

Thursday 30 November 2023

TIME SESSION	SPEAKER(s)	TITLE	Principal Investigator	FORMAT
RESEARCH THEME : Ecosystems, biodiversity and biodiscovery				
8:30	ORNITHOLOGY	CHAIR : Prof Pierre Pistorius		FORMAT
	Dr Sue Tonin	Eradicating Invasive House Mice <i>Mus musculus</i> from Marion Island: Gains and Challenges		Plenary Talk
9:00	Vonica Perold	South Atlantic seabirds can be used as bioindicators to monitor small buoyant plastics at sea	Prof P Ryan	Oral
	Tegan Walker	Influence of diet and environmental parameters on Brown Skua breeding success at Marion Island		Oral
	Shamiso Banda	Gauging the threat: exposure and attraction of Sooty Albatrosses and White-Chinned Petrels to fisheries activities in the southern Indian Ocean	Prof P Pistorius	Oral
	Danielle Keys	Foraging behaviour of adult Wandering Albatrosses (<i>diomedea exulans</i>) in relation to growth and success of their offspring.	Prof P Pistorius	Oral
	Pierre Pistorius	Tracking Southern Ocean predators to identify ecologically important habitat	Prof P Pistorius	Oral
	Eleanor Weideman	Seasonal attendance patterns and habitat use of three avian scavengers at sub-Antarctic Marion Island	Pro M Connan	Oral
9:30	Major threats to terrestrial sub-Antarctic ecosystems – climate change and invasive		CHAIR: Prof Michelle Greve	
	Michelle Greve	Introduction		
	Joshua Tsamba	Joshua Tsamba – Fungal endophytes on Marion Island	Dr Michelle Greve	Oral
	Nita Pallett	Nita Pallett – Sub-Antarctic plant nitrogen uptake in 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 tundra: evidence from repeat photography	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: Oceans and marine ecosystems under global change			
	Southern Ocean productivity: drivers and consequences		CHAIR: Prof Sarah Fawcett & Prof Suzanne Fietz	
	Sarah Fawcett/Susanne Fietz	Introduction and alignment with MARS		Oral
	Liam Quinlan	Characterising phytoplankton communities: A Southern Ocean case study of environmental coupling	Prof Suzanne Fietz	Oral
	Amelia Deary	Early community development at the Southern Ocean Marginal Ice Zone	Prof Sarah Fawcett	Oral
	Sadiyah Rawat	The role of the island mass effect in enhancing productivity and carbon export in the Subantarctic Ocean	Prof Sarah Fawcett	Oral
	Emtia Wium	Impact of metals in aerosols and dust on marine phytoplankton: South Africa	Prof Suzanne Fietz	Oral
	Sina Wallschuss	The seasonality and origins of nitrous oxide in the Atlantic sector of the Southern Ocean	Prof Sarah Fawcett	Oral
	Faith February	Observations of Southern Ocean marine aerosols in Simon’s Town, False Bay	Dr Katye Altieri	Oral
	Sarah Fawcett/Susanne Fietz	General discussion		Oral
	Mhlangabezi Mduyana	Nitrification in the Southern Ocean: controls, kinetics, and biogeochemical implications	Prof Sarah Fawcett	poster
	Sarah Fawcett	Nanoplankton: the dominant vector for carbon export across the Atlantic Southern Ocean in spring	Prof Sarah Fawcett	poster
	Susanne Fietz	Trace metals and phytoplankton	Prof Suzanne Fietz	poster

11:30

CROSS DISCIPLINE: Data Management and the Summer Survey Participants

Data and frameworks in the support of polar research

CHAIR: Dr Christel Hansen

Christel Hansen	Introduction		
Newi Makhado	Ecoregionalisation of the pelagic zone in the Subantarctic and subtropical Indian Ocean	Dr Newi Makhado	Oral
Janine Schoombie	Studies of wind, plants and seabirds on Marion Island	Prof Peter Le Roux	Oral
Chris Oosthuizen	Marine predators: ecosystem sentinels that help inform 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 (<i>Halobaena caerulea</i>) 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 and seamounts in the Southern Ocean CHAIR: Dr Tarron Lamont

<u>T Lamont</u> , MA van den Berg	Mesoscale eddies influencing the sub-Antarctic Prince Edward Islands: Origin, pathways, and characteristics	Dr T Lamont	Oral
<u>MA van den Berg</u> , T Lamont, IJ Ansonge	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	The interannual/decadal scale and long-term trends of surface hydrography around the sub-Antarctic Prince Edward Islands	Dr T Lamont	Oral
<u>I Halo</u> , BK Soares, T Lamont, CS Russo, MA van den Berg, G Tutt	Surface 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 van den Berg, T Lamont	Killer whale acoustic patterns respond to prey abundance and environmental variability around the Prince Edward Islands, Southern Ocean	Dr T Lamont	Oral
<u>I 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
<u>JA Huggett</u> , NM Mdluli, SA du Preez, D Thibault, T Lamont	Towards ecoregionalisation of the eastern subantarctic pelagic zone - mapping zooplankton communities at the Prince Edward Islands	Dr T Lamont	Oral
<u>FW Shabangu</u> , S Lamberth, S Madhusudhana, G van der Heever, O Gon, H Raven	Rhyming in the cold: Fish calls between two sub-Antarctic Islands, Southern Ocean	Dr T Lamont	E-poster
<u>FW Shabangu</u> , CT Tessaglia-Hymes, L Jacobs, MA van den Berg, G Louw, T Lamont, H Klinck	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 Antarctic Programme	CHAIR: Dr Charney Lavery & Dr Adrienne van Eeden-Wharton		
	Prof J Brundrit	<i>Over the Horizon</i> : An art project in Antarctica	M Olivier	
	Dr A van Eeden-Wharton	Render Remnant: Tracing the entangled histories of African and Antarctic whaling	Dr C Lavery	
	Dr C Lavery	Orienting South: Looking to Antarctica and the Southern Ocean in South African literature	Dr C Lavery	
	M Olivier	Humanities can build bridges between researchers in different fields in Antarctic research	M Olivier	POSTER
	DR M Stander et al.	Proposed project: Digitisation and preservation of Marion Island's hut books		POSTER
15:10	BREAK			
	RESEARCH THEME : Earth Systems Observations			
15:30	Space Physics	CHAIR: Dr Stefan Lotz		Plenary Talk
	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:	Prof Marcello Vichi	The Polar Lab	Plenary Talk
17:00	NETWORK - Building our SANAP Research Community			
19:00	DINNER			