



Dr Khalifa Elderbak

**Planktonic & benthic
foraminifera
stratigraphy**

Biostratigrapher

Khalifa has a PhD in Micropaleontology (Paleoceanography and paleoenvironmental changes of the Cenomanian-Turonian boundary interval (94-93 Ma): The record of Oceanic Anoxic Event 2 in the central and eastern parts of the Western Interior Sea, U. Massachusetts - Amherst, 2014), an MSc in Earth Sciences (Foraminiferal biostratigraphy and paleoenvironments of the Cretaceous Colorado Group in southeastern and central Alberta, Canada, Carleton U., Ottawa, Canada, 2004) and a BSc in Geology (Al-Fateh U., Tripoli, Libya, 1993). He is bilingual in Arabic and English.

His expertise includes oceanic anoxic events, especially OAE2, and GoM Upper Cretaceous through Neogene planktonic and benthic foraminifera, their application to biostratigraphy, and paleoenvironmental and paleoceanographic interpretations. Khalifa has been a part of our team since 2012, before which he held graduate teaching and research assistantships at UMass, was a geology lecturer at Nasser Nations University, Libya and a geologist summer intern at AGIP, Libya. Since joining, he has expanded his experience through hot-shot, well-site and office projects, encompassing the onshore Texas Upper Cretaceous, GoM Paleogene (Wilcox), Neogene and Pleistocene, and offshore Kenya.

Publications:

- 2016 — Elderbak, K. & Leckie, R.M. Paleocirculation and foraminiferal assemblages of the Cenomanian – Turonian Bridge Creek Limestone bedding couplets: Productivity vs. dilution during OAE2. *Cretaceous Research*, 60: 52-77.
- 2014 — Elderbak, K., Leckie, R.M & Tibert, N. Paleoenvironmental and paleoceanographic changes across the Cenomanian-Turonian Boundary Event (Oceanic Anoxic Event 2) as indicated by foraminiferal assemblages from the eastern margin of the Cretaceous Western Interior Sea. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 413: 29-48.
- 2008 — Nielsen, K., Schroder-Adams, C., Leckie, D., Haggart, J. & Elderbak, K. Turonian to Santonian paleoenvironmental changes in the Cretaceous Western Interior Sea: The Carlile and Niobrara formations in southern Alberta and southwestern Saskatchewan, Canada. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 470: 64-91.