



16th International Swiss Climate Summer School  
3 – 8 September 2017  
Congressi Stefano Franscini, Monte Verità, Ticino, Switzerland

## HIGH-RESOLUTION CLIMATE: OBSERVATIONS, MODELS AND PROJECTIONS

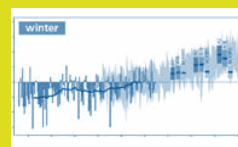
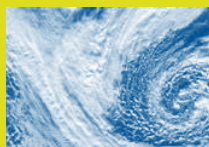
Swiss Climate Research, the network of leading Swiss institutions in climate research and education, invites young scientists to join high-profile climate researchers in Southern Switzerland for keynote lectures, workshops and poster sessions at the 16th Swiss Climate Summer School in 2017.

### SCOPE OF THE SUMMER SCHOOL

The 16th International Swiss Climate Summer School focuses on 'High-resolution climate: observations, models and projections'. With the advent of satellites and high-performance computing, the resolution of climate information is dramatically increasing. This development is of critical importance from a societal point of view. It will improve the representation of key processes, weather systems and extreme events; reduce uncertainties in climate projections; and facilitate the use of climate information for mitigation and adaptation measures. Topics covered will include:

- What observational methodologies provide high-resolution data?
- How suitable are current global and regional climate models for high-resolution application?
- What is the role of high resolution in representing extreme events such as heat waves, droughts, wind storms and floods?
- How can we exploit the highly parallel and heterogeneous hardware architectures of emerging generations of high-performance supercomputers?
- How can high-resolution information be used to inform decision processes in the context of a changing climate?

The Summer School invites young researchers from all fields of climate research. The courses cover a broad spectrum of cutting-edge climate research and foster cross-disciplinary links. Each topic includes keynote plenary lectures and workshops with in-depth discussion in smaller groups. All Summer School participants are expected to present a poster of their research. There will be ample opportunity for discussion.



### LECTURERS FOR KEYNOTES AND WORKSHOPS

C. Bretherton, U Washington, USA  
S. Brönnimann, U Bern, OCCR, CH  
V. Ducrocq, Meteo France, FR  
A. Duguay-Tetzlaff, MeteoSwiss, CH  
C. Frei, MeteoSwiss, CH  
D. Fuhrer, MeteoSwiss, CH  
U. Hamann, MeteoSwiss, CH  
T. Hoefler, ETH Zurich, CH  
S. Kotlarski, MeteoSwiss, CH  
X. Lapillonne, MeteoSwiss, CH

M. Liniger, MeteoSwiss, CH  
T. Palmer, U Oxford, UK  
O. Romppainen-Martius, U Bern, OCCR, CH  
C. Schär, ETH Zurich, CH  
T. Schulthess, ETH Zurich, CSCS, CH  
B. Stevens, MPI, DE  
R. Stöckli, MeteoSwiss, CH  
J. Trentmann, DWD, DE  
P.L. Vidale, U Reading, UK  
H. Wernli, ETH Zurich, CH

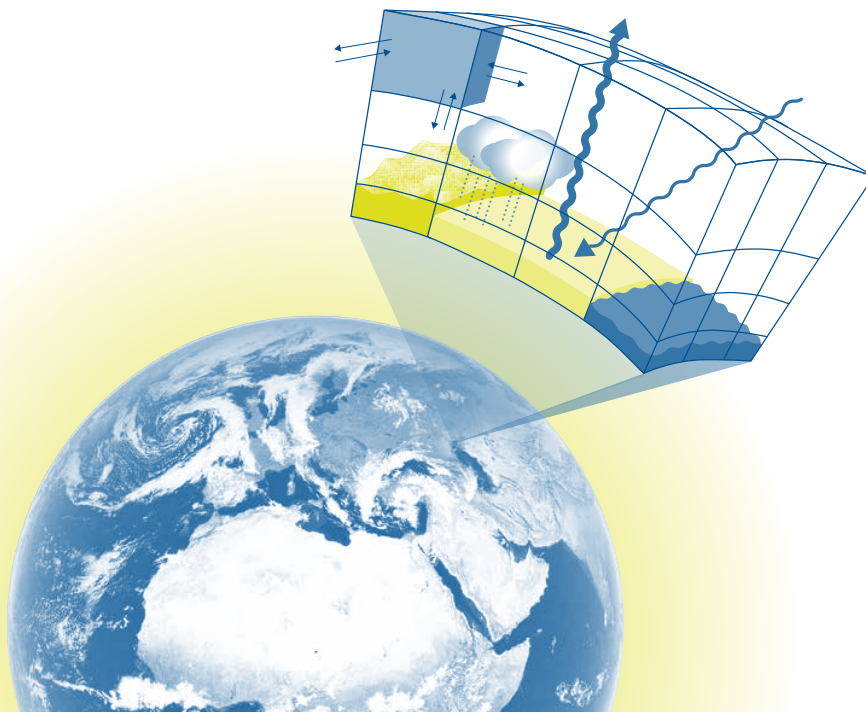
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The Summer School is open to young researchers (PhD students and Postdocs) worldwide. Participation is highly competitive and will be limited to a maximum of 70. The registration fee (1350 CHF) includes full (shared) board accommodation, excursion, and teaching material.

**DEADLINE FOR APPLICATIONS: 31 DECEMBER 2016**

Successful applicants will be notified in February 2017.  
Detailed information and application form are available at:  
[www.climate-research.ch](http://www.climate-research.ch)



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The Swiss Climate Summer School is organized and sponsored by:



**ETH** zürich

