

## Poster Lightning Session: PS2

Boulder: Mon 10:30 am (MDT)

Reading: 5:30 pm (BST)

| Presenter          | Title   |
|--------------------|---|
| Aaron Match        | Tropospheric expansion under global warming reduces tropical lower stratospheric ozone  |
| Alexis Mariaccia   | New classification showing the stratospheric memory concept: towards a better seasonal prediction   |
| Aman Gupta         | Gravity Wave Momentum Flux Estimation Across Observations, Reanalyses and High-Resolution Models  |
| Amit Kumar Pandit  | Micro-COPP: A Balloon-borne Package for Ice-Cloud Microphysics, Results from the BATAL Campaigns  |
| Catherine Wilka    | The Importance of Single Wavenumber Interactions for Stratospheric Dynamics   |
| Claire Valva       | A data-driven analysis of the Quasi-Biennial Oscillation with Koopman modes   |
| Daniele Visioni    | ESM differences in stratospheric transport and aerosol microphysics as inferred by the GeoMIP G6Sulfur experiment   |
| David Connelly     | Online Performance of Data-Driven Gravity Wave Parameterizations: Regression Tree Approaches  |
| Dillon Elsbury     | The response of the North Pacific jet and stratosphere-to-troposphere mass transport over western North America to RCP8.5 climate forcing   |
| Ewa Bednarz        | Climate impacts from sulfate aerosol injection and their dependence on the injection latitude   |
| Hamid A. Pahlavan  | QBO Modulation of Stratospheric Gravity Waves: A Reanalysis Perspective with ERA5   |
| Hongwei Sun        | Investigate Particle Transport in the Stratosphere for Stratospheric Aerosol Injection  |
| Jae Won Lee        | The Evolutions and Large-scale Mechanisms of Summer Stratospheric Ozone Intrusion across Global Hotspots  |
| Jiabao Wang        | High Vertical Resolution CESM Dataset for S2S prediction  |
| Jingyuan Li        | The influence of AMOC on monsoonal circulations   |
| Jonathan Beverley  | Rapid development of ENSO-related seasonal forecast errors  |
| Kai Huang          | The Impacts of the QBO on MJO Case Hindcasts in CESM2 Prediction System   |
| Kate Smith         | Observations of short-lived (< 6 months) trace gas species in the lower stratosphere over North America during the Summer of 2021   |
| Kevin Bloxam       | A CMIP6 Analysis of Temperature Trends in the Winter Arctic Stratosphere and the Role of Sudden Stratospheric Warmings  |
| Kimberlee Dube     | Tropopause-level NO <sub>x</sub> in the Asian Summer Monsoon  |
| Lan Luan           | Tropical tropopause layer structure and the roles of waves during QBO disruptions   |
| Laura Saunders     | Evaluating simulations of short-lived climate forcers using ACE-FTS   |
| Louis Rivoire      | Detecting tropopause folds using total column ozone   |
| Lucia Yang         | Sampling Strategies for Training Machine Learning emulators of Gravity wave parameterizations   |
| Martina Bramberger | Observations of gravity waves stationary to convective cells and their effects in the upper tropical tropopause layer   |
| Nicholas Davis     | Limited surface impacts of the January 2021 sudden stratospheric warming  |
| Nicholas Ernest    | Deriving aerosol size distributions from the University of Wyoming optical particle counter measurements at SAGE II wavelengths   |
| Oliver Millin      | The Stratospheric Connection to Cold Air Outbreaks in the Great Plains of the United States   |
| Pragallva Barpanda | What causes atmospheric blocks? - A new perspective using the finite amplitude wave activity theory   |
| Pragallva Barpanda | Role of Subtropical Rossby Waves in Amplifying the Kelvin-Mode Circulation Component of the Madden-Julian Oscillation   |
| Ryan Stauffer      | SHADOZ's Silver Anniversary: 25 Years of Accomplishments from the Premier Tropical Ozone Sonde Network  |
| Salauddin Mohammad | A cloud model study of internal gravity wave breaking atop a high shear supercell in US High Plains   |
| Salauddin Mohammad | Seasonal effects of atmospheric waves over tropical tropopause using radiosonde observations at Hyderabad, India  |
| Sandro Vattioni    | Risks and benefits of stratospheric solid particle injection for climate intervention   |
| Sebastian Rhode    | A fast parametrization of oblique mountain wave momentum flux transport   |
| Simon Lee          | Large Modulation of Atmospheric Rivers by the Arctic Stratospheric Polar Vortex   |
| Victoria Treadaway | Tropical Cyclone Impacts on Upper Tropospheric Halocarbon and Hydrocarbon Mixing Ratios   |
| Xinyue Wang        | Stratospheric Responses to the Hunga Tonga Volcanic Eruption  |
| Yaowei Li          | Volcanic and Wildfire Perturbations of Aerosols in the Stratosphere and Upper Troposphere during the DCOTSS Airborne Mission  |
| Ying Dai           | Dynamics and Impacts of the North Pacific Eddy-Driven Jet Response to Sudden Stratospheric Warmings   |
| Yuanpu Li          | The influence of the stratospheric quasi-biennial oscillation on the tropical easterly jet over the ocean continent   |
| Yue Jia            | Quantifying the accuracy and stability of ozone measurements from the Ozone Mapping and Profiler Suite Limb Profiler (OMPS-LP) for inclusion into a long-term climate data record |
| Zoe Gillett        | Sensitivity of the Southern Hemisphere Wintertime Teleconnection to the Location of ENSO Heating  |