

**Technische Universität Berlin**  
Chair of Water Resources Management and  
Modeling of Hydrosystems  
Prof. Dr.-Ing. R. Hinkelmann



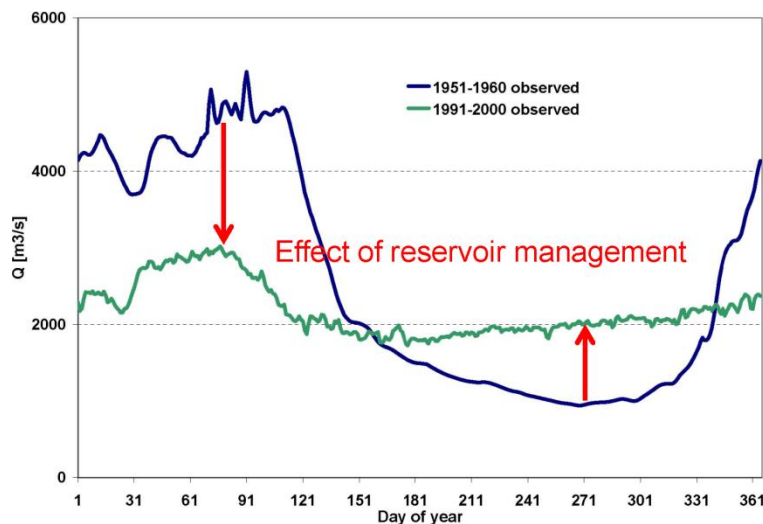
**Potsdam Institute for Climate Impact Research (PIK)**  
RD II Climate Impacts & Vulnerabilities  
Dr. rer. nat. H. Koch

Announcement of the course in the summer semester 2017/18

## River Basin Management

Gustav-Meyer-Allee 25, 13355 Berlin - TIB 13b, Room 578

The availability of water resources is an important determinant for the development, planning and operation of many sectors, e.g. domestic water supply, electricity generation (hydropower, thermal power plants) or other industrial businesses, agriculture, tourism. The main task of water resources management is to reconcile the location, quantity, quality, date, and probability of available water and the location, quantity, quality, date, and probability of water demand. Economic, political and social forces as well as hydrological, ecological and climatological conditions have to be accounted for in this context. Water management infrastructure, e.g. reservoirs and water transfer schemes, require high financial resources for planning, building, operation and maintenance, and needs to be seen as long-term investment. Therefore, changes in water availability and demand during the operational period have to be considered in the planning process already.



Following contents will be covered:

- Integrated Water Resources Management - Introduction
- Water Availability - Water Use - Water Footprint
- Water Resources Management - Modelling Approaches; Optimization and Simulation Models
- Reservoir Operation
- Ecological Flow Requirements
- Water Temperature Modelling
- Indicators & Evaluation Criteria

The course River Basin Management (1 SHW = 1.5 ECTS) is being offered at the TU Berlin in the Master's program in Civil Engineering within the competence field of water. It is part of the module Specific Topics of Hydro- and Environmental Engineering. Moreover, it is also suitable for students of Geo- and Environmental Sciences. Please register to the course by email to Mr. Hassan.

Schedule:    Wednesday    11-Apr-2018    9 a.m. to 12:30 p.m. and 1:30 p.m. to 5 p.m.  
                  Thursday    12-Apr-2018    9 a.m. to 12:30 p.m. and 1:30 p.m. to 5 p.m.  
                  Friday        13-Apr-2018    9 a.m. to 12:30 p.m.

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