

seminario 25 giugno 2013

I macroforaminiferi del Paleogene:
classificazione, biostratigrafia e paleoecologia

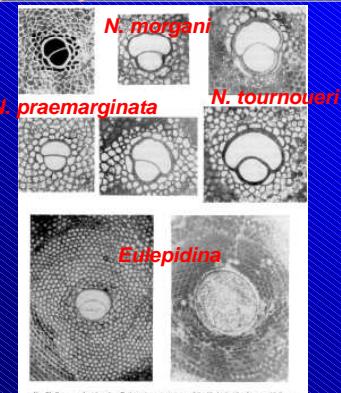


Lepidocycline e miogypsine

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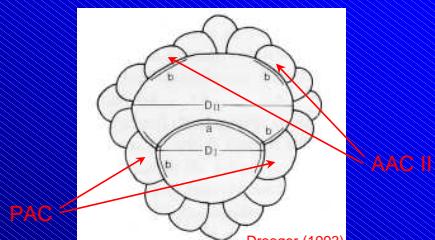
Lepidocyclinids



Drooger (1993)

Fig. 71. European Lepidocyclinidae. Deuterocoenoid types of the Nephrolepidina lineage with from left to right types of *L. praemarginata*, *L. tournoeuri* and *L. morgani* = 40 (after De Malsan, 1970). Below: deuterocoenoid types of *Eulepidina* individuals with different nucleoconch ultrastructure; $\times 30$ and $\times 25$ (Drooger, ventral view).

Nephrolepidina: biometry



Drooger (1993)

A = length of the common wall between protoconch and deutoerocoach (a) divided by the length of the whole circumference of the protoconch (multiplied by 100).

B (not used anymore): ratio between the sum of all embryonic arc lengths (b) underlying the auxiliary chambers (PAC, AAC II and AAC I) and the length of the circumference of the entire nucleoconch.

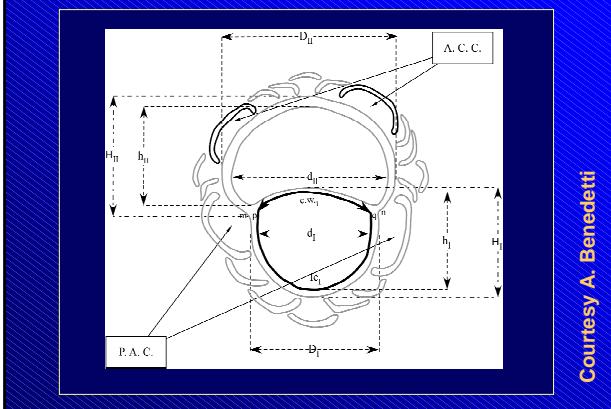
C = number of AAC II.

PAC = principal auxiliary chambers

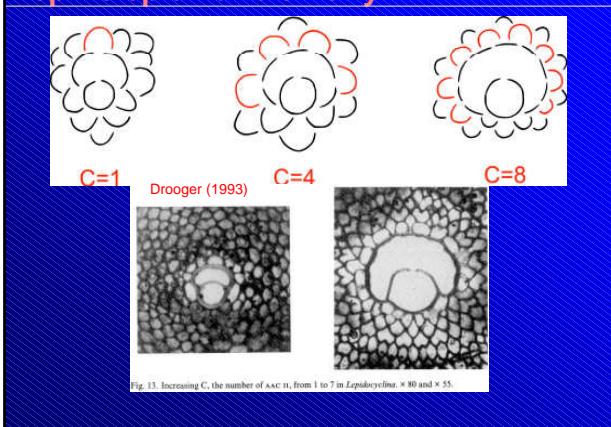
AAC II = adauxiliary chambers (on the outer wall of the deutoerocoach, directly communicating with it)

AAC I = adauxiliary chambers (on the outer wall of the protoconch, directly communicating with it)

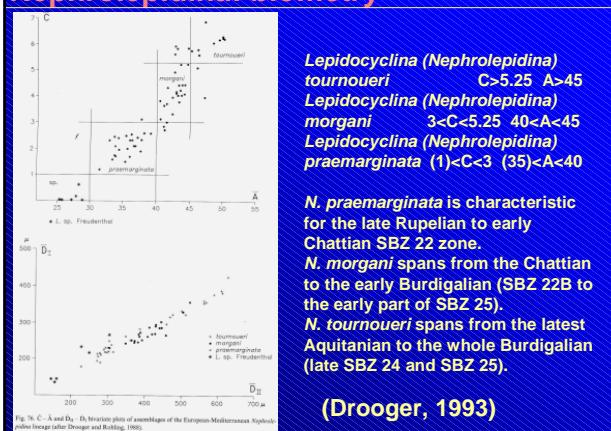
Nephrolepidina: more biometry



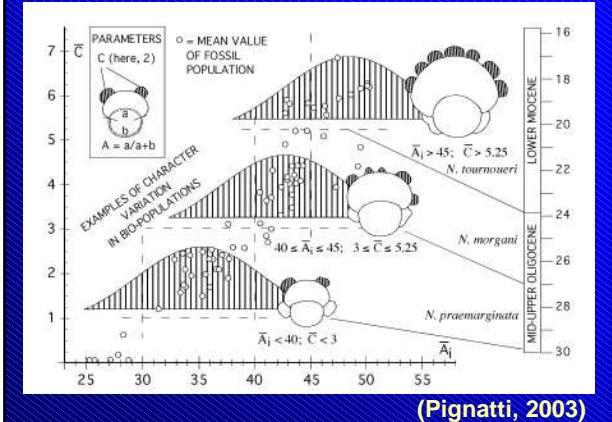
Nephrolepidina: biometry



Nephrolepidina: biometry

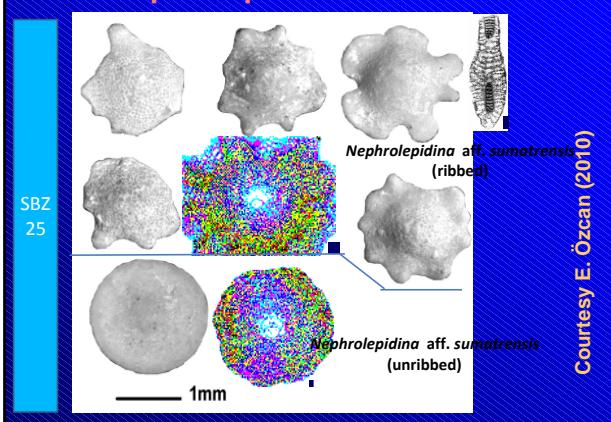


Nephrolepidina: biometry

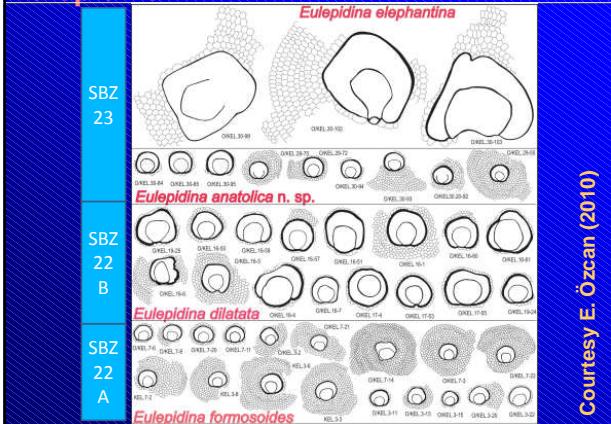


(Pignatti, 2003)

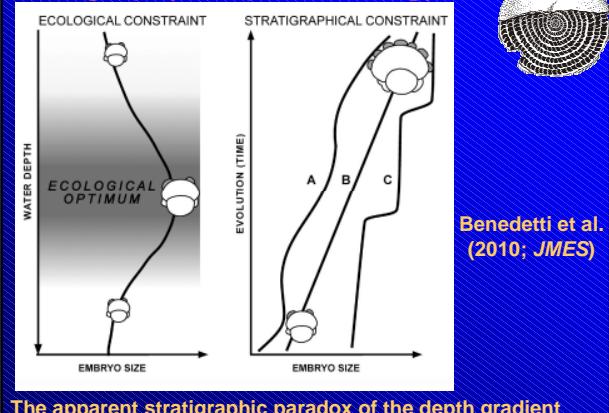
ribbed Nephrolepidina SBZ 25



Eulepidina



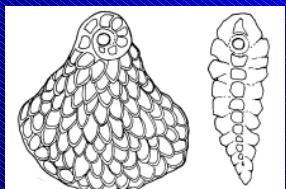
Stratigraphy vs. paleoecology



The apparent stratigraphic paradox of the depth gradient

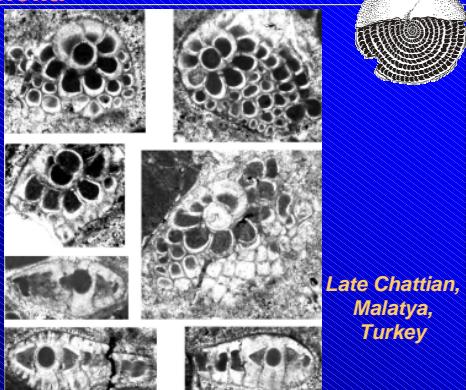
Miogypsinella

Contrary to common belief, *Miogypsinoides* does not occur in the Western Neotethys, Europe, and the Americas: these thin-walled Chattian-Miocene forms should be called *Miogypsinella*.

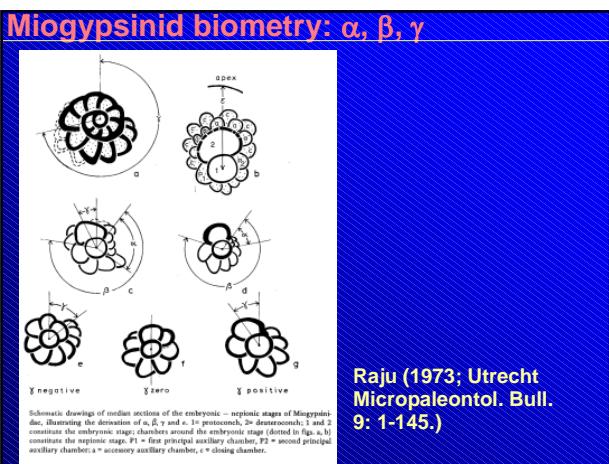
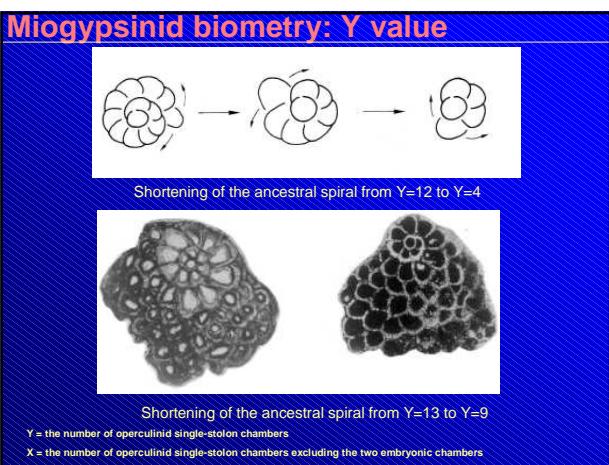
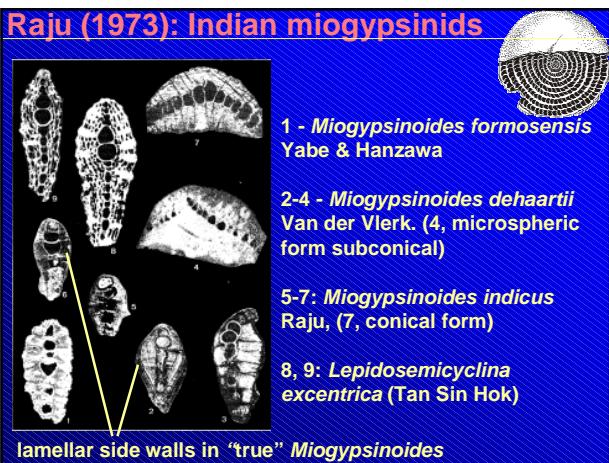


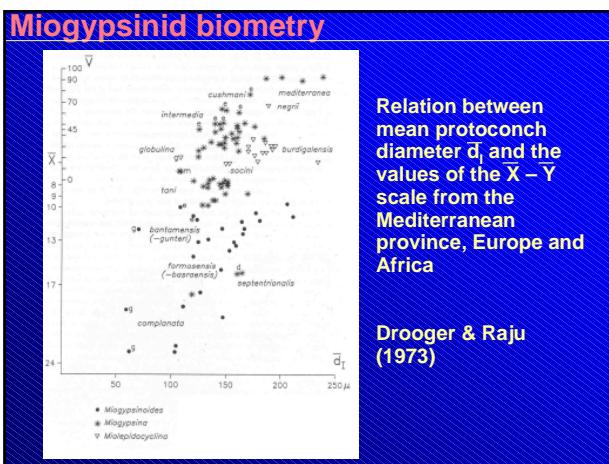
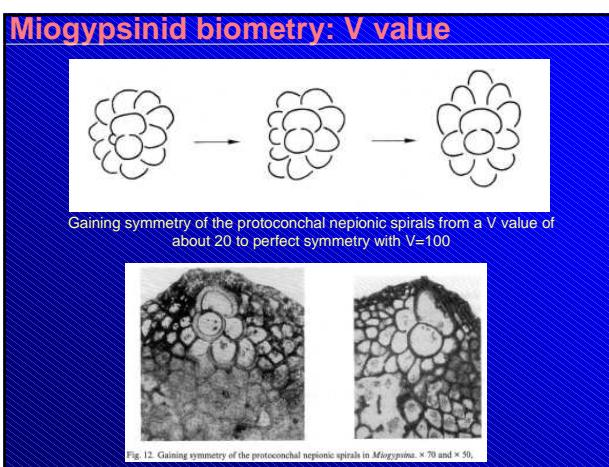
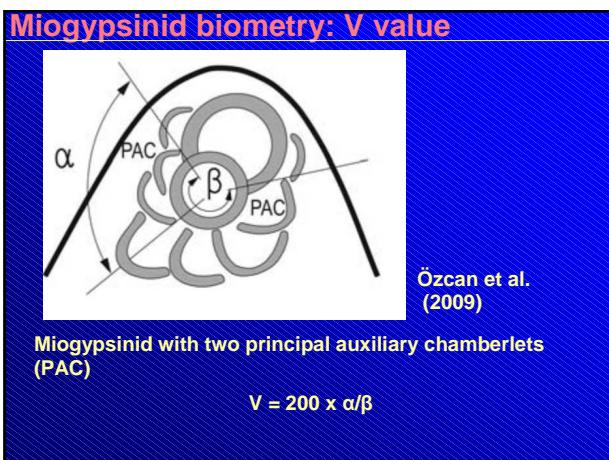
Miogypsinella (= *Miogypsinoides* Auctt.)

Miogypsinella

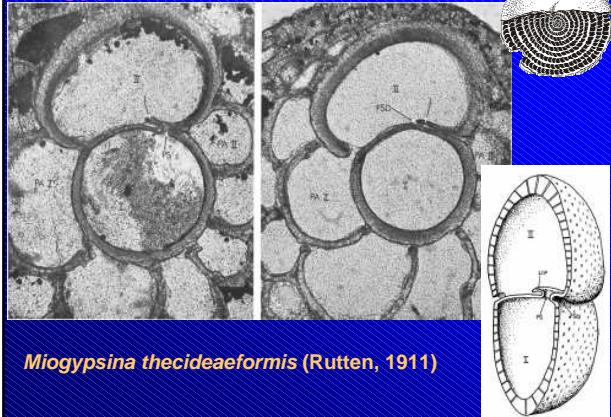


Miogypsinella akcadagensis (Gedik & Sirel, 2009)



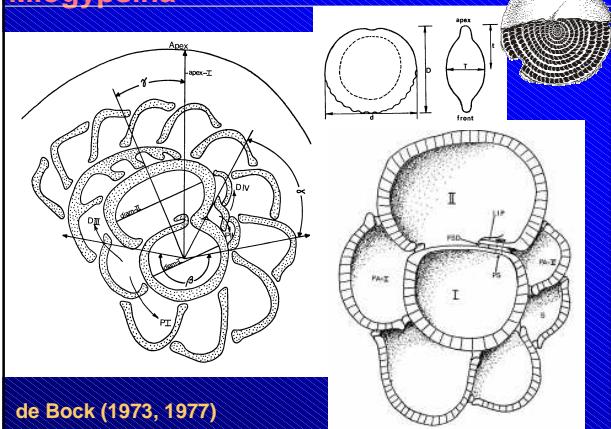


Miogypsina



Miogypsina thecideaeformis (Rutten, 1911)

Miogypsina



de Bock (1973, 1977)

End of unit

