

International Conference 2014

FROM OBSERVATION TO PREDICTION IN TERRESTRIAL SYSTEMS

29 September to 2 October 2014

Rheinische Friedrich-Wilhelms-Universität Bonn, Germany

TERENO
TERRESTRIAL ENVIRONMENTAL OBSERVATORIES



www.tereno-conference2014.de

Motivation and scope

Climate and land use change are key factors influencing the terrestrial hydrological system which need to be managed by society in the coming decades. These changes act and provoke system reactions on different spatial and temporal scales, which result in immense challenges for environmental and hydrological research. Terrestrial environmental research has to tackle these challenges.

New approaches are needed to detect complex interaction and feedback mechanisms between the various compartments of the terrestrial system and to identify long-term trends in observed states and fluxes. Therefore, the development and implementation of large-scale, long-term, and integrated environmental research infrastructures has become more and more important during the last years across all scientific disciplines.

Preliminary Programme

TERENO solicits contributions from scientists dealing with the integrated subsurface-land surface-atmosphere system from the micro to the meso-scale. Particularly interesting are studies applying novel sensing technologies for terrestrial systems; Methods and case studies for bridging the scale between management, model and observation scale; Coupled processes in soil-plant-atmosphere systems; Data assimilation approaches for predicting states and fluxes in terrestrial systems.

Preliminary list of sessions:

- Quantifying Water Scarcity under Data Scarcity
- Transferring local Understanding of Vadose Zone Processes to the Landscape Scale
- Monitoring and Modeling of Water Quality
- Modeling the Hydrological System – Balancing of Complexity and Uncertainty
- Environmental Monitoring to quantify Ecosystem Services
- Novel Approaches in Biodiversity and Ecosystem Monitoring
- Remote Sensing of Land Surface
- Coupled Processes in Soil-Plant-Atmosphere Systems across Scales
- Monitoring and Data Assimilation: Predicting States and Fluxes
- Crossing Time Scales: From Paleo Records to Forecast

Dates and Deadlines

Deadline for abstract submission
17 March 2014

Information for authors
19 May 2014

Deadline for registration
16 September 2014

Ice-Breaker Party
28 September 2014

Contact

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Venue

Bonn is a modern, lively and cosmopolitan city with a history of over 2.000 years. Beethoven's native city is situated on the banks of the Rhine and surrounded by lovely nature. The attractive historic centre with its extensive pedestrian precinct is a tempting place for a pleasant stroll, and about 30 museums offer entertainment and variation. The Tereno Conference 2014 will be held at the University of Bonn which was founded almost 200 years ago and is considered to be one of the world's leading research based Universities.

