

## NWP model applications and case studies

Chairperson: Jürgen Helmert

- 15:10 — 15:30 **Kristina Lundgren and the EWeLiNE and ORKA Team**  
*Deutscher Wetterdienst*  
Optimizing Meteorological Forecasts for Energy Operations - The Renewable Energy Projects EWeLiNE and ORKA 0
- 15:30 — 15:50 **Carmen Köhler, Andrea Steiner, Jonas von Schumann**  
*Deutscher Wetterdienst*  
EWeLiNE and ORKA- Improving Model Physics for Renewable Energy 0
- 15:50 — 16:20 **COFFEE BREAK**
- 16:20 — 16:40 **Sascha Bellaire(1), Mathias W. Rotach(1), Jürg Schweizer(2)**  
*(1) Institute of Meteorology and Geophysics, University of Innsbruck, (2) WSL Institute for Snow and Avalanche Research SLF, Davos*  
On the mean bias of forecasted 2 m air temperature over snow covered complex alpine terrain. 0
- 16:40 — 17:00 **Badriya Al-Mawali(1), Nora AL-Kaabi(1) , Abeer Auladthani(1),Khalifa Al-Sudiri(1), Jamal Al-Hinai(1), Ulrich Blahak(2), Sultan Al-Yahyai(1)**  
*(1) Oman National Weather Service, Public Authority for Civil Aviation, (2) Deutscher Wetterdienst*  
Sensitivity Study of certain COSMO model configuration parameters on forecasting Tropical Cyclones, Deep Convection and Summer Monsoon in Oman 0



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- 17:00 — 17:20 **H.S. Lentink(1), S.C. Jones(2)**  
*(1) Institute for Meteorology and Climate Research, Karlsruhe Institute of Technology, Germany, (2) Deutscher Wetterdienst*  
Mechanisms responsible for structural changes during the extratropical transition of Typhoon Sinlaku (2008): a model study
- 17:20 — 17:40 **Alexander Kelbch, Andreas Bott**  
*Institute for Meteorology, University of Bonn*  
Theoretical and numerical investigations about objective frontal analysis
- 17:40 — 18:00 **Werner Schneider, Andreas Bott**  
*Meteorological Institute, University of Bonn*  
Investigations of tropopause dynamics using PV tracers in the COSMO model

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- Poster      **Katharina Roloff(1), Frank Kalinka(2), Pierre Fritzsche(2), Jakob Tendel(3), Thomas Hauf(1)**  
*(1) Leibniz Universität Hannover, Institut für Meteorologie und Klimatologie, (2) Deutscher Wetterdienst, (3) formerly (1)*  
Enhanced ADWICE Diagnosis of In-flight Icing Risk by the Use of COSMO-EU Gridded MSG Satellite Data
- Poster      **Vitalii Shpyg, Lesia Katsalova**  
*Ukrainian Hydrometeorological Institute*  
Application of Kriging-Interpolation for COSMO Weather Forecast
- Poster      **Kristyna Bartunkova, Zbynek Sokol, Lukas Pop**  
*Institute of Atmospheric Physics, Academy of Sciences, Charles University in Prague, Czech Republic*  
The impact of a large water reservoir on local temperature by using the COSMO NWP model
- Poster      **Daniel Kunkel, Volkmar Wirth, Peter Hoor**  
*Institute for Atmospheric Physics, Johannes Gutenberg-University, Mainz*  
Tropopause inversion layer formation and stratosphere-troposphere exchange during idealized baroclinic wave life cycle experiments
- Poster      **Sebastian Crezee, Hanna Joos**  
*IAC ETH Zurich*  
The influence of microphysical processes related to a WCB on the development of extratropical cyclones