

USING INDICATORS IN ASSESSING GEOECOSYSTEM
IN SOUTH-WESTERN PART OF THE ŚWIĘTOKRZYSKIE MOUNTAINS

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Key words: indicators, precipitations, Białe Zagłębie

Summary

This paper evaluates the functioning of a geoecosystem located in the south-western part of the Świętokrzyskie Mountains, in the so-called White Basin, using selected indicators. For this purpose, precipitation quality indicators based on the classification proposed by Jansen et al. (1988) were used. Their use enabled a deeper cause-and-effect assessment of the environment in the studied geoecosystem. The analysis used test results covering the years 2004–2013. The analysis of the pH indicator showed that the weighted average precipitation for the period of the study was pH 5.37. Comparing this information to the results from the literature it should be noted that the pH value of water coming in the form of direct precipitation is slowly decreasing, which can be seen as a direct result of the reduction in emissions of particulate matter in the studied area. It should also be noted that the indicators used enable the evaluation of the changes in the functioning of a geoecosystem. They help confirm a number of processes and changes taking place in the environment. The studies show an observable regularity in that the water cycle is essential for the functioning of the geographical environment.