

4th NAWDEX Workshop

8-9 March 2021

Monday, 8 March 2021

14:00 – 15:30 CET: 1st session: oral presentations (15 Min + 5 Min)

14:00 – 14:10: [Welcome](#) – Heini Wernli (ETH Zurich)

14:10 – 14:30: [The impact of convection schemes of a global atmospheric model on the warm conveyor belt of NAWDEX IOP6: Lagrangian budgets](#) – Meryl Wimmer (LMD, Paris)

14:30 – 14:50: [Microphysics impact on a warm conveyor belt and confrontation with observations from the NAWDEX campaign](#) – Marie Mazoyer (Météo France, Toulouse)

14:50 – 15:10: [Mid-level convection in a warm conveyor belt accelerates the jet stream](#) – Florian Pantillon (LAERO, Toulouse)

15:10 – 15:30: [Observations and simulation of intense convection embedded in a warm conveyor belt – how ambient vertical wind shear determines the dynamical impact](#) – Annika Oertel (KIT, Karlsruhe)

15:30 – 16:00 CET: Virtual coffee break

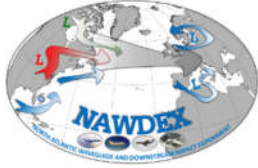
16:00 – 17:30 CET: 2nd session: poster/short presentations

16:00 – 16:15: Short presentations of each contribution (each 2min)

1. [Precipitation linked to WCBs in ERA5](#) – Kati Heitmann (ETH Zurich)
2. [3D visual analysis of NAWDEX cases with Met.3D - recent developments](#) – Marc Rautenhaus (University of Hamburg)
3. [Stratospheric gravity waves excited by propagating Rossby wave trains](#) – Andreas Dörnbrack (DLR Oberpfaffenhofen)
4. [A robust intensification of extreme jet streak events in future climates and the role of diabatic heating](#) – Ben Harvey (University of Reading)
5. [Statistics of ice cloud properties derived from Radar-Lidar measurements on HALO and their comparison with ERA5 reanalysis](#) – Florian Ewald (DLR, Oberpfaffenhofen)
6. [Sensitivity of MPAS-DART analyses and forecasts to assimilation of 2016 NAWDEX special TPV observation](#) – Christopher Riedel (University of Oklahoma)
7. [Relative importance of tropopause structure and diabatic heating for baroclinic instability](#) – Thomas Spengler (University of Bergen)

17:30 – 18:00: [NAWDEX 2016 to 2021 - An attempt to wrap up](#) – Andreas Schäfler (DLR Oberpfaffenhofen)

19:30 – 20:00: Social event with some pictures from NAWDEX



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14:00 – 15:30 CET: 3rd session: oral presentations (15 Min + 5 Min Discussion)

- 14:10 – 14:30: [Tracer experiment in a WCB over Europe](#) – Maxi Boettcher (ETH Zurich)
- 14:30 – 14:50: [Water Vapor lidar observations at the tropopause and validation of ECMWF analyses](#) – Konstantin Krüger (DLR, Oberpfaffenhofen)
- 14:50 – 15:10: [Characterising extratropical near tropopause analysis humidity biases and their radiative effects on temperature forecasts](#) – Jake Bland (University of Reading)
- 15:10 – 15:30: [Benefit of microwave remote sensing for analysing the thermodynamic structure of Atmospheric Rivers](#) – Andreas Walbröl (University of Cologne)

15:30 – 16:00 CET: Virtual coffee break

16:00 – 17:30 CET: 4th Session: poster/short presentations

- 16:00 – 16:15: Short presentations of each contribution (each 2min)
1. [The impact of convection schemes of a global atmospheric model on the warm conveyor belt of NAWDEX IOP6: a comparison to airborne measurements](#) – Meryl Wimmer (LMD, Paris)
 2. [Role of uncertainty in microphysical processes for warm conveyor belt ascent](#) – Annika Oertel (KIT, Karlsruhe)
 3. [Effect of resolving convection in IFS simulations on the representation of warm conveyor belts](#) – Nicolai Krieger (ETH Zurich)
 4. [Impact of NAWDEX radiosonde on the structure of the tropopause](#) – Andreas Schäfler (DLR, Oberpfaffenhofen)
 5. [A quasi-climatological assessment of the diabatic processes that modify potential vorticity in extratropical cyclones](#) – Roman Attinger (ETH Zurich)
 6. [Atmospheric Rivers during NAWDEX: Assessing Soundings of their Cross-Section Moisture Transport](#) – Henning Dorff (University of Hamburg)
 7. [Diabatic heating as pathway for cyclone clustering](#) – Chris Weijenborg (Wageningen University and Research)

17:30 – 18:00 CET: Final Discussion – Beyond NAWDEX