

SOOS Weddell Sea-Dronning Maud Land Working Group online workshop program (2020 October 20-23):

Tuesday 20 October					
13:00	13:30	Welcome	Chairs + LG		
13:30	13:45	BIO1	Chair: Wege	Kauko	Phytoplankton bloom dynamics in autumn in Kong Håkon VII Hav, Antarctica
13:45	14:00	BIO2		Peeken	The role of sea ice biota for the ecosystem in the northwestern Weddell Sea
14:00	14:15	BIO3		Ryan-Keogh	Seasonal variability of phytoplankton photophysiology in the open ocean and sea ice
14:15	14:30	BIO4		Cornils	Spatial and temporal patterns of phytoplankton and copepod diversity in the Weddell Sea
14:30	14:45	Break			
14:45	15:00	BIO5	Chair: Moreau	Singh	The seasonal response of phytoplankton to iron addition in the Weddell sea and along the Dronning Maud Land ice edge
15:00	15:15	BIO6		Eleaume	Benthic community turn over after ice sheet calving (Larsen)
15:15	15:30	BIO7		Frinault	The Weddell Sea: Analysis of benthic communities adjacent to the Larsen C ice shelf supports a diversity of fauna
15:30	15:45	BIO8		Link	Spatial patterns of benthic boundary fluxes in the Weddell Sea and the role of biodiversity and environmental changes
15:45	16:15	Discussion BIO	Chairs: Moreau & Sallee		
16:15	16:30	Wrap up			
Wednesday 21 October					
13:00	13:15	PO1	Chair: Janout	Reeve	The Weddell Gyre heat budget and the WedUP project (Weddell Gyre Upwelling and dynamical Processes)
13:15	13:30	PO2		Vichi	The winter variability of the Eastern Weddell Sea marginal ice zone and its impact on Southern Ocean dynamics
13:30	13:45	PO3		Swart	Submesoscale fronts in the Antarctic marginal ice zone and their response to wind forcing
13:45	14:00	PO4		Hattermann	Refining Antarctic coastal hydrography based on traditional observations and instrumented seals
14:00	14:15	PO5		Mojica	Characterization of Ocean Convective Mixing during the 2017 Maud Rise Polynya Event
14:15	14:30	Break			
14:30	14:45	PO6	Chair: de Steur	Hutchinson	Water Mass Characteristics and Distribution Adjacent to Larsen C Ice Shelf, Antarctica
14:45	15:00	PO7		Mirkin	Meltwater and circulation characteristics adjacent to Larsen C ice shelf: insights from seawater $\delta^{18}O$
15:00	15:15	PO8		Du Plessis	Meridional contrasts of the Southern Ocean mixed layer in response to summer forcing
15:15	15:30	PO9		Eisen	Relevance of field observations as boundary conditions for understanding ice-sheet–ocean interactions – a compilation of results from the Dronning Maud Land coast
15:30	16:00	Discussion PO	Chairs: Janout & de Steur		
16:00	16:10	Wrap up			

Thursday 22 October					
13:00	13:30	Posters	Chair: Moreau		
13:30	13:45	PO10	Chair: Hoppema	Haas	Sea ice thickness and ice shelf interaction in the Weddell Sea
13:45	14:00	PO11		Biddle	Sea ice drift, melt and heat fluxes revealed by deployments of Seasonal Ice Mass Balance buoys in winter and spring in the eastern Weddell Sea
14:00	14:15	PO12		Arndt	Seasonal and interannual variability of landfast sea ice in Atka Bay, Weddell Sea, Antarctica
14:15	14:30	Break			
14:30	14:45	BGC1	Chair: Fawcett	Hoppema	Relationships of CO ₂ , nutrients, manganese and iron in the upper layer of the Atlantic sector of the Southern Ocean
14:45	15:00	BGC2		Isla	Some aspects of environmental controls on particle transport over the Weddell Sea continental shelf
15:00	15:15	BGC3		Geibert	Possible controls of particle flux in the Weddell Gyre
15:15	15:30	BGC4		Fransson	Ocean CO ₂ chemistry, air-sea CO ₂ fluxes and ocean acidification in the ice-covered Southern Ocean in autumn, near the coast off Dronning Maud Land/Kong Håkon VII Sea
15:30	15:45	BGC5		Flynn	Productivity and carbon export potential in the Weddell Sea, with a focus on the waters near Larsen C Ice Shelf
15:45	16:00	Discussion SEA ICE/ BGC	Chairs: Hoppema & Fawcett		
16:00	16:10	Wrap up			
Friday 23 October					
12:45	13:00	BIO9	Chair: Biddle	Zitterbart	Remote Sensing of Emperor Penguin Colony Health and Foraging Success as Indicators of the Southern Ocean Ecosystem
13:00	13:15	BIO10		Wege	Crabeater seal breeding season habitat suitability in the Weddell Sea inferred from satellite imagery and citizen science
13:15	13:30	BIO11		Le Bohec	Monitor the health of the Antarctic marine ecosystems using the Emperor penguin as a sentinel (MARE)
13:30	13:45	BIO12		Photopoulou	Sex-specific use of hydrographic space by Weddell seals in the southern Weddell Sea
13:45	14:00	BIO13		Marina	The Weddell Sea Trophic Network: A dynamical analysis
14:00	14:15	Discussion BIO	Chairs: Wege & Biddle		
14:15	14:30	Break			
14:30	15:30	Updates field programs	Chairs: Meijers + LG		
15:30	16:00	Special issue	Chairs: Moreau + Janout		
16:00	16:30	Data management	Chairs: Hoppema + de Steur		
16:30	16:45	Wrap up & Farewell	All		

Posters:

Donnelly/Klein	Tackling the gap: completing and sustaining development of the Argo array in the Weddell Gyre
Mata	Automated iceberg tracking with a machine learning approach applied to SAR imagery: A Weddell Sea case study
van Manen	Dissolved bio-essential metals in the Lazarev and Weddell Sea
Papetti	Species, hybrids and populations of <i>Chionodraco</i> spp. icefishes in Weddell Sea
Sun	Spatial and temporal variability of ice shelf basal mass balance, Dronning Maud Land
Droste	The role of sea ice in the carbon sink of the Weddell Gyre using novel biogeochemical sensors
de Steur	Imelt project: Fimbul ice shelf updates
Teschke	Systematic conservation planning in the Weddell Sea
Gutt	A multidisciplinary observation strategy for the Weddell Sea