



Environmental Earth Sciences Thematic Issue  
**Water Resources and Research in Germany**

**Call for Abstracts - Deadline: 28 February 2015**  
**Call for Papers - Deadline: 31 December 2015**



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## 1. Introduction

In a physiogeographical perspective, Germany extends from partly glacierized high mountain ranges in the Alps to coastal plains along the North and Baltic Seas, with a temperate climate ranging from maritime in the northwest to continental in the east. The country's water resources reflect the regional differences in terrain, geology, climate and land cover and human impacts.

Germany is the world's fourth largest economy and one of the most densely populated countries in Europe. Over the centuries, urbanization, the intensification of agriculture, industrialization and the increasing utilization of rivers as water ways have had massive impacts on the country's water resources, surface water bodies and aquatic ecosystems. At the same time, Germany and its European neighbors are among the global pioneers in environmental protection and restoration. The development and wide application of more and more advanced technologies of waste water treatment, and more recently, integrated approaches to water resources management in the context of the EU Water Framework Directive have led to considerable improvements and are considered as models in many parts of the world.

In a society where the 24/7 provision of clean drinking water by simply opening a tap is taken for granted, some parts of society are only reminded of the relevance of water when large floods put at risk their personal property, or when poor water quality prohibits water sports in water bodies used for recreational purposes. However, this is only one part of the picture: Germany has a long tradition of scientific research related to its water resources, ranging from hydrology to water chemistry, balneology, aquatic biology and various water-related engineering disciplines. Hundreds of scientific institutions deal with water, with various networks and organizations working actively for an exchange of ideas and knowledge.

This special issue aims at providing a comprehensive picture of current scientific activities and the state of knowledge related to the water resources of

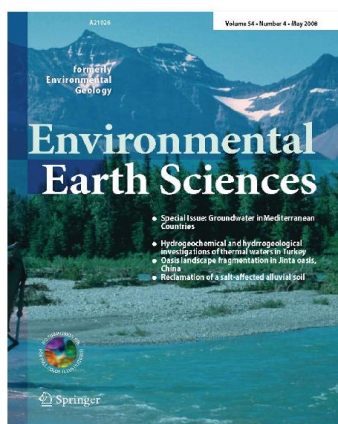
Germany and options for their sustainable management. It is co-edited by representatives of major water-related organizations and networks that are active at the national level, including the working group of hydrology in the German Geographical Society, the expert group on hydrological sciences within the German Association for Water, Wastewater and Waste; the German Association for Hydrology and the German Limnological Society.

## 2. About Environmental Earth Sciences

Environmental Earth Sciences is an international multidisciplinary journal concerned with all aspects of interaction between humans, natural ecosystems and environmental resources.



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### Environmental Earth Sciences

Editors-in-Chief: G. Dörhöfer; J.W. LaMoreaux; O. Kolditz

- Presents papers on all aspects of interactions between humans, ecosystems and the earth
- Aims to improve and remediate the environment as habitat for life on earth
- Editors-in-Chief:
  - Gunter Dörhöfer, Brandenburg, Germany
  - James W. LaMoreaux, Tuscaloosa, Alabama, USA
  - Olaf Kolditz, Leipzig, Germany

Environmental Earth Sciences is an international multidisciplinary journal concerned with all aspects of interaction between humans, natural resources, ecosystems, special climates or unique geographic zones, and the earth:

Water and soil contamination caused by waste management and disposal practices

Environmental problems associated with transportation by land, air, or water

Geological processes that may impact biosystems or humans

Man-made or naturally occurring geological or hydrological hazards

Environmental problems associated with the recovery of materials from the earth

Environmental problems caused by extraction of minerals, coal, and ores, as well as oil and gas, water and alternative energy sources

Environmental impacts of exploration and recultivation – Environmental impacts of hazardous materials

Management of environmental data and information in data banks and information systems

Dissemination of knowledge on techniques, methods, approaches and experiences to improve and remediate the en

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### 3. Scope of the Thematic Issue

The EES thematic issue *Water Resources and Research in Germany* aims at providing an indepth insight into the current state of knowledge, recent advances and ongoing research on the state of water resources and aquatic ecosystems in Germany and perspectives for their sustainable management. It is meant to showcase the wide range and excellence of both disciplinary and multidisciplinary research activities and infrastructures in Germany, including the geo, bio and social sciences as well as those engineering disciplines dealing with technical solutions.

We therefore invite contributions on advances in both basic and applied sciences that are relevant in the context of surface, ground and drinking water resources in Germany.

### 4. Suggested Topic Fields

Potential papers may either focus on individual topics or present more comprehensive interdisciplinary and transsectoral approaches. Suggested topics fields include (but are not limited to):

- Climate change and water availability
- Water quality
- Hydromorphology
- Aquatic ecosystems / Hydroecology
- Ecological restoration of water bodies and floodplains
- Water/water bodies in urban areas
- Lifelong learning in the water context
- Water governance and management
- Water technologies and their implementation

Studies may be related to current trends, historical processes/events or focus on future scenarios. All papers **must** have a regional focus on Germany. Comparative studies, or case studies from transboundary basins involving Germany are welcome.

## 5. Editorial Board for the EES Thematic Issue

In addition to the journal's editorial board (refer to the journal's webpage), representatives of several organizations have joined forces in order to organize this thematic issue.

For the German Geographical Society and its working group on Hydrology:

Dr. Daniel Karthe	Dep't Aquatic Ecosystems Analysis and Management Helmholtz Center for Environmental Research Magdeburg, Germany <a href="mailto:daniel.karthe@ufz.de">daniel.karthe@ufz.de</a>
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Prof. Dr. Peter Chiffard	Department of Geography Philipps-University Marburg Marburg, Germany <a href="mailto:peter.chiffard@geo.uni-marburg.de">peter.chiffard@geo.uni-marburg.de</a>
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For the expert group Hydrological Sciences of the German Association for Water, Wastewater and Waste:

Prof. Dr.-Ing. Heribert Nacken	Engineering Hydrology Section RWTH Aachen Aachen, Germany <a href="mailto:nacken@lfi.rwth-aachen.de">nacken@lfi.rwth-aachen.de</a>
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Prof. Dr. Bernd Cyffka	Applied Physical Geography / Floodplain Institute Neuburg Catholic University Eichstätt-Ingolstadt Eichstätt, Germany <a href="mailto:bernd.cyffka@ku-eichstaett.de">bernd.cyffka@ku-eichstaett.de</a>
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For the German Hydrological Society:

Prof. Dr. Markus Weiler	Chair of Hydrology Albert-Ludwigs-University Freiburg Freiburg, Germany <a href="mailto:markus.weiler@hydrology.uni-freiburg.de">markus.weiler@hydrology.uni-freiburg.de</a>
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Prof. Dr. Lucas Menzel	Department of Geography Ruperto Carola University Heidelberg Heidelberg, Germany <a href="mailto:markus.weiler@hydrology.uni-freiburg.de">markus.weiler@hydrology.uni-freiburg.de</a>
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For the German Limnological Society:

Dr. Mario Sommerhäuser	Emschergenossenschaft / Lippeverband Essen, Germany <a href="mailto:sommerhaeuser.mario@eglv.de">sommerhaeuser.mario@eglv.de</a>
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Dr. Uta Raeder	Aquatic Systems Biology Limnological Station Iffeldorf Technische Universität München Munich, Germany <a href="mailto:uta.raeder@tum.de">uta.raeder@tum.de</a>
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## 6. Call for Papers

The editorial team invites contributions which are relevant in the light of the scope and focus outlined in the previous sections. Both original research papers (case studies) and review papers are acceptable. In order to be eligible, contributions must have a regional focus on **Germany**. The consideration of transboundary river basins or aquifers is explicitly included into this definition, as are comparative approaches.

Contributions from teams comprising scientists from Germany and the international scientific community are welcome.

### 6a: Submission of Abstracts

In a first step, please submit a short abstract (max. 1 page) containing

- the names and affiliations of the prospective authors;
- contact information (minimum: email addresses), if possible for **two** corresponding authors;
- the topic of your research and particular methodology used;
- information about the study area (name, particular characteristics)
- the key findings of your research

Your abstract should point out the relevance of your paper in the context of the EES special issue.

Abstracts may be submitted in either of the following formats:

Microsoft Word (\*.DOC or \*.DOCX)

OpenOffice / Libre Office (\*.ODT or \*.SXW)

Other common document formats (\*.RTF or \*.PDF)

Send your abstract to [ees@ufz.de](mailto:ees@ufz.de) and in copy (cc) to [daniel.karthe@ufz.de](mailto:daniel.karthe@ufz.de).

Abstracts will be reviewed by the thematic issue's editorial board. The corresponding authors mentioned in the abstracts will receive a short feedback in March 2015.

OPENING: 20 November 2014  
**DEADLINE: 28 February 2015**



## **6b: Submission of Full Paper**

Carefully read the instructions for authors which you may find online at

<http://www.springer.com/earth+sciences+and+geography/geology/journal/12665>

For your convenience, you may also download an MS Word template on this site. Papers should consist of no more than 7500 words and generally should contain no more than 8 figures.

Before submitting your paper, you will need to create a user account and then submit all relevant files online at <http://www.editorialmanager.com/enge/>.

OPENING: 01 April 2015

**DEADLINE: 31 December 2015**

Your paper will then be reviewed according to the standards of Environmental Earth Sciences. You will be requested to suggest at least two reviewers. Additional or different reviewers may be selected by the journal's editorial board. Please expect to revise your paper promptly after review.

It is expected that all submitted manuscripts conform to the standards of good scientific practice. You may find additional information on this on the journal's website.

In case that you have any difficulties with the manuscript submission, or questions during the review process, the Environmental Earth Sciences Editorial Office will provide assistance and may be contacted by email ( [ees@ufz.de](mailto:ees@ufz.de) ).

We are looking forward to receiving your manuscripts.