Tuesday 28 November 2023

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TIME	SESSION	SPEAKER(s)	TITLE	Principal Invetsigator	FORMAT
8:00			Register		
8:30	Introduction	Ria Olivier	-		
9:00	Opening Ceremony	Dr Gilbert Siko			
			CROSS DISCIPLINES		
9:30	Coordination and Governance	Tracy Klarenbeek	NRF		
10.00			Marine and Antarctic Strategy (MARS) - the next 10-year cycle (2025-2035).		
10:00	Coordination and Governance Bettine van Vuuren	Y	BREAK Feedback from SCAR		
10.30	Soordination and Governance Bettine vali valid		Teeaback Holli Scalik		
11:00	Human Capital Development	CHAIR: Prof Isabe	elle Ansorge		
	Human Capital Development Isabelle Ansorge	Isabelle Ansorge Themba Mbhalati	SEAmester – 6 Voyages Later The perceptions of participants on the impact of South Africa's Class Afloat Program	I Ansorge	
		Rudzi Silima	The Antarctic Youth Coalition (AYC), a core objective of the Antarctic Cities and the		
		Sandy Thomalla	The SOCCO Trajectory - A brief synopsis of our origin, emergence and strategic dire		
11:45	Public Awareness and Science Engagement	CHAIR: Anché Lo	uw		
	Public Awareness and Science Engagement Anche Louw	Sarah Fawcett	Wiley Publishers - Opportunities for researchers		
		Ria Olivier	Promoting the Antarctic heritage of South Africa with a digital museum.		
		Anche Louw	The Internet Footprint of ALSA and its reach		
12:30			LUNCH		
13:30		RESEARCH THEME:	Oceans and marine ecosystems under global change		
	OCEAN SESSION : SEA-ICE	CHAIR: Dr Tokolo	ho Rampai		
		Robyn Verrinder	Overview of MARIS	Dr T Rampai	Oral
		Wayne De Jager	Sub-daily Antarctic sea-ice variability estimates using swath-based retrieval method		Poster
		Dylan White	Discussion on the Premise of, and Challenges in, the Development of a Ship-Based I		Poster
		Magata Mangatane Marcello Vichi	Antarctic sea-ice thickness reconstruction. Wind- and wave-driven free-drift dynamics in Antarctic Sea ice	Dr T Rampai Dr T Rampai	Poster Poster
		Rutger Marquart	Numerical modelling of sea ice dynamics and thermodynamics in the Antarctic man	errore and the second and the second	Oral
		Anand Nair	Three-Dimensional Computational Fluid Dynamics Modelling of Pancake Ice on Way	= consiste account of the constant of the cons	Oral
		Tokoloho Rampai	Sea ice growth dynamics and their influence on the physical, structural and mechan		Poster
		Safiyyah Moos	Investigating the dynamics and exchanges across the ice-ocean interface in artificia	l Dr T Rampai	Oral
		Hayley Swait	Investigating Brine and Air Porosity in Sea Ice from the Eastern Antarctic Marginal I	c Dr T Rampai	Oral
		James van Niekerk	Investigation of the Interactions Between Sea Ice Algae from the Marginal Ice Zone	and the second s	Poster
		Riesna Audh Tokoloho Rampai	Winter biogeochemical activity is enhanced by rafting in growing Antarctic Sea ice. Closing	Dr T Rampai Dr T Rampai	Poster
15:00		TOKOIOHO Kampai	BREAK	Di i Rampai	
15:30			CROSS DISCIPLINES		
	Research Infrastructure and platforms: SAPRI	CHAIR: Dr Tamm			
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16:15	SANAP Data Management	CHAIR: Anne Ire	asure		
		Leigh McGaughey	An ecosystem study of the Prince Edward Archipelago	Invited Guest	
		Dr JP Barnard	Management of Recorded Voyage Data for the SA Agulhas II	Prof A Bekker	
		Bjorn Boyes	Using Unreal Engine 5 to construct a digital Marion Island towards improved	Prof W Nel	
		bjom boyes	science engagement	THO IN THE	
		Mikko Lensu	Sea ice research of Finnish Meteorological Institute	Invited Guest	
		Anne Treasure		Ms M Olivier	
16:50					
	NE	TWORK - Buil	ding our SANAP Research Community		
	IN L	. I VY ONN - Dull	ding our salar nesearch community		
18:30					
10.50			DINNER		
19:30	Research Infrastructure and platforms: SCALE Expedi	itions	CHAIR: Dr Sandy Thomalla		
20:00					
0.00					

Wednesday 29 November 2023

	SESSION SPEAKER(s)		TITLE	Prinicpal Investigator FORMAT	
			RESEARCH THEME: Ecosystems, biodiversity and biodiscovery		
8:00	Biodiversity		CHAIR: Prof Bettine van Vuuren		
-		Dr Peter Convey (BAS)	Terrestrial biological invasions and their potential impacts in the maritime Antarctic	Invited Guest	Plenary Talk
8:30	Mammals		CHAIR: Dr Mia Wege		
	Dr Christian Murray	Understanding the drivers of Mario	n Island's elephant seal population	Prof Nico de Bruyn	Oral
	Leandri de Kock	Considering individual variation who	en investigating marine predator behaviours during life- history events	Prof Nico de Bruyn	Oral
ė.	Dr Liezl Pretorius & Dr Greg Hofmeyr	Canine morphometrics as a tool for	distinguishing species, sex and age in Southern Ocean fur seals	Dr Greg Hofmeyr	Oral
	Dr Mia Wege	The conveyor belt of Ross seals in the	ne Lazarev Sea and their behaviour	Prof Trevor McIntyre	Oral
	Matthew Germishuizen	Sea ice declines coincide with a peri	od of reduced reproductive success in Southern Ocean top predator	Dr Els Vermeulen	Oral
	Oluwaseyi Paul Babalola	Entropy-based Detection and Classif	ication of Bryde's Whale Vocalizations: An Approach for Understanding and Conserving an Endangered Species	Prof Jaco Versfeld	Oral
			RESEARCH THEME: Earth systems observations		
9:30	Antarctic and sub-Antarctic	earth science	CHAIR: Prof Werner Nel		
	Dr Geoff Grantham	Geological and Geophysical Researc	h in Western Dronning Maud Land, Antarctica. Fieldwork, Laboratory Methods, History and Progress over ~40 years.		Oral
9:45			BREAK		
10:15			RESEARCH THEME: Earth systems observations		
	Antarctic and sub-Antarctic	earth science	CHAIR: Prof Werner Nel		
	Prof Werner Nel	Landscape and climate interactions	in the sub-Antarctic: Past, present and future	Prof W Nel	Oral
	Dr Elizabeth Rudolph The deglaciation of sub-Antarctic M		arion Island	Prof W Nel	Oral
	Mr Sibusiso Sinuka Towards determining the formation		ages of the lithologies on sub-Antarctic Marion Island	Prof W Nel	Oral
	Mr Abuyiselwe Nguna	Preliminary results of fallout 137Cae	esium techniques on Aeolian land features on sub-Antarctic Marion Island	Prof W Nel	Oral
			CROSS DISCIPLINES		
11:15	Capacity Buildiing APECSSA	feedback session	CHAIR: Dr Tommy Ryan-Keogh		
11:45	Ecosystems, biodiversity and	d biodiscovery	CHAIR: Prof Donald Cowan		
	Don Cowan	Microbial ecology of Antarctic deser	t soils	Prof D Cowan	Oral
	Pedro Lebre	Biogeographic survey of soil microb	ial communities across Antarctica	Prof D Cowan	Oral
	Silindile Maphosa	Exploring the functional potential of	microbial metagenome-assembled genomes (MAGs) from sub-Antarctic islands	Prof D Cowan	Oral
	Lefentse Mashamaite	Microbial diversity in Antarctic Dry	/alley soils across an altitudinal gradient	Prof D Cowan	Oral
12:30			LUNCH		

	RESEARCH THEME : Ecosystems, biodiversity and biodiscovery						
13:30	Ecosystems, biodiversity ar	nd biodiscovery CHAIR: Prof Donald Cowan					
	Runesu Bakasa	Elucidating the role of biosynthetic genes in the adaptation of bacterial mixotrophs in the South Atlantic	Prof T Mkhalanyane	Oral			
	Marike Hillocks	Phage satellites of the deep Southern Ocean	Prof T Mkhalanyane	Oral			
	Riaan Pierneef	Polar opposites; bacterioplankton susceptibility and mycoplankton resistance to ocean acidification	Prof T Mkhalanyane	Oral			
	Mancha Mabaso	Marine microbiome responses to Fe supplementation	Prof T Mkhalanyane	Oral			
	Choaro Dithugoe	Bacteria and archaea regulate particulate organic matter export in suspended and sinking marine particle fractions	Prof T Mkhalanyane	Oral			
	Nosipho Hlalukana	Disentangling the biosynthetic potential of the South Atlantic Ocean microbiome	Prof T Mkhalanyane	Oral			
	Nyasha Mafumo	Disentangling the effects of the Agulhas Current on marine viruses	Prof T Mkhalanyane	Oral			
	Phillip Mawire	Genomic analysis of Acidobacteria from polar region soils: Delineating the mechanisms leading to diversity and successful adaptation to the polar regions.	Prof T Mkhalanyane	Oral			
	Mayinbogwe Buthelezi	Investigation of microbial genomics to understand the cycling of organosulfur compounds in the marine environments	Prof T Mkhalanyane	Oral			
	Sade Magabotha	A reproducible microbiome pipeline for the identification of horizontally acquired mobile genetic elements	Prof T Mkhalanyane	Poster			
	Christophe Lefebvre	Using computational tools to shed light on microbes with capacity to degrade microplastics in the oceans	Prof D Cowan	Poster			
	Elizabe Malan	Understanding the dynamics of microbial communities in the Congo River plume	Prof T Mkhalanyane	Poster			
	Benjamin Abraham	Nutrient Co Limitation of Bacterial Communities within the Southern Ocean	Prof T Mkhalanyane	Poster			
	Nelisiwe Hedebe	Prof T Mkhalanyane	Poster				
	Michelle Bekker	Phage diversity in the Southern Ocean	Prof T Mkhalanyane	Poster			
15:00		BREAK					
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15:30	The Southern Ocean's sens	itivity to a changing climate: CHAIR: Dr Sarah Nicholson & Dr Sandy Thomalla					
13.30	insights from a seasonal cy						
	Sarah Nicholson	The impact of storms on CO2 and heat exchange across the Southern Ocean	DR S Nicholson	Oral			
	Tesha Toolsee	The complex role of storms in modulating intra-seasonal air-sea CO2 fluxes in the sub-Antarctic Southern Ocean	DR S Nicholson	Oral			
	Sandy Thomalla	Trends in Southern Ocean Phytoplankton bloom phenology	DR S Thomalla	Oral			
	Sifiso Mpapane			ePoster			
	Tommy Ryan-Keogh Multi-decadal trend of increasing iron stress in the Southern Ocean phytoplankton		DR S Nicholson	Oral			
	Thapelo Ramalepe	DR S Nicholson	Oral				
	Thato Mtshali	Dr T Mtshali	Oral				
	Miranda Sitofile	DR S Thomalla	ePoster				
	Lillina Ruiters	Variability of phytoplankton photophysiology in the Southern Ocean: an analysis of assumptions and uncertainties	DR S Thomalla	ePoster			
16:30		NETWORK - Building our SANAP Research Community					
10.50		NETWORK - Building our SAIVAF Research Community					
18:30		DINNER					



Thursday 30 November 2023

TIME	SESSION	SPEAKER(s)	TITLE	Principal Investigator	FORMAT
		RESEARCH THEME : E	cosystems, biodiversity and biodiscovery		
8:30	ORNITHOLOGY		CHAIR: Prof Pierre Pistorius		
	Plenary	Dr Sue Tonin	Eradicating Invasive House Mice Mus musculus from Marion Island: Gair	ns and Challenges	
9:00	Vonica Perold	South Atlantic seabirds can be used as bioindicator	rs to monitor small buoyant plastics at sea	Prof P Ryan	Oral
	Tegan Walker	Influence of diet and environmental parameters or	n Brown Skua breeding success at Marion Island		Oral
	Shamiso Banda	Gauging the threat: exposure and attraction of Soc	oty Albatrosses and White-Chinned Petrels to fisheries activities in the southern Indian Ocean	Prof P Pistorius	Oral
	Danielle Keys	Foraging behaviour of adult Wandering Albatrosse	s (diomedea exulans) in relation to growth and success of their offspring.	Prof P Pistorius	Oral
	Pierre Pistorius	Tracking Southern Ocean predators to identify eco	logically important habitat	Prof P Pistorius	Oral
	Eleanor Weideman	Seasonal attendance patterns and habitat use of th	nree avian scavengers at sub-Antarctic Marion Island	Pro M Connan	Oral
9:30	Major threats to terrestrial sub-Antarctic eco	systems – climate change and invasions	CHAIR: Prof Michelle Greve		
	Michelle Greve	Introduction			
	Joshua Tsamba	Joshua Tsamba – Fungal endophytes on Marion Isla	and	Dr Michelle Greve	Oral
	Nita Pallett	Nita Pallett – Sub-Antarctic plant nitrogen uptake i	n a changing world	Dr Michelle Greve	Oral
	Stephni van der Merwe	Interactive poster: Stephni van der Merwe – Long-	term vegetation change (1965-2020) in response to rapid warming and drying in a sub-Antarctic	¹ Dr Michelle Greve	Oral
	Laura Fernandez Winzer	An assessment of the status of biological invasions	and their management on the Prince Edward Islands	Dr Michelle Greve	Oral
10:00			BREAK		
10:30		RESEARCH THEME: Ocean	s and marine ecosystems under global change		
	Southern Ocean productivity: drivers and co	nsequences	CHAIR: Prof Sarah Fawcett & Prof Suzanne Fietz		
	Sarah Fawcett/Susanne Fietz	Introduction and alignment with MARS			Oral
	Liam Quinlan	Characterising phytoplankton communities: A Sout	thern Ocean case study of environmental coupling	Prof Suzanne Fietz	Oral
	Amelia Deary	Early community development at the Southern Oc	ean Marginal Ice Zone	Prof Sarah Fawcett	Oral
	Sadiyah Rawat	The role of the island mass effect in enhancing pro	ductivity and carbon export in the Subantarctic Ocean	Prof Sarah Fawcett	Oral
	Emtia Wium	Impact of metals in aerosols and dust on marine pl	hytoplankton: South Africa	Prof Suzanne Fietz	Oral
	Sina Wallschuss	The seasonality and origins of nitrous oxide in the		Prof Sarah Fawcett	Oral
	Faith February	Observations of Southern Ocean marine aerosols i	n Simon's Town, False Bay	Dr Katye Altieri	Oral
	Sarah Fawcett /Susanne Fietz	General discussion			Oral
	Mhlangabezi Mdutyana	Nitrification in the Southern Ocean: controls, kinet		Prof Sarah Fawcett	poster
	Sarah Fawcett	Nanoplankton: the dominant vector for carbon exp	port across the Atlantic Southern Ocean in spring	Prof Sarah Fawcett	poster
	Susanne Fietz	Trace metals and phytoplankton		Prof Suzanne Fietz	poster
11:30			anagement and the Summer Survey Participlants		
	Data and frameworks in the support of pola		CHAIR: Dr Christel Hansen		
	Christel Hansen	Introduction			
	Newi Makhado	Ecoregionalisation of the pelagic zone in the Subar		Dr Newi Makhado	Oral
	Janine Schoombie	Studies of wind, plants and seabirds on Marion Isla	and	Prof Peter Le Roux	Oral
	Chris Oosthuizen	Marine predators: ecosystem sentinels that help in	nform Southern Ocean management	Prof Nico De Bruyn	Oral
	David Hedding	A geospatial database for the sub-Antarctic Prince $$	Edward Islands	Prof Wernel	Oral
	Stefan Schoombie	Non-breeding distribution and moulting activity of	Blue Petrels (Halobaena caerulea) breeding on sub-Antarctic Marion Island.	Prof Maelle Connan	Oral
	Chrsitel Hansen Consistent mapping and geospatial information representation in the Antarctic and sub-Antarctic: why South Africans should care Oral				
12:30			LUNCH		

13:30		RESEARCH THEME: Oceans and marine ecosystems under global change		
	From Physics to Top Predators at islands a	nd seamounts in the Southern Ocean CHAIR: Dr Tarron Lamont		
	T Lamont, MA van den Berg	Mesoscale eddies influencing the sub-Antarctic Prince Edward Islands: Origin, pathways, and characteristics	Dr T Lamont	Oral
	MA van den Berg, T Lamont, IJ Ansorge	Influence of eddies and fronts on the shelf seas of the sub-Antarctic Prince Edward Islands	Dr T Lamont	Oral
	<u>T Toolsee</u> , T Lamont	Dr T Lamont	Oral	
	<u>l Halo</u> , BK Soares, T Lamont, CS Russo, MA van den Berg	g, CSurface and subsurface hydrographic variability at the Prince Edward Islands: Perspectives from the high-resolution GLORYS model	Dr T Lamont	Oral
	<u>SA du Preez</u> , T Lamont, JA Huggett	Zooplankton variability around the sub-Antarctic Prince Edward Islands and the influence of the environment	Dr T Lamont	Oral
	<u>R Daniels</u> , FW Shabangu, RK Jordaan, PJN de Bruyn, MA	va Killer whale acoustic patterns respond to prey abundance and environmental variability around the Prince Edward Islands, Southern Ocean	Dr T Lamont	Oral
	<u>l Schafer</u> , FW Shabangu, T Lamont	Acoustic occurrence and behaviour of Baleen Whales during winter around Prince Edward Islands	Dr T Lamont	Oral
	<u>A Sneddon</u> , T Lamont, CJC Reason, CS Russo	Marine Heatwave characteristics in the South Atlantic and South Indian Oceans	Dr T Lamont	Oral
	JA Huggett, NM MdIuli, SA du Preez, D Thibault, T Lamo	nt Towards ecoregionalisation of the eastern subantarctic pelagic zone - mapping zooplankton communities at the Prince Edward Islands	Dr T Lamont	Oral
	FW Shabangu, S Lamberth, S Madhusudhana, G van der	H Rhyming in the cold: Fish calls between two sub-Antarctic Islands, Southern Ocean	Dr T Lamont	E-poster
	FW Shabangu, CT Tessaglia-Hymes, L Jacobs, MA van de	en Life near the sea ice edge: Listening for whales off the Maud Rise, Antarctica	Dr T Lamont	E-poster
14:30		RESEARCH THEME: Human Enterprise		
	Humanities in the South African National A	Antarctic Programme CHAIR: Dr Charney Lavery & Dr Adrienne van Eeden-Wharton		
	Prof J Brundrit	Over the Horizon : An art project in Antarctica	M Olivier	
	Dr A van Eeden-Wharton	Render Remnant: Tracing the entangled histories of African and Antarctic whaling Orienting South: Looking to Antarctica and the Southern Ocean in South African literature	Dr C Lavery	
	Dr C Lavery	Dr C Lavery		
	M Olivier	M Olivier	POSTER	
-	DR M Stander et al.		POSTER	
15:10		BREAK		
		RESEARCH THEME: Earth Systems Observations		
	Space Physics	CHAIR: Dr Stefan Lotz		
	Dr Michael Kosch	How blue skies auroral research created and saved billions.		
	Tshimangadzo M. Matamba	Monitoring the Impact of Space Weather using South African Near-Real Time Space Weather GNSS Products		
	Nkosinathi Masango	Analysis of ionospheric storm effects based on GPS and ionosonde data during geomagnetic storms.		
	Dr Pierre Cillier	The long-term variation of the geomagnetic field in Antarctica as measured in Hermanus, Maitri and at SANAE-IV since 2007		
	Alicreance Hiyadutuje	Sporadic E layer altitude modulated by the Traveling Ionospheric Disturbances at high latitudes		
	Dr Stefan Lotz	Observation of powerful gamma ray burst GRB221009A from Marion Island		
(CROSS DISCIPLINES		
16:30	Research Infrastructure and platforms:	Marcello Vichi The Polar Lab		Plenary
17:00				
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		NETWORK - Building our SANAP Research Community		
19:00		DINNER		
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27-Nov		28-Nov		29-Nov		30-Nov			01-Dec
Monday		Tuesday		Wednesday		Thursday			Friday
7:00 7:30	RREAKEANT IN CIVALITIALE						7:00 7:30	CHECK OUT	
8:00		8:00	Introduction- Administrative	8:00	Plenary Pete Convey BAS	8:00	Plenary Mouse Free Marion Sue Tonin	8:00	Closing Ceremony
8:30	DDEDADATION	8:30	Opening Ceremony Gilbert	8:30	MAMMALS	8:30	ORNITHOLOGY	8:30	Tracy Klarenbeek
9:00	PREPARATION	9:00	Governance: DSI -NRF-MARS	9:00		9:00	CONNAN & PISTORIUS	9:00	HIGHLIGHTS - MEMORIAM
9:30		9:30	Governance, D31-NNF-WAN3	9:30	GEOMORPHOLOGY:NEL	9:30	BOTANY GREVE min	9:30	ECR Awards
10:00		10:00	COFFEE/TEA BREAK - E-POSTER	9:45	COFFEE/TEA BREAK - E-POSTER	10:00	COFFEE/TEA BREAK - E-POSTER	10:00	INTERNATIONAL
10:30		10:30	SANC SCAR - Bettine VVuuren	10:15		10:30	OCEAN 3:	10:30	
11:00		11:00	Capacity Development: SEAmester, SOCCO, AYC		GEOMORPHOLOGY:NEL	11:00	FAWCETT & FIETZ	11:00	
11:30		11:30		11:15	APECSSA	11:30	AD HOC Session	11:30	Introduction- Administrative
12:00	SA National Committee for	12:00	Awareness	11:45	MICROBIOLOGY Cowan	12:00	Christel Hansen	12:00	DEPARTURE
12:30	SCAR meeting	12:30	LUNCH	12:30	LUNCH	12:30	LUNCH	12:30	DEPARTORE
13:00			LONCH	13:00	LUNCH	13:00	LONCH	13:00	
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14:00		14:00	RAMPAI	14:00	Cowan	14:00	LAMONT	14:00	
14:30	CHECK IN	14:30	NAIVIF AI	14:30		14:30	HUMANITIES - LAVERY	14:30	
15:00		15:00	COFFEE/TEA BREAK - E-POSTER	15:00	COFFEE/TEA BREAK - E-POSTER	15:10	COFFEE/TEA BREAK - E-POSTER	15;10	
	ALL PRESENTATIONS TO VENUE	15:30		15:30	OCEAN 2:	15:30	SPACE	15:30	
16:00		16:15	SANAP DATA Management		NICHOLSON & THOMALLA	16:00		16:00	
16:30	SETUP EXHIBITS	16:50	NETWORKING	16:30	NETWORKING	16:30	Plenary (Polar Lab - VICHI)	16:30	
17:00	KEYNOTE Lecture - Endurance	17:00 17:30	COMMUNITY BUILDING	17:00	COMMUNITY BUILDING	17:00	ALL BANNERS TO LOGGIA	17:00	
17:30	0			17:30		17:30	NETWORKING	17:30	
18:00	Welcoming	18:00		18:00		18:30	COMMUNITY BUILDING	18:30	
18:30			DINNER	18:30	DINNER	18:30		18:30	
19:00	lcebreaker		DINNER	19:00	DINNER	19:00		19:00	
19:30	o l	19:30	SCALE EXP	19:30	INNOVATION	19:30	Brazi Barbague	19:30	
20:00				20:00	INNOVATION: BEKKER	20:00	Braai-Barbeque		
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