Polar Climate Change: Driving Processes,

Extreme Events, and Global Linkages

Agenda

Meeting Room , Hohai International Conference Center & Hotel

23-24 October 2017

Sunday, 22 October	
Registration	

Oral Sessions

Monday, 23 October			
Times	Title	Speaker	
8:30-8:40	Welcome Speech by President	Hui Xu	
8:40-8:50	Welcome and Introduction Zhaomin Wang		
8:50-9:00	Arctic Climate Change: State of Knowledge, Questions, and Challenges Xiangdong Zhan		
9:00-9:10	Photo		
Arctic-Lower Latitude Linkage and Impacts (I)			

Chair: Xiangdong Zhang

9:10-9:30

Antarctic Clir	nate Change and its Global Linkage	
Chair: Zhaomin		
13:30-13:50	Extreme Meteorological and Sea Ice Events in the	
13:50-14:05	Features of monthly and extreme precipitations at Progress station, AntarcticaLejiang	
14:05-14:20	Influences of polynyas on shelf water in Prydz Bay Jiuxing S	
14:20-14:35	The evolution of the Southern Annular Mode (SAM) during the past 300 yearsCunde Xiao	
14:35-14:50	Southern Hemisphere origins for interannual variations of Tibetan Plateau snow cover in borealZhiwei Wusummer	
14:50-15:05	The Annular Modes: intrinsic dynamics and the role of global-warming like forcing Yang Zhang (NJU	
15:05-15:30	Coffee Break	
Ice Shelf-Ocea	an Interactions	
Chair: John Tu	rner	
15:30-15:50	Rationale and design of the Southern Ocean Observing System	Dake Chen
15:50-16:10	Interaction of Greenland Outlet Glaciers with Ocean Waters David Hollan	
16:10-16:30	The study of ice shelf-ocean interaction – techniques and recent results Keith Nicholl	
16:30-16:45	The interaction between Antarctic ice shelf and sea ice	Xiao Cheng
16:45-17:00	Hot Water Drill Project at Amery Ice Shelf, East Antarctica Yuansheng	
17:00-17:15	Modeling modified Circumpolar Deep Water intrusions onto the Prydz Bay continental shelf, East Antarctica	
17:15-17:30	Vertical modification on depth-integrated ice shelf water plume modeling based on an equilibrium vertical profile of suspended frazil ice concentration	
17:30-18:30	Discussion Chair: John Turner and Zhaomin Wang	
18:30	Banquet	

	Tuesday, 24 October		
Arctic in-situ	observations and analysis		
Chair: Xiangd	ong Zhang		
Times	Title	Speaker	
	Collapse of the winter Beaufort High associated with		
8:30-8:50	the pan-Arctic intrusion of North Atlantic cyclones: A	Kent Moore	
	response to thinning sea ice?		
8:50-9:10	MOSAiC as a platform for Arctic coupled system	Matthew Shupe	
0.50-7.10	research	Mature w Shupe	
9:10-9:30	Sea ice and ocean observations - essential for	Stein Sandven	
9.10-9.30	monitoring and modelling the Arctic climate	Stem Sanuven	
	Improving sea ice thickness estimates by assimilating		
9:30-9:50	CryoSat-2 and SMOS sea ice thickness data	Qinghua Yang	
	simultaneously		
0.50 0.55	Introduction to Advances in Polar Science and call for	Vinks Chang	
9:50-9:55	papers	Xinke Cheng	
9:55-10:20	Coffee Break		
Synthesis of A	Arctic Observations and Modeling		
Chair: Annette	Rinke		
	Mesoscale Wind Climatology and Variation in the		
10:20-10:40	Chukchi-Beaufort High-Resolution Atmospheric	Jing Zhang	
	Reanalysis (CBHAR)		
10:40-11:00	How good are ocean reanalyses in the polar regions?	Petteri Uotila	
	Continuously Amplified Warming in the Alaskan		
11:00-11:20	Arctic: Implications for Estimating Global Warming	Tingjun Zhang	
	Hiatus		
	Effect of the Cycling WRF-3DVAR Data Assimilation		
11:20-11:35	of the Ship-borne Arctic Radiosonde Sounding on the	Joo-Hong Kim	
	Simulation of the Arctic Cyclone in mid-August 2016		
11.05.10.00	Discussion		
11:35-12:00	Chair: Annette Rinke and Xiangdong Zhang		
12:00-13:30	Buffet Lunch/Break		
Arctic Proces	ses, Events, and Modeling (II)		
Chair: Yongqi	Gao		
13:30-13:50	Atmosphere-ice-ocean interactions in the Arctic	Annette Rinke	
10 50 11 05	An Intense Arctic Storm Occurring in Summer 2016		
13:50-14:05	and Its Impacts on Melting Process of Sea Ice	Liran Peng	
44074	The AWI climate model: high-resolution climate		
14:05-14:20	modelling in CMIP6 and beyond	Tido Semmler	
	Sea ice kinematic and thermodynamic properties in	.	
14:20-14:35	the Arctic outflow region	Ruibo Lei	
14:35-14:50	Applications of an Unstructured Grid Surface Wave		
	Model (FVCOM-SWAVE) to the Arctic Ocean:	Yang Zhang (SIO)	

	Effects of ice-wave interaction		
14:50-15:05	The Arctic sea ice simulation and prediction by	Qi Shu	
15:05-15:25	FIO-ESM Climate warming induced changes in Arctic terrestrial	Hotaek Park	
15:25-15:50	ecohydrology regimes Coffee Break		
	Latitude Linkage and its Impact (II)		
Chair: Kent M			
15 50 16 10	Rapid increase of acidifying water in western Arctic	I	
15:50-16:10	Ocean and its driving forces linked to Global Change	Liqi Chen	
	The Eurasia-North Pacific Oscillation independent of		
16:10-16:30	both IHO and AO and its possible impacts on winter	Zhaoyong Guan	
	climate		
	Nordic Center of Excellence: Arctic climate		
16:30-16:50	predictions: Pathways to Resilient, Sustainable	Yongqi Gao	
	Societies(ARCPATH)		
16:50-17:10	Polarized Response of East Asian Winter Temperature	Congwen Zhu	
10:30-17:10	Extremes in the Era of Arctic Warming		
17:10-17:25	Impact of winter Ural blocking on Arctic sea ice:	Xiaodan Chen	
17:10-17:25	Short-time variability	Alabdali Cheli	
17:25-17:40	Mass-induced sea level change in the northwestern		
	North Pacific and its contribution to total sea level	Xuhua Cheng	
	change		
17:40-18:30	Discussion		
17.70 10.30	Chair: Zhaomin Wang, Xiangdong Zhang, John Turner, and Annette Rinke		
18:30	Closing		
18:30-20:00	Buffet Dinner		

Poster Sessions

	23-24 October			
No.	First Author	Title		
1	Minghu Ding	Snowfall of west Antarctica and its linkage with ASL		
2	Qing Ji	Construction of Snow Depth Statistical Model Based on Ice Mass Balance Buoys Data on Arctic Sea Ice		
3	Xia Lin	Mean, Variability and Trend of Southern Ocean wind stress: Role of wind fluctuations		
4	Tido Semmler	Large ensembles of uncoupled and coupled model experiments on the influence of Arctic sea ice decline on mid-latitude weather and climate		
5	Xuezhu Wang	Oceanic and atmospheric response to Western Antarctic Ice Sh eet collapse during Last Interglacial		
6	Jianfen Wei	Variability of Fram Strait Sea Ice Export and its Role in Recently Accelerated Arctic Sea Ice Retreat		
7	Yang Wu	On the Response of the Lorenz Energy Cycle for the Southern Ocean to Intensified Westerlies		
8	Yang Wu	Decadal-mean impact of including ocean surface currents in bulk formulas on surface air-sea fluxes and ocean general circulation		
9	Yang Wu	Impact of Synoptic Atmospheric Forcing on the Mean Ocean Circulation		
10	Zhantang Xu	A semianalytical algorithm for quantitatively estimating sediment and atmospheric deposition flux from MODIS-derived sea ice albedo in the Bohai Sea, China		
11	Naiming Yuan	Long term persistence enhances uncertainty of the sea ice extent variations over Antarctica		
12	Xi Zhao	Will Sea ice leads increase as Arctic ice go thinner ?		
13	Zhaoru Zhang	Seasonal Southern Hemisphere Multi-Variable Reflection of the Southern Annular Mode in Atmosphere and Ocean Reanalyses		