

## MeteoSchweiz Forschungskolloquium 2011 – 2

Tuesday 29 November, 10:30 - 16:30

MeteoSwiss, Krähbühlstrasse 58, 8044 Zürich, Room 353 - 354

## How much high performance computing does meteorology need?

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Intr	oduction		
1	Welcome Address	Saskia Willemse, Philippe Steiner, MeteoSwiss	10:30 – 10:45
2	Contribution of high performance computing to the evolution of meteorology in the last decade	Dominique Marbouty, ECMWF	10:45 – 11:10
Par	t A: Added value of the increasing computing pe	rformance	
3	What is the expected added value of a further increase in resolution in the short to medium range forecast?	Humphrey Lean, UK Met Office	11:10 – 11:35
Sho	ort break		
4	What is the expected added value of a further increase in resolution in climate science?	Bjorn Stevens, MPI-M	11:45 – 12:10
5	Towards cloud-resolving climate modeling	Christoph Schär, ETH Zürich	12:10 – 12:35
Lun	nch break		
6	Higher resolution vs. ensemble forecasting	Bodo Ritter, DWD	13:35 – 14:00
7	The importance of high performance computing for post-processing	Thordis Thorarinsdottir, Uni Heidelberg	14:00 – 14:25
Par	B: The future of high performance computing		
8	Future role of high performance computing in the advancement of science	Thomas Schulthess, CSCS	14:25 – 14:50
Cof	fee break		
9	How MeteoSwiss is preparing for future HPC architectures	Oliver Fuhrer, MeteoSwiss	15:15 – 15:40
	Discussion: what could a further increase in available computing power be used for in order to get the largest added value in meteorology?	Speakers & Audience	15:40 – 16:30