

Early Cretaceous ammonites and dinoflagellates from the Western Tatra Mountains, Poland

Zdeněk Vašíček, Błażej Błażejowski, Andrzej Gaździcki, Maria Król, Jerzy Lefeld, Petr Skupien, and Andrzej Wierzbowski

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The first Early Cretaceous (Valanginian–Hauterivian) ammonite fauna from the lower part of the Kościeliska Marl Formation (Wściekły Żleb Member) of the Lower Sub-Tatric (Krížna) Nappe, in the Lejowa Valley of the Tatra Mountains are described. The fauna is precisely placed in the succession and consists of five species: *Olcostephanus densicostatus*, *Spitidiscus* cf. *cankovi*, *Criosarasinella* cf. *subheterocostata*, *Crioceratites primitivus*, and *Crioceratites coniferus* and additionally an aptychus *Didayilamellaptychus seranonis*. Remarkable are the valves of anomiid bivalves attached to body chamber of large size heteromorph ammonite *C. primitivus*. Moreover, a variety of stratigraphically important organic-walled dinoflagellate cysts are recovered from this locality. Dinoflagellates: *Cymososphaeridium validum*, *Circulodinium vermiculatum*, and representatives of *Bourkidinium* define the Upper Valanginian–Lower Hauterivian *Sentusidinium* sp. A Dinocyst Subzone of the *Cymososphaeridium validum* Zone. The character of deposits, the palynofacies, and associations of dinoflagellate cysts indicate a calm marine outer neritic environment.

Key words: Ammonoidea, Anomiidae, Dinoflagellata, Valanginian, Hauterivian, Western Carpathians.

Zdeněk Vašíček [zdenek.vasicek@ugn.cas.cz], Institute of Geonics, Academy of Sciences of the Czech Republic, Studentská 1768, CZ-708 00 Ostrava-Poruba, Czech Republic. Błażej Błażejowski [bblazej@twarda.pan.pl] (corresponding author) and Andrzej Gaździcki [gazdzick@twarda.pan.pl], Institute of Paleobiology, Polish Academy of Sciences, Twarda 51/55, 00-818 Warszawa, Poland. Maria Król [mkrol@tpn.pl], Tatra National Park, Kuźnice 1, 34-500 Zakopane, Poland. Jerzy Lefeld [222gama@gmail.com], Institute of Geological Sciences, Polish Academy of Sciences, Twarda 51/55, 00-818 Warszawa, Poland. Petr Skupien [petr.skupien@vsb.cz], Department of Geological Engineering, Faculty of Mining and Geology, VŠB-Technical University of Ostrava, 17. listopadu 15, CZ-708 33 Ostrava-Poruba, Czech Republic. Andrzej Wierzbowski [andrzej.wierzbowski@uw.edu.pl], Faculty of Geology, University of Warsaw, Żwirki i Wigury 93, 02-089 Warszawa, Poland.

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