

SOLAS OSC 2024 Programme

Thu-Sat, 7-9 Nov	Time	Sun, 10 Nov	Time	Mon, 11 Nov	Time	Tue, 12 Nov	Time	Wed, 13 Nov	Time	Thu, 14 Nov
Side meetings	08:45	Early Career Scientists Day	08:30	Conference opening	08:30	Integrated Topics: Upwelling systems/Polar oceans and sea ice Session chairs: Arvind Singh, Daiki Nomura, Nadja Steiner	08:30	Theme 4: Interconnections between marine ecosystems, aerosols, and clouds Session chairs: Maria Kanakidou, Jurgita Ovadnevaite	08:30	Science&Society/Climate Intervention Session chairs: Ellycia Harrould-Kolieb, Christa Marandino, William Miller
			09:30	Theme 1: Greenhouse gases and the oceans Session chair: Karin Kvale						
			09:40	Sam Dupont (invited): The order of time – Bridging chemical changes with biological response to address ocean acidification	08:40	Boris Dewitte (invited): ENSO-driven OMZ variability in the Pacific	08:40	Manuela van Pinxteren (invited): Oceans, aerosols, and clouds: An interplay in the climate system	08:40	Erik van Doorn (invited): International law & policy concerning the air-sea interface
			10:10	Sanjeev Kumar : Dissolved trace gases in the open Arabian Sea – changed or remained similar since JGOFs	09:10	Veronique Garcon : Aquatic deoxygenation as a planetary boundary and key regulator of Earth System stability	09:10	Mishka Rawat : Sources of water-soluble organic carbon in aerosols at the Cape Point GAW Station	09:10	Shubham Krishna : Climate warming masks de-eutrophication signal in coastal ecosystems
			10:30	Jerry Tjiputra : What goes in must come out: the oceanic outgassing of anthropogenic carbon	09:30	Jessie Creamean (invited): Snowcaps, lids, and lenses: The hurdles Arctic microbes must overcome to become airborne and form clouds	09:30	Matti Rissanen : Acid + SO3 reactions as a source of nucleating precursors in marine boundary layer	09:30	Doug Wallace (invited): Ocean-based climate intervention
			10:50	Margaret Ogundare : Seasonal and interannual variability in carbon dioxide fluxes in the tropical Atlantic: A critical review	10:00	Asmita Singh : The observational pyramid: Unravelling the physical and biogeochemical processes in the remote polar oceans	09:50	Rafel Simo : Marine emissions of methanethiol increase aerosol cooling in the Southern Ocean	10:00	Daniel Harrison : Recent progress in the physical investigation of Marine Cloud Brightening
			11:10	Coffee break (30')	10:20	Coffee break (30')	10:20	Coffee break (30')	10:20	Coffee break (30')
			11:40	Theme 2: Air-sea interface and fluxes of mass and energy Session chairs: Tom Bell, Peter Liss	10:50	Theme 3: Atmospheric deposition and ocean biogeochemistry Session chair: Joan Lloret	10:50	Theme 5: Ocean biogeochemical control on atmospheric chemistry Session chairs: Nadja Steiner, Anoop Mahajan	10:50	Integrated Topic: Indian Ocean Session chair: Anoop Mahajan
			11:50	Shikha Singh (invited): Mixed layer depth: Key to understanding air-sea interactions in a changing climate	11:00	Catarina Guerreiro (invited): Aeolian dust deposition in the ocean: A calcifying phytoplankton perspective	11:00	Yee Jun Tham (invited): Heterogeneous recycling of reactive halogens in the marine atmosphere	11:00	Tanya Marshall (invited): Exploring the last oceanographic frontier: lessons from the Indian Ocean
			12:20	Ryo Dobashi : Air-sea gas exchange in the Baltic Sea	11:30	Emtia Wium : The effect of dust and metal content on marine phytoplankton growth: A south African perspective	11:30	Sankirna Joge : Dimethyl Sulfide (DMS) projections (past, present, future) using machine learning model	11:30	Koji Hamasaki : Profiling microbial community in sea surface microlayer and marine aerosols in the Bay of Bengal and the Southeast Indian Ocean
			12:40	Mingxi Yang : Deciphering the variability in air-sea gas transfer due to sea state and wind history	11:50	Peter Liss : Microplastics: All up in the air?	11:50	Avinash Kumar : Reactive iodine oxides: A missing oxidant of SO2 towards the formation of sulfuric acid in the marine environment	11:50	S. Gopika : Mechanisms of the tropical Indian Ocean surface warming patterns: Simulated by CIMP models
			13:00	Leonie Jaeger : Ocean's cool skin recovers within minutes: Observations from the autonomous surface vehicle HALOBATES	12:10	Diksha Sharma : Dust into bloom: Understanding Arabian Sea phytoplankton community dynamics through atmospheric dust deposition	12:10	Rosie Chance : Ozone reactive organic compounds in the sea-surface microlayer	12:10	Udisha Singh : Geochemical tracing of atmospheric mineral dust over the North Indian Ocean
			13:20	Lunch (70')	12:30	Lunch (90')	12:30	Lunch (90')	12:30	Lunch (90')
			14:30	Discussion session Douglas Hamilton, Tanya Marshall, Raquel Oliveira : Community feedback on launching a SOLAS mentorship program Maria Kanakidou, Susann Tegtmeier, Boris Dewitte : SOLAS studied processes missing from coupled models Daiki Nomura, Sarat Chandra Tripathy, Anoop Mahajan, Lisa Miller, Nadja Steiner : The coupling of ocean, sea-ice and atmospheric chemistry & biogeochemistry: A cross-disciplinary research challenge	14:00	Discussion session Semeena Shamsudheen, Saurabh Sonwani, Douglas Hamilton, Alessandro Tagliabue : Exploring the nexus: Building capacity in understanding the impacts of atmospheric deposition on ocean biogeochemistry Jessie Creamean, Marc Mallet, Manuela van Pinxteren : Impacts of biology in the Southern Ocean on cloud processes – upcoming collaborations and initiatives Ellycia Harrould-Kolieb, Erik van Doorn : Knowledge brokering for impact in marine governance	14:00	Discussion session Morgane Perron, Akinori Ito, Douglas Hamilton : Reducing uncertainties in soluble aerosol trace element deposition: a SCOR working group call to the community Erik van Doorn, Ellycia Harrould-Kolieb : SOLAS Science & Society 3.0 the way forward Maria Kanakidou, Yee Jun Tham : Coastal cities air quality under the influence from the ocean – shared common mission of IGAC and SOLAS	14:00	SOLAS 3.0 Session chairs: Christa Marandino, William Miller
			16:00	Poster session (incl. coffee break) Theme 1: Greenhouse gases and the oceans	15:30	Poster session (incl. coffee break) Integrated Topic: Upwelling systems/Polar oceans and sea ice	15:30	Poster session (incl. coffee break) Integrated Topic: Indian Ocean	15:30	Discussion Coffee break (30')
			17:00	Theme 2: Air-sea interface and fluxes of mass and energy	16:30	Theme 4: Interconnections between marine ecosystems, aerosols, and clouds	17:00	Science&Society/Climate Intervention	16:00	SOLAS India meeting
			18:00	Theme 3: Atmospheric deposition and ocean biogeochemistry	17:30	Theme 5: Ocean biogeochemical control on atmospheric chemistry				
			18:00	Welcome reception	19:30	Nat/Reg Reps dinner (invitation only)			18:30	Conference banquet