

Paleoenvironmental study of the Messinian series of Djediouia, Bas Chélif Basin, Algeria

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Since a long time ago, the Messinian series of Djediouia located in the southeastern part of the Bas Cheliff Basin, were the subject matter of a lithostratigraphic, systematic, paleoecological and palaeoenvironmental study.

Based on this, our work was carried out on the section of Sidi Abdelkader Tazghat, and thereafter five lithostratigraphic units of Messinian age were identified, from bottom to top: marly unit, marly-diatomitic unit, alternation of sandstone and sandy marl unit, alternating unit of limestones and marly sands and finally the massive limestone unit.

The systematic study of fossils has allowed us to identify 3 species of echinides, 10 species of bivalves, a species of gastropods, a species of scaphopods and 41 species of foraminifera (benthic and planktonic) of more bryozoans, annelids and melobesias.

Moreover, the Paleoecological and palaeoenvironmental studies revealed that the Sidi Abdelkader Tazghat series is a regressive series.

Keywords: Messinian, lithostratigraphy, systematic, palaeoecology, palaeoenvironment

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