

CONTENTS

THE INSTITUTE, SCIENTIFIC COUNCIL	5
INSTITUTE STAFF AND FIELD OF WORK	6
1. INTRODUCTION	8
1.1 Projects	8
1.2 Consultancies	10
1.3 Report on Finances	11
1.4 Presentations of HBI Members at International Conferences	12
1.5 Stays Abroad	14
1.6 Foreign Visitors to Hydrobiological Institute	16
1.7 Students' Theses Finished in 2005	16
2. RESERVOIRS	17
2.1 Dissolved and Dispersed Substances in Reservoir Water (Slapy and Římov)	17
2.2 Microbial Characteristics, Chlorophyll and Zooplankton Biomass of the Reservoirs Slapy and Římov	18
2.3 Fish Stock Composition in the Římov Reservoir in 2005	19
2.4 Changes in Biomass of Zooplankton 1999–2005 as Induced by the Great Flood	20
2.5 Picoplanktic Cyanobacteria from the Czech Freshwater Reservoirs, their Abundance, Genetics and Morphology	21
2.6 Summer Changes of Cyanobacterial Bloom Composition and Microcystin Concentrations in Czech Reservoirs	22
2.7 Dynamics of Morphology and Growth of Daphnia as a Response to Spatio-Temporal Heterogeneity of Environmental Conditions	23
2.8 Mechanisms of Coexistence of Daphnia Species and Clones in a Stratified Reservoir with Planktivorous Fish Predation	24
2.9 Seasonal Changes of Bacterial Activity in the Římov Reservoir	25
2.10 Growth Rates of Different Bacterioplankton Groups and Heterotrophic Nanoflagellates in Relation to Phosphorus Availability in a Reservoir	26
3. LAKES	27
3.1 Nutrient Cycling in the Nitrogen-Saturated Mountain Forest Ecosystem: History, Present, and Future of Water, Soil, and Norway Spruce Forest Status	27
3.2 Dependence of Ciliates on APP-Feeding in a Deep Monomictic Saline Lake	28