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Understanding coleoid migration patterns between eastern and western

Europe – belemnite faunas from the upper lower Maastrichtian of Hrebenne,
southeast Poland

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ABSTRACT

The belemnite record of the lower Maastrichtian (as traditionally understood) in Europe is dominated by common and diverse representatives of the genus Belemnella Nowak, 1913. However, our knowledge of species from the middle lower Maastrichtian, in particular from the 'Bln. sumensis' belemnite zone, is severely limited, mainly because of a lack of outcrops of strata of this age. In order to understand the diversification and migratory patterns of belemnites from this interval better, I have combined available literature data with newly collected material. The present paper discusses the taxonomy, stratigraphy and palaeobiogeography of the late early Maastrichtian (sumensis Zone) Belemnella lineage, from the eastern part of the Roztocze Hills in southeast Poland. The belemnite material from Hrebenne comprises three species of Belemnella, namely Bln. sumensis Jeletzky, 1949, Bln. praearkhangelskii Naidin, 1964 and Bln. kajnarensis Naidin, 1964, in addition to a single specimen of Belemnitella pulchra Schulz, 1982. The taxonomic composition and diversification of this fauna is compared with contemporary assemblages from the upper Bln. obtusa Zone and the Bln. sumensis Zone of Kronsmoor (northwest Germany) and the Middle Vistula Valley section in central Poland. At a regional scale, the rich and diverse belemnite record of the Roztocze Hills and their simultaneous absence in the Nida Synclinorium is discussed in relation to palaeogeographical interpretations that assume the presence of the socalled Łysogóry-Dobrogea Land (or Krukienic Island) between those areas, which most likely governed the distribution of late early Maastrichtian belemnites in Poland. On a European scale, the taxonomic diversification and migratory pattern (if any) of representatives of the Belemnella stock are discussed and interpreted in comparison with forms known from western Europe and easterly areas as far the peri-Aralian Sea area of Kazakhstan.

Key words:

Coleoidea

Late Cretaceous

Biostratigraphy

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