

7th Summer School

Water in the Aral Sea Basin under Climate Change - Management and policy challenges from data and knowledge perspectives

1 Dates & Venue

Dates: 14 – 25 June 2021



Venue: online via zoom

2 Description

The Summer School will introduce into innovative methods and tools for the analysis and monitoring of water and land resources in Central Asia. These methods are of great value in a framework of integrated water and land resources management.

The 2-week Summer School will combine theoretical lectures and practical exercises with discussion sessions on the implementation of new methods and tools in managing water and land resources in Central Asia. The programme will include an in-depth introduction into geographical information systems (GIS), an overview on remote sensing applications for land and water resources monitoring, an introduction into climatological data analysis and an introduction to GRACE. For the practical exercises in data analysis, the participants will use open source tools such as QGIS (www.qgis.org) for spatial analysis, and R (www.r-project.org) for statistical analysis.

The Summer School is organized within the frame of the CAWA-Green project as contribution to the Part of the Green Central Asia Initiative launched by the German Federal Foreign Office (Project period 2020-2022).

Programme details will be published at the CAWA Green Project www.cawa-project.net website in due time.

Language

The courses will be given in English, hence the knowledge of English language is a prerequisite to participation.

Lecturers

- Prof. Dr. Christopher Conrad (Martin Luther Universität Halle Wittenberg, Institute of Geosciences and Geography, Halle, Germany)
- Dr. Tilo Schöne (GFZ German Research Centre for Geosciences, Potsdam, Germany)
- Dr. Abror Gafurov (Section Hydrology, GFZ German Research Centre for Geosciences, Potsdam, Germany)
- Dr. Anastasia Lobanova (Potsdam Institute for Climate Impact Research, Potsdam, Germany)
- Dr. Muhammad Usman (Martin Luther Universität Halle Wittenberg, Institute of Geosciences and Geography, Halle, Germany)
- Dr. Milena Latinovic (Section Hydrology, GFZ German Research Centre for Geosciences, Potsdam, Germany)

Organizers

CAWa-Green- Project
www.cawa-project.net



German-Kazakh University
Master program "Integrated Water Resources Management"
Almaty, Kazakhstan
www.dku.kz, www.academic-waters.org



Martin-Luther University
Halle Wittenberg, Germany
<https://www.uni-halle.de>



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In cooperation with:

**Deutsche Gesellschaft für internationale
Zusammenarbeit (GIZ) GmbH**
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3 Participation and Funding

The Summer School addresses dedicated young professionals with interest in geoscientific tools for Integrated Water and Land Resources Management and its practical implementation. Eligible are participants from the following Central Asian countries: Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan, as well as Afghanistan.

4 Application

Interested students and researchers are expected to apply via the Summer School online application tool (<https://events.gfz-potsdam.de/online-cawa-green-summer-school-2021>). Applicants are requested to upload their CV and a motivation letter, which described their background and their expectations in detail. All documents have to be provided in English language.

Participants will be selected based on their application documents (motivation letter, CV).

Deadlines

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| Submission of application form and abstract | 14 May 2021 |
| Notification of acceptance | 04 June 2021 |