

# Content / Obsah

<b>Director's preface / Úvod ředitele ústavu</b>	<b>4/5</b>
<b>Departments / Oddělení</b>	<b>8/9</b>
Department of Hydrochemistry and Ecosystem Modelling	8
Oddělení hydrochemie a ekosystémového modelování	9
Department of Aquatic Microbial Ecology	12
Oddělení mikrobiální ekologie vody	13
Department of Fish and Zooplankton Ecology	18
Oddělení ekologie ryb a zooplanktonu	19
<b>Current Research Highlights / Shrnutí nejdůležitějších projektů (v angličtině)</b>	<b>24</b>
The effect of natural dieback of mountain spruce forest on microclimate, chemistry, and biodiversity of terrestrial and aquatic ecosystems	24
Effects of solar radiation on biogeochemical cycling of nutrients and metals in surface waters	25
Centre for Ecological Potential of Fish Communities in Reservoirs and Lakes (CEKOPOT)	26
Get out! she signalized: sex segregation of freshwater fish	26
Phytoplankton extracellular DOC release	27
<b>Recent Research Outputs / Vybrané výsledky (v angličtině)</b>	<b>30</b>
Catchment ecology responding to past and future changes.	30
Projekt GA ČR 526/09/0567 / Integrated effects of climate change, atmospheric pollution, and forest management on headwaters aquatic ecosystems	32
Projekt GA ČR GAP504/11/2177 / The importance of cell death for freshwater phytoplankton succession, structure and composition	33
Genomic studies of the bacteria affiliated within the Limnohabitans genus	34
Genus Limnohabitans, an important freshwater bacterial group, serves as a model for testing responses of natural flagellate communities to different bacterial food quality	37
<b>Data and Statistics</b>	<b>40</b>
Regular monitoring of the reservoirs Slapy and Římov: dissolved and dispersed substances in reservoir water	40
Regular monitoring of the reservoirs Slapy and Římov: microbial characteristics, chlorophyll and zooplankton	41
Projects	42
Students' theses finished in 2013	44
Publications	45