



An exotic shell in pelagic environment?

Krobicki, M. 1992. Epifaunal Bivalves *Placunopsis* from the Macelowa Marl Member (Upper Cretaceous), Pieniny Klippen Belt, Polish Carpathians. *Bulletin of the Polish Academy of Sciences, Earth Sciences* 40, 9–14.

The Pieniny Klippen Belt is a narrow, very tectonically complicated zone between the Inner and Outer Carpathians. It is composed mainly of Jurassic and Cretaceous deposits representing a wide range of environments, from carbonate shoals to oceanic basins. The Macelowa Marl Member is a pelagic deep-sea marly unit of Early Turonian/Late Santonian age. It contains only sparse macrofauna, represented mainly by broken inoceramid shells. The paper reports a remarkably well preserved inoceramid shell overgrown with specifically undeterminable *Placunopsis* specimens, found within the Santonian part of the unit. Based on the assumption that both *Placunopsis* and *Inoceramus* represent shallow water organisms, the author concluded that the inoceramid host and its epibionts must have been transported from a much shallower part of the Santonian sea, possibly 'entangled in roots of driftwood'. It might have been the case, but it must be stressed, that *Placunopsis*, although typically occurring in the shallow seas of variable salinity indeed, was by no means restricted to such environments (e.g. Hölder 1990: p. 6). And many Cretaceous inoceramids seem to be very cosmopolitan benthic bivalves, adapted for living in very deep water, even bathyal and abyssal environments (see MacLeod and Hoppe 1992 and references therein).

References

- Hölder, H. 1990. Über die Muschelgattung *Placunopsis* (Pectinacea, Placunopsidae) in Trias und Jura. *Stuttgarter Beiträge zur Naturkunde B* 165, 1–63.
- MacLeod, K.G. & Hoppe, K.A. 1992. Evidence that inoceramid bivalves were benthic and harbored chemosynthetic symbionts. *Geology* 20, 117–120.

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Belemnites from the flysch facies

Krawczyk, A.J., Krobicki, M., & Słomka, T. 1991. Belemnites from the Szlachtowa Formation (Middle Jurassic), Pieniny Klippen Belt, Carpathians. *Bulletin of the Polish Academy of Sciences, Earth Sciences* 40, 1–7.

First finding of belemnites in the flysch sandstones belonging to Middle Jurassic Szlachtowa Formation in the Pieniny Klippen Belt, southern Poland, is there reported. These are three incomplete rostra assigned to *Holcobelus blainvillei*, *Holcobelus* sp. and an undeterminable representative of the Passaloteuthidae. According to the authors belemnites are in situ and corroborate the Aalenian age of the Szlachtowa Formation.

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