## ALGAL VEGETATION IN RUNNING WATER AND SPRING BOGS OF PIENINY NATIONAL PARK (WEST CARPATHIAN MTS)

by

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The aims of the present project are:

1. to define algal vegetation in the running waters and spring bogs

2. to evaluate the ecology of the algal taxa found

3. to assess the algal vegetational changes in relation to the effects of future optimal management

Field method. Algal material was scraped mostly from stones at each station. At the same time environmental factors were measured or estimated.

Numerical method. The dataset was treated statistically (Clustar program, Sneath et Sokal 1973) The electron microscope was used for precise diatom identification.

Results. The study deals with the qualitative and quantitative analyses of algal vegetation in running waters and spring bogs of the Pieniny National Park. Algae were collected in 1987-1988. About 200 taxa are reported. Some of them were previously unknown for the Pieniny Mountain. These are: Staurastrum lapponicum (Schmidle) Grönbl., Closterium pritchardianum Archer, C. leibleinii Kütz., C. littorale Gay, C. lunula Nitzsch., Cosmarium tetraophtalmum Breb., C. crenatum Ralfs, C. subcrenatum Hantzsch., C. pokornyanum (Grun.) West et G. S. West, C. holmiense Lund var. integrum Lund., C. didymochondrium Nordst., C. laeve Rabenh., C. regnelli Wille, Actinotaenium cucurbita (Breb.) Teil., Pediastrum integrum Nä. g. Monoraphidium fontinale Hindak, Scenedesmus armatus Chodat. The total dataset of 13 biotopes and about 200 algal taxa was treated using a numerical method.

## References

Mrozińska-Webb T. 1976. A study on epiphytic algae of the order Oedogoniales on the basis of materials from Southern Poland. Fragm. Flor. et Geobot. 22(1): 147-227. Mrozińska, T. 1982. Algae. In: K. Zarzycki (ed.) The nature of the Pieniny Mts (West Carpathians) in face of the coming changes. (in Polish) PWN. Warszawa, Kraków.