

Extreme events in a changing climate

Challenges and perspectives in hydro-meteorological modelling

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Extremes in general and hydrological extremes in particular are likely to increase in a warming world. Recent heavy precipitation and large-scale flooding events emphasize the need for **bridging the scale gap between climate system modelling, high resolution hydrological modelling and impact assessments**. Modelling systems contributing to a better understanding of future risks from extreme events and communicating them efficiently to a growing number of users **serve a fundamental societal need**.

One of the big challenges is bringing the model data to the user community: How to inform users about the quality and uncertainties? How to incorporate the human dimension more explicitly? How to apply and interpret model results effectively for improved water resource management, flood and drought mitigation or sustainable water security?

Model developers have to be prepared to integrate the socioeconomic perspective more explicitly.

This ECRA side event will bring together researchers, policy-makers and data users providing input to the current discussion about designing “climate services”.



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