

13th International Symposium on Aquatic Oligochaeta









BRNO, CZECH REPUBLIC, 7-11 SEPTEMBER 2015

Book of Abstracts





Book of Abstracts

13th International Symposium on Aquatic Oligochaeta Brno, Czech Republic, 7-11 September 2015

> Organized by Department of Botany and Zoology, Faculty of Science, Masaryk University, Brno

> > Editor: Jana Schenková

Reference

SCHENKOVÁ Jana (Ed.). 13th International Symposium on Aquatic Oligochaeta: Book of Abstracts. Brno, Masaryk University, 2015.

Organizing Committee

Chair: Jana Schenková, Masaryk University, Brno, CR

Co-chair: Mark J. Wetzel, Illinois Natural History Survey, Champaign,

Illinois, USA

Members: Michal Schenk, Arcus Engineering, Brno, CR

Martina Bílková, Masaryk University, Brno, CR Michal Horsák, Masaryk University, Brno, CR Veronika Horsáková, Masaryk University, Brno, CR

Dana Hřívová, Masaryk University, Brno, CR

Petr Pařil, T. G. Masaryk Water Research Institute, CR

Marek Polášek, Masaryk University, Brno, CR Vendula Polášková, Masaryk University, Brno, CR Jiří Schlaghamerský, Masaryk University, Brno, CR

Jana Zahrádková, T. G. Masaryk Water Research Institute, CR

Published by

Masaryk University, Žerotínovo nám. 671/9, 601 77 Brno, 1. edition, 2015

ISBN 978-80-210-7910-6 (paperback)

ISBN 978-80-210-7911-3 (online: pdf)

Print

Tiskárna Matula, Olomoucká 27, 618 00 Brno, CR

Note

Abstracts in proceedings were not reviewed; authors are responsible for the content and formal validity of their contributions.

International Scientific Advisory Committee

Chair: Mark J. Wetzel, Illinois Natural History Survey, Champaian, Illinois, USA

Members: Naime Arslan, Department of Biology, Faculty of Arts and Sciences, Eskisehir Osmangazi University, Eskisehir, Turkey

> Christer Erséus, Swedish Museum of Natural History, Stockholm, Sweden

> Patrick Martin, Royal Belgian Institute of Natural Sciences, Bruxelles, Belgium

> Adrian Pinder, Department of Parks and Wildlife, Bentley Delivery Centre, Western Australia

> Pilar Rodriguez, University of Basque Country UPV/EHU, Leioa-Bizkaia, Spain

> Jana Schenková - Symposium Host and Organizer - Department of Botany and Zoology, Faculty of Science, Masaryk University, Brno, Czech Republic

> Tarmo Timm, Estonian University of Life Sciences, Centre for Limnology, Rannu, Tartumaa, Estonia

> Piet Verdonschot, DLO Institute for Forestry and Nature Reserch, Wageningen, the Netherlands

ABSTRACTS ORAL

The groundwater oligochaetes (Annelida, Clitellata) from the "Parc du Mercantour" (France)

Patrick Martin (1), Michel Creuzé des Châtelliers (2), Rüdiger Schmelz (3) & Marie-José Olivier (4)

(1) Institut royal des Sciences naturelles de Belgique, Biologie des Eaux douces, 29 rue Vautier, B-1000 Brussels, Belgium; (2) Université de Lyon, UMR5023 Ecologie des Hydrosystèmes naturels et anthropisés, Université Lyon 1, ENTPE, CNRS, 6 rue Raphaël Dubois, 69622 Villeurbanne, France; (3) ECT Oekotoxikologie GmbH, 61459 Flörsheim, Germany & Universidad de A Coruña, Fac. Ciencias, Dep. Biología Animal, Biol. Vegetal, y Ecología, Rua da Fraga 10. E-15008 A Coruña, Spain; (4) Université Lyon 1, CNRS, UMR 5023 - LEHNA, Laboratoire d'Ecologie des Hydrosystèmes Naturels et Anthropisés, Bât, Forel, F-69622 Villeurbanne Cedex, France

Although recognized as an outstanding hotspot of biodiversity for both flora and fauna, the Mercantour massif remains almost totally unexplored for its groundwater fauna. This work reports the first overview on groundwater oligochaete assemblages of the "Parc du Mercantour" after a standardized exploration of both consolidated (fractured massif) and unconsolidated (porous) aquifers. About 40 species of oligochaetes were found in 49 stations representative of the main hydrogeological basins of the "Parc du Mercantour", from both spring and hyporheic zone habitats. Five stygobiont species are identified, probably all new to science, of which two species are formally described, Aberrantidrilus stephaniae n. gen., n. sp. (Naididae, Phallodrilinae) and Marionina sambugarae n. sp., a species belonging to the widespread Marionina argentea species complex (Enchytraeidae). As a result, the genus Abyssidrilus Erséus, 1992 is now restricted to its marine, abyssal species. A dozen of species can be considered as stygophiles. Most stygobiont species are recorded from hyporheic habitats, and stygophiles have a more balanced distribution between both kinds of habitats. The nearly absence of stygoxene species from the hyporheic zone suggests that this habitat is less affected by the epigean environment than springs. The dominance of enchytraeids among the groundwater oligochaete fauna is here confirmed, and the lumbriculid genus Trichodrilus is also a characteristic faunistic element of the underground freshwater oligochaete communities. Lastly, the possibility that Aberrantidrilus cuspis n. comb. sensu Sambugar et al. (1999) is a complex of cryptic species is discussed in the framework of recent progress in the knowledge of groundwater biodiversity, and following an integrative taxonomy approach (morphology and molecular data).