

Monday/Tuesday

1. Stratospheric Ozone Science

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Modeling and Simulation Studies					
1-01	1-01_Müller	276	Rolf	Müller	The impact of dehydration and initial HCl on HCl null cycles and ozone loss in the Antarctic lower stratosphere in the core of the vortex
1-02	1-02_Minganti	217	Daniele	Minganti	Optimization of the calculation of the photodissociation rates in the stratosphere in the BASCOE module of the IFS-COMPO
1-03	1-03_Colarco	201	Peter	Colarco	Simulations of Stratospheric Atmospheric Composition in a Changing Climate with the NASA GEOS CCM
1-04	1-04_Jones	216	Nicholas	Jones	Trends in stratospheric ozone from a range of measurements and a CTM model compared against a range of know proxies for dynamical affects.
1-05	1-05_Lait	177	Leslie	Lait	An Examination of Autumn Southern Polar Ozone Tendencies and the Residual Circulation in MERRA-2 Products
Atmospheric Dynamics and Circulation					
1-06	1-06_Koval	214	Andrey	Koval	Arctic stratosphere changes in the 21st century in the Earth system model SOCOLv4
1-07	1-07_Koval	89	Andrey	Koval	Influence of natural tropical oscillations on meridional circulation and ozone content in the winter polar stratosphere
1-08	1-08_Langemantz	126	Ulrike	Langemantz	Sensitivity of Stratospheric Ozone to Natural and Anthropogenic Forcings
1-09	1-09_Li	120	Yajuan	Li	Response of Stratospheric Ozone and Temperature to the 11-year Solar Cycle Signal
1-10	1-10_Kessenich	103	Hannah	Kessenich	Potential Mesospheric Drivers of the Recent Antarctic Stratospheric Ozone Holes
1-11	1-11_Godin-Beekmann	315	Sophie	Godin-Beekmann	Assessment of ozone long-term evolution from 35 years of ozone monitoring by multiple instruments at a Northern Mid-Latitude Station
Wildfire Impacts					
1-12	1-12_Zhang	82	Selena	Zhang	Investigating the vertical extent of the 2023 summer Canadian wildfire impacts with satellite observations
1-13	1-13_Guan	90	Jian	Guan	Impacts of Wildfires and Volcanic Events on Stratospheric HCl
Volcanic Eruptions and Aerosols					
1-14	1-14_Zhou	215	Xin	Zhou	Increasing Age of Stratospheric Air in Late 2023 following the Hunga Tonga-Hunga Ha'apai Eruption
1-15	1-15_Fleming	209	Eric	Fleming	Stratospheric impacts of the Hunga H2O and aerosol perturbations and QBO
1-16	1-16_Wang	181	Xinyue	Wang	Long-term temperature impacts of Hunga in the stratosphere and above
1-17	1-17_Nedoluha	221	Gerald	Nedoluha	The Spread of the Hunga Tonga H2O Plume in the Middle Atmosphere Over the First Two Years Since Eruption
1-18	1-18_Taha	80	Ghassan	Taha	The Ongoing Journey of the 2022 Hunga Tonga-Hunga Ha'apai Aerosol Plume
1-19	1-19_Giles	310	David	Giles	Tracking the Hunga Tonga-Hunga Ha'apai Eruption Stratospheric Aerosol and Trace Gas Plumes Using Machine Learning
1-20	1-20_Leavor	250	Kevin	Leavor	SAGE III/ISS Observations of Seasonally-Adjusted Evolution of Stratospheric Ozone and Related Substances Following Hunga Tonga
1-21	1-21_Santee	99	Michelle	Santee	Chemical Processing and Ozone Loss in the Southern Hemisphere Stratosphere Following the Eruption of the Hunga Volcano
1-22	1-22_Asher	171	Elizabeth	Asher	Springtime polar stratospheric measurements of water vapor, ozone, and aerosol following the Hunga eruption

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1-24	1-24_Heddell	293	Saffron	Heddell	The effects of the January 2022 Hunga Tonga-Hunga Ha'apai eruption on polar stratospheric ozone
1-25	1-25_smale	55	dan	smale	The impact of the Hunga volcanic eruption on the 2023 Antarctic Ozone Hole as observed from Arrival Heights, Antarctica..
1-26	1-26_Kozubek	17	Michal	Kozubek	Large ozone hole in 2023 and the Hunga Tonga volcanic eruption
1-27	1-27_Zhu	85	Yunqian	Zhu	Stratospheric aerosol and chemistry evolution inside the volcanic plume shortly after the 2022 Hunga Tonga eruption
1-28	1-28_Mann	298	Graham	Mann	Recovered measurements of the 1960s stratospheric aerosol layer and interactive model experiments to assess the Agung, Taal and Awu volcanic aerosol clouds
1-29	1-29_Schill	259	Gregory	Schill	Stratospheric Aerosol Composition during ACCLIP and SABRE
1-30	1-30_Murphy	300	Daniel	Murphy	Aerosol Chemistry in the Lower Stratosphere
Stratospheric Aerosol Injection and Geoengineering					
1-31	1-31_Maloney	76	Christopher	Maloney	The potential impact of increased satellite reentry emissions upon Earth's middle atmosphere and ozone
1-32	1-32_Maloney	261	Christopher	Maloney	The Stratospheric and Ozone Impacts of Projected Increases in Rocket Launches
1-33	1-33_Revell	182	Laura	Revell	Worldwide Rocket Launch Emissions: Projected Impacts on Stratospheric Ozone
1-34	1-34_Bednarz	60	Ewa	Bednarz	Injection strategy – a driver of atmospheric circulation and ozone response to stratospheric aerosol geoengineering
1-35	1-35_Diallo	229	Mohamadou A.	Diallo	Uncertainties and ozone impacts in the stratospheric circulation response to stratospheric aerosol injections
1-36	1-36_Jörimann	39	Andrin	Jörimann	Ozone in a Stratospheric Aerosol Injection Scenario
Ozone Trends and Variability					
1-37	1-37_Revell	25	Laura	Revell	Signal-To-Noise Calculations of Emergence and De-Emergence of Stratospheric Ozone Depletion
1-38	1-38_Novak	185	Gordon	Novak	In-situ constraints on reactive halogen and nitrogen cycling and heterogeneous chemistry in the lower stratosphere
1-39	1-39_Chrysanthou	45	Andreas	Chrysanthou	The conundrum of the recent variations in stratospheric ozone: An update
1-40	1-40_Chrysanthou	206	Andreas	Chrysanthou	Revisiting the hemispheric asymmetry in HCl and O3 trends
1-41	1-41_Rüther	187	Lisa	Rüther	Extensive chemical ozone loss in the Arctic during the winter of 2019/2020: Chlorine partitioning in the World Avoided without the Montreal Protocol resembles conditions typical for Antarctica
1-42	1-42_Kuttippurath	146	Jayanarayanan	Kuttippurath	Arctic stratospheric ozone trends during the period 1988–2021
1-43	1-43_Kramarova	114	Natalya	Kramarova	20-year trend analysis of ozone partial columns in the lower Antarctic stratosphere in August-September
1-44	1-44_Cullis	252	Patrick	Cullis	Antarctic Ozone Hole Updates from South Pole Ozonesondes

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1-46	1-46_Milinevskiy	260	Gennadii	Milinevskiy	The vertical ozone distribution in the 1957–2023 period over the Faraday/Vernadsky Antarctic station
1-47	1-47_Abromitis	210	Kari	Abromitis	Understanding ozone-sonde trends and variability in UTLS: Using dynamical coordinates for consistent analysis of UTLS composition
1-48	1-48_Galytska	268	Evgenia	Galytska	Causal discovery in tropical stratospheric ozone variability
1-49	1-49_Jia	262	Yue	Jia	Assessing Ozone Trends: A Comparative Analysis of Modern Techniques
1-50	1-50_Murata	16	Isao	Murata	Recent trends of global ozone derived from ground-based and ozonesonde measurements
1-51	1-51_Vigouroux	222	Corinne	Vigouroux	Long-term trends of ozone total and stratospheric columns from the FTIR NDACC network and comparisons with MEGRIDOP
1-52	1-52_Prados-Roman	219	Cristina	Prados-Roman	Observations of O ₃ , NO ₂ , BrO and OCIO in the low stratosphere from three NDACC sites located in the southern hemisphere
1-53	1-53_Wild	50	Jeannette	Wild	Impacts of additional dynamical proxies on ozone trend estimates for NDACC/WMO ground-based stations and satellite COH overpass data
1-54	1-54_He	299	haotian	He	Antarctic stratospheric ozone trends from 1979 to 2023: Quantifying changes in observations and 3-D model data from ordinary and regularized fits
1-55	1-55_Auffarth	164	Brian	Auffarth	Comparison of long-term trends of merged limb ozone profile datasets and improved assessment of trend uncertainties
1-56	1-56_Coldewey-Egbers	73	Melanie	Coldewey-Egbers	Updated global, regional, and seasonal ozone trends 1995-2023 derived from the extended GOME-type Total Ozone Essential Climate Variable (GTO-ECV) data record
1-57	1-57_Coldewey-Egbers	150	Melanie	Coldewey-Egbers	The novel GOME-type Ozone Profile Essential Climate Variable (GOP-ECV) covering more than two decades
1-58	1-58_Smith	254	Jessica	Smith	The Imminent Data Desert and The Future of Stratospheric Science in a Rapidly Changing World