## AEROPHYTIC ALGAE FROM BIALOWIEŻA NATIONAL PARK (NE POLAND)

by

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## Aims

- 1. to define aerophytic algae occurring on different trees and in their surroundings
- 2. to distinguish characteristic species for kind of tree and type of macrophyte communities

Method. Bark samples were collected into cellophane bags by gently scraping the trunks with sterile razor blades. In the laboratory the samples were added to 125-ml Erlenmeyer flasks containing 50 ml each of sterile Bristol's solution or streaked into the surface of Bristol's agar medium in petri dishes. These culture vessels were maintained in a growth chamber under light provided by 60-w fluorescent lamps on a cycle of 12 hr and 12 hr darkness. Unialgal cultures were obtained using the following procedure: Algal material was streaked onto the surface of Bristol's agar medium in petri dishes using a transfer needle. By means of a needle and streoscopic binocular microsope at 30x magnification small amounts of algal growth were placed onto fresh sterile Bristol's agar plates. Streaking was repeated in this manner to better insure that unialgal cultures were obtained.

Results. 37 taxa are reported, belonging mainly to 2 taxonomic groups. These are: Chlorophyceae and Xanthophyceae. The most interesting species are: Lobococcus macronucleatus (Deason) Bourr., Apodochloris polymorpha (Bischoff et Bold) Komarek, Tetracystis sarcinalis Schwarz, Chloroccocum lobatum (Korschikoff) Fritsch et John. I have distinguished a new species: Trentepohlia bialowiesensis Mroz.

## References

Mrozińska, T. (in press). Aerophytic algae from North Korea. Alg. Studies. Mrozińska, T. (in press). Three new taxa of *Trentepohlia (Trentepohliales)* and *Tetracystis (Chlorococcales)* from Białowieża National Park. Nova Hedwiga.