

SPARC 2022 General Assembly

Monday 24 October - Day 1

Theme		Europe Hub - Reading	
		BST time	Session
	Welcome	08:00 - 08:30 08:30 - 08:45 08:45 - 09:00	Registration Welcome from the ECMWF Director of Forecasts, SPARC co-chairs, and local organisers Meeting logistics
New understanding of atmospheric composition and variability.	OS 1	09:00 - 09:30	Detlef Stammer - Invited speaker: World Climate Research Programme (WCRP)
		09:30 - 10:00	Martyn Chipperfield - Invited speaker: Recent results from coupled Chemistry-Climate Model studies of the middle and lower atmosphere
		10:00 - 10:15	Yajuan Li - The updated trends and solar response in stratospheric ozone based on satellite data and Model simulations
		10:15 - 10:30	Birgit Hassler - Scientific basis for Chapter 3 of the upcoming WMO Assessment 2022
		10:30 - 10:45	Sören Johansson - Ammonia (NH ₃) in the UTLS: GLORIA airborne measurements for CAMS model evaluation in the Asian Monsoon and in biomass burning plumes above the South Atlantic
		10:45 - 11:15	Coffee Break
	PS 1	11:15 - 12:30	1 hour 15 min Lightning Poster Talks - PS 1
		12:30 - 14:00	Lunch
	RS	14:00 - 16:00	2 hour Poster Session - RS1
New understanding of atmospheric composition and variability.	OS 2	16:00 - 16:30	Luis Millan - Invited speaker: Understanding satellite, aircraft, balloon, and ground-based ozone variability: Using dynamical coordinates for consistent analysis of UTLS composition
		16:30 - 16:45	Holger Vömel - Injection of unprecedented amounts of water vapor into the stratosphere by the eruption of Hunga Tonga-Hunga Ha'apai
		16:45 - 17:00	Jun Zhang - Influence of the Asian Summer Monsoon on the Chemical Composition of the UTLS using the MUSICA
		17:00 - 17:15	Kevin Leavor - SAGE III/ISS Observations of Stratospheric Impacts from the 2022 Tonga Eruption
		17:15 - 17:30	Coffee Break
	PS 2	17:30 - 18:30	1 hour Lightning Poster Talks - PS 2

Colour-code Key

Presenter in Reading, UK

Presenter in Boulder, USA

Presenter in Qingdao, China

Presenter online

Recording of previous session plays

Lightning Poster Talks

Lunch/Coffee Break

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Tuesday 25 October - Day 2

Theme		Europe Hub - Reading Session	
		BST time	Session
	PS 3	09:00 - 10:00	1 hour Lightning Poster Talks - PS 3
How do dynamical processes shape climate variability and trends?	OS 4	10:00 - 10:15	Julia Mindlin - Combined effect of GHG Forcing and Ozone Depletion/Recovery in Southern Hemisphere Atmospheric Circulation and Regional Precipitation Changes
		10:15 - 10:30	William Seviour - Stratospheric polar vortex splits and displacements, and their surface impacts, in CMIP6
		10:30 - 10:45	Melissa Seabrook - Interannual vs Decadal Impacts of Pacific Variability
		10:45 - 11:00	Irina Rudeva - From frequency of short-term atmospheric circulation patterns to long-term global trends
	RS1	11:00 - 12:30	1.5 hour Poster Session + Coffee Break - RS1
		12:30 - 14:00	Lunch & ECR Mentor Lunch
		14:00 - 16:00	Recording of OS 3 plays & Coffee Break
	Panel Discussion	16:00 - 17:00	SPARC - The proposed new structure
		17:00 - 18:00	1 Hour Poster Session + Drinks - RS1
New understanding of atmospheric composition and variability.	OS 5	18:00 - 18:15	Michael Prather - From the middle stratosphere to the surface, using N2O to constrain the stratosphere-troposphere exchange of O3
		18:15 - 18:30	Peidong Wang - Chlorine processing after the 2020 Australian wildfire
		18:30 - 18:45	Warren Smith - A new approach for analyzing convective transport pathways and time scales using chemical in situ measurements and reanalysis
		19:30 onward	Early Career Researcher Event

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Wednesday 26 October - Day 3

Theme		Europe Hub - Reading Session	
		BST time	Session
		09:00 - 10:00	1 hour Lightning Poster Talks - PS 4
Past and future of SPARC	OS 7	10:00 - 10:20	Ted Shepherd - Invited speaker: Tracing the reasons for SPARC's success
		10:20 - 10:50	Irina Sandu - Invited speaker: Destination Earth first high-priority Digital Twins
Coupling between climate, radiation, and dynamics.		10:50 - 11:20	John Moore - Invited speaker: Stratospheric aerosol geo-engineering: what it might do, what it cannot, and what we need to find out
		11:20 - 11:50	Coffee Break
		11:50 - 13:00	Recording of OS 6 plays
		13:00 - 14:30	Lunch
	RS1	14:30 - 16:00	1.5 hour Poster Session + Coffee Break - RS1
	OS 8	16:00 - 16:30	Michelle Santee - Invited speaker: The end of an era: How satellite measurements have enriched our understanding of extreme events in the stratosphere and what we will lose when they come to an end
		16:30 - 16:45	Björn-Martin Sinnhuber - The Changing-Atmosphere Infra-Red Tomography Explorer CAIRT – a candidate for ESA's Earth Explorer 11
		16:45 - 17:00	Eric Sauvageat - Diurnal ozone variability in the middle atmosphere over Switzerland observed by two microwave radiometers
		17:00 - 17:15	Damien Héron - Observational evidence for particle layers above the cold point
		17:15 - 17:30	Christopher Kruse - Re-creating Observed Lower-Stratospheric Convective Gravity Waves from Radar Observations using a Neural Network
			Conference Dinner

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Thursday 27 October - Day 4		
Europe Hub - Reading Session		
Theme	BST time	Session
	09:00 - 09:30	Zhenya Song - Invited speaker: FIO-ESM : the earth system model coupled with ocean surface waves
	09:30 - 09:45	Dingzhu Hu - Interdecadal changes of the linkage between the stratospheric Arctic vortex and Arctic oscillation
Coupling between climate, radiation, and dynamics.	09:45 - 10:00	Pasquale Sellitto - Radiative impacts of the Australian bushfires 2019–2020 and Hunga Tonga volcano eruption 2022: comparison of extreme fires and volcanic eruptions
	10:00 - 10:15	Gabriel Chiodo - Stratospheric composition feedbacks in a changing climate: a review
	10:15 - 12:00	1 hour 45 min Poster Session + Coffee Break - RS2
	12:00 - 14:00	Lunch
	14:00 - 16:00	Recording of OS 9 plays
	16:00 - 17:00	1 hour Poster Session + Coffee Break - RS 2
Coupling between climate, radiation, and dynamics.	17:00 - 17:30	Hella Garmy - Invited Speaker: Role of stratospheric circulation in the climate system
	17:30 - 17:45	Diego Jimenez-de-la-Cuesta - An acceleration of the Brewer-Dobson circulation under warming reduces tropical equilibrium climate sensitivity even without composition feedback
	17:45 - 18:00	Mari Tye - The case for solar climate intervention research: some new data sets, and lots of open questions
	18:00 - 19:00	1 hour Poster Session - RS2

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Friday 28 October - Day 5	
Theme	Europe Hub - Reading Session
	BST time
Climate prediction from sub-seasonal to decades.	09:00 - 09:30 Marlene Kretschmer - Invited speaker: A causal framework to analyse teleconnections for subseasonal and seasonal predictions
	09:30 - 09:45 Tianjiao Ma - The observed influence of the Quasi-Biennial Oscillation in the lower equatorial stratosphere on the East Asian winter monsoon during early boreal winter
	09:45 - 10:00 Shunsuke Noguchi - Tropical Convective Responses to Weakening Events of the Southern Hemisphere Stratospheric Polar Vortex
	10:00 - 10:15 Closing session for Asia Hub
	10:15 - 12:00 1 hour 45 min Poster Session + Coffee break - RS2
	12:00 - 14:00 Lunch
	14:00 - 15:00 Recording of OS 12 plays
	15:00 - 16:00 1 hour Poster Session + Coffee break - RS2
Climate prediction from sub-seasonal to decades.	16:00 - 16:30 Peter Hitchcock - Invited speaker: Prospects for subseasonal forecasting based on stratospheric variability: The SNAPSI Project
	16:30 - 16:45 Zachary Lawrence - Stratosphere and stratosphere-troposphere coupling biases in subseasonal-to-seasonal forecast models: An international SPARC-SNAP community effort
	16:45 - 17:00 Daniela Domeisen - Linking planetary and synoptic scales for the surface response to SSW events
	17:00 - 17:15 Jonas Spaeth - Predictors of Arctic Oscillation Variability as Revealed by Subseasonal-to-Seasonal Forecasts
	17:15 - 17:30 Eniola Olaniyan - Real-time Sub-seasonal (S2S) Rainfall Forecasts Over West Africa for the 2020 and 2021 Monsoon Seasons: Performance Evaluation for Operational Use
	17:30 - 17:45 Nick Dunstone - Drivers and predictability of the Summer North Atlantic Oscillation
	17:45 - 18:30 Closing Session