CONTRIBUTION TO THE KNOWLEDGE OF EUGLENOPHYTA IN POLAND

by

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The investigation aims at collecting and identifying Euglenophyta occurring in the Cracow-Częstochowa Highland. The investigation is considered to be part of a future critical elaboration of the whole division in the series "Flora Polski" ("Flora of Poland").

The study was started in 1985 and is being carried out on our own material, samples being collected from the country and field ponds, fish ponds, dam reservoirs, swamps, pools and also springs and streams.

Taxonomic studies are conducted on fresh samples kept in refrigerator, and also in lamplight, using light and electron (SEM) microscopes. For morphological examination it is necessary to maintain axenic and unialgal cultures.

Nearly 130 taxa belonging to the genera Euglena, Phacus, Lepocinclis, Trachelomonas and Strombomonas have been found so far by the author. Also colourless Assasia, Menoidium and the subgenus Hyalophacus are especially interesting as they are rarely recorded in Poland. (In the publications referring to the area under investigation only 64 taxa are recorded).

As comparative material, the Euglenophyta from the neighbourhood of Tu rebou n in Czechoslovakia have been collected and identified.

part of the profile while in the higher carried throughouted Cyclotella because single appainted on were absent. Stephanodiscus and Aulacosine species were consulted and interpolated the throughoute on the basis of the changes in diatom essemblages observed in the Ferdynandow profile five zones.

The Ferdynandów profile is closely related to the profile of the same age found in Byelorussis, therefore cooperative research with O. K. Ehursevich and L. P. Loginova from the Institute of Geochemistry and

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of Octotella, Stephanodiscus and Aulecosim species. Octotella species were optimento in

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