Flat-pebble conglomerates have been identified in the Lower Toarcian (Levisoni Zone) carbonates of the Sesimbra region (30km south of Lisboa, Portugal) and...
The Pliensbachian/Toarcian boundary (Lower Jurassic) is well represented in the Lusitanian Basin (Portugal), mainly in the Peniche area, recorded by a marl/limestone series. Calcareous nanofossil assemblages are described herein, with the aim to contribute to the Toarcian GSSP definition. Marly samples were collected 3 m below and analysed for calcareous nanofossils. The main nanofossils observed were Biscutum finchii, B. grande, Calcivascularis jansae, Lenticulina dichotoma, Lenticulina sauvaggiazi. The PLB/TOA is in the nannofossil Unitary Association Zone UA-Z II, spanning the Upper Pliensbachian to the Lower Toarcian interval (Mailliot et al., 2006).

Flat-pebble conglomerates have been identified in the Lower Toarcian (Levisoni Zone) carbonate ramp (Kimmeridgian, northwest of the Iberian Ranges, Spain). These conglomerates are characteristic of shelf-to-basin transect in the Ziz Valley, Central High Atlas Mountains, Morocco. They are characterized by a three-stage model of origin: (a) differential lithification of thin carbonate and non-bioturbated horizons embedded within a more argillaceous matrix; (b) disruption by seismic shocks related to active extensional faulting; (c) transportation and deposition in a submarine fan system.

Gypsum salina-coral reef relationships during the Last Interglacial (Marine Isotopic Stage 5e) on the Egyptian Red Sea coast: a Quaternary analogue for Neogene marginal evaporites? F. Orszag-Sperber, J.-C. Plaziat, F. Baltizer, B.H. Purser. The study aims to understand the relationship between gypsum and coral reefs during the Last Interglacial in the Egyptian Red Sea. The authors describe the development of a carbonate platform, which is characterized by the presence of gypsum nodules and crusts, as well as the evidence of coral reefs. The results contribute to the understanding of evaporite-hydrothermal systems and their role in the development of modern carbonate platforms.