

Upper Silurian Graptolite Zonation of the Polish Part of the East European Platform

Lech Teller¹

The Paleozoic sedimentary cover of the Polish part of the EEP was recognized on an area about 100.000 km². It did not underwent faulting during the Caledonian time. Their boundary with the Paleozoic platform runs obliquely along the Tornquist-Teisseyre lineament from Koszalin in the NW to Ruda Lubycka in the SE.

The sedimentary cover was penetrated by hundreds or so deep boreholes mainly in the 50-70s. The Silurian was pierced or only stated in most of the boreholes. Two main, almost fully cored wells the Mielnik IG.1 located in the Podlasie Depression and the Chelm IG.1 drilled in the Bug depression contains very rich Upper Silurian graptolites. The Mielnik IG.1 graptolites were worked out already in the 70s by Urbanek (1966,1970,1971) but the late Ludfordian assemblage was finished last year. The Chelm IG.1 graptolite zonation was published in 1964 (Teller 1964) but their revision has been undertaken also last year. Both sections and their graptolite content are standard one for Ludlow and Pridoli Series of the Polish biostratigraphical graptolite zonation. They can be correlated with almost all sections all over the world where the time equivalent sediments with graptolites are present (the Prag Basin, Podolia and Wolhynia, Tian-Shan, Kazakhstan, Arctic Canada). The following standard graptolite zonation is proposed for the Polish Ludlow and Pridoli Series:

¹ Institute of Paleobiology of the Polish Academy of Sciences, 02-089 Warsaw, Poland

Standard Graptolite Zonation for the Polish Ludlow and Pridoli (L. Teller)		
PRIDOLI		TRANSGREDIENS
		PERNERI
		BOUCEKI
		SAMSONOWICZI
		CHELMIENSIS
		LOCHKOVENSIS
		ULTIMUS
		PARULTIMUS
LUDLOW	Ludford	SPINEUS
		ACER
		BALTICUS
		KOZLOWSKII
		INEXPECTATUS
		AURICULATUS
		LEINTWARDINENSIS
		Gorstian
	NILSSONI	