

COMBINED ABSOLUTE DATING AND BIOSTRATIGRAPHY FOR EOCENE DECAPOD FAUNAS FROM NE SPAIN

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The fossil decapod faunas from NE Spain were the main research subject of Prof. Luis Vía Boada (1910-1991) during three decades. The results of his extensive taxonomic and biostratigraphic work are coupled here with recently published absolute geochronological data from the Eocene southeastern Pyrenean foreland basin in northeastern Spain (Vic area). The coupling of absolute ages obtained from Ar/Ar data, Sr isotopes and magnetostratigraphy (Taberner et al. 1999, GSA Bull. 11:1155-1174) with decapod biostratigraphy (see a complete compilation up to 1988 in Solé and Vía 1989, Batalleria 2:23-42) led us to propose the taxon and concurrent range biozones for 28 brachyura species. These data can be extrapolated, with caution, to some European basins which present similar decapod associations, specifically in Italy and Hungary. A discussion is made about these equivalences and the significance and accuracy of the absolute age calibration.