



United Nations
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Intergovernmental
Hydrological
Programme



International Sediment Initiative



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International Centre
for Water Resources and Global Change
under the auspices of UNESCO



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United Nations
Educational, Scientific and
Cultural Organization



International Research
and Training Center on
Erosion and Sedimentation

Call for Applications

Online Training Workshop on “River Basin Sediment Monitoring and Management”

Organized by:

The International Centre for Water Resources and Global Change (ICWRGC)
German Federal Institute of Hydrology (BfG)

In collaboration with:

The International Research and Training Centre on Erosion and
Sedimentation (IRTCES) – UNESCO category 2 centre and the International
Sediment Initiative (ISI) of UNESCO-IHP

Date: September 6-10, 2021

Workshop language: English

Costs: Free of charge

Organizational team: Thomas Hoffmann (BfG), Renee van Dongen (ICWRGC),
Anil Mishra (UNESCO-IHP), Liu Cheng (IRTCES)

Contact: events-icwrgc@bafg.de

Application deadline: June 20, 2021

Website: <http://isi.irtces.org/isi/NewsEvents/comimgevents/webinfo/2021/05/1619300941493185.htm>

Workshop description

This online training workshop focuses on training and capacity-building in the field of river sediment monitoring and management. In this training workshop, we teach about sediment monitoring techniques, data analysis methods and management practices. This workshop will concentrate on monitoring and management of sediment in rivers and will not include topics such as hillslope erosion and soil conservation.

Workshop schedule

To make sure that participants from many different time zones can attend this workshop, it combines prerecorded lectures, self-study exercises and a daily live Q&A session of 2 hours:

Date	Time (CEST)	Program item
Monday, September 6	2-4 pm	Opening ceremony, keynote lecture.
	After 4 pm	Start self-study course block 1: Sediment-related challenges and river basin management.
Tuesday, September 7	2-4 pm	Live Q&A session course block 1: Sediment-related challenges and river basin management.
	After 4 pm	Start self-study course block 2: Suspended sediment monitoring and data analysis.
Wednesday, September 8	2-4 pm	Live Q&A session course block 2: Suspended sediment monitoring and data analysis.
	After 4 pm	Start self-study course block 3: Bedload sediment monitoring and data analysis.
Thursday, September 9	2-4 pm	Live Q&A session course block 3: Bedload sediment monitoring and data analysis.
	After 4 pm	Start self-study course block 4: Global sediment databases
Friday, September 10	1:30-2:30 pm	Live Q&A session course block 4: Global sediment databases
	2:30-4:30 pm	Case study presentations & closing ceremony

Who can apply for this workshop?

We encourage you to apply for this workshop if:

- You have a background in geosciences (hydrology, geography, etc.), civil engineering or related disciplines.
- Your current future job involves working on topics related to sediment transport in river basins.
- You need extra training and support to improve your knowledge of sediment monitoring techniques, sediment data analysis and river basin management.
- You have a basic knowledge of working with R Studio.

Regional case studies under guidance of an expert (optional)

We provide the opportunity for selected participants to evaluate a regional sediment-related case study under supervision of a workshop lecturer. A regional study should highlight challenges facing sediment monitoring and management to solve sediment-related issues in a particular region. The focus of the regional case study will be on developing or evaluating monitoring concepts, data presentations and analyses. High-quality regional studies will be included in a joint UNESCO ICWRGC report.

The case studies will follow the following procedure:

- If you are interested to work on a sediment-related study from your region, please mention this in your application, provide a short motivation on the context of your regional study and an overview of available sediment data.
- Based on the applications, the organizational team will select up to ten regional case studies. If your regional study is selected, you will be connected to a workshop lecturer who will guide you through the process.
- You will present the preliminary results from your regional study during the workshop. We will discuss your study with all participants and lecturers.
- After the workshop, you will implement the feedback and include additional data analysis based on the methods that you learned during the workshop.
- The selected regional studies will be compiled and published as an UNESCO-IHP and ICWRGC workshop output report.

The requirements for a regional study are as follows:

- You can define a sediment-related issue from a particular region.
- You can provide river discharge and sediment transport data which are related to your regional study.
- You are keen to report, present and discuss your case study during the training workshop.
- You agree to publish the regional study in the workshop report.

How to apply?

To apply for participation in this workshop, send an email including a motivation letter and your CV to events-icwrgc@bafg.de before **20.06.2021**.

The motivation letter should cover:

- Your educational and professional background.
- Your experience in sediment monitoring and management.
- Whether you have a basic knowledge of R-Studio
- Optional: Whether you would like to prepare a case study fitting the description above, together with the workshop organizers. Please provide a short description of the region, the sediment-related problem and the data you can provide for data analysis.