

Poster Session 1:

- 1** *Christine Borchers*: Development and deployment of a drone-based sampling system to study altitude profiles of organic aerosols with respect to their molecular composition in the planetary boundary layer
- 9** *Sarah Richter*: Gas measurements in the tropical troposphere of MSA and DMA during CAFE-BRAZIL and CAFE-PACIFIC
- 21** *Kshitija Naktode*: Aerosol nucleation in upper troposphere using model MECO(n)
- 16** *Irina Thaler*: Ion enhanced aerosol growth and its link to Solar variability
- 6** *Sadath Ismayil*: An integrated package for UTLS refractory aerosol sampling: MultiMINI8, SPAFiS, and NanoPS
- 35** *Luis Valero Tuya*: Balloon-borne soundings for vertical aerosol and trace gas measurements
- 27** *Neelam Firdous Khan*: Refining the distinction between inside and outside cloud conditions using IAGOS Relative Humidity and BCP data as well as ECMWF Cloud Ice Water Content
- 45** *Lisa Schneider*: A new airborne sampler for ice-nucleating particle measurements in the cirrus cloud regime
- 37** *Lasse Moormann*: Vertical pollutant distribution in the lower troposphere: first results and lessons learned from BISTUM 2023
- 40** *Christian Rolf*: Balloon instruments for TPChallenges
- 48** *Johanna Mayer*: Remote Sensing of the Life Cycle of Convective Clouds

Poster Session 2

- 4 Alena Kosareva:** Interaction of cirrus clouds and gravity waves in the UTLS region
- 7 Hannah Bergner:** Gravity waves and ice clouds – Interaction of dynamics and microphysics using a Lagrangian approach
- 12 Anahí Villalba Pradas:** Do we understand the role of atmospheric gravity waves for the stratosphere- troposphere exchange in the tropics?
- 46 Laura Tomsche:** Injection of water vapor into the stratosphere in a convective system above Europe – a measurement perspective
- 15 Lisa Schneider:** Refractory particles in the East Asian UTLS during the Asian summer monsoon anticyclone as seen from a single particle perspective
- 20 Muhammad Zeeshan Shahid:** Decadal Variability of Aerosol Optical Properties over the Indo-Gangetic Plain in South Asia
- 26 Gregory Schill:** Single-Particle Aerosol Composition in the Asian Tropopause Aerosol Layer and in the North American Upper Troposphere/Lower Stratosphere during ACCLIP
- 29 Gordon Novak:** In-situ measurements of reactive halogen and nitrogen species in the UTLS and constraints on heterogeneous cycling
- 32 Fatih Ekinci:** Airborne observations conducted in the extratropical UTLS reveal ammonium nitrate particles associated with the Asian summer monsoon
- 38 Oliver Eppers:** Chemical characterization of aerosol particles in the eastern outflow region of the Asian Tropopause Aerosol Layer
- 43 Oleh Kachula:** Interannual variability of the Asian Summer Monsoon Anticyclone

Poster Session 3

- 2** *Zuzana Procházková*: ERA5-based gravity wave climatology
- 3** *Madhuri Umbarkar*: Gravity waves and shear in the lower stratosphere: idealized baroclinic life cycle experiments
- 8** *Irmgard Knop*: Impact of small-scale gravity waves on tracer transport
- 11** *Tobias Göcke*: Higher Moments in the Sky. Distribution of small scale variables, comparing NWP-model against in-situ observations.
- 14** *Chun Hang Chau*: Simulated mixing in the upper troposphere by small scale turbulence in MECO(n)
- 17** *Roshny Siri Jagan*: Impact of turbulence parameterization and vertical grid spacing on orographic gravity waves and turbulence in the UTLS
- 23** *Ming Hon Franco Lee*: Influence of clear air turbulence on the dynamics and exchange in the extratropical tropopause region
- 22** *Mansoorah Abdollahi*: Structure formation and mixing at the extratropical tropopause region
- 25** *Daniel Kunkel*: A novel diagnostic to determine regions of non-conservation of potential vorticity
- 30** *Andreas Schäfler*: Influence of synoptic-scale weather systems on paired H₂O–O₃ distributions in the UTLS - a case study using collocated airborne lidar observations
- 33** *Nicolas Emig*: Fine scale composition gradients and mixing at the tropopause region
- 36** *Ziyan Guo*: Climatological Quantifications of Warm Conveyor Belt Contributions to UTLS Moisture
- 41** *Marc Bär*: Analysis of convective Transport in ICON and ICON/MESSy
- 42** *Shweta Singh*: Simulating moist deep exchange over the European Alps using the ICON-RTTOV
- 47** *Annette Miltenberger*: Modification of air mass composition by deep convection - Lagrangian diagnostics to connect convective inflow and outflow
- 49** *Annette Miltenberger*: Lagrangian diagnostics for the interpretation of aircraft data - impact of a stochastic trajectory module

Poster Session 4

- 5 *Franziska Weyland*: Long-term changes in the thermodynamic structure of the lowermost stratosphere based on reanalysis data
- 10 *Hella Garny*: A review of Age of stratospheric air: Progress on processes, observations and long-term trends
- 13 *Patrick Konjari*: Water vapor variability in the extratropical UTLS from combined passenger and research aircraft measurements
- 18 *Nils Brast*: Temporal and Spatial Patterns of Ice Supersaturation: A 3D climatology over the North Atlantic Region
- 19 *Susanne Rohs / Yun Li*: Climatologies and trends from IAGOS water vapour and RH_{ice} in the Ex-UTLS of the northern mid-latitudes
- 28 *Christoph Brühl*: Radiative forcing and radiative heating by stratospheric aerosol from volcanoes and major forest fires in the period 1991 to 2022
- 31 *Tanja Schuck*: Interhemispheric gradients of halogenated tracers in the upper troposphere
- 34 *Vaidehi Joshi*: Transport processes regulating the lowermost stratospheric ozone reservoir
- 39 *Piera Raspollini*: CAIRT measurements for improving the knowledge of UTLS and the added value of synergistic exploitation of limb and nadir imaging measurements
- 44 *Hans-Christoph Lachnitt*: Observational data synthesis (Central Project Z01)
- 24 *Lianet Hernández Pardo*: The Tropical Upper-Tropospheric Aerosol Source: Pathways, Impact, and Significance for Other Regions