

## Eocene–Oligocene calcareous nannofossils in the Zagros Basin (SW Iran)

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The upper part of the Pabdeh Formation in the Zagros Basin is a pelagic interval that consists primarily of marls and marly limestones. Eight calcareous nannofossil bioevents were identified in the studied interval. Based on calcareous nannofossil index species, the studied interval extends from Zones CNE17 to CNO3 of Agnini et al. (2014) and Zones NP18 to NP23 of Martini (1971). *Criboecium erbae* occurred in the oldest sample. The next bioevent is the last common occurrence of *C. erbae*, identifying the top of Zone CNE17. According to Agnini et al. (2014), Zone CNE17 corresponds to the lower part of Zone NP18. The base of *Criboecium isabellae* is the next bioevent, marking the top of Zone CNE18, which is equivalent to Zone NP18 and the lower part of Zone NP19/NP20. This is followed by the top of *Criboecium reticulatum*, indicating the top of Zone CNE19. The tops of *Discoaster barbadiensis* and *D. saipanensis* were also identified, and the latter species also marks the top of Zone CNE20. Zones CNE19 and CNE20 correspond to the middle and upper parts of Zone NP19/NP20, respectively. The next bioevent is based on the common occurrence of *Clausiococcus subdistichus*, which marks the top of Zone CNE21 and the Eocene–Oligocene boundary. The top of *Ericsonia formosa* was used to define the top of Zone CNO1. Zones CNE21 and CNO1 are equivalent to Zone NP21. The top of *Reticulofenestra umbilicus* marks the top of Zone CNO2, which correlates to Zone NP22. The last bioevent identified was the base of *Sphenolithus distentus*, which marks the top of Zone CNO3 and is equivalent to the lower part of Zone NP23. Based on these data, the upper part of the Pabdeh Formation in the studied interval can be considered to be Late Eocene–Early Oligocene in age.

### References

- Agnini, C., Fornaciari, E., Raffi, I., Catanzariti, R., Pälike, H., Backman, J. & Rio, D. 2014. Biozonation and biochronology of Paleogene calcareous nannofossils from low and middle latitudes. *Newsletters on Stratigraphy*, **47**(2): 131–181.
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