

## Network




### Partner institutions

- ETH Zurich: Swiss Federal Institute of Technology Zurich
- MeteoSwiss: Federal Office of Meteorology and Climatology
- Empa: Swiss Federal Laboratories for Materials Science and Technology
- WSL: Swiss Federal Research Institute WSL
- Agroscope

*«C2SM is a networking platform.  
The Center strengthens collaborations  
and serves as a contact point for everybody.»*


Isabelle Bey, executive director C2SM

 Schweizerische Eidgenossenschaft  
Confédération suisse  
Confederazione Svizzera  
Confederaziun svizra  
  
Eidgenössisches Departement des Innern EDI  
**Bundesamt für Meteorologie und Klimatologie**  
MeteoSchweiz



Materials Science & Technology



 Schweizerische Eidgenossenschaft  
Confédération suisse  
Confederazione Svizzera  
Confederaziun svizra  
  
Eidgenössisches Departement für  
Wirtschaft, Bildung und Forschung WBF  
**Agroscope**

*«We aim at improving  
our understanding and the prediction of  
the Earth's weather and climate.»*

Nicolas Gruber, Chair C2SM

## Contact

Center for Climate Systems Modeling (C2SM)

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# C2SM



**ETH**  
Eidgenössische Technische Hochschule Zürich  
Swiss Federal Institute of Technology Zurich

## Welcome to the Center for Climate Systems Modeling (C2SM)

Climate change is one of the most complex scientific challenges and one of the most pressing social and economic issues facing humankind. The Center for Climate Systems Modeling (C2SM) combines the climate modeling and data analysis expertise of ETH Zurich, MeteoSwiss, Empa, WSL, and Agroscope in order to better understand and predict weather and climate as well as their impacts on natural systems and human societies.

### Mission

C2SM is a research and networking platform in the areas of weather and climate. The Center provides support to its partner institutions for climate modeling and climate data analysis. It facilitates collaborations and exploits synergies to enable new research avenues and address some of the complex challenges of climate change. C2SM also supports its partners in their education and outreach activities.

### Research

Many processes relevant for climate change operate in, and at the interface of the sub-components of the Earth system (including its atmospheric, oceanic, terrestrial, biospheric and cryospheric components). In addition, these processes operate over a wide range of spatial and temporal scales: the processes operating at small scales may strongly influence the phenomena at large scales and vice versa. «Multi-scale, multi-component interactions within the climate system» – C2SM's core research theme is geared towards explicitly addressing these issues.

## Activities

### Research coordination

- To foster collaborations between research groups
- To coordinate community research projects
- To develop a common climate modeling strategy

### Education

- To train PhD students through projects across research groups, institutions, and disciplines
- To contribute to the organization of the Swiss Climate Summer school and assist in the M.Sc. programs in atmosphere and climate.

### Outreach

- To inform the scientific community and a broader audience about climate and climate change
- To facilitate the dialog between the scientific community and the private and public sectors

### Support

- To maintain, improve, and provide a hierarchy of state-of-the-art climate and climate-related models to the Center's community
- To exploit and disseminate key national and international climate data including future scenarios
- To prepare for the exploitation of the next generation high-performance computers

## Members

### ETH Zurich, D-USYS

Prof. N. Buchmann (Grassland Sciences)  
Prof. H. Bugmann (Forest Ecology)  
Prof. A. Fischlin (Terrestrial Systems Ecology)  
Prof. N. Gruber (Environmental Physics), Chair \*  
Prof. R. Knutti (Climate Physics)  
Prof. U. Lohmann (Atmospheric Physics) \*  
Prof. T. Peter (Atmospheric Chemistry)  
Prof. C. Schär (Climate and Water Cycle) \*  
Prof. S. I. Seneviratne (Land-Climate Dynamics)  
Prof. J. Stähelin (Atmospheric Chemistry)  
Prof. H. Wernli (Atmospheric Dynamics)  
Prof. M. Wild (Climate and Radiation)

### ETH Zurich, D-ERDW

Prof. G. Haug (Climate Geology) \*  
Prof. T. Schneider (Climate Dynamics)

### ETH Zurich, D-BAUG

Prof. M. Funk (Glaciology)

### ETH Zurich, D-MATH

Prof. H.-R. Künsch (Mathematics and Statistics)

### MeteoSwiss

Prof. C. Appenzeller (Head Climate Division), Vice-Chair \*  
Dr. M. Croci-Maspoli (Climate Monitoring)  
Dr. M. Liniger (Climate Prediction)  
Dr. P. Steiner (Head Numerical Prediction Division)

### Empa

Dr. D. Brunner (Atmospheric Modeling)  
Dr. B. Buchmann (Head Department Mobility, Energy and Environment) \*

### WSL

Prof. M. Lehning (Snow and Permafrost)  
Prof. K. Steffen (Director WSL, Climate and Cryosphere) \*  
Dr. N. Zimmermann (Landscape Dynamics)

### Agroscope

Prof. J. Fuhrer (Head Air Quality and Climate)

