

SPARC 2022 General Assembly

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

Monday 24 October - Day 1

Theme		Asia Hub - Qingdao	
		CST time	Session
Welcome		14:30 - 15:10	Registration
		15:10 - 15:30	Group Photo
		15:30 - 15:45	Welcome from the deputy director of FIO, SPARC co-chairs, and local organisers
		15:45 - 16:00	Meeting logistics
		16:00 - 16:30	Detlef Stammer - Invited speaker: World Climate Research Programme (WCRP)
		16:30 - 17:00	Martyn Chipperfield - Invited speaker: Recent results from coupled Chemistry-Climate Model studies of the middle and lower atmosphere
		17:00 - 17:15	Yajuan Li - The updated trends and solar response in stratospheric ozone based on satellite data and Model simulations
New understanding of atmospheric composition and variability.		17:15 - 17:30	Birgit Hassler - Scientific basis for Chapter 3 of the upcoming WMO Assessment 2022
		17:30 - 17:45	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
		17:45 - 18:15	Coffee Break
PS 1		18:15 - 19:30 - 1h 15 min Lightning Poster Talks - PS 1	

SPARC 2022 General Assembly

Tuesday 25 October - Day 2	
Asia Hub	
Theme	Qingdao
	CST time
How do dynamical processes shape climate variability and trends?	08:00 - 08:30 Isla Simpson - Invited speaker: Emergent constraints on future projected changes in the large-scale atmospheric circulation
	08:30 - 09:00 Eun-Pa Lim - Invited speaker: Southern Hemisphere stratosphere-troposphere coupled variability and its impacts
	09:00 - 09:15 Zoe Gillett - On the Dynamics of Indian Ocean Teleconnections into the Southern Hemisphere during Austral Winter
	09:15 - 09:30 Jadwiga Richter - Representation of the Tropical Stratosphere in Global Climate Models
	09:30 - 09:45 Yueyue Yu - A Dissection of the Topographic Effects from Eurasia and North America on the Isentropic Meridional Mass Circulation in Northern Winter
	09:45 - 10:00 Wen Chen - Influence of the Quasi-Biennial Oscillation on the spatial structure of the wintertime Arctic Oscillation
	10:00 - 10:30 Coffee Break
OS 3	10:30 - 11:45 Recording of OS 2 plays
	11:45 - 12:45 Recording of PS 2 plays
	12:45 - 14:00 Lunch
	14:00-16:00 2 hour Poster Session + Drinks - QS1
PS 3	16:00 - 17:00 1 Hour Lightning Poster Talks - PS 3
	17:00 - 17:15 Julia Mindlin - Combined effect of GHG Forcing and Ozone Depletion/Recovery in Southern Hemisphere Atmospheric Circulation and Regional Precipitation Changes
OS 4	17:15 - 17:30 William Seviour - Stratospheric polar vortex splits and displacements, and their surface impacts, in CMIP6
	17:30 - 17:45 Melissa Seabrook - Interannual vs Decadal Impacts of Pacific Variability
	17:45 - 18:00 Irina Rudeva - From frequency of short-term atmospheric circulation patterns to long-term global trends

SPARC 2022 General Assembly

Wednesday 26 October - Day 3		
Asia Hub - Qingdao		
Theme	CST time	Session
Past and future of SPARC	08:00 - 08:20	Marv Geller - Invited speaker: SPARC – Its Early Beginnings
	08:20 - 08:40	Shigeo Yoden - Invited speaker: Stratosphere-Troposphere Dynamical Coupling in the Tropics: Influence of the equatorial Quasi-Biennial Oscillation on global monsoon systems
	08:40 - 09:10	Libby Barnes - Invited speaker: Explainable AI for Climate Science: Detection, Prediction and Discovery
	09:10 - 11:00	Poster Session QS1 and Drinks
	11:00 - 12:00	Recording of OS 5 plays
	12:00 - 14:00	Lunch
	14:00 - 16:00	Early Career Researcher Event
	16:00 - 17:00	1 hour Lightning Poster Talks - PS4
Past and future of SPARC	17:00 - 17:20	Ted Shepherd - Invited speaker: Tracing the reasons for SPARC's success
	17:20 - 17:50	Irina Sandu - Invited speaker: Destination Earth first high-priority Digital Twins
Coupling between climate, radiation, and dynamics.	17:50 - 18:20	John Moore - Invited speaker: Stratospheric aerosol geo-engineering: what it might do, what it cannot, and what we need to find out
		Conference Dinner

SPARC 2022 General Assembly

Thursday 27 October - Day 4		
Asia Hub - Qingdao		
Theme	CST time	Qingdao
Coupling between climate, radiation, and dynamics.	08:00 - 08:30	Tianjun Zhou - Invited speaker: Asian monsoon changes driven by anthropogenic external forcing and natural decadal variability
	08:30 - 09:00	Suvarna Fadnavis - Invited Speaker: Pollution in the Asian Summer Monsoon Anticyclone and its impacts on South Asia
	09:00 - 09:15	Ken Bowman - Overview of the Dynamics and Chemistry of the Summer Stratosphere (DCOTSS)
	09:15 - 09:30	Jiankai Zhang - Responses of Arctic sea ice to stratospheric ozone depletion
	09:30 - 09:45	Tiffany Shaw - Stormier Southern Hemisphere induced by topography and ocean circulation
	9:45 - 12:00	Site visit: Qingdao City Exhibition Hall
	12:00 - 14:00	Lunch
	14:00 - 16:00	Recording of OS 8 plays
Theme 3: Coupling between climate, radiation, and dynamics.	16:00 - 16:30	Zhenya Song - Invited speaker: FIO-ESM : the earth system model coupled with ocean surface waves
	16:30 - 16:45	Dingzhu Hu - Interdecadal changes of the linkage between the stratospheric Arctic vortex and Arctic oscillation
	16:45 - 17:00	Pasquale Selitto - Radiative impacts of the Australian bushfires 2019–2020 and Hunga Tonga volcano eruption 2022: comparison of extreme fires and volcanic eruptions
	17:00 - 17:15	Gabriel Chiodo - Stratospheric composition feedbacks in a changing climate: a review
	17:15 - 18:15	1 hour Poster Session + Coffee Break - QS1

SPARC 2022 General Assembly

Friday 28 October - Day 5		
Asia Hub		
Theme	CST time	Qingdao
New ways of viewing the atmosphere through observations and re-analyses.	08:00 - 08:30	Masatomo Fujiwara - Invited speaker: Overview of the SPARC Reanalysis Intercomparison Project (S-RIP) and plans for its Phase 2
	08:30 - 08:45	Laura M. Ciasto - Evaluation of the Stratosphere in the NCEP Conventional Observational Reanalysis (CORE)
	08:45 - 09:00	Susann Tegtmeier - What drives the trend of the QBO wind amplitude?
	09:00 - 12:00	2 hour Poster Session + Coffee Break - QS1
	12:00 - 14:00	Lunch
	14:00 - 15:00	Recording of OS 11 plays
	15:00 - 16:00	1 hour Poster Session + Coffee Break - QS1
Climate prediction from sub-seasonal to decades.	16:00 - 16:30	Marlene Kretschmer - Invited speaker: A causal framework to analyse teleconnections for subseasonal and seasonal predictions
	16:30 - 16:45	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
	16:45 - 17:00	Shunsuke Noguchi - Tropical Convective Responses to Weakening Events of the Southern Hemisphere Stratospheric Polar Vortex
	17:00 - 17:30	Closing Session

Note that for participants in Qingdao - the recording of OS 14 will be available to view early on 29th October and after this date