

4<sup>th</sup> International Conference  
 on the Status and Future of the  
**WORLD'S LARGE RIVERS**



Ob (Katur)



Murray-Darling



Congo



Amazon



Mississippi



Volga



3.-6. August 2021,  
 Moscow, Russia // Online

**CONFERENCE PROGRAMME**





## Contents

Welcome	3
International Scientific Committee	4
International Partners	5
Local Organizing Committee	6
Local Organisers & Co-Organisers	7
Partners	11
Information from Lomonosov Moscow State University	13
Journal Publication	18
Conference Information	20
Instructions for Presenters	21
Conference Topics	23
Conference Programme Overview	24
Zoom-Links for Attending the Meeting	25
World's Large Rivers Initiative Meeting	27
Keynote Speakers	29
Invited Speakers	30
Daily Conference Programme	31
Oral Sessions	35
Poster Sessions	48
Abstracts of Presentations	56
Abstracts of Supported Participation	297





## Welcome to the International Conference on the Status and Future of the World's Large Rivers

On behalf of the Local Organizing Committee and the International Scientific Committee we want to warmly welcome you to the 4<sup>th</sup> International Conference on the Status and Future of the World's Large Rivers which will be held as online event hosted by Moscow State University, Russia.

The pressures and impacts on the World's Large Rivers have increased greatly in recent years, as a consequence of their exploitation to meet human needs. Large rivers are particularly exposed to problems of multiple uses, often with conflicting aims. At the global scale, there is no overview assessment of the current status of the World's Large Rivers, the conflicting demands on such rivers, and likely future anthropogenic impacts, as well as the potential for restoration and the associated problems.


In 2011 the first International Conference on „**The Status and Future of the World's Large Rivers**“ in **Vienna, Austria**, provided a global forum for a wide-ranging discussion of key issues related to research on large rivers and to their effective and sustainable management, involving both scientists and decision makers. This successful event was continued in **Manaus, Brazil** at the fascinating Amazon River in 2014 and then in **New Delhi, India** in 2017. Now, we have the pleasure to meet again – even though it is only virtually this time – hosted by Moscow State University.

We wish you interesting scientific talks and discussions and hope that you will also join our online social events like Ice Breaker and the World's Large Rivers Initiative Meeting!



  
**Nikolay Kasimov**  
Co-Chair of  
Local Organizing Committee



  
**Sergey Dobroliubov**  
Co-Chair of  
Local Organizing Committee

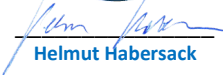


  
**Natalia Frolova**  
Co-Chair of  
Local Organizing Committee




  
**Sergey Chalov**  
Co-Chair of  
Local Organizing Committee



  
**Helmut Habersack**  
Initiator and Chair of the  
Scientific Committee

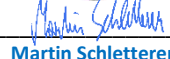


  
**Bernhard Schober**  
Conference Secretariat



  
**Michael Tritthart**  
IT Coordinator



  
**Martin Schletterer**  
Co-Organiser of the  
Scientific Committee



## International Scientific Committee

**Prof. Helmut Habersack (ISC-Chair & Initiator)**

**Bernhard Schober (Organizing Secretary)**

**Michael Tritthart (IT Coordinator)**

*BOKU - University of Natural Resources and Life Sciences, Vienna, Austria*

Martin Schletterer

*TIWAG-Tiroler Wasserkraft and*

*University of Natural Resources and Life  
Sciences, Vienna, Austria*

Gado Djibo Abdourahmane

*Hydrology Expert, Mali*

Luna Bharati

*International Water Management Institute,  
Nepal*

Ian Campbell

*Monash University, Melbourne, Australia*

Ali Chavoshian

*Regional Centre on Urban Water Management,  
Iran*

Francis Chiew

*Water Resources Assessment and Prediction,  
Australia*

Naziano Filizola

*Federal University of Amazonas, Manaus,  
Brazil*

Jerker Jarsjo

*Stockholm University, Sweden*

Daniel Karthe

*German-Mongolian Institute for Resources and  
Technology, Mongolia, Germany*

Joong Hoon Kim

*Korea University, Seoul*

Mathias Kondolf

*Lyon Institute of Advanced Studies / University  
of California Berkeley, USA*

Gil Mahé

*Institute of Research for Development, IRD,  
France / FRIEND*

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*Delft University of Technology and Deltares,  
The Netherlands*

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*Rice University, Houston, United States of  
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*National Centre for Scientific Research, France*

Des Walling

*University of Exeter, UK*

Frank Winde

*North West University South Africa, IGU Water  
Commission, SAR*

Wang Xiaojun

*Nanjing Hydraulic Research Institute, Ministry  
of Water Resources, China*



## International Partners

### UNESCO – INTERGOVERNMENTAL HYDROLOGICAL PROGRAMME

We cordially want thank UNESCO United Nations Educational, Scientific and Cultural Organization represented by IHP Intergovernmental Hydrological Programme for its continuing and generous support. With the help of UNESCO in cooperation with BOKU and MSU many participants from developing countries, students and members of NGOs were enabled to present their work in this abstract book (see chapter “Supported Participation”).



#### IAHR

**INTERNATIONAL ASSOCIATION FOR HYDRO-ENVIRONMENT, ENGINEERING AND RESEARCH**



#### IAHS

**INTERNATIONAL ASSOCIATION OF HYDROLOGICAL SCIENCES**



#### WASER

**WORLD ASSOCIATION FOR SEDIMENTATION AND EROSION RESEARCH**



#### IAG

**INTERNATIONAL ASSOCIATION OF GEOMORPHOLOGISTS**



#### SIL

**INTERNATIONAL SOCIETY OF LIMNOLOGY**



## Local Organizing Committee

Nikolay Kasimov (LOC-Chair)

*Lomonosov Moscow State University, Russian  
Geographical Society*

Sergey Dobroliubov (Vice-Chair)

*Lomonosov Moscow State University - Faculty  
of Geography*

Natalia Frolova (Vice-Chair)

*Lomonosov Moscow State University - Faculty  
of Geography*

Sergey Chalov (Vice-Chair, General Secretary)

*Lomonosov Moscow State University - Faculty  
of Geography*

Olga Gorelits

*Russian National Committee IHP*

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*Federal Service for Hydrometeorology and  
Environmental Monitoring of Russia*

Alexander Bedritsky

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Institute*

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Peter Zavialov

*Russian Academy of Sciences - P.P. Shirshov  
Institute of Oceanology*

Sergey Pozdniakov

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Yury Fedorov

*Rostov State University*

Vladislav Rumyantsev

*Limnological Institute SB RAS*

Anatoly Tsyplenkov (secretary)

*Lomonosov Moscow State University - Faculty  
of Geography*



## NEMATODE FISH PARASITES IN THE DANUBE RIVER - BELGRADE SECTION

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Parasitic species of freshwater fishes represent a large group of organisms including either adults or larval stages. Macroparasites - Nematode (round worms) infect many different species of aquacultured and wild fish. Adult forms are typically found in fish digestive tract.

The present work covers the investigation of nematode parasites of fish from the Belgrade section of the Danube River. During the ichthyoparasitological study we have collected and examined 22 freshwater fish species from families Cyprinidae (14), Esocidae (1), Percidae (4), Centrarchidae (1), Gadidae (1) and Siluridae (1). A total of 802 fish specimens have been examined and 54.86% were infected. In the intestine of 12 infected fish species have been found 9 species of Nematode parasites - *Hysterothylacium bidentatum* (Linstow, 1899), *Contraecaecum siniperca* (Dogiel & Achmerov, 1946), *Contraecaecum* sp. juvenile (Railliet & Henry, 1912), *Camallanus lacustris* (Zoega, 1776), *Camallanus truncatus* (Rudolphi, 1814), *Camallanus* sp. juvenile (Railliet & Henry, 1915), *Philometra rischta* (Skrjabin, 1923), *Rhabdochona denudata* (Dujardin, 1845) and *Rhabdochona hellichi* (Šrámek, 1901). During investigation, species *Philometra rischta* has been marked off ("heat parasite"), infesting a four fish species (*Blicca bjoerkna*, *Leuciscus idus*, *Perca fluviatilis*, *Sander lucioperca*) with prevalence of infestation 1-17. Fish species with a great number of nematode parasites in intestines was *Lota lota* (four), while other were infected with one or two parasites.

**Keywords:** freshwater fish; intestinal parasites; Nematode; infestation; Danube River; Belgrade section; Serbia