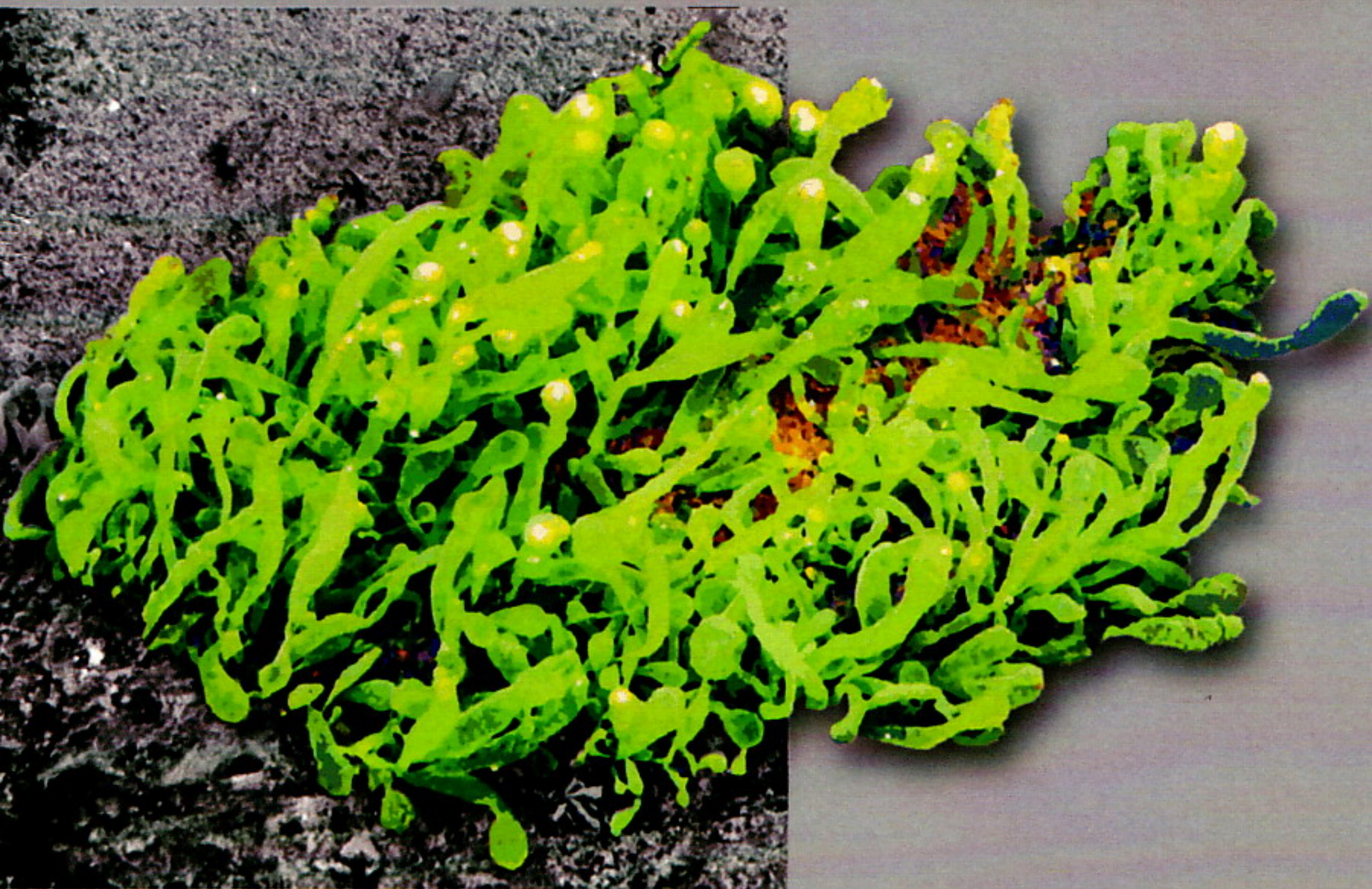


30th International Conference of the Polish Phycological Society

**“The past, present, future of phycological research.
Its signification for man and environment protection”**



DEPARTMENT OF BOTANY AND PLANT ECOLOGY
Wrocław University of Environmental and Life Sciences

WROCŁAW, 19-21 MAY 2011 POLAND

DEPARTMENT OF BOTANY AND PLANT ECOLOGY
Wrocław University of Environmental and Life Sciences

**“The past, present, future of phycological research.
Its signification for man and environment protection”**

Book of Abstract
30th International Conference
of the Polish Phycological Society

Edited by
Jan Matuła, Dorota Richter and Jacek Urbaniak

Wrocław – Pawłowice, Poland
19–21st May 2011

**"The past, present, future of phycological research.
Its signification for man and environment protection"**

Wrocław – Poland, 19–21st May 2011

**ALGAE OF DESNA RIVER AND ITS FLOOD-LAND
WATER BODIES OF DESNIANSKO-STAROGUTSKY
NATIONAL NATURE PARK (UKRAINE)**

Olga Burova¹, Marina Zhezhera²

¹M.G. Kholodny Institute of Botany, National Academy of Sciences of Ukraine,
Phycology Department

²V.N. Karazin Kharkiv National University, Department of Botany and Ecology

Desniansko-Starogutsky National Nature Park is situated in northeast of Ukraine. Its territory belongs to Novgorod-Siverskyi District of Ukrainian Polissia. 60 algal samples from rivers Desna, Desenka (that is in fact a branch of Desna river) and theirs flood-land water bodies were analyzed.

Total of 354 species (376 intraspecific taxa – intr. taxa) of algae were found. They belong to 153 genera, 81 families, 42 orders, 19 classes and 9 divisions (according to system of higher taxa presented in Algae of Ukraine (2006, 2009) with the exception of Cyanoprokaryota, presented according to J. Komárek and K. Anagnostidis, 2005). Bacillariophyta is represented by 111 species (126 intr. taxa), Chlorophyta – 97 (101), Cyanoprokaryota – 48, Euglenophyta – 32 (35), Xanthophyta – 24, Streptophyta – 19, Chrysophyta – 16, Dinophyta – 5, Cryptophyta – 2 species. Distribution of algal species in different water bodies is following: 158 species (169 intr. taxa) were revealed in Desna river, 99 (104) – in Desenka and 261 (273) – in flood-land water bodies. Bacillariophyta dominated in all types of water bodies but its role was higher in rivers (up to 48.1% from total number of species in Desna) and decreased in flood-land water bodies (31.0%). The dominant (by number of species) genera are *Desmodesmus* (Chodat) An et al., *Phacus* Duj., *Navicula* Bory, *Nitzschia* Hass., *Gomphonema* (Ag.) Ehrenb.

Some species were very abundant in water bodies of national park. For example, water bloom, caused by the abundant growth of *Ceratium hirundinella* (O.F. Müll.) Bergh, is observed every year. Such species as *Geitlerinema acutissimum* (Kufferath) Anagn., *Anabaena subcylindrica* Borge, *Gloeotrichia natans* (Hedw.) Rabenh., *Collacium cyclopicola* (Gickl.) Woron. et T.G. Popova, *Cocconeis placentula* Ehrenb., *Pandorina morum*

(O.F. Müll.) Bory, *Chaetophora elegans* (Roth) C. Agardh et al. were characterized by high index of abundance (3-5 according to K. Starmach, 1955). During our study 21 taxa that are rare for Ukraine were revealed; among them *Anabaena oscillarioides* Bory f. *stenospora* (Bornet et Flahault) Elenkin, *Chrysocrinus irregularis* Pascher, *Chrysopyxis stenostoma* Lauterborn, *Lagynion simplex* (Fott) Fott, *Stephanoporus capillorum* Pascher, *S. scherffellii* Pascher, *Epipyxis lauterbornei* (Lemmerm.) D.K. Hilliard et Asmund, *E. leickii* F. Gessner, *Characiopsis obliqua* Pascher, *Ch. richiana* Pascher, *Chlorarkys reticulata* Pasch are new for Ukrainian Polissia.