

Content / Obsah

Awards / Ocenění	6 / 7
Director's preface / Úvod ředitele ústavu	8 / 9
Departments / Oddělení	12 / 13
Department of Hydrochemistry and Ecosystem Modelling	12
Oddělení hydrochemie a ekosystémového modelování	13
Department of Aquatic Microbial Ecology	16
Oddělení mikrobiální ekologie vody	17
Department of Fish and Zooplankton Ecology	22
Oddělení ekologie ryb a zooplanktonu	23
Current Research Highlights / Aktuální body výzkumu	28
Metagenomic recovery of phage genomes of uncultured freshwater actinobacteria	28
Metagenomická rekonstrukce genomu virů infikujících nekultivovatelné sladkovodní aktinobakterie	28
The adventure of shallow water hydroacoustics	30
The research of plant-associated microbiomes at the Department of Aquatic Microbial Ecology (AME)	31
Recent Research Outputs / Vybrané výsledky	32
Unveiling life strategies of important groups of planktonic Betaproteobacteria in relationship to carbon flow to higher trophic levels	32
Phytoplankton responses to environmental forcing – lessons learned from 30-year monitoring of the Římov Reservoir	38
Do long-term zooplankton data in the Slapy Reservoir reflect land use and/or climate changes in the past 50 years?	39
The effect of solar light on key members of freshwater Betaproteobacteria	42
Changes in fish isotopic signals: linking land use and reservoir food webs	44
Structuring effect of submerged macrophytes on trophic relationships and distribution of fish in deep lakes (MacFish)	45
Data and Statistics	46
Regular monitoring of the reservoirs Slapy and Římov: dissolved and dispersed substances in reservoir water	46
Regular monitoring of the reservoirs Slapy and Římov: microbial characteristics, chlorophyll and zooplankton	47
Projects	48
Students' theses finished in 2017	50
Publications	51