Poster Session: RS1

Mon 8 am - Wed 4 pm (BST)

Yellow = online

ID #	Presenter	Title	
RS1-1	Aleena Moolakkunnel Jaison	The role and representation of tropical wave sources in alleviating circulation biases	ECR
RS1-2	Ales Kuchar	On the reliability of large ensembles simulating stratospheric polar vortex	ECR
RS1-3	Ales Kuchar	Role of gravity waves detected by AIRS in shaping stratospheric polar vortex	ECR
RS1-4	Alice Wells	Observations of the Raikoke volcanic eruption and model simulations using the UKESM1 climate model reveal improved agreement when volcanic ash is included	ECR
RS1-5	Alison Ming	The year-to-year variability of tropical lower stratospheric temperatures	ECR
RS1-6	Amanda Maycock	Feature Based Analysis of the North Atlantic Eddy-Driven Jet	
RS1-7	Amanda Maycock	The signal of North Atlantic weather regimes in extratropical cyclone impacts	
	Andrea K. Steiner	Observing atmospheric temperature change – New insights with GNSS radio occultation	
RS1-8	Andrea Schneidereit	Influence of the QBO on organized tropical deep convection: role of wind amplitude and vertical wind shear	
RS1-9	Andreas Dörnbrack	Stratospheric mountain waves trailing across Northern Europe	
RS1-10	Andreas Dörnbrack	High-resolution aircraft observations of turbulence and waves in the free atmosphere and comparison with global model predictions	
	Andrey Gritsun (presented by Vasilisa Vorobyeva)	Decadal prediction system on the basis of climate model INM-CM5-0	
RS1-11	Beatriz Monge-Sanz	The Brewer-Dobson Circulation in the SPARC Reanalysis Intercomparison Project	
	Bernard Legras	The stratospheric plume of the Hunga Tonga eruption of 15 January 2022	
	Bernard Legras	Ascending smoke vortices in the stratosphere	
RS1-12	Bianca Mezzina	Drivers of extreme Antarctic ice extents in summer over the period 1979-2022	ECR
RS1-13	Birgit Hassler	Cloud parameters as seen by different reanalysis datasets	
RS1-14	Bruce Ingleby	Stratospheric seasonality and its implications for observation requirements	
	Chaim Garfinkel	Contrasting the downward surface impacts of ozone depletion and sudden stratospheric warmings	
RS1-15	Charles Powell	Penetration of convective plumes into a strongly stably stratified region	ECR
	Corinna Kloss	Aerosol characterization within the stratospheric plume from the volcanic eruption at Hunga Tonga January 15th 2022	ECR
RS1-16	Corwin Wright	Unique stratospheric waves generated by the 2022 Hunga Tonga-Hunga Ha'apai eruption	
RS1-17	Dhruba Banerjee	The influence of different solar activities like mean Sun spot number (SSN), Solar flux F10.7, Lyman Alpha flux and Total solar Irradiance(TSI) over Tropical Cyclones and Atlantic Hurricanes during 1979 to 2018	ECR
RS1-18	Dina Khordakova	Spectral filtering of gravity waves in the QBO: results from high resolution ICON simulations	ECR
RS1-19	Dominika Hájková	Analysing differences of orographic gravity wave parameterization schemes in CMIP6 models	ECR
	Dong-Chan Hong	Downward influence of Sudden Stratospheric Warmings: A case study of 2018 SSW	ECR
RS1-20	Elio Campitelli	Forcings and surface impacts of the austral Spring Extratropical Southern Hemisphere zonally asymmetric circulation	ECR
RS1-21	Emily Lear	Comparing gravity waves in a kilometer scale run of the IFS to AIRS satellite observations and ERA5	ECR
RS1-22	Felix Jäger	Forestation Effects on Patterns of the Global Circulation	ECR
RS1-23	Felix Jäger	Robust poleward jet shifts in idealised baroclinic-wave life-cycle experiments with noisy initial conditions	ECR
RS1-24	Franziska Zilker	Stratosphere-troposphere coupling under the extreme conditions of the No-Montreal-Protocol scenario	ECR
RS1-25	Gabriel Chiodo	The climatic impacts of halocarbons in CMIP6 models	ECR
RS1-26	Georgios Fragkoulidis	Decadal variability in extratropical Rossby wave packet amplitude, phase, and phase speed	ECR
RS1-27	Henning Franke	Wave-mean flow interactions of resolved gravity waves in the tropical stratosphere in a warming climate	ECR
	Hilla Afargan-Gerstman	The relative contribution of stratospheric and tropospheric drivers for the downward impact of sudden stratospheric warmings	ECR
RS1-28	Inna Polichtchouk	The CAIRT Earth Explorer 11 mission: A way towards global GW momentum budgets	
	Inna Semenova	Recent trends in atmospheric blocking over Europe	ECR
	Jiyoung Oh	Impact of Stratospheric Ozone on the Subseasonal Prediction in the Southern Hemisphere Spring	ECR
RS1-29	Kathrin Finke	Tropospheric Response to Stratospheric Variability via Lagged Quantile Regression	ECR
	Masha Tarasevich	Sources of the winter NAO predictability in seasonal hindcasts of the INM RAS climate model	ECR
	Min-Jee Kang	Role of tropical lower stratosphere winds in quasi-biennial oscillation disruptions	ECR
RS1-30	Molly Menzel	Connections between upper tropospheric and lower stratospheric circulation responses to increased CO2	ECR
	Nahuel Gómez	What prevented the stratospheric westerlies from reversing during the 2019 Antarctic minor warming?	ECR
RS1-31	Neil Hindley	Satellite observations of gravity waves at the stratospheric speed limit from the Hunga Tonga volcanic eruption	ECR
RS1-32	Nithya Kunnath	On the Zonal Oscillation of Tropical Easterly Jet stream During the Active and Break Spells of Indian Summer Monsoon	ECR
	Nour-Eddine Omrani	Coupled stratosphere-troposphere-Atlantic multidecadal oscillation and its importance for near-future climate projection	
RS1-33	Peter Krizan	Comparison of performance of selected homogeneity tests for total ozone data from ERA-5 and MERRA -2	
RS1-34	Phoebe Noble	Atmospheric gravity waves over the Southern Andes in observations and reanalysis	ECR
	Priyanka Yadav	The role of the stratosphere in teleconnections arising from slow and fast MJO episodes	ECR
RS1-35	Quentin Errera	Correlations between long-lived stratospheric tracers and mean age-of-air using chemistry transport model simulations driven by meteorological reanalyses	
	Reinhold Spang	Radiative impact of thin cirrus clouds in the tropopause and lowermost stratosphere region	
RS1-36	Roland Eichinger	Horizontal redistribution of orographic gravity wave flux in a global chemistry-climate model	
	Sabine Bischof	The role of the ocean for the development of heat waves over Europe	ECR

RS1-37	Sandip Dhomse	Constructing vertical profiles of stratospheric trace gases using machine learning	
RS1-38	Sandro Vattioni	Risks and benefits of stratospheric solid particle injection for climate intervention	ECR
	Siddarth Shankar Das	Diurnal variability of lower and middle atmospheric water vapour over the Asian Summer Monsoon region: Results inferred from COSMIC-1 and TIMED-SABER measurements	
RS1-39	Simone Brunamonti	Laser absorption spectroscopy for balloon-borne measurements of UTLS water vapor	ECR
	Sophie Godin-Beekmann	Updated trends of the stratospheric ozone vertical distribution in the 60°S-60°N latitude range based on the LOTUS regression model	
RS1-40	Timothy Banyard	The 2019/2020 Quasi-Biennial Oscillation Disruption Observed by Aeolus Wind Lidar	ECR
RS1-41	Verónica Martínez-Andradas	How do the troposphere and stratosphere differ for SSWs with and without a North Atlantic response?	ECR
	Viktoria Sofieva	Seasonal and regional stratospheric ozone trends evaluated using merged satellite datasets	
RS1-42	Zuzana Procházková	Comparison of various methods for gravity wave drag estimation from high-resolution model simulations	ECR

Poster Session: RS2

Thu 9 am - Fri 6.30 pm (BST)

Yellow = online

ID #	Presenter	Title	
RS2-1	Alexey Karpechko	Northern Hemisphere Stratosphere-Troposphere Circulation Change in CMIP6 Models	
RS2-2	Alvaro de la Cámara	Connecting biases in the stratospheric polar vortex and sea surface temperature in CMIP6 models	
RS2-3	Andrew Bushell	Exploring the impact of atmospheric vertical resolution on the climate of a general circulation model.	
RS2-4	Andrew Charlton-Perez	A Minimal Model to Diagnose the Contribution of the Stratosphere to Tropospheric Forecast Skill	
RS2-5	Blanca Ayarzagüena	Interaction between decadal-to-multidecadal oceanic variability and sudden stratospheric warmings	
RS2-6	Clara Pitois	Detection of turbulence from temperature, pressure and position measurements under superpressure balloons.	ECR
RS2-7	Emmanuel D. Riviere	Modulation of water vapour by equatorial waves in the lower stratosphere inferred from long duration balloon observations during STRATEOLE 2	
	Frederik Harzer	Coupled Interannual Polar Vortex-Ozone Variability	ECR
	Hans-Christoph Lachnitt	Gravity wave induced cross-isentropic mixing: A DEEPWAVE case study	ECR
RS2-8	Hao Ye	Long-term trends and radiative impact in vertically resolved stratospheric water vapour from ESA WV_cci data records	ECR
RS2-9	Haruka Okui	Preconditioning in the Mesosphere and Stratosphere Prior to Stratospheric Sudden Warmings and Roles of Waves in Its Mechanism	ECR
RS2-10	Herman Fuglestvedt	High-Latitude Volcanic Eruptions – Aerosol Formation Controlled by Internal Variability of the Stratosphere	ECR
RS2-11	Inna Polichtchouk	Resolved gravity waves in the stratosphere: Impact of horizontal resolution increase from O(10 km) to O(1 km)	
RS2-12	Irina Statnaia	Factors affecting sub-seasonal forecast skill of Northern Eurasian cold spells.	ECR
RS2-13	James Keeble	Role of Stratosphere-Troposphere Exchange of Ozone in the Earth System	ECR
RS2-14	Jim Haywood	Australian wildfires cause the largest stratospheric warming since Pinatubo and extends the lifetime of the Antarctic ozone hole	
	Kamilya Yessimbet	A causal inference analysis of pathways of influence between NH blocking and stratospheric polar vortex variability	ECR
	Khalil Karami	The climatology of the elevated stratopause events in UA-ICON and the contribution of gravity waves	ECR
	Khalil Karami	The Holton-Tan mechanism under stratospheric aerosol interventions	ECR
RS2-15	Kirstin Krüger	How large has a volcanic eruption to be to disrupt the QBO?	
	Kleareti Tourpali	CCMI-2022 Ref-D1 stratospheric ozone profiles: trends, natural variability and comparison to observations and CCMI-1 Ref-C2	
RS2-16	Lesigne Thomas	Tropical Tropopause Layer cloud measurements from long-duration balloon-borne LiDAR and their complementarity with space-borne observations.	ECR
RS2-17	Marco Giorgetta	The QBO forcing in a global simulation with explicit convection and gravity waves	
RS2-18	Marina Friedel	Ozone-induced Modulation of Final Stratospheric Warmings and their Effects on Surface Climate	ECR
RS2-19	Mark Baldwin	The strength of the stratospheric polar vortex modulates mid-latitude snowfall	
RS2-20	Marta Abalos	Seasonality of trends in lower stratospheric transport	
RS2-21	Martin Andrews	Searching for the QBO-MJO connection in GloSea5 seasonal hindcasts	
RS2-22	Márton Mester	Signatures of resonantly triggered vortex splitting sudden warmings in idealized model experiments	ECR
RS2-23	Matthew Davison	A Reaction, Diffusion and Dynamics Model of the Tropical Atmosphere	ECR
	Michal Kozubek	Climatology and Long-Term Trends in the Stratospheric Temperature and Wind Using ERA5	
	Mohamadou Diallo	Evidence of the long-term stratospheric circulation changes as predicted by Climate models in the ERA5 reanalysis over 1960-2020	
	Moritz Günther	Climate Feedback to Volcanic Aerosol Forcing explained by pattern effect	ECR
RS2-24	Muhsin Muhammed	Diurnal variations on the thermal structure of the troposphere and lower stratosphere using balloon-borne observation	ECR
RS2-25	MUSAID P P	Asian summer monsoon anticyclone and its relationship with tropical easterly and subtropical westerly jets	ECR
RS2-26	Nicholas Tyrrell	The response of ENSO-stratospheric teleconnections to future dynamical and thermal changes	ECR
RS2-27	PANKAJ KUMAR	Causal discovery of drivers of surface ozone variability in Antarctica using a deep learning algorithm	ECR
	Peter Hoor	The ExTL or mixing layer: A dynamical explanation for the distinct structurce of the lowermost stratosphere	
RS2-28	Philip Rupp	Potential Links Between Tropospheric and Stratospheric Circulation Extremes During Early 2020	ECR
RS2-29	Philipp Breul	Relationship between southern hemispheric jet variability and forced response: the role of the stratosphere	ECR
RS2-30	Philipp Breul	Revisiting the wintertime emergent constraint of the Southern Hemispheric midlatitude jet response to global warming	ECR
RS2-31	Rachel Wai-Ying Wu	Understanding the Differences in the Sub-seasonal Predictability of Extreme Stratospheric Events: The extreme wave activity flux events in 2009 and 2018	ECR
RS2-32	Radek Zajícek	Not only is the Brewer-Dobson circulation increasing and moving upward.	ECR
RS2-33	Ralph Lehmann	Rapid net HCl formation in the Antarctic spring stratosphere despite counteracting heterogeneous chemistry	
RS2-34	Regan Mudhar	Understanding the Stratospheric Response to Arctic Amplification	ECR
	Robin Pilch Kedzierski	Cold-point tropopause temperature bias in reanalyses modulated by equatorial waves	ECR
RS2-35	Samuel Benito-Barca	Driving mechanisms for the ENSO impact on stratospheric ozone	ECR
RS2-36	Sheena Loeffel	How predictable is the downward influence of stratospheric extreme events on the tropospheric flow?	ECR
RS2-37	Sourabh Bal	Assessment of COSMO-CLM model parameter sensitivity for extreme events over the eastern states of India	
RS2-38	Sreenath Avaronthan Veettil	West coast India's rainfall is becoming more convective	ECR
	Sunil Kumar S V	A novel approach to study the thermodynamic and tracer distributions in the troposphere and lower stratosphere over the Indian monsoon region	
	Thorsten Kaluza	Turbulence as the key mechanism for the formation the extratropical transition layer	ECR
RS2-39	Tómas Zoëga	Modelling the regional climate response of the 2014-15 Holuhraun eruption using CESM with variable resolution	ECR
	Vasilisa Vorobyeva	Assessing the seasonal prediction skill of the INMCM5 climate model in winter and summer hindcasts	ECR
RS2-40	Venugopal Veenus	Modulation of Brewer-Dobson Circulation's intensity and stratospheric composition by sudden stratospheric warming events	ECR
	Vera Bense	Transport processes in the lowermost stratosphere - interhemispheric differences from trace gas observations during WISE, POLSTRACC and SouthTRAC	ECR
RS2-41	Vinay Kumar	Combine impact of QBO and ENSO for their remote modulations in the northern hemisphere	ECR
RS2-42	William Collins	What does "Net Zero" mean for chemically reactive gases?	

RS2-43	Wolfgang Wicker	The impact of vertical resolution on gravity wave drag in sub-seasonal hindcasts during sudden stratospheric warmings	ECR
RS2-44	Wookap Choi	Quasi-biennial Oscillation Modulation of Upper-stratospheric High-latitude Planetary Waves in the Northern Hemisphere Spring	
RS2-45	Xin Zhou	Prolonged Impact of Volcanic Eruption on Stratospheric Water Vapour	ECR
RS2-46	Zheng Wu	Extended-range predictability of stratospheric extreme events using explainable machine learning	ECR
RS2-47	Zhihong Zhuo	Impacts of tropical versus extratropical volcanic eruptions co-injecting sulphur and halogen to the stratosphere	ECR
RS2-48	Zihao Wang	Impact of Chlorine from Very Short-Lived Substances on Stratospheric Ozone	ECR