GIS-Course II

**Objective**

On the basis of the *GIS-course I*, further functionalities with focus on working with raster data will be taught and practical questions of scientists with some first experiences in ArcGIS® will be discussed.

**Description**

The work with raster data will expand the ability of GIS-data mainly in questions with continuous objects (e.g. surface elevation, air temperatures). ArcGIS® provides a wide range of powerful functionalities for generating, querying and analyzing these data.

In the first part (Day 1) of the course basic concepts and functions of the work with raster data will be taught including the use of the extension »Spatial Analyst«.

The second part (Day 2) will give you an opportunity to discuss your own questions and data in a workshop-style.

A questionnaire will be sent to the participants in advance to categorize the different problems and to choose the topics of this course. Work on these selected questions will take place in small groups under guidance of the trainers. The solutions will be discussed in the plenum for the benefit of all participants.

This workshop forms the second part of a series of two workshops. The first part – *GIS Course I* – is offered by GRADE on 3-5 February 2020. Participants of the first part will be given priority in the registration procedure.

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**Organizational Information**

<table>
<thead>
<tr>
<th>Language</th>
<th>English</th>
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<tbody>
<tr>
<td>Target group</td>
<td>Doctoral Candidates at all stages and Postdocs from Natural- and Life Sciences</td>
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<tr>
<td>Date</td>
<td>Thursday-Friday, 6-7 February 2020, 9:00 – 18:00</td>
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<tr>
<td>Registration</td>
<td>For registration click here</td>
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**Trainers**

**Dr. Falko Wagner**

Institut für Gewässerökologie und Fischereibiologie (IGF), Jena

- Has special expertise in the use of GIS ArcView® for problems of aquatic ecology.
- Post-graduate member and scientific assistant, Bauhaus University Weimar
- Lectureship at the University of Applied Sciences Erfurt and Bauhaus University Weimar
- Founder of the Institute for Aquatic Ecology and Fish Biology Jena

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**Dipl. Geographer Osama Mustafa**

Thüringer Institut für Nachhaltigkeit und Klimaschutz (ThNK GmbH), Jena

- Dipl.-thesis on »Geomorphological studies and GIS-modelling of alpine permafrost«
- Scientific assistant at Department of Ecology coordinating field mapping and GIS-work in an Antarctic conservation and management project (2003 – 2007)
- Co-founder of the working group for Regional Climate and Sustainability at University of Jena