

SPARC 2022 General Assembly

Monday 24 October - Day 1		
Americas Hub - Boulder		
Theme	Session	
MDT time	Registration	
	Welcome from NCAR director, SPARC co-chairs, and local organising committee	
	Meeting Logistics	
New understanding of atmospheric composition and variability.	Luis Millan - Invited speaker: Understanding satellite, aircraft, balloon, and ground-based ozone variability: Using dynamical coordinates for consistent analysis of UTLS composition	
	Holger Vömel - Injection of unprecedented amounts of water vapor into the stratosphere by the eruption of Hunga Tonga-Hunga Ha'apai	
	Jun Zhang - Influence of the Asian Summer Monsoon on the Chemical Composition of the UTLS using the MUSICA	
	Kevin Leavor - SAGE III/ISS Observations of Stratospheric Impacts from the 2022 Tonga Eruption	
	Coffee Break	
OS 2	10:30 - 11:30 1 hour Lightning Poster Talks - PS 2	
How do dynamical processes shape climate variability and trends?	BS1	11:30 - 12:30 1 hour Poster Session - BS1
		12:30 - 13:45 Lunch
		13:45 - 15:45 Recording of OS 1 plays & side meetings
	BS1	15:45 - 16:45 1 hour Poster Session + Drinks - BS1
		16:45 - 18:00 Recording of PS 1 plays & side meetings
OS 3		18:00 - 18:30 Isla Simpson - Invited speaker: Emergent constraints on future projected changes in the large-scale atmospheric circulation
		18:30 - 19:00 Eun-Pa Lim - Invited speaker: Southern Hemisphere stratosphere-troposphere coupled variability and its impacts
		19:00 - 19:15 Zoe Gillett - On the Dynamics of Indian Ocean Teleconnections into the Southern Hemisphere during Austral Winter
		19:15 - 19:30 Jadwiga Richter - Representation of the Tropical Stratosphere in Global Climate Models
		19:30 - 19:45 Yueyue Yu - A Dissection of the Topographic Effects from Eurasia and North America on the Isentropic Meridional Mass Circulation in Northern Winter
	19:45 - 20:00 Wen Chen - Influence of the Quasi-Biennial Oscillation on the spatial structure of the wintertime Arctic Oscillation	

Colour-code Key

Presenter in Reading, UK
Presenter in Colorado, USA
Presenter in Qingdao, China
Presenter online
Recording of previous session plays
Lightning Poster Talks
Lunch/Coffee Break

SPARC 2022 General Assembly

Tuesday 25 October - Day 2		
Americas Hub - Boulder		
Theme	MDT time	Session
	09:00 - 10:00	SPARC - The proposed new structure
	10:00 - 11:00	1 hour Poster Session + Coffee Break - BS1
New understanding of atmospheric composition and variability. New ways of viewing the atmosphere through observations and re-analyses.	11:00 - 11:15	Michael Prather - From the middle stratosphere to the surface, using N2O to constrain the stratosphere-troposphere exchange of O3
	11:15 - 11:30	Peidong Wang - Chlorine processing after the 2020 Australian wildfire
	11:30 - 11:45	Warren Smith - A new approach for analyzing convective transport pathways and time scales using chemical in situ measurements and reanalysis
	11:45 - 14:00	Lunch & ECR Mentor Lunch
	14:00 - 15:00	Recording of OS 4 plays
	15:00 - 17:00	2 hour Poster Session + Drinks - BS1
	17:00 - 18:00	Recording of PS 3 plays
Past and future of SPARC	18:00 - 18:20	Marv Geller - Invited speaker: SPARC – Its Early Beginnings
	18:20 - 18:40	Shigeo Yoden - Invited speaker: Stratosphere-Troposphere Dynamical Coupling in the Tropics: Influence of the equatorial Quasi-Biennial Oscillation on global monsoon systems
	18:40 - 19:10	Elizabeth Barnes - Invited speaker: Explainable AI for Climate Science: Detection, Prediction and Discovery
		Conference Dinner

SPARC 2022 General Assembly

Wednesday 26 October - Day 3		
Americas Hub - Boulder		
Theme	MDT time	Session
New ways of viewing the atmosphere through observations and re-analyses.	09:00 - 09:30	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
	09:30 - 09:45	Björn-Martin Sinnhuber - The Changing-Atmosphere Infra-Red Tomography Explorer CAIRT – a candidate for ESA's Earth Explorer 11
	09:45 - 10:00	Eric Sauvageat - Diurnal ozone variability in the middle atmosphere over Switzerland observed by two microwave radiometers
	10:00 - 10:15	Damien Héron - Observational evidence for particle layers above the cold point
	10:15 - 10:30	Christopher Kruse - Recreating Observed Lower-Stratospheric Convective Gravity Waves from Radar Observations using a Neural Network
	10:30 - 12:00	1.5 Hour Poster Session + Coffee Break - BS2
	12:00 - 13:40	Lunch
Coupling between climate, radiation, and dynamics.	13:40 - 15:00	Recording of OS 7 Plays
	15:00 - 16:00	Recording of PS 5 plays + Coffee Break
	16:00 - 18:00	2 hour Poster Session + Coffee Break - BS2
	18:00 - 18:30	Tianjun Zhou - Invited speaker: Asian monsoon changes driven by anthropogenic external forcing and natural decadal variability
Coupling between climate, radiation, and dynamics.	18:30 - 19:00	Suvarna Fadnavis - Invited Speaker: Pollution in the Asian Summer Monsoon Anticyclone and its impacts on South Asia
	19:00 - 19:15	Ken Bowman - Overview of the Dynamics and Chemistry of the Summer Stratosphere (DCOTSS)
	19:15 - 19:30	Jiankai Zhang - Responses of Arctic sea ice to stratospheric ozone depletion
	19:30 - 19:45	Tiffany Shaw - Stormier Southern Hemisphere induced by topography and ocean circulation

SPARC 2022 General Assembly

Thursday 27 October - Day 4	
Americas Hub - Boulder	
Theme	Session
	MDT time
	09:00 - 10:00 1 Hour Poster Session + Coffee - BS2
Coupling between climate, radiation, and dynamics.	10:00 - 10:30 Hella Garry - Invited Speaker: Role of stratospheric circulation in the climate system
	10:30 - 10:45 Diego Jimenez-de-la-Cuesta - An acceleration of the Brewer-Dobson circulation under warming reduces tropical equilibrium climate sensitivity even without composition feedback
	10:45 - 11:00 Mari Tye - The case for solar climate intervention research: some new data sets, and lots of open questions
	11:00 - 12:00 1 hour Poster Session - BS2
	12:00 - 14:00 Lunch
	14:00 - 15:00 Recording of OS 10 plays
	15:00 - 18:00 Chautauqua Outing/Hike
New ways of viewing the atmosphere through observations and re-analyses.	18:00 - 18:30 Masatomo Fujiwara - Invited speaker: Overview of the SPARC Reanalysis Intercomparison Project (S-RIP) and plans for its Phase 2
	18:30 - 18:45 Laura M. Ciasto - Evaluation of the Stratosphere in the NCEP Conventional Observational Reanalysis (CORE)
	18:45 - 19:00 Susann Tegtmeyer - What drives the trend of the QBO wind amplitude?
	19:00 onward Early Career Researcher Event

SPARC 2022 General Assembly

Friday 28 October - Day 5	
Americas Hub - Boulder	
Theme	Session
	MDT time
Climate prediction from sub-seasonal to decades.	Peter Hitchcock - invited speaker: Prospects for subseasonal forecasting based on stratospheric variability: The SNAPSI Project
	Zachary Lawrence - Stratosphere and stratosphere-troposphere coupling biases in subseasonal-to-seasonal forecast models: An international SPARC-SNAP community effort
	Daniela Domeisen - Linking planetary and synoptic scales for the surface response to SSW events
	Jonas Spaeth - Predictors of Arctic Oscillation Variability as Revealed by Subseasonal-to-Seasonal Forecasts
	Eniola Olaniyan - Real-time Sub-seasonal (S2S) Rainfall Forecasts Over West Africa for the 2020 and 2021 Monsoon Seasons: Performance Evaluation for Operational Use
	Nick Dunstone - Drivers and predictability of the Summer North Atlantic Oscillation
	Closing Session