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Federal Office of Meteorology and Climatology MeteoSwiss

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The new CH2018 Climate Scenarios for Switzerland: Value, limitations, future developments

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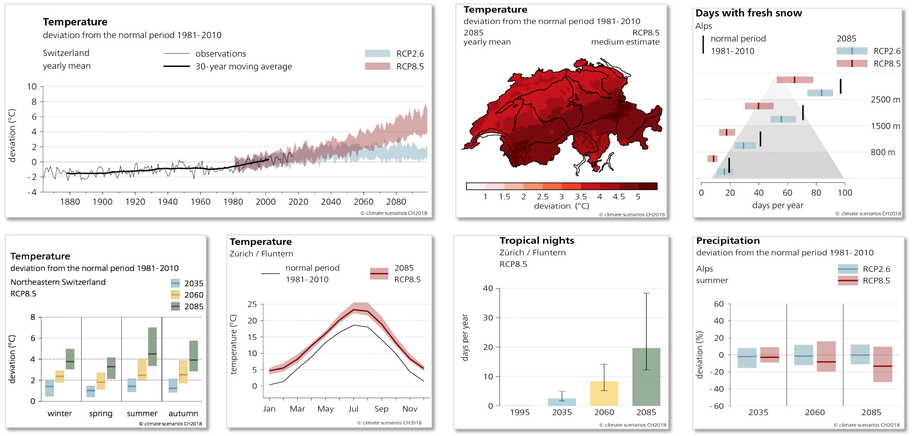
The CH2018 Climate Scenarios

- **Third generation of reference climate scenarios** for Switzerland, released in November 2018
- Collaborative effort of the **Swiss climate research community** and the **National Centre for Climate Services**
- Based on the **EURO-CORDEX** RCM ensemble (12 and 50 km, three greenhouse gas scenarios)
- Bias correction and downscaling by quantile mapping
- Widespread uptake by Swiss climate impacts and adaptation community
- ***www.climate-scenarios.ch***

Graphical products *(examples)*



Additional User Needs (not explicitly covered so far)

Climate scenarios at sub-daily scale

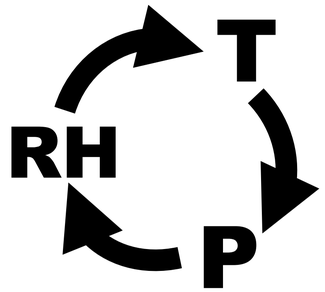
Changes of extremes

Climate change in pronounced topography

High-elevation climate change

Climate scenarios for cities

Consistent multi-variable scenarios



User Feedback

Feedback so far indicates **high value** of CH2018 data products for impact research and adaptation, but also **remaining gaps**.

Approaches

1 Offer simple but robust and trustworthy **workarounds**

2 Further develop **statistical post-processing** techniques

3 Integrate upcoming scenarios at **convection-permitting scale**

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