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THE YOUNGER TERTIARY DEPOSITS IN THE GOZDNICA REGION

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Abstract: The results of geological, lithostratigraphical, palynological and macrofloristic studies of profiles obtained from outcrops and boreholes in the Gozdnica region of south-western Poland are presented. The geological and palynological studies of the Neogene deposits of the rock series (from the Mużaków Series, through the Brown-coal seam Henryk and the Poznań Series to that of Gozdnica) permitted the presentation of a stratigraphical reference profile for the south-western marginal part of the Poznań Series basin in the Sudetic Foreland. On the basis of the fossil fruits, seeds, leaves and shoots present in the deposits of the Gozdnica Series from the Gozdnica and Gozdnica-Stanisław outcrops and on the basis of palynological analysis, the age of the deposits was determined as Pannonian. Mixed *Pinus-Sequoia-Fagus* forest with a significant proportion of the palaeotropical element (33%) and with plants typical of the so-called younger mastixioidean floras, was characteristic the prevailing plant community. The results obtained make it possible to reconstruct changes occurring in the vegetation from the Badenian to the Early Pliocene in western Poland, to determine the climate and palaeogeographical conditions and to date the rock series of the Younger Neogene.

Key words: fruits, seeds, leaves, shoots, wood, inflorescences, sporomorphs, cuticular analysis, younger mastixioidean flora, palaeogeography, biometry, taxonomy, Late Miocene, Lower Silesia, Poland

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