

## Chondrichthyan fauna of the Frasnian-Famennian boundary beds in Poland

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*Acta Palaeontologica Polonica* 47 (2), 2002: 329-338

New chondrichthyan microremains from several Frasnian-Famennian sections in the Holy Cross Mountains and Dębnik area (Southern Poland) are investigated and compared to previous data. The reaction of different groups of chondrichthyans to environmental changes during the Kellwasser Event is analysed. Following the extinction of phoebodont sharks of *Phoebodus bifurcatus* group before the end of the Frasnian, only two chondrichthyan species, viz. *Protacrodus vetustus* Jaekel, 1921 and *Stethacanthus resistens* sp. nov. (possibly closely related to "*Cladodus*" *wildungensis* Jaekel, 1921), occur in the upper part of Frasnian *Palmatolepis linguiformis* conodont Zone and persist into the Famennian. Global cooling is considered a possible cause of the extinction of Frasnian subtropical phoebodonts on Laurussian margins.

**Key words:** Chondrichthyes, Kellwasser Event, Devonian, Poland.

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