

**Kiziewicz, B. & Kurzątkowska, A.** 2004. Aquatic fungi and fungus-like organisms isolated from surface waters situated near Białystok in Podlasie Province of Poland using the insect *Notonecta glauca* as bait – Mycologia Balcanica 1: 117-123.

**Abstract.** The growth of aquatic fungi and fungus-like organisms on the predatory heteropter *Notonecta glauca* was investigated in laboratory conditions. Water samples were collected from four sites varying in trophicity: Cypisek Spring, Biała River, Supraśl River, and Komosa Lake situated near Białystok. Certain physico-chemical parameters were determined in the samples. The highest contents of carbon dioxide, ammonium nitrogen, phosphates, and chlorides were noted in Biała River. Twenty-eight fungi and fungus-like organisms were isolated from *Notonecta glauca*, including 6 species of Chytridiales, 2 species of Blastocladales, and 20 species of oomycetes. Fourteen fungi and fungus-like organisms were identified in Cypisek Spring, 8 in Biała River, 17 in Supraśl River, and 10 in Komosa Lake. Worthy of note is the finding of some aquatic fungi which have been commonly encountered on chitin-containing substrata, namely *Aphanomyces astaci*, *A. amfigynus*, *Chytromyces hyalinus*, *Phlyctorhiza endogena*, *Podochytrium chitinophilum*, *Rhizidium chitinophilum*, and *Rh. nowakowskii*.

**Key words:** aquatic fungi and fungus-like organisms, Heteroptera, hydrochemical study, *Notonecta glauca*, Podlasie Province, Poland