

SUMMARY

Janików Limestones – specific facies of Turonian (Upper Cretaceous) in Poland

The whole sequence of Upper Cretaceous deposits, one of the most important in Europe, crop out along the middle course of the Vistula River between Annopol and Puławy (Central Poland). It represents the time span since Albian up to Paleocene and was described by several authors (Łuniewski 1923, Pożaryski 1948, Walaszczyk 1987, 1992, Błaszkiwicz 1980). A part of them is protected in the Kazimierz Landscape Park. Turonian deposits are developed mainly as white opokas with cherts containing numerous fossils (inoceramids and ammonites). In the area between Ożarów and Zawichost an exceptional facies of this stage occurs (Fig. 1). These are thick-bedded detritical or organodetritical limestones, called the “Janików Limestones”. They are composed predominantly of limestone grains and faunal remains. Broken skeletons of *Bryozoa* accompanied by skeletons of *Echinodermata*, as well as fragments of mollusc and brachiopod shells are main rock-forming components with an admixture of quartz and glauconite. Limestones are thick-bedded and contain numerous black siliceous cherts. Best outcrops are in the temporary working quarry and in an old abandoned quarry situated close to one another (Figs. 2, 3). A relatively rich assemblage of foraminifers has been found here. It contains 22 species including a few ones, indicating the age of Lower/Upper Turonian, zones with *Inoceramus lamarcki* and *Inoceramus costellatus* (Figs. 4, 5, Tab. 1).

Bryozoan limestones from Janików correspond with the upper member of the Touronian stratotype from the Cher River Valley in France, described as Touraine Limestones. They represent a typical bryozoan facies, similar to these from Poland. The lower member of the French type profile (marly limestones from Fretevou) contains an assemblage of foraminifers, resembling this one found in Poland (Butt 1966). In consequence Janików Limestones as a specific facies of the Polish Turonian can be indicated as the equivalent of deposits from the stratotype of this stage. The mentioned quarries should be protected as geological documentary site, such as another one – outcrop in Opoczka Mała on the right bank of the Vistula River near Annopol (Fig. 1). Typical facies of the Polish Turonian – white opokas with cherts occur there.