

LIGHTNING TALKS

TUESDAY: 1200 - 12 Name	Poster Title	#
	GING CLIMATE AND EARTH SYSTEM	"
Miss Elka Blackman	Assessing long-term changes in Antarctic moss health	1
SAEF, UOW	Assessing long-term changes in Artarctic moss health	1
Mr Wangpeng Gui	Estimating the basal melting of ice shelves affected by submesoscale	4
The University Of MELB	dynamics	
Ms Chao Jiang	Modelling the internal dynamics of the Amery Ice Shelf, East Antarctica	5
Monash University		
Dr Hongyuan Liu	High performance modelling of Antarctic iceberg calving with a parallelized	6
UTAS	hybrid finite-discrete element method	
A/Prof Laurie Menviel	Impact of changes in Southern Ocean circulation on atmospheric CO2	7
The University of NSW	concentration	
Dr Tyler Pelle	Subglacial freshwater accelerates retreat and the sea level contribution of	8
Scripps Institution Of	vulnerable Antarctic glaciers over the 21st century	
Oceanography		
Dr Tamara Schlosser	Phytoplankton blooms in the Southern Ocean in high vs. low sea ice years	9
UTAS		
Dr Taimoor Sohail	Improving Argo salinity measurements around Antarctica using machine	10
University Of NSW	learning	
Dr Catherine Vreugdenhil	The Effects of Ocean Dynamics on the Melting of Ice Shelves: a Fine-scale	11
University of Melbourne	Numerical Simulation Approach	
Mr Yinghuan Xie	Investigating the Differences in Predicting Marine CO2 Removal with Different	12
UTAS/IMAS	Ocean Model Resolutions in the Southern Ocean and Globally	
THE HUMAN DIMENSION	I OF ANTARCTICA	
Assoc Prof Patti Virtue	Exploring variability in omega-3 levels in Antarctic Krill: Indicators of Southern	41
ACEAS	Ocean health	
Dr Vanessa Adams	Building representative MPA networks: MPA planning in the Southern Ocean	40
UTAS		
Dr Isabelle Onley	Assessing the ongoing risk and managing detections of non-native	43
University Of Adelaide	invertebrates in the Antarctic region	
Ms Frances Perry	Using eDNA to monitor marine invasion risk in the Southern Ocean	42
University Of Adelaide		
Dr Valeria Senigaglia	Geopolitical coalitions and their significance in environmental management	45
QUT	and decision-making in the Southern Ocean	
WEDNESDAY: 1130	1000	

OTHER ANTARCTIC/SUB-ANTARCTIC/SOUTHERN OCEAN TOPICS

Dr Hannah Dawson IMAS, UTAS	The role of deep ocean warming in Antarctic sea ice loss	48
LCDR Daniel Atwater AAPP/RAN	Sensitivity of Antarctic landfast sea ice under varying atmospheric conditions	53
Ms Katy Baker	A multispecies size spectrum model for assessing carbon sequestration driven	50
IMAS/UTAS	by the mesopelagic migrant pump	
Mr Elio Campitelli	Frost Impressions of ACCESS-S2 Antarctic Sea Ice Forecast	55
Monash University		
Ms Kelly-anne Lawler	Our knowledge of Southern Ocean radiolarians is SO-RAD!	52
Australian National University		
Dr Julie McInnes AAD/IMAS	The population status and trends of Macquarie Island vertebrates	57
Dr Steph Mclennan	Informing environmental management with landscape mapping	54
Geoscience Australia		
Ms Talitha Nelson <i>UTAS</i>	The response of East Antarctic phytoplankton to organically bound iron and light	59
Dr Julia Neme UTAS	Building an observational estimate of subpolar gyre strength	56
Miss Paola Papapetros UTAS	The influence of subglacial water laden sediments on ice shelf basal melting	61
Dr Beatriz Peña-molino Csiro	Observing the continental margin in East Antarctica with CPIES: insights from model	58
Miss Sienna Blanckensee The University Of QLD	Overview of Cape Darnley Bottom Water and comparison to other formation sites	2
Dr Mardi McNeil	Seabed glacial geomorphology features on the East Antarctic continental shelf:	86
Geoscience Australia	first results from RV Polarstern expedition PS141, EASI-3	
THURSDAY: 1110 -		
EXTREMES, REGIME SHII	FTS AND TIPPING POINTS IN THE ANTARCTIC SYSTEM	
Dr Matthew Adams <i>QLD University Of Technology</i>	Ecological tipping points in Antarctica: how do mathematical models fit in?	112
Mr Jiliang Chen Macquarie University	Can Voluntary Conservation Actions Complement the Consensus Building for MPAs at CCAMLR?	113
Dr Will Hobbs UTAS/IMAS	A regime shift in Antarctic sea ice	114
Ms Johanne Jahnsen Hus UTAS	Ocean turbulent mixing beneath Antarctic sea ice	115
Mr Yu Wang	Subglacial Hydrological Discharge Accelerates Ice Loss and Amplifies	116
AAPP/IMAS	Irreversibility in the Wilkes Subglacial Basin, East Antarctica	
ANTARCTICA'S PAST		
Prof Zanna Chase	The role of Antarctic sea ice in the Earth System: Perspectives informed by	119
UTAS	130,000 years of sea ice records	
Dr Katharina Hochmuth	Peeking into East Antarctica's past – Using newly acquired reflection seismic	120
UTAS	data from RV Polarstern voyage PS-141 (EASI-3-East Antarctic Ice Sheet Instability and its interaction with changes in the Southern Ocean)	
Max Nilssen	data from RV Polarstern voyage PS-141 (EASI-3-East Antarctic Ice Sheet Instability and its interaction with changes in the Southern Ocean) Evaluating the Twentieth Century Reanalysis Version 3 with synoptic typing and	122
	Instability and its interaction with changes in the Southern Ocean)	122
Max Nilssen	Instability and its interaction with changes in the Southern Ocean) Evaluating the Twentieth Century Reanalysis Version 3 with synoptic typing and	122
Max Nilssen AAPP	Instability and its interaction with changes in the Southern Ocean) Evaluating the Twentieth Century Reanalysis Version 3 with synoptic typing and East Antarctic ice core accumulation	
Max Nilssen AAPP Mr Ryan North	Instability and its interaction with changes in the Southern Ocean) Evaluating the Twentieth Century Reanalysis Version 3 with synoptic typing and East Antarctic ice core accumulation Long-term stability of ice sheet thickness around central Antarctic Peninsula	

Ms Alexandra Parrott	Paleo-productivity changes across glacial-interglacial cycles, Prydz Bay, East	123		
IMAS	Antarctica			
Mr Corey Port	Constraining the behaviour of the Denman-Scott Glacier system, East	125		
SAEF, Monash	Antarctica, over the Holocene, using cosmogenic 10Be and 14C			
Cari Rand	Ice-volume change in the Lambert-Amery system from the Last Glacial	126		
SAEF, EAE Monash	Maximum to the present			
ANTARCTICA'S FUTURE: RESEARCH DIRECTIONS IN THE GLOBAL CONTEXT				
Prof Philip Boyd	Controls on Southern Ocean Deep Chlorophyll Maxima: viewpoints from	204		
IMAS	multiple observational platforms			
Dr Poul Christoffersen	Sea level rise and the delicate question of glacial intervention	201		
IMAS				
Ms Caitlin Harvey	Climate impacts on Australia's Antarctic and subantarctic heritage and future	206		
UTAS	management options			
Dr Maria Constanza	Unravelling the Dynamics of Denman Glacier, East Antarctica: Insights from MT	208		
Manassero	and Integrated Geophysical Investigations			
UTAS, ACEAS				

THANK YOU TO OUR PARTNERS AND SUPPORTERS























