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Eawag Seminar Invitation

Extremes and water cycle in a changing climate: Conclusions of the latest IPCC report

Speaker Prof Sonia I. Seneviratne, Institute for Atmospheric and Climate Science, ETH Zurich, Switzerland

When December 2, 16:00 - 17:00, CET

Where Online via Zoom, contact seminars@eawag.ch for access details.

This presentation will provide an overview of the main conclusions of the 6th Assessment report from the Intergovernmental Panel on Climate Change on observed and projected changes in weather and climate extremes, including water cycle extremes. For the first time, a full chapter of the IPCC assessment report was dedicated to the topic of weather and climate extremes. The newest evidence shows that changes in extremes are observed in all regions of the world, and that human influence strongly contributed to observed trends. With every increment of global warming, changes in extremes become larger, with important implications for changes in heatwaves, heavy precipitation, droughts, and tropical cyclones depending on the region. All regions are projected to be affected by multiple changes in climate extremes and other climatic impact drivers with increasing global warming, in particular above 2°C of global warming. Substantial changes in the water cycle are also projected.