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Laboratório Nacional de Energia e Geologia

STRATIGRAPHIC MICROPALAEONTOLOGY OF THE UPPER JURASSIC NERITIC FORMATIONS OF PORTUGAL AND ITS TETHYAN CONTEXT. I – THE ALGARVE BASIN

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MICROPALAEONTOLOGIA ESTRATIGRÁFICA DAS FORMAÇÕES NERÍTICAS DO JURÁSSICO SUPERIOR DE PORTUGAL E O SEU CONTEXTO TETISIANO. I – A BACIA DO ALGARVE

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Abstract: The revision of the micropalaeontological studies of the neritic formations of the Upper Jurassic (Kimmeridgian - Tithonian) of the Algarve Basin allowed a more detailed stratigraphic dating and a biozonation proposal based on foraminifera and calcareous algae species. Other groups are also identified (coralline sponges, stromatoporoids, charophytes, ostracods, and *incertae sedis*), some cited and illustrated for the first time in both Algarve and Western Portugal. Three new species of foraminifera (*Neokilianina concava*, *Amijiella? adherens* and *Involutina algarvensis*) and one calcareous alga (*Heteroporella sagresensis*) are described. On the basis of micropalaeontological data, lithology and tectonics, we discuss the evolution of the Algarve Basin during the Late Jurassic and compare it to others Tethyan carbonate platforms.

Keywords: Upper Jurassic, micropalaeontology, stratigraphy, palaeoenvironments, Algarve (Portugal).

Resumo: A revisão dos nossos estudos micropaleontológicos prévios sobre o Jurássico Superior da Bacia Algarvia (Kimeridgiano-Titoniano) permitiu uma atribuição estratigráfica e biozonização mais detalhadas, especialmente baseadas em foraminíferos e algas calcárias. Espécies de outros grupos (espongiários calcários, estromatoporídeos, carófitas, ostracodes e *incertae sedis*) também foram identificadas e figuradas, algumas citadas pela primeira vez para o Algarve e Portugal Ocidental. São descritas três novas espécies de foraminíferos (*Neokilianina concava*, *Amijiella? adherens* e *Involutina algarvensis*) e uma nova alga calcária (*Heteroporella sagresensis*). Com base nas características micropaleontológicas, litológicas e dados tectónicos, são feitas diversas considerações quanto à evolução da Bacia Algarvia no Jurássico Superior, bem como comparações com as outras plataformas carbonatadas tetisianas.

Palavras-chave: Jurássico Superior, micropaleontologia, estratigrafia, paleoambientes, Algarve (Portugal).

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