

## 1<sup>st</sup> ClimEx Symposium: 20/21 June 2017

# Climate Change Impacts on Extreme Events: Risks and Perspectives for Water Management

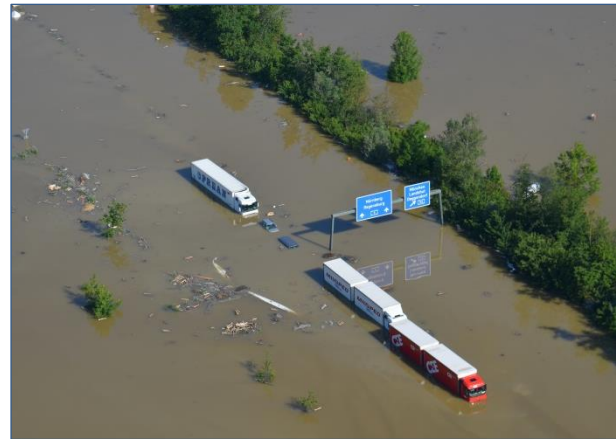


### Background & Rationale

The recent accumulation of extreme hydrological events has stimulated scientific and also societal interest. In addition to the challenges of an improved prediction of such situations and the implications for the associated risk management, there is as yet no confirmed knowledge whether and how climate change contributes to the magnitude and frequency of hydrological extreme events and how water management could adapt to the corresponding risks.

### The ClimEx project

The ClimEx project investigates the dynamics and effects of climate change on hydrometeorological extreme events and their implications for water management. It employs High Performance Computing (HPC) to produce a large scale single model ensemble (CanESM2-CRCM5), resulting in a unique high-resolution and transient climate dataset (1955-2100) to drive process-based hydrological models. The innovative hydro-climatological model processing chain allows for an improved understanding of natural hydro-climatic variability and a novel representation of hydrological extremes under climate change.



### The 1st ClimEx Symposium

The Symposium will host invited keynote speakers, presentations and moderated discussions from science and user perspectives on recent advances in the understanding, modeling and management of hydrometeorological extreme events.

The ClimEx working group will for the first time present (and announce access to) the unique large scale single model ensemble. Participants will be invited to join the activities to a topic related COST Action proposal.