SCAR 2020 Open Science Conference - Draft List of Sessions

Below is a draft list of parallel session titles for SCAR Open Science Conference 2020. This has been put together by the International Scientific Organising Committee based on ideas submitted by the wider SCAR community. You will see that each session title is linked to a top level topic; other interdisciplinary themes where relevant and to relevant SCAR groups. We identified and included our own suggestions in a few gap areas (highlighted in grey) where no proposals were submitted by the community.

Please send any comments to info@scar.org by the 28th of June 2019. We would welcome comments on the following:

- Additional session proposals to cover the identified gaps or any other areas missing from this list
 Suggestions for sessions which can be merged together.
- Suggestions for changes e.g. where we have misunderstood your original suggestion or assigned it to the wrong overarching theme.

Note that some proposals for keynotes, colloquia and mini-symposia were submitted - these have been included although decisions on these sessions will be made at a later date.

Colour Key: Physical Sciences Interdisciplinary geosciences - physical sciences Geophysical Sciences Interdisciplinary Technology Interdisciplinary all domains Life Sciences Interdisciplinary including Life Sciences Social Sciences and Humanities Interdisciplinary including Social Science

Top level topic	Number	Title of submitted session	Interdisciplinary with	SCAR Group
Astronomy and Astrophysics in Antarctica	4	Space weather from Antarctica: recent advancements and future challenges	l	
	5 6	Astronomy and space research from the poles Co-relation between deep blue sea and deep space as mediums at the margins of	ocean	AAA
		Antarctica as an (inter)planetary space		
Atmosphere, snow and climate				
aerosols	7 8	Atmospheric ice - hexagonal, cubic, or other? Atmospheric Aerosols in the Polar regions: Chemical, Physical and Biological properties	Life Sciences	
Snow and interactions with atmosphere	28	The role of snow in the past and future of Antarctica: physical, chemical and biological aspects	Life Sciences	SNOWANT
processes	10	Antarctic gravity waves: observations, modelling, and impacts		ANGWIN
Past Climate variability	11	Past climate variability in Antarctic and the sub-Antarctic captured in paleoclimate archives including ice cores		IPICS, PAIS
Short term climate variability	181	weather including forecasting and numerical weather prediction and short-term climate variability.		
	45	Polar Climate Variability and Tropical Teleconnections	Teleconnections	
		Present variability, local to hemispheric dynamical insights: from cyclones to tropical teleconnections		
Climate projections and predictions	9	From AntClim21 to AntClim now - projections for the Antarctic/Southern Ocean region for the next decades to century		AntClim21, Antclimnow
Understanding and observing the oceans			l	
sea ice variability and trends	14	Antarctic sea ice processes, variability and trends.		
interactions sea ice/ocean, polynias	15 17	Antarctic sea ice variability and ice sheet processes Ocean processes and ice-ocean interactions: from the Antarctic coast to the open		
meracions sea recyocean, porymas		Southern Ocean		
	16	Ice-ocean boundary layers		
sea ice / biology	12 18	Polynya mechanics Sea ice exposed - key processes at margins and interfaces	Life Sciences	
sea ice / biology	19	Antarctic sea ice mass balance, or, Sea ice as a rich blanket of bio-geochemical processes on top of the Southern Ocean: mass balance variations and their role for	Life Sciences	
Observing the ocean		ocean and atmosphere a session focusing on processes occurring at the	ı	soos
Observing the ocean		continental margin, such as heat flow exchange, salinity and temperature		3003
		change and influence on circulation, water masses, mixing and		
		cascading/intrusion of bottom water in the continental shelf up to the cavity below the ice sheet		
Ocean - ice sheet - ice shelves (sea ice ?)			Antarctic Ice sheet evolution	
interactions	24	Antarctic ice shelf and sea ice	sea ice	
	29	The Future for Ice Shelves		FRISP
	32 20	The stability of East Antarctic ice shelves in hot and cold ocean Dynamics of the Antarctic Coast and its interaction with the Ocean.		
	20	Predicting and detecting tipping points and regime shifts in Antarctic and Southern		
		Ocean systems		
ice - ocean feedbacks		ice-ocean feedbacks: (coupled) modelling and observations		
Antarctic Ice Sheet, evolution and future, sea level rise			earth sciences - physical sciences	
icverrise				
Peripheral Glaciers and Subantarctic glaciers	36	Antarctica Peripheral Glaciers		
	36 25	Antarctica Peripheral Glaciers The Antarctic Ice sheet during interglacials		PAIS

	31	Significant successes of geological drilling in and around Antarctica and ideas for		IODP, PAIS,IPICS
	25	future IODP/ICDP implementations		PAIS,
	35	Paleo-constraints for Antarctic contribution to sea-level change		SERCE,ISMASS
Mandallina Inc. de anti-cui di cu				
Modelling Ice sheet evolution	33	Ice sheet modelling and geological constraints for the timing, size and dynamics of Antarctic ice sheets		PAIS, SERCE, ISMASS
	37			ISMASS
	3/	How to quantify uncertainty (not sensitivity) in future projections of Antarctica's contribution to sea level		ISIVIASS
	21	Ice rheology: linking laboratory and field observations to ice sheet models		
			•	
Teleconnections			earth sciences- physical sciences	
	30	Southern Ocean circulation and it's impact on the carbon cycle and ice sheets: Past,		
		Present, and Future		
	34	Beyond IPCC: the long term changes in south and north poles linkages		
	13 46	Antarctica and the Global Thermohaline Circulation Past teleconnection between the Southern High-latitude and Tropical Climate		
		Variability		
	•		_	
Antarctic solid earth structure and interactions				
with cryosphere GIA modelling, ice-sea level-solid Earth		GIA modelling, ice-sea level-solid Earth feedbacks	Antarctic Evolution	PAIS, SERCE,
feedbacks				ISMASS
Earth structure and rheology			Ice rheology	
Landscape evolution		Long-term feedbacks between ice dynamics, erosion, isostasy; topographic reconstruction		PAIS, SERCE
surficial processes	39	Surficial Processes: Geomorphology, Chemical Weathering and their Relationships		
		to Cryospheric Loss		
geothermal heat flux	40	Sensor fusion (Seismic, Magnetics, Radar, Gravity) to constraint GHF		
subglacial environment	. 44 23	Antarctica geothermal heat flux	also tagged in Life	SERCE
subglacial environment	23	Recent Advances in the Hydrology and Biochemistry of Subglacial Environments	also tagged in Life Sciences	
	22	Exploration of Antarctic subglacial environments: recent events and future		
		opportunities		
Geology, geophysics			•	
Continental evolution of Antarctica	41	The Kuunga Orogeny in Antarctica and adjacent continental blocks - from Australia		
		to southern Africa.		
	43	Antarctica and its neighbours in supercontinent cycles		
general geophysics		imaging of the ice, bed, and interior of the Earth via a range of methods		Antarchitecture, PAIS, IPICS
	42	Exposure dating and sediment tracing using cosmogenic 10Be, 26Al, and 14C in		rais, iries
		Antarctic sciences - methodologies and processes		
			•	
Harnessing emerging technologies for Antarctic Science				
Remote sensing	96	Near-target remote sensing, under theme Harnessing emerging technologies for	•	
		Antarctic science - from robotics to remote sensing		
	99 100	Using snow in Antarctic (and Greenland) to calibrate optical satellite sensors	Atmosphere, snow Atmosphere	
	63	Remote Sensing of the Polar Atmosphere Remote sensing for ecology of Southern Ocean predators	Life Science	
data management and geoinformation	94	Emergent Frontiers in Earth Observation and Geoinformation (EO/GI) in Antarctic		EOAG (Earth
		Sciences: Cross-disciplinary Advances		Observation
	95	Data Management, preservation and interoperability		Action Group)
other	97	Name tbc. Proposed theme - research into and use of renewable sources of energy		
		in Antarctic.		
	101	Technological determinism and Antarctic science and exploration		
Choosing the Future of Antarctica			•	
discount are rucere or runarened	162	Antarctica and the Southern Ocean under the Paris Climate Agreement and an	•	
		even warmer world - local changes and global consequences		
	131	History of Antarctic futures — what can we learn from past attempts to forecast future trends in Antarctica? (mini-symposium or roundtable)		
	155	Antarctic futures in the Anthropocene		
	38	Can, and should, intervention (glacier geoengineering) be used to slow down the		
		Antarctic contribution to sea level?		
	156 157	Speculative Antarctic Futures Integrated Antarctic futures: A view across the natural sciences, social sciences and		
	1.77	humanities		
	176	The role of education in building a better future for Antarctica or Education: the		
	450	key to build a better future for Antarctica		
	159	Planning and implementing collaborative and integrated Antarctic research: A workshop		
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Antarctic and Southern Ocean Ecosystems				
Describing the system Bioregionalisation & Connectivity in Antarctica	54	Antarctic regionalization, implications of increased understanding of Antarctic his		EGARI SO CRR
& Southern Ocean Ecosystems	54	Antarctic regionalisation, implications of increased understanding of Antarctic bio- and phylogeography		EGABI, SO-CPR, ANTOS, BEPSII,
,				Remote Sensing
	56	The changing distribution of land, and life on land, in Antarctica		
	57	Biological dispersal and controls on distribution - connections at continental and inter-continental scales		
	61	Mapping and monitoring biological distributions		
	66	Environmental factors driving diversity and composition of Antarctic microbial		
		communities		
	. 73 179	Ecological connectivity between Antarctic marine regions Circumpolar distributions of top predators		
Paleoecology	1/3	56, 57 ? link with Glacial history of Antarctica and the Southern Ocean	Antarctic Ice sheet	
<u> </u>		,	evolution	
New Technologie Co.	50	Antarctic and austral past life	parallel session	happy to help
		Genomics insight into the past and present of Antarctic Biodiversity		
New Technologies: from Genomics to Teledection	67	denomines margine med the past and present or rintarcal stource sit,		

	68	Omics in Antarctic organisms biology or Genomics and Transcriptomics in Antarctic	
	70	organisms biology	
Microbial biology & ecology	70 58	Antarctic Genomics Microbial adaptation and biogeography	
	62	Microbial Ecosystem in Antarctic and Southern Ocean	
	69	Biotic and abiotic factors driving Antarctic microbial communities	
Miscellaneous	53	Overwintering ecology of Antarctic marine organisms	COULD BE IN UNDERSTANDING
			PROCESSES
	76	Seafloor environments and characteristics	
Antarctic and Southern Ocean Ecosystems			ı
Understanding processes			
Eco-sentinels [ANTOS, EGBAMM, ISSA, SKAG]	78	Biodiversity and the Resilience of Ecosystem Function	
	75	The effects of change on Southern Ocean ecosystems: understanding, modelling, projecting, and managing change in Southern Ocean species and ecosystems	
		, ,, ,,	
	154	Managing the effects of change on Southern Ocean ecosystems: the nature and	
	3	role for Marine Ecosystem Assessments Sub-Antarctic Islands: Sentinels of Change. physical or biology?	
aerobiology, sea ice, snow, life &	51	Chemosynthetic marine communities in Antarctica - past and present', under the	
chemosynthetic	47	Antarctic and Southern Ocean Ecosystems theme.	
	47 60	Aerobiology over Antarctica Snow, ice, and sub-ice ecosystems	
	71	Biomonitoring of the Antarctic sea-ice ecosystem	
	77	Biogeochemical Exchange Processes at the Sea-Ice interface	
	49	Photosynthetic slow algae communities (and their importance in polar ecosystems)	
Trophic interactions [BEPSII, EGBAMM, SO-CPR]	179	Squids, Seabirds and Marine Mammals biology	
Plasticity and individual variability [BEPSII,	74	The role of fish in Southern Ocean Ecosystems	I
EGBAMM, SKAG]			
Physiological mechanisms [SKAG, BEPSII, EGBAMM]	180	Physiology and Adaptation of Antarctic and Southern Ocean life	
EGDAININI	72	Climate change and marine ecosystems: physiology, evolutionary adaptations and	
		ecological functions	
Assessing the impacts (interdisciplinary)			ı
Human footprint	83	Sustainability of Antarctica Icy Peninsula: The Human Interventions	•
	91	Defining thresholds of wilderness	
	89	Environmental narratives for the 21st century: stories that focus on the importance of human-environmental relationships in the Antarctic region (continent, ice,	
		ocean, atmosphere)	
	124	Histories of environmental impact assessments	
Pollution [imPACT, PLASTIC]	138 82	and other groups Persistent Organic Pollutants in Antarctica	
Foliation [mirAct, FEASTIC]	84	Human microbial pollution of Antarctic wildlife	
	87	Contaminant Impacts and Remediation in Antarctica	
	93	What the Antarctic Community are doing to understand plastic use and plastics in the Antarctic region	
	79	Biogeochemical response of Antarctic biomass to climate change	
Fisheries and bioprospection	90	Extractive industries and Antarctic environmental governance - from whaling to	
	81	bioprospecting Bioprospection of Antarctic organisms	
	88	State of Fisheries - our tagging program and what we know about Dissotichus	
		eleginoides and D. Mawsoni	
	80	Effects of Japan's recent whaling policy changes on the whales and ecology of the Southern Ocean International Whale Sanctuary	
Loss of biodiversity [ANTOS, EGABI, ISSA]	85	Human impacts on microbial diversity in its multiple roles - basis of food chains,	
		threat for animal and humans, asset for applied research	
Miscellaneous	92 86	Impacts of noise on marine life Title tbc. Theme: Polar Wildlife Health and Disease. Summary: This workshop will	
	00	focus on sharing information on the threats that face wildlife health and	
		discussions on developing monitoring programs and how to prevent future threats.	
Ice humanities	103	Ice humanities	
The Changing face of Antarctic Tourism			ı
June State of Antorette Tourism	115	The intersection of science and tourism in Antarctica, co-benefits, concerns and the	•
		future value of citizen science in Antarctica.	
	116	The refining and re-classification of adventure tourism in Antarctica with regard to better representing the history, geography and media representation of human	
		activity in the Antarctic	
	118	Tourism and Antarctic heritage processes	
	125 160	Chinese tourists in polar region - their profile, motivation and interpretation Antarctic tourism development and governance	
Two centuries of Humans in Antarctica?	114	200 years of humans in Antaretica, the kinter and antaretical the	
	114	200 years of humans in Antarctica - the history and archaeology of human interactions	
	123	Knowing the Antarctic past: epistemological challenges of historical research in an	
	144	extreme environment	
Issues and challenges in Antarctic Heritage	144 112	History of interdisciplinary research in Antarctica (panel session) Revisiting Antarctic heritage: Challenging conventional definitions and	
		management approaches	
	113	Critical issues in Antarctic heritage	
	117	Heritage processes in Antarctica - dealing with the material remains of human activities in Antarctica	
	119	Environmental protection and Antarctica's natural and cultural heritage - waste	
	134	not, want not? Critical Issues in Antarctic Heritage: reviewing the field, considering the future	
Antarctic Science and Technology Histories	134 122	Using historical research in Antarctic science	

Secretary of Starlang globally about Antarctical gateway cities No specific title: general theme of Antarctic gateway cities. From historical/cultural/conomic/geographic/sociological perspectives History of applying Antarctic science structures to the Arctic (sanel session) Display Antarctic science structures to the Arctic (sanel session) Autarctica and Art	Southern Ocean Histories The ATS, international law and governance	136 137 143 145 108 109 135 141	The history of technological innovation in Antarctic and Southern Ocean exploration and science History of Antarctic logistics and science support — the hidden part of the iceberg? (panel session) History of Antarctic science from Russia/the former Communist world: how did science collaboration appear from the east? (panel session) Critical Issues in the History of Antarctic Science and Technology. Exploring the history and heritage of human-environmental relationships in the Southern Ocean through material culture and places (coasts, ice, seabed, ships) Cross-disciplinary HASS panel discussion on strategies for raising broader public awareness of environmental issues and research in the Southern Ocean HASS in deep: how historians and scientists can collaborate in studies of the ocean depths New perspectives on the history of Antarctic whaling — and its legacies in contemporary culture and politics (panel session) Revisiting CRAMRA: political and legal histories of CRAMRA and its legacy Political Philosophy Looks to Antarctica Has the Antarctic Treaty a future after 2048? Development before 1959 and the future of the ATS beyond 2048
historio/al/cultural/aconomic/geographic/acodiological perspectives to the Arctic ### History of applying Antarctic science structures to the Arctic ### History of applying Antarctic science structures to the Arctic (panel session) ### History of apply Antarctic science structures to the Arctic (panel session) ### Antarctica and Art ### Leaving footprints for the future: entertainment and literature of Antarctic Workshop to share knowledge of Antarctic through new and ancient arts, sciences and technologies ### Antarctica and Art ### History of antarctic science structures ### History of antarctic science science should be a served from symposium or roundbale) ### Interest the leaving for the future: entertainment and literature of Antarctic science and technologies ### History of antarctics ### History of antarctic science science should be a served feel to the control of the served reflective science-poly revens on Antarctic Susses ### Connecting policy needs with research relevant to climate change in Antarctica ### Human biology and Adection Feel Tub India you apply and the served and Extreme Environments Colloquium: Day 3, SCAR Open Science Human Biology and Adection Feen Perful Day -Operational Policy ### Healthcare in Remote and Extreme Environments Colloquium: Day 3, SCAR Open Science Human Biology and Adection Feen Perful Day -Operational Policy ### Healthcare in Remote and Extreme Environments Colloquium: Day 3, SCAR Open Science Human Biology and Medicine Feen Perful Day -Operational Policy ### History of Antarctic August 2020) ### Day 3 and 4 (potentially half days). Healthcare in Remote and Extreme ### Environments Colloquium: Maritic Science Tub India ### Policy Pol	New ways of thinking globally about Antarctica		
History of applying Antarctic science structures to the Arctic to the Ar	gateway cities	132	
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164 Connecting policy needs with research relevant to climate change in Antarctica		150	are there lessons for the present? (mini-symposium or roundtable)
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133	Living and working in Antarctica		
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127			Identifying and Improving Weather, Water, and Ice Information Services for Safe
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Diversity and Inclusion in Antarctic Research, Mini Symposium ?		
	169	No specific title proposed - diversity and inclusion theme
	107	No specific title proposed - marginalised and/or underrepresented people in polar science throughout history
	121	Gender, race, and class in Antarctica
	175	Babel workshop: under the form of the so-called "cadavre exquis" (exquisite corpse)
	140	Antarctica and the developing world — what can we learn from the historical experiences of national programs from newer AT signatories? (mini-symposium or roundtable)
	110	Antarctica and Africa, or, Antarctica and the Global South: Considering inequality and race in history and literature
	166	Decolonizing Antarctica

No specific title proposed - interdisciplinary session for early career researchers

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Training early career scientists