

Program

Day 1: Policy Day (13:00-21:00)

Plenarsaal der Bayerischen Akademie der Wissenschaften, Alfons-Goppel-Str. 11, 80539 München

- 13:00-13:20 Welcome addresses
- 13:20-13:45 **Introduction to ClimEx: ClimEx concept and goals, workflow, terms and definitions**
Ralf Ludwig (LMU)
- 13:45-14:30 **Angry weather? How to find out to what extent climate change is affecting extreme weather**
Friederike Otto (Oxford University)
- 14:30-15:00 **Coffee Break**
- 15:00-17:00 **ClimEx results:** _____

CLIMATE

- 15:00-15:20 **Overview of the ClimEx large ensemble: basic characteristics and general results**
Martin Leduc (Ouranos)
- 15:20-15:30 **Extreme precipitation in future climate: why is it so important?**
Alain Mailhot (INRS)
- 15:30-15:45 **Changes in maximum precipitation and Vb-cyclones over Europe**
Raul Wood (LMU)
- 15:45-15:50 Questions & Answers

IMPACTS

- 15:50-16:05 **Using the ClimEx large ensemble for impact studies in Québec**
Alain Mailhot (INRS)
- 16:05-16:25 **Hydrological extremes in a changing climate – impacts and implications for Bavaria**
Florian Willkofer (LMU)
- 16:25-16:35 **The use of the ClimEx ensemble for improving our knowledge of the future of flooding in Quebec**
Richard Turcotte (MELCC-DEH)
- 16:35-16:40 Questions & Answers

HIGH PERFORMANCE COMPUTING

- 16:40-16:50 **High Performance Computing and Big Data for Climate Research**
Jens Weismüller (LRZ)

SYNTHESIS

- 16:50-17:00 **A first synthesis - ClimEx and the broader picture: new topics and interdisciplinary applications**
Marco Braun (Ouranos)
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- 17:00-18:00 **Tea time – Poster session and visualization examples**
- 18:00-19:00 **Panel discussion** (in German) with Prof. Otto, Prof. Grambow, Felix Finkbeiner, Prof. Höppe and Prof. Ludwig
- 19:00-21:00 **Reception**

Day 2: ScienceDay (08:30-17:00)

Leibniz-Rechenzentrum, Boltzmannstraße 1, 85748 Garching

- 08:30-08:40 **Introduction to ClimEx – Challenges and perspectives**
Ralf Ludwig (LMU)
- 08:40-09:00 **What does the ClimEx large ensemble tell us about the future evolution of extreme precipitation?**
Alain Mailhot (INRS)
- 09:00-09:20 **Relations of ClimEx to CORDEX and other large ensembles**
Fabian von Trentini (LMU)
- 09:20-09:40 **Regional patterns of precipitation extremes on various timescales**
Raul Wood (LMU)
- 09:40-10:00 **Exploring the CRCM5-LE using machine learning techniques**
Magdalena Mittermeier (LMU)
- 10:00-10:20 **Application of ClimEx data for flood analysis – Case study of the Richelieu river**
Simon Lachance-Cloutier (MELCC-DEH)
- 10:20-10:30 **Summary and Conclusions by François Brisette (ETS)**
- 10:30-11:00 **Coffee Break**
- 11:00-11:15 **Introduction to parallel sessions by Ralf Ludwig (LMU)**
- 11:15-12:45 **Parallel workshops:**
SESSION A (in English): Potentials of Large Model Ensembles to advance Climate Science
SESSION B (in English): Advancing Climate Services and Science Communication
SESSION C (in German): Implikationen für die Wasserwirtschaft
SESSION D (in German): Klimawandel, Klimaextreme und die Energiewende
- 12:45-13:45 **Lunch Break**
- 13:45-14:15 **4 Parallel workshops – Summary preparation**
- 14:15-15:15 **Reporting back from parallel sessions**
Next steps towards ClimEx-II by Ralf Ludwig (LMU)
- 15:15-16:00 **Network-Café and Farewell**
- 16:00-17:00 **Guided tours of SuperMUC-NG (on demand)**