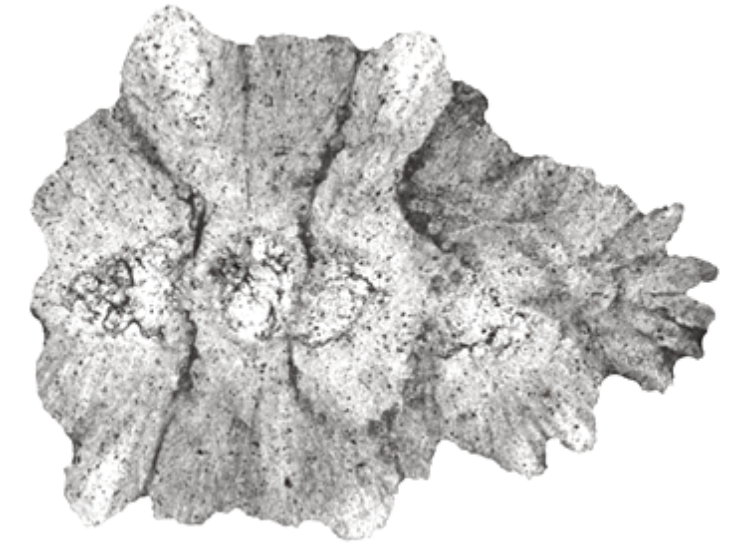
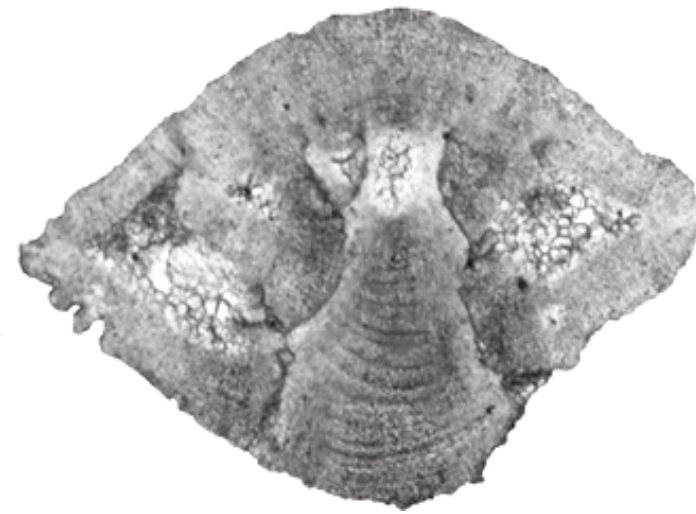
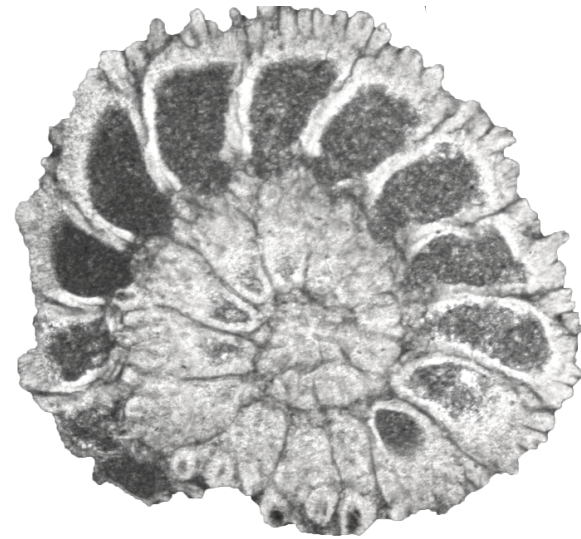


Cenozoic larger foraminifera and palaeoenvironmental reconstruction from the Prebetic Domain (SE Spain)



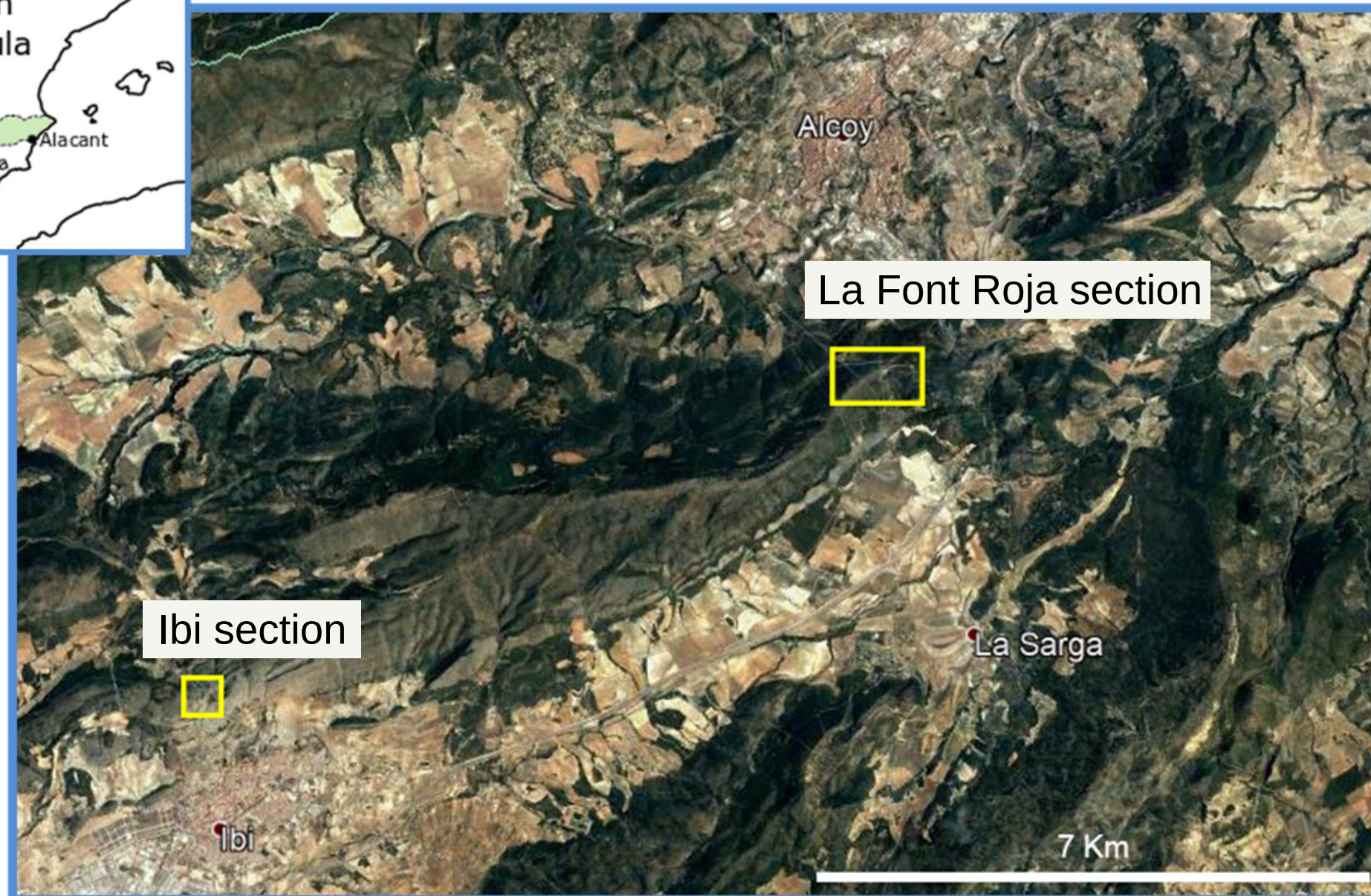
Paula Granero Ordóñez¹, Carles Ferràndez-Cañadell², and Concepción Herrero Matesanz³

¹WISESS, University of Vienna, Vienna, Austria

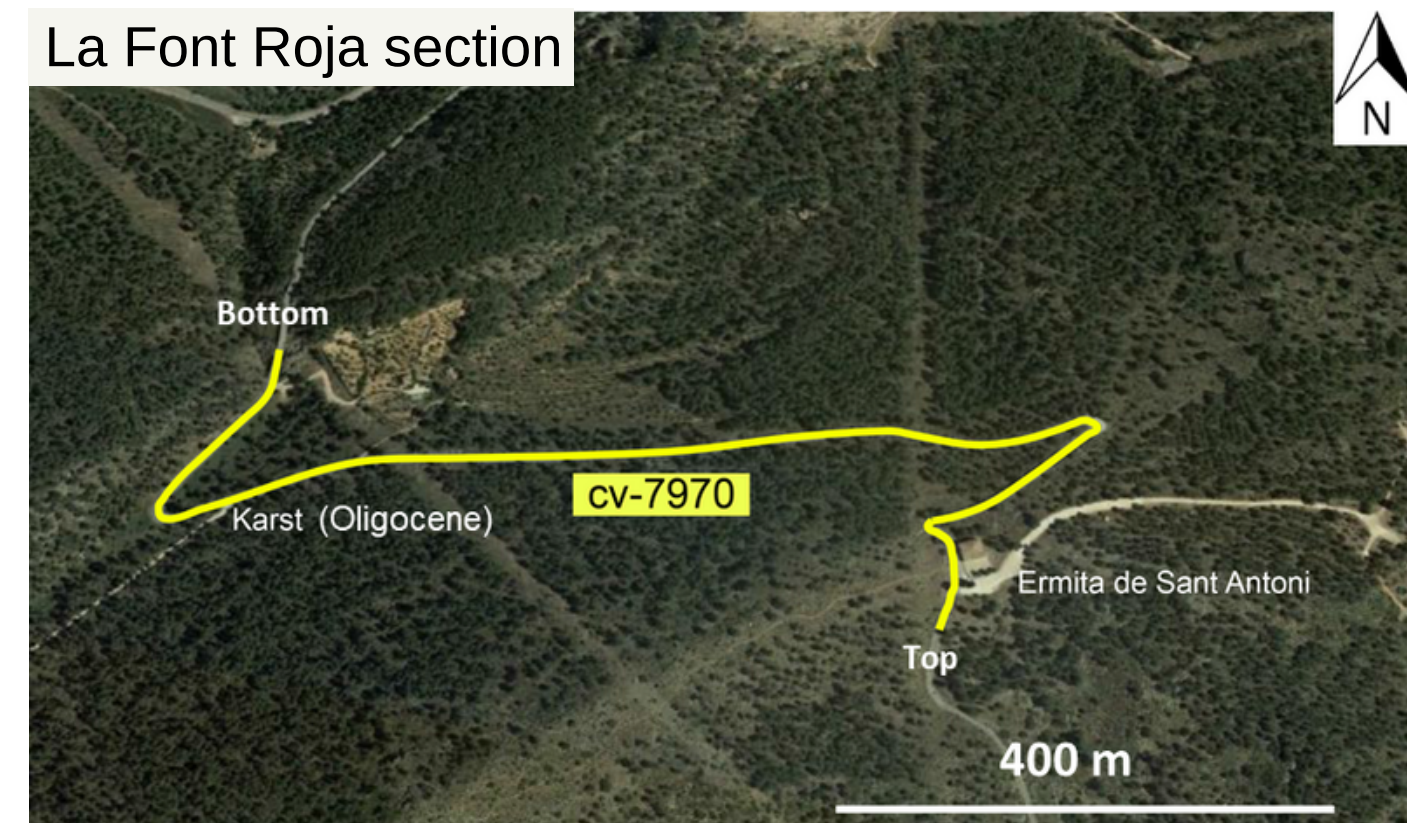
²Faculty of Earth Sciences, University of Barcelona, Barcelona, Spain

³Faculty of Geological Sciences, Complutense University of Madrid, Madrid, Spain

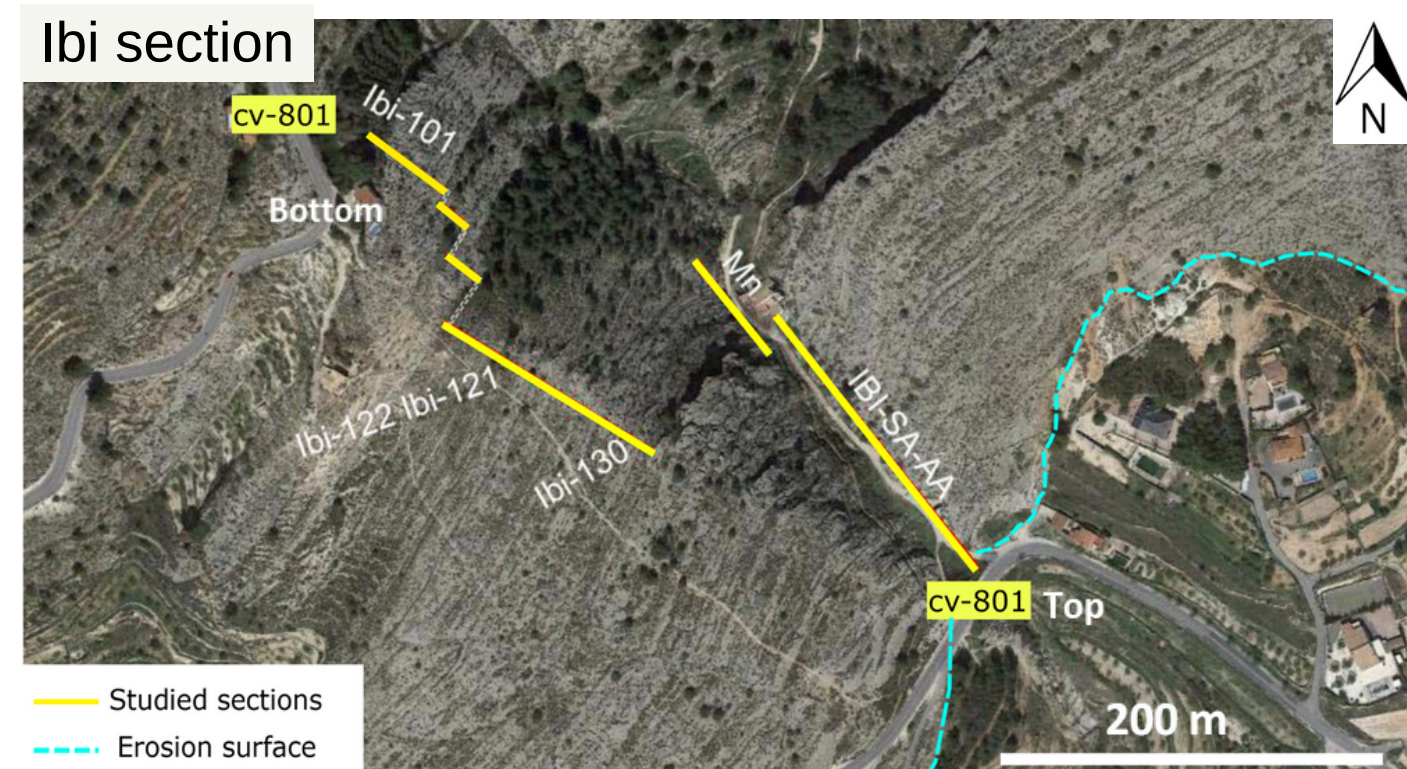




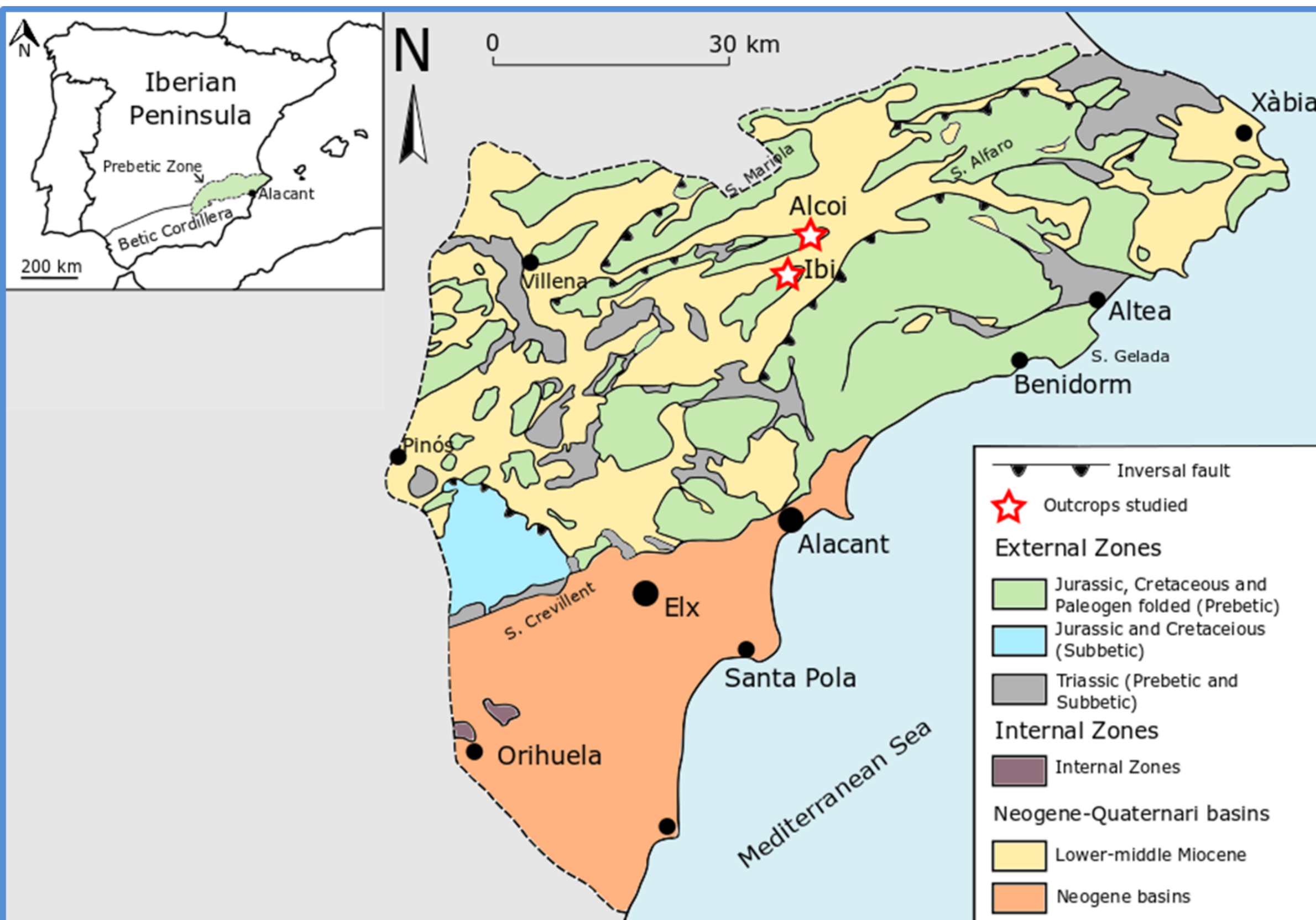
La Font Roja section



Ibi section



— Studied sections
- - - Erosion surface



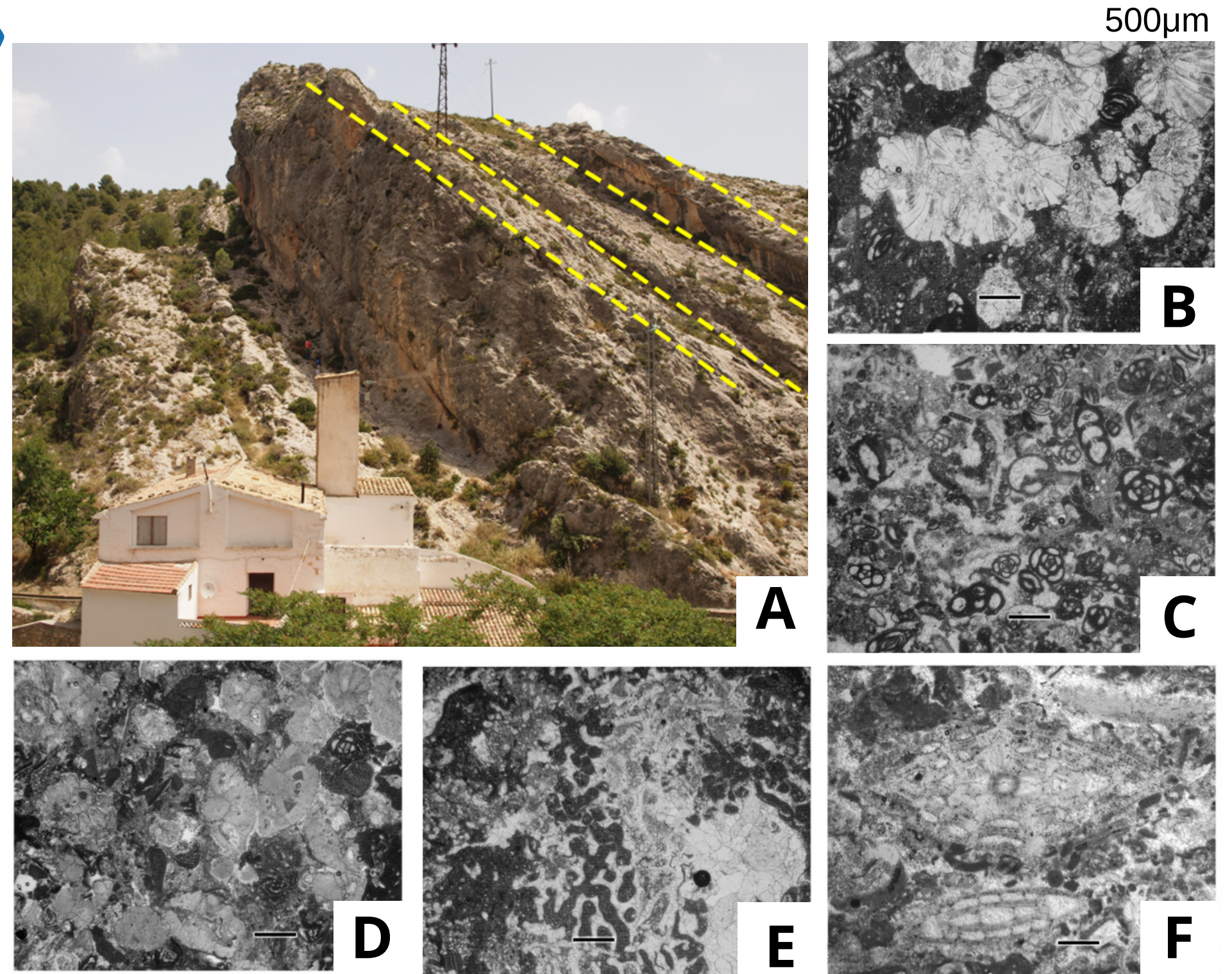
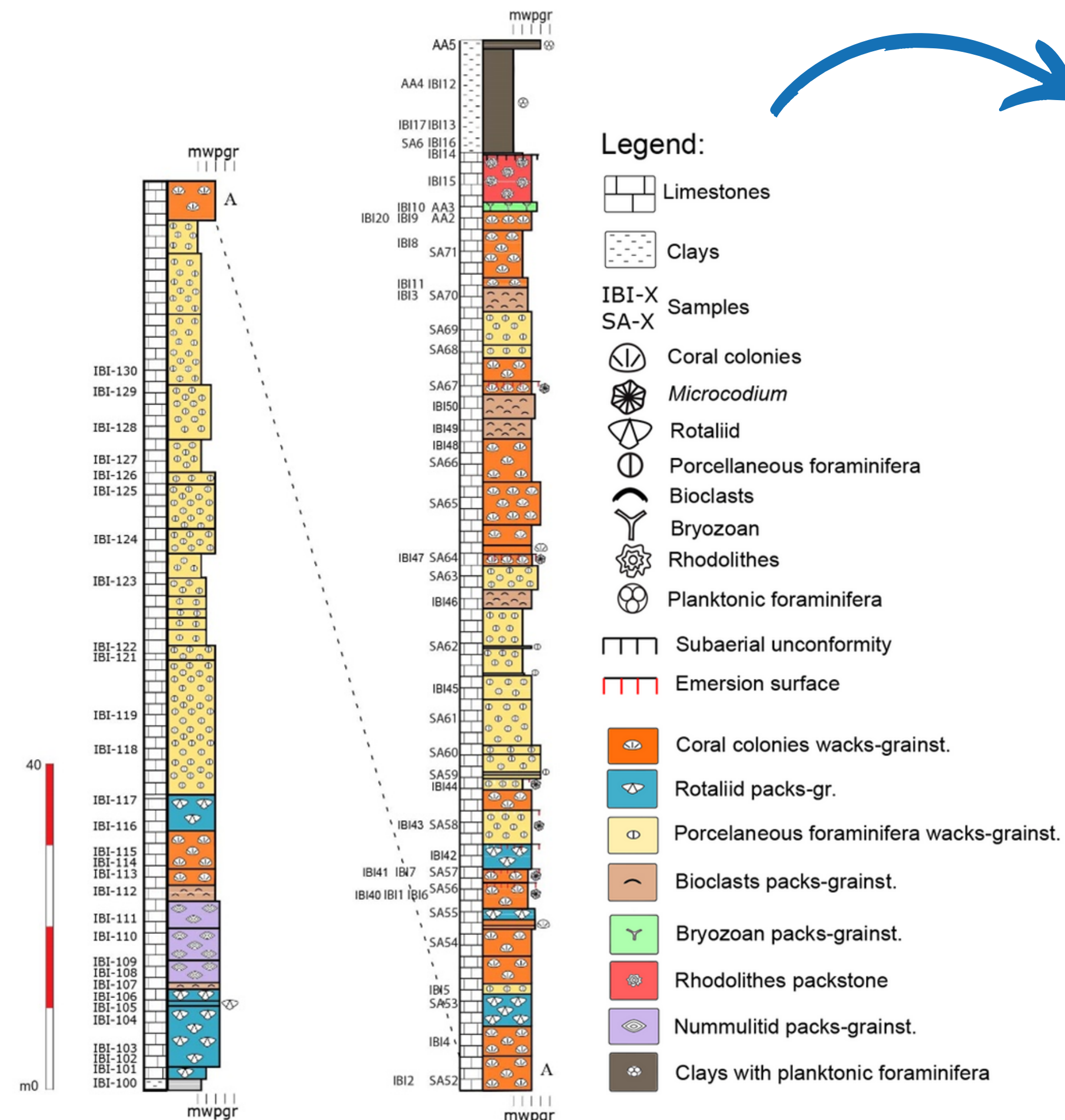
(Modified from Ruig, 1992)

- Geel (1995; 2000):
Oligocene of the province of **Alicante**

- Höntzsch *et al.* (2013):
Systematics at genus level of benthic forams from **Ibi**

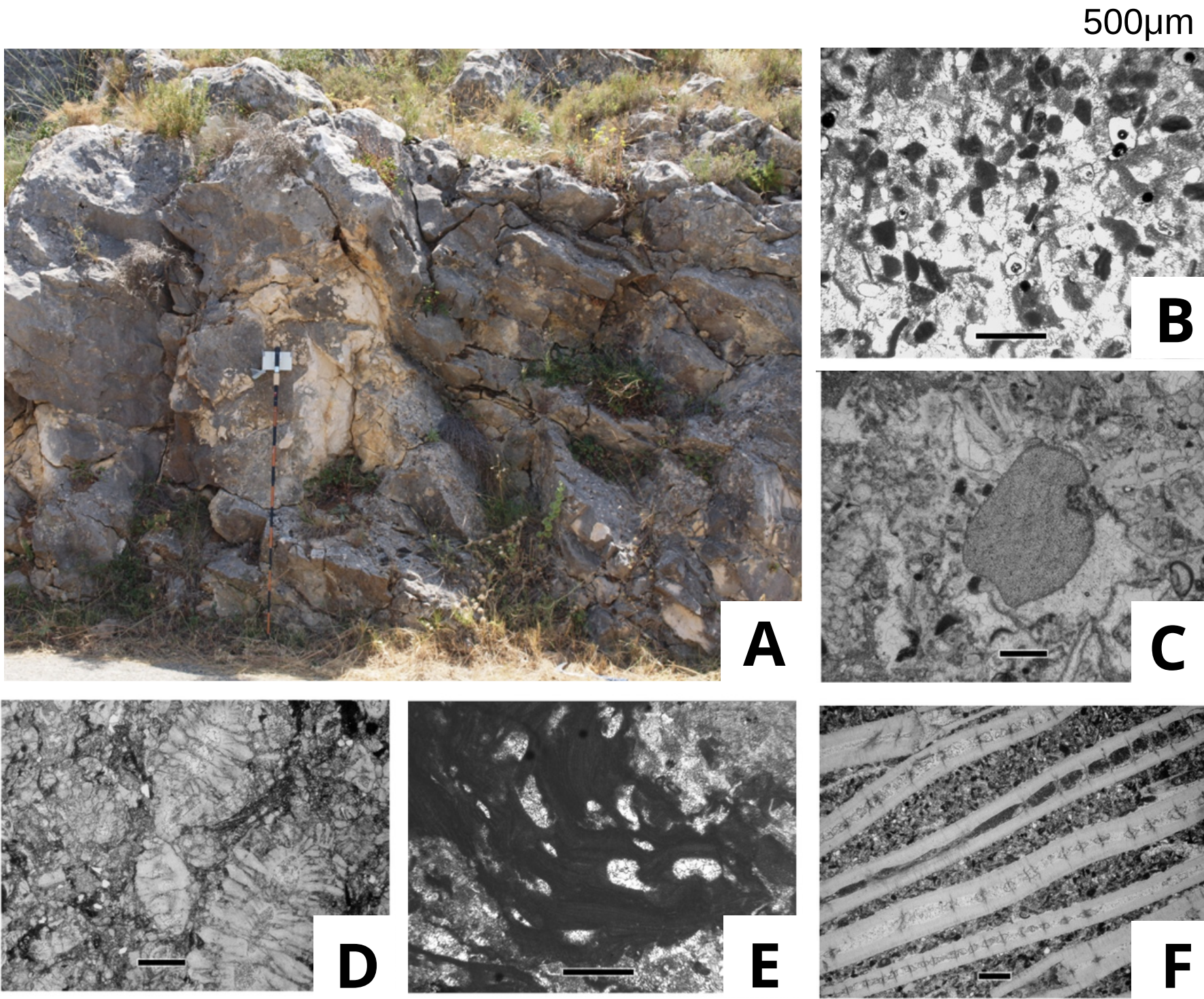
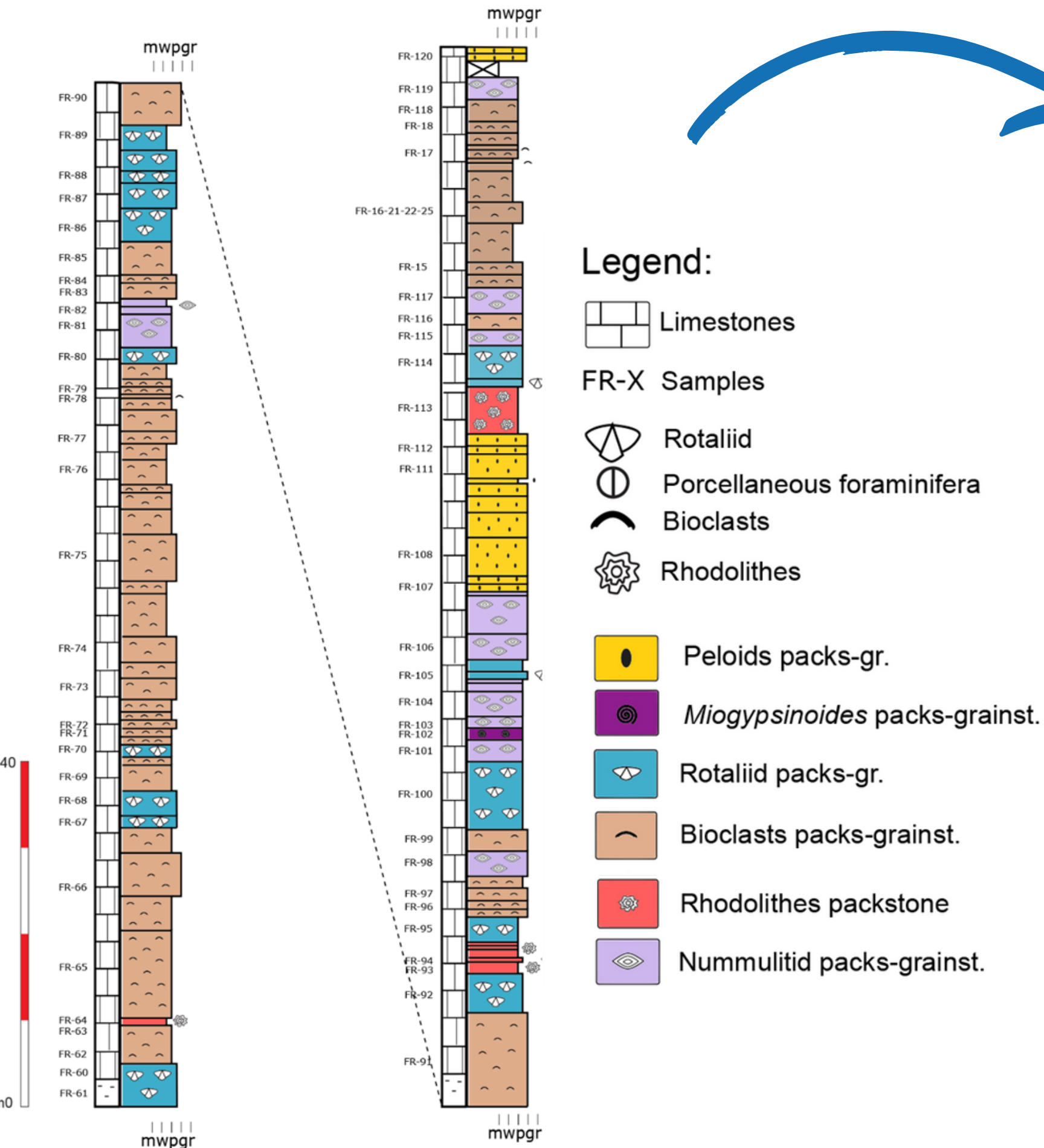
- Systematic study of benthic foraminifera
- Biostratigraphic interpretation
- Palaeoenvironmental interpretation and depositional model

RESULTS: STRATIGRAPHY, IBI SECTION



A. Limestones; **B.** *Microcodium*; **C.** Porcellaneous foraminifera packs-grainst.; **D.** Rotaliid packs.; **E.** Coral packs.; **F.** Nummulitid packs-grainst.

RESULTS: STRATIGRAPHY, LA FONT ROJA SECTION

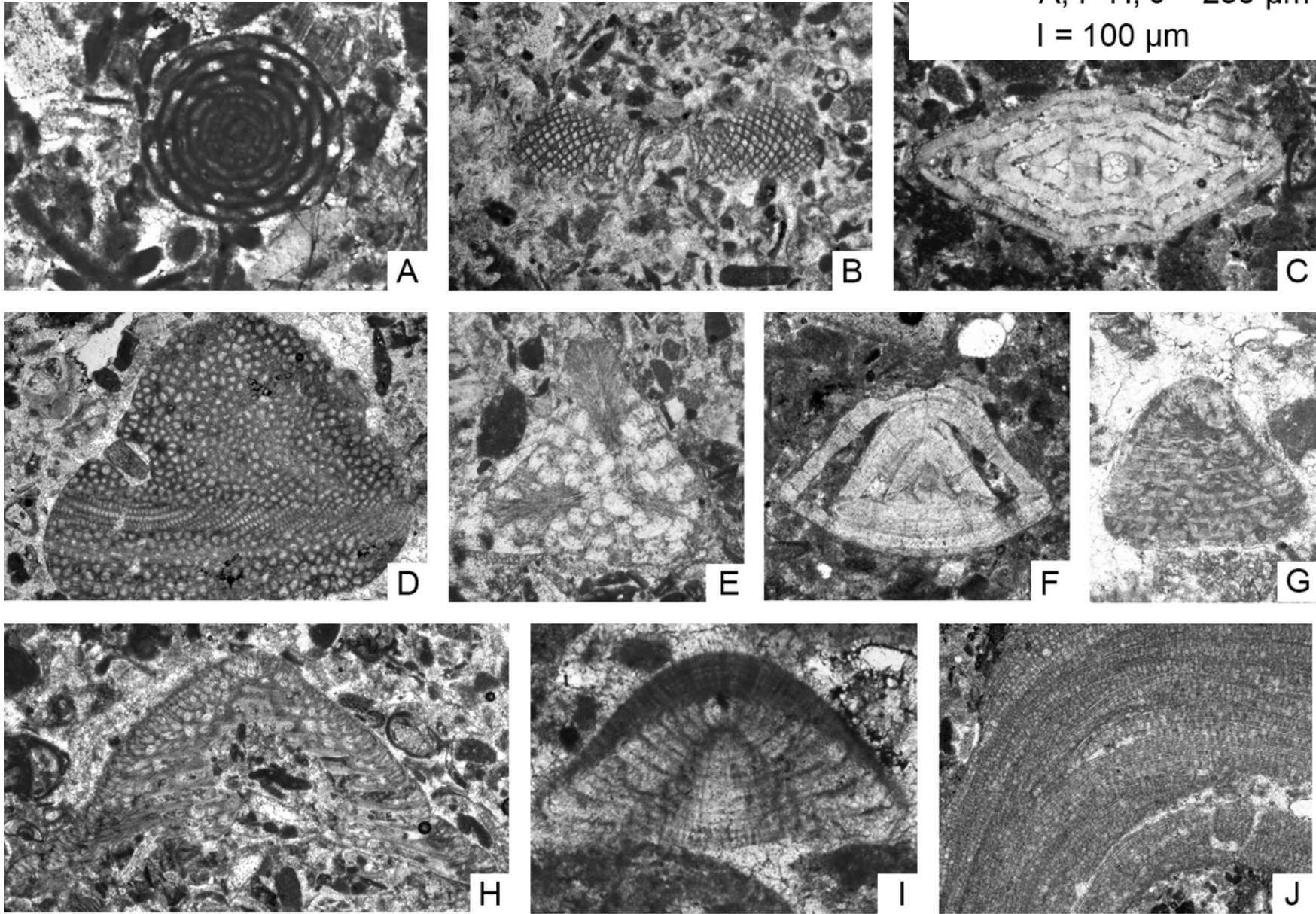
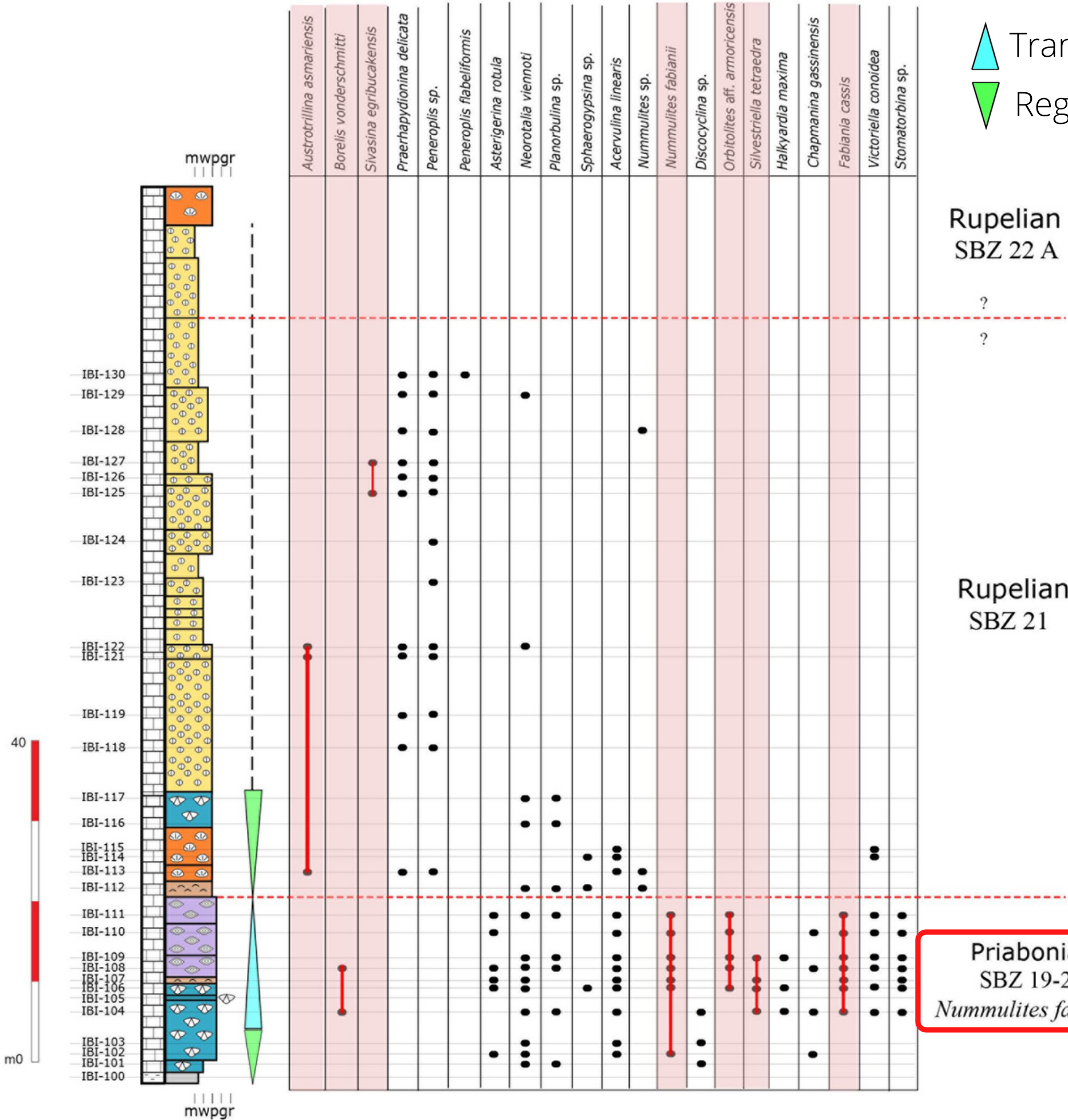


A. Limestones; **B.** Peloids grainst.; **C.** Bioclastis packs-grainst.; **D.** Rotalid packs.; **E.** Rhodolithes packs-rudst.; **F.** Nummulitid packs-grainst.

Transgression
Regression

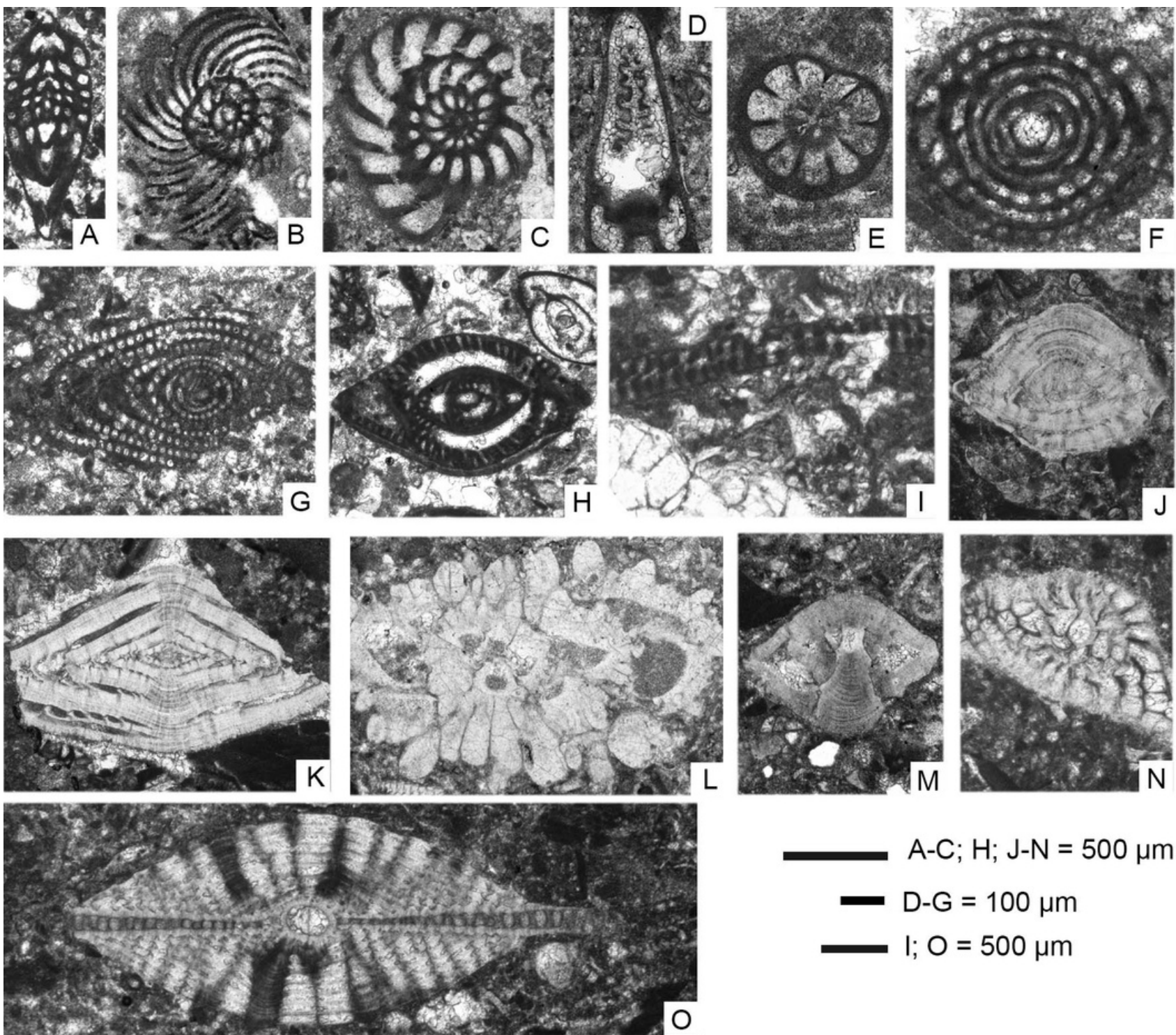
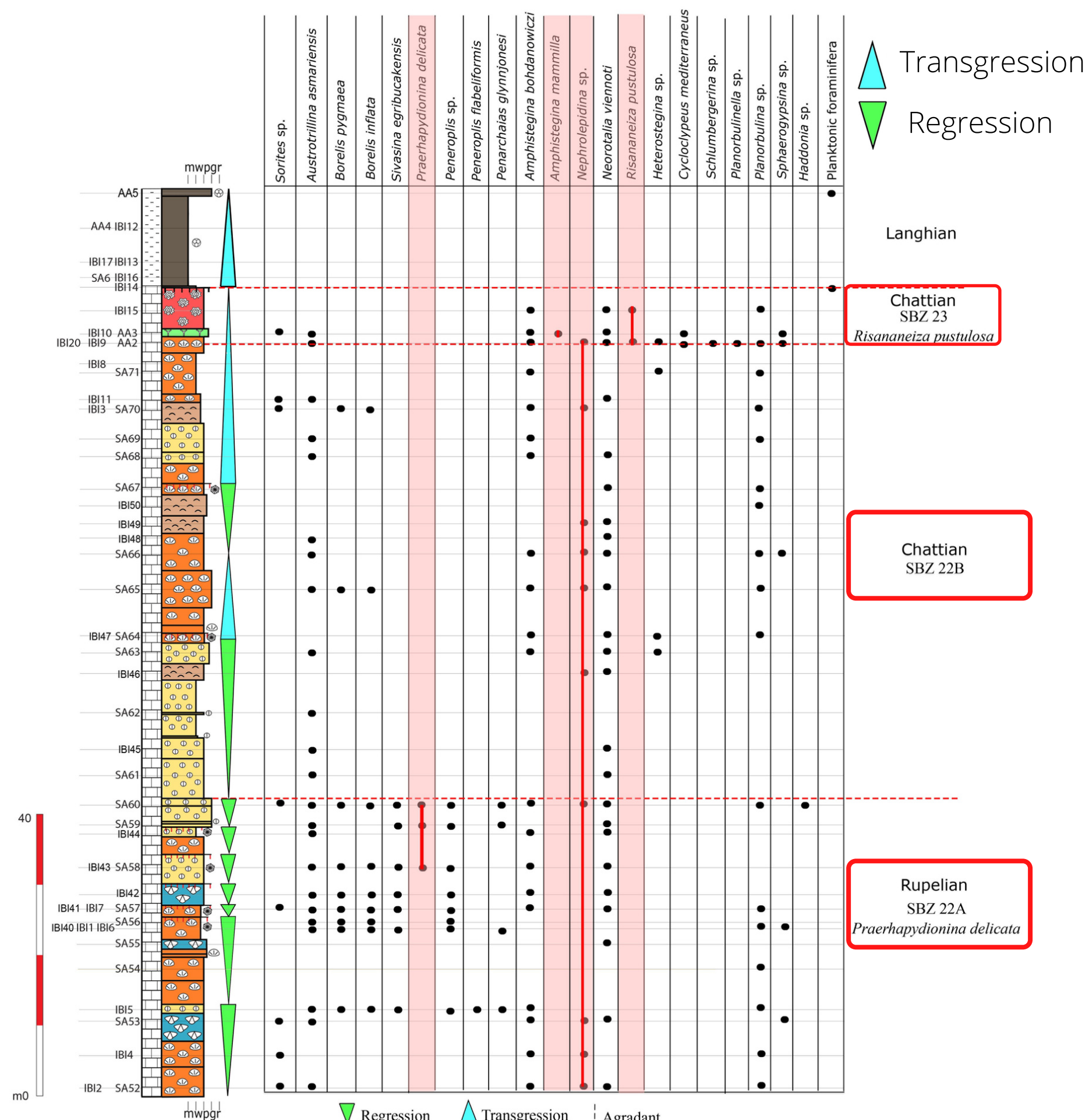
Priabonian

B-E = 500 µm
A; F-H; J = 250 µm
I = 100 µm



A. *Borelis vonderschmitti*; **B.** *Orbitolites* aff. *armoricensis*; **C.** *Nummulites fabianii*; **D.** *Discocyclus* sp.; **E.** *Silvestriella tetraedra*; **F.** *Asterigerina rotula*; **G.** *Chapmanina gassinensis*; **H.** *Fabiania cassis*; **I.** *Acervulina linearis*

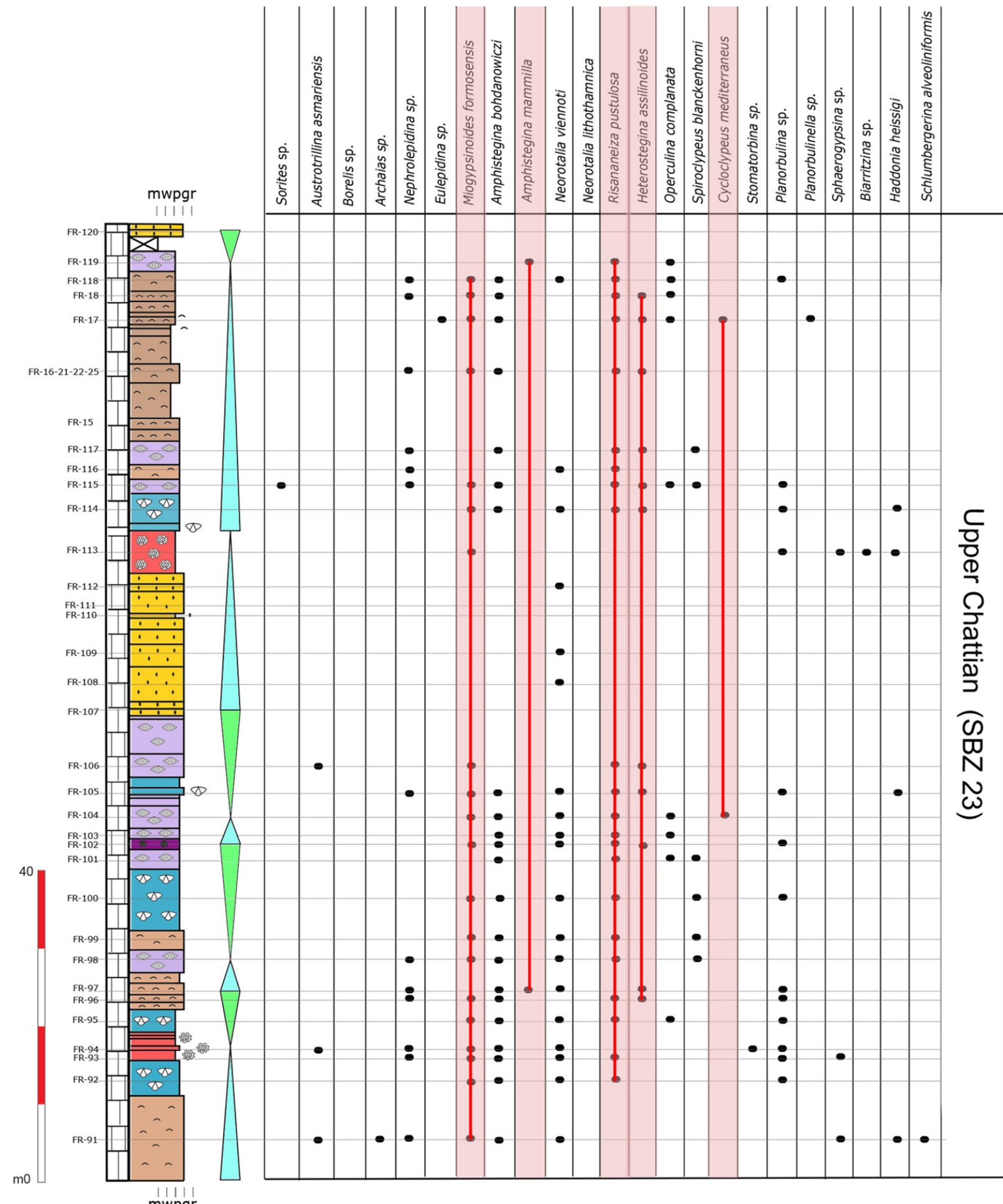
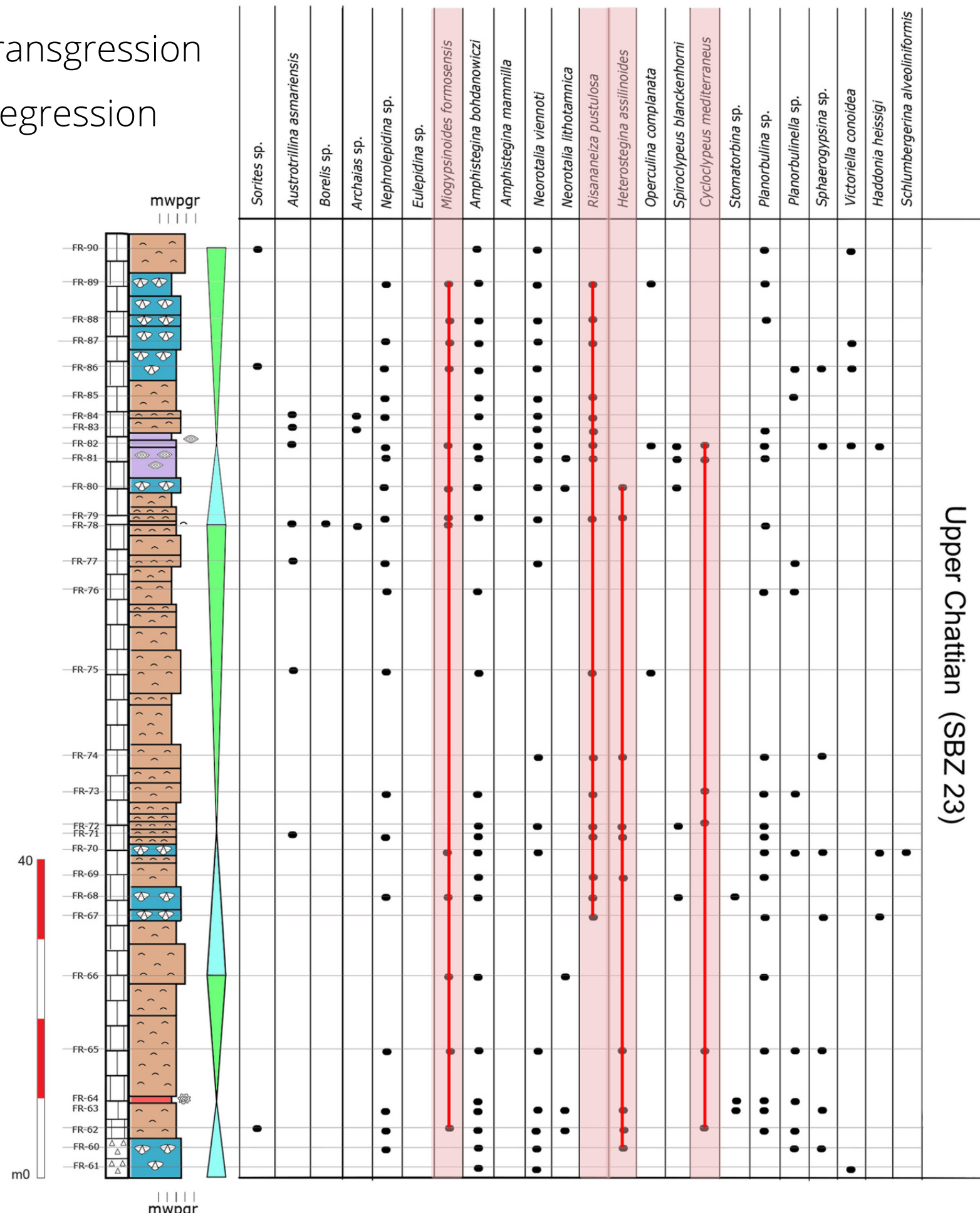
Oligocene



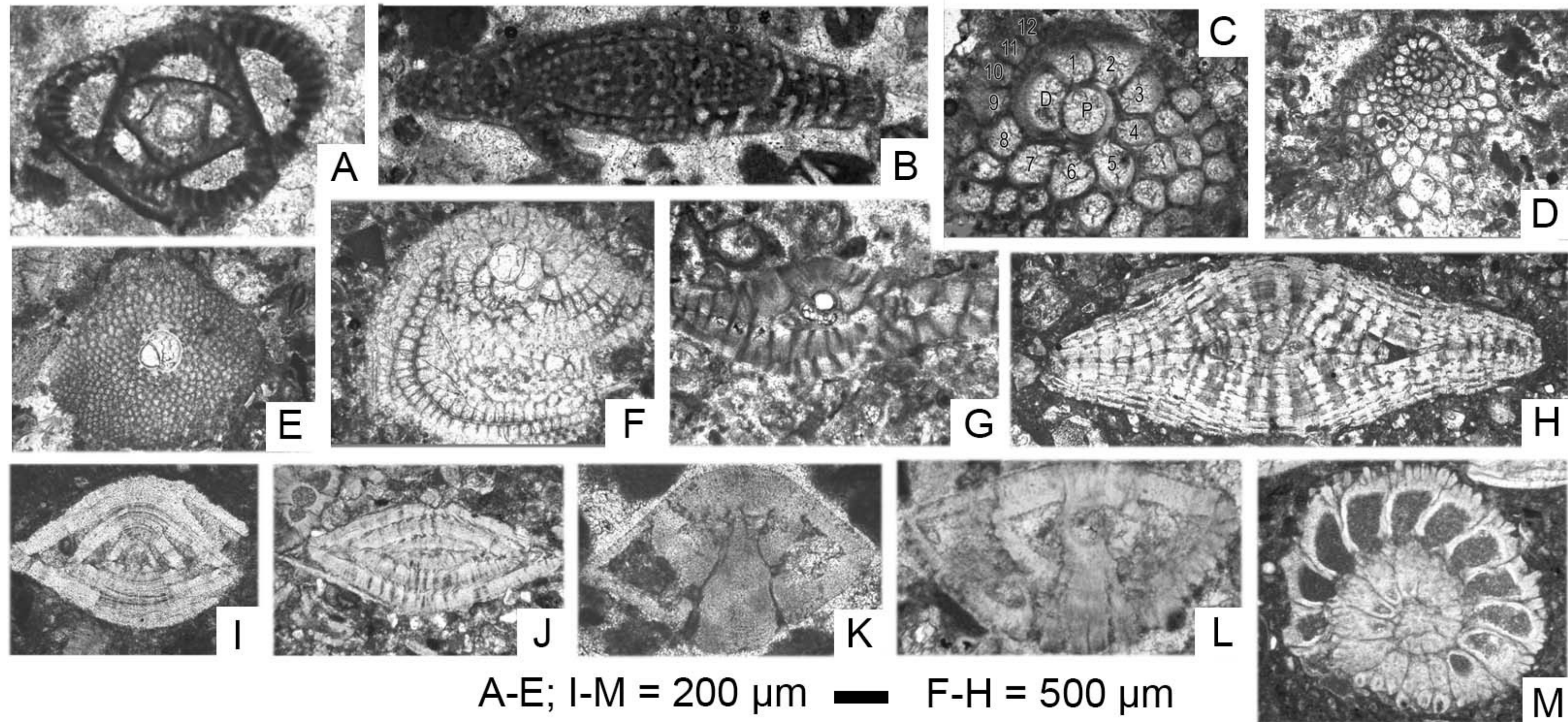
A. *Pennarchaias glynnjonesi*; **B.** *Peneroplis flabelliformis*; **C-D.** *Sivasina egribucakensis*; **E.** *Praerhapydionina delicata*; **F.** *Borelis inflata*; **G.** *B. pygmaea*; **H.** *Austrotrillina asmariensis*; **I.** *Sorites sp.*; **J.** *Amphistegina bohdanowiczi*; **K.** *A. mammilla*; **L.** *Risananeiza pustulosa*; **M.** *Neorotalita viennoti*; **N.** *Cycloclypeus mediterraneus*; **O.** *Nephrolepidina sp.*

DISCUSSION: BIOSTRATIGRAPHY (LA FONT ROJA)

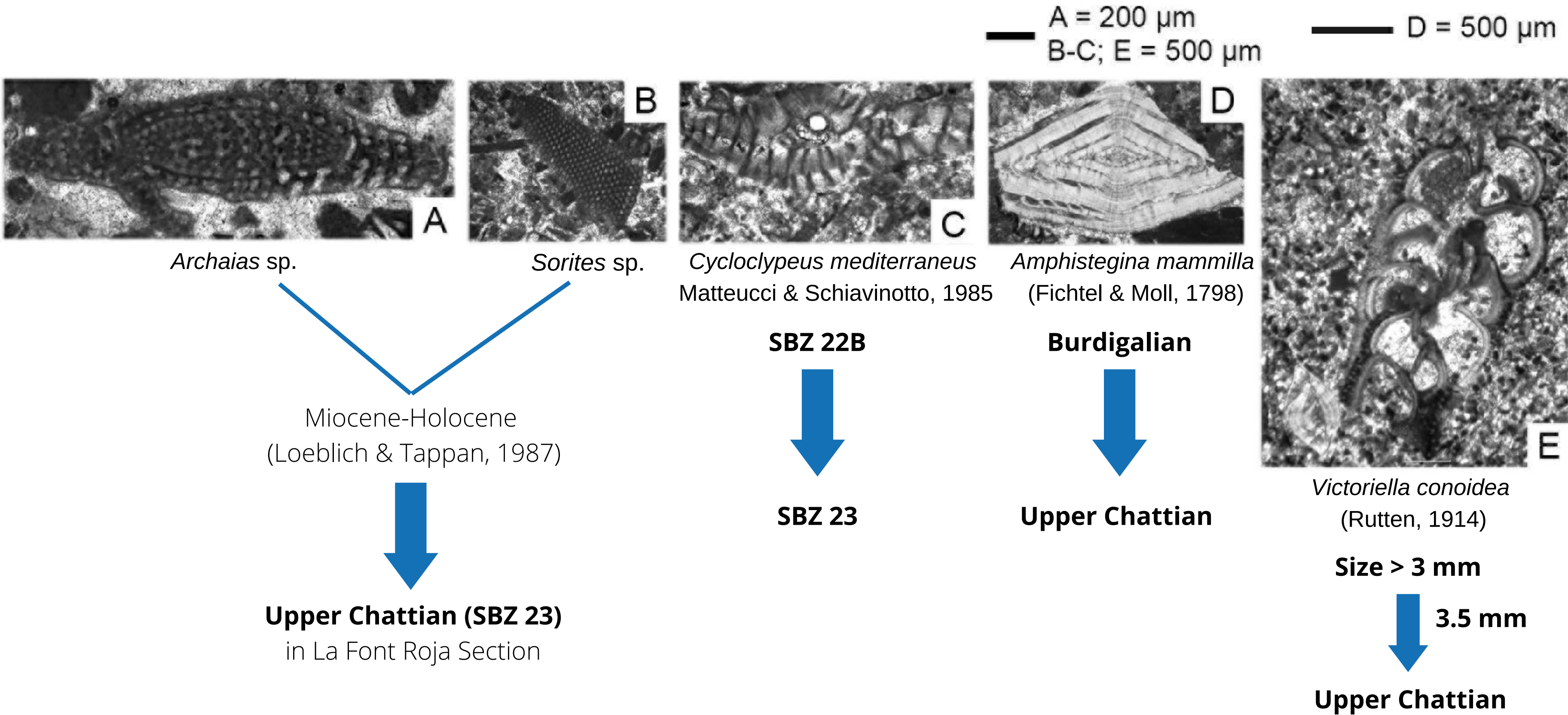
 Transgression
 Regression



DISCUSSION: BIOSTRATIGRAPHY (LA FONT ROJA)

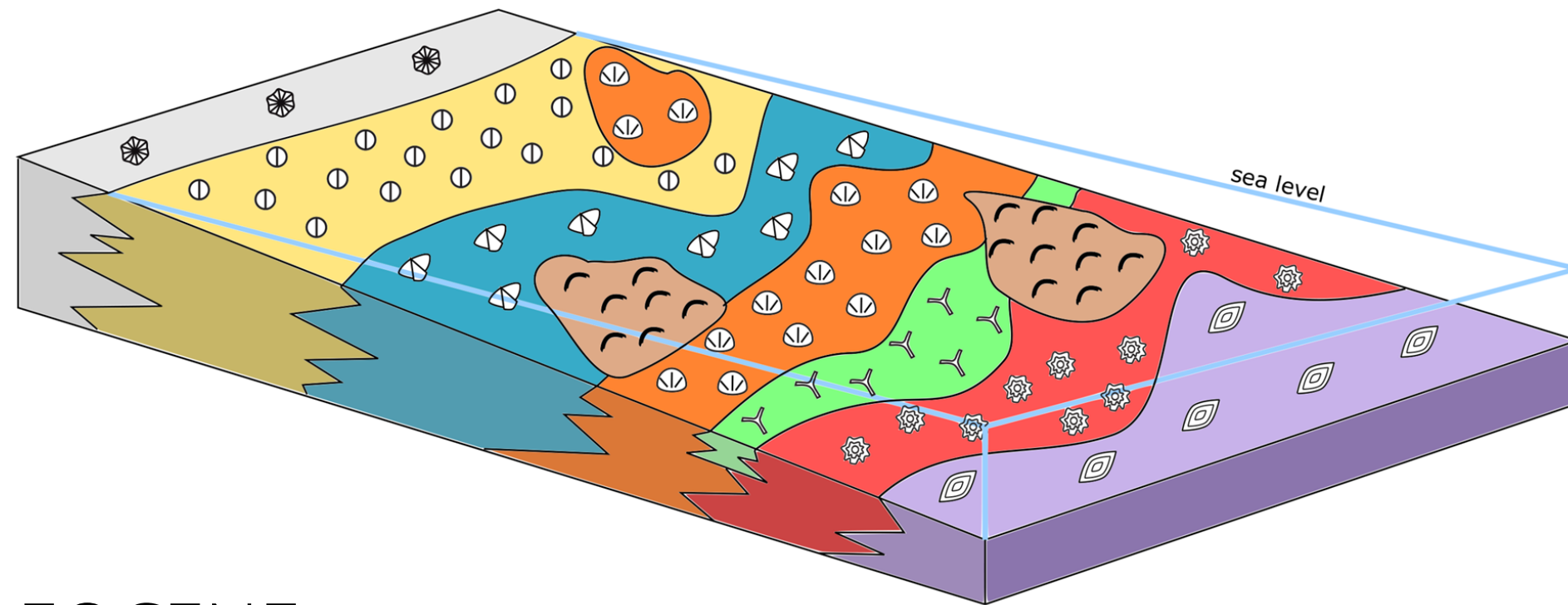


A. *Austrotrillina asmariensis*; **B.** *Archaias* sp.; **C-D.** *Miogypsinoides formosensis*; **E.** *Nephrolepidina* sp.; **F.** *Heterostegina assilinoides*; **G.** *Cycloclypeus mediterraneus*; **H.** *Spiroclypeus blankenhorni*; **I.** *Amphistegina bohdanowiczi*; **J.** *A. mammilla*; **K.** *Neorotalia viennoti*; **L.** *Neorotalia lithothamnica*; **M.** *Risananeiza pustulosa*

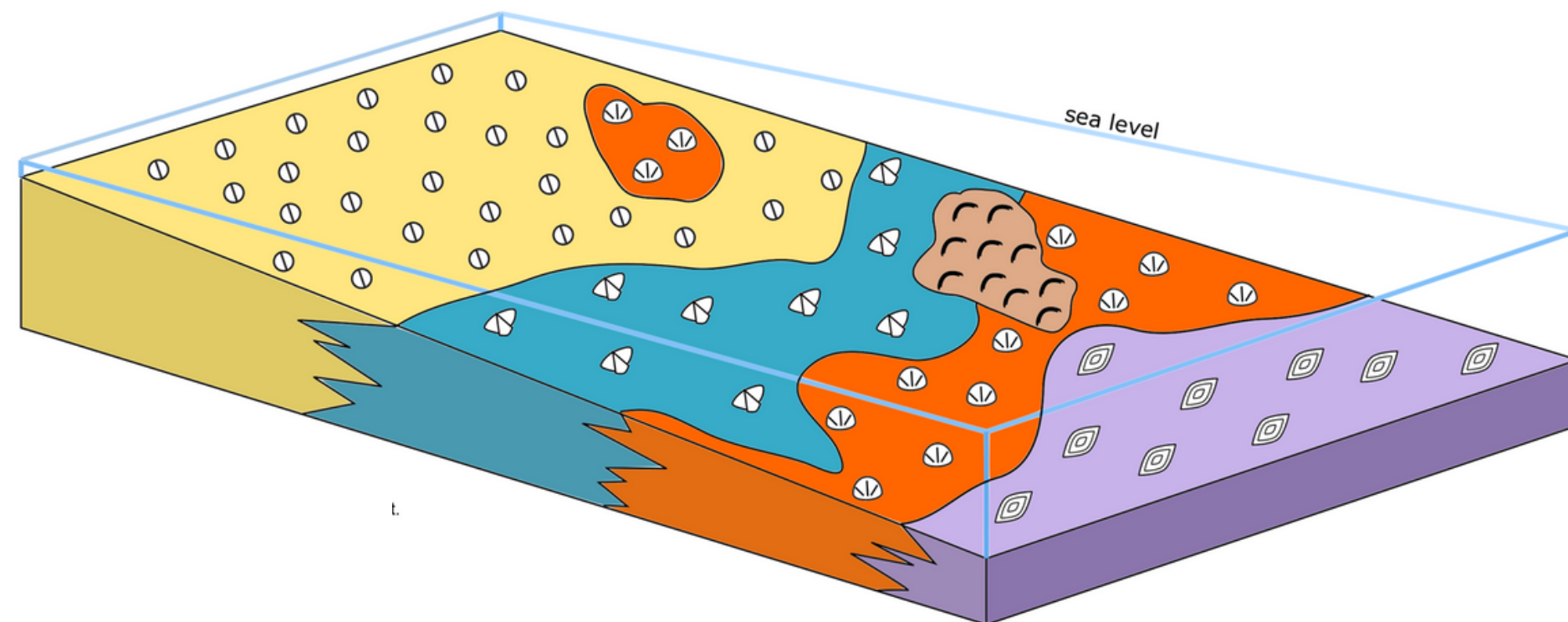


DISCUSSION: DEPOSITIONAL MODEL

OLIGOCENE



EOCENE



- **Low-latitude shallow marine environment**, at a depth of **less than 40 metres**.
- The vertical repetition of microbiofacies consistent with **inner carbonate platform environments outgoing aggrading**
- This **high-stand aggrading system** was punctuated by **low-stand regressive** pulses that ended with the **subaerial exposure** of the inner platform (*Microcodium* horizons)

	<i>Microcodium</i>
	Porcelaneous foraminifera wacks-grainst.
	Rotaliid packs-gr.
	Coral colonies wacks-grainst.
	Bioclasts packs-grainst.
	Bryozoan packs-grainst.
	Rhodolith packstone
	Nummulitid packs-grainst.

Thank you for your attention!

