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 War		
8:50-9:00	Arctic Climate Change: State of Knowledge, Questions, and Challenges Arctic Climate Change: State of Knowledge, Xiangdong Zhang		
9:00-9:10	Photo		

Arctic-Lower Latitude Linkage and Impacts (I)

Chair: Xiangdong Zhang

Relationship between the Arctic climate change and 58 5

9:10-9:30

Chair: Zhaomin				
13:30-13:50	Extreme Meteorological and Sea Ice Events in the			
13:50-14:05 L	Features of monthly and extreme precipitations at Progress station, Antarctica	Lejiang Yu		
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 years Cunde X			
14:35-14:50	Southern Hemisphere origins for interannual variations of Tibetan Plateau snow cover in boreal Summer Zhiwei W			
14.50-15.05	The Annular Modes: intrinsic dynamics and the role of global-warming like forcing Yang Zhang (
15:05-15:30	15:05-15:30 Coffee Break			
Ice Shelf-Ocean	n Interactions			
Chair: John Turi	ner			
15:30-15:50	Rationale and design of the Southern Ocean Observing System	Dake Chen		
L 15:50-16:10 L	Interaction of Greenland Outlet Glaciers with Ocean Waters David Holland			
1 16:10-16:30 1	The study of ice shelf-ocean interaction – techniques and recent results Keith Nich			
16:30-16:45	The interaction between Antarctic ice shelf and sea ice	Xiao Cheng		
L 16:45-17:00 L	Hot Water Drill Project at Amery Ice Shelf, East Antarctica Yuansl			
17:00-17:15	Modeling modified Circumpolar Deep Water			
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	Zhaomin Wang		
l 17·30-18·30 l	Discussion Chair: John Turner and Zhaomin Wang			
	Banquet			

Tuesday, 24 October					
Arctic in-situ observations and analysis					
Chair: Xiangdo	-				
Times	Title	Speaker			
	Collapse of the winter Beaufort High associated with	<u>-</u>			
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				
	Sea ice and ocean observations - essential for				
9:10-9:30	monitoring and modelling the Arctic climate	Stein Sandven			
	Improving sea ice thickness estimates by assimilating				
9:30-9:50	CryoSat-2 and SMOS sea ice thickness data	Qinghua Yang			
	simultaneously				
	Introduction to Advances in Polar Science and call for				
9:50-9:55	papers	Xinke Cheng			
9:55-10:20	Coffee Break				
Synthesis of A	rctic 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				
11:35-12:00	Discussion				
11.00 12.00	Chair: Annette Rinke and Xiangdong Zhang				
12:00-13:30	Buffet Lunch/Break				
	ses, Events, and Modeling (II)				
Chair: Yongqi					
13:30-13:50	Atmosphere-ice-ocean interactions in the Arctic	Annette Rinke			
13:50-14:05	An Intense Arctic Storm Occurring in Summer 2016	Liran Peng			
13.30 17.03	and Its Impacts on Melting Process of Sea Ice				
14:05-14:20	The AWI climate model: high-resolution climate	Tido Semmler			
	modelling in CMIP6 and beyond				
14:20-14:35	Sea ice kinematic and thermodynamic properties in	Ruibo Lei			
	the Arctic outflow region				
14:35-14:50	Applications of an Unstructured Grid Surface Wave	Yang Zhang (SIO)			
	Model (FVCOM-SWAVE) to the Arctic Ocean:				

	Effects of ice-wave interaction		
14:50-15:05	The Arctic sea ice simulation and prediction by FIO-ESM Qi		
15:05-15:25	Climate warming induced changes in Arctic terrestrial ecohydrology regimes Hotaek		
15:25-15:50	Coffee Break		
Arctic-Lower	Latitude Linkage and its Impact (II)		
Chair: Kent M	oore		
15:50-16:10	Rapid increase of acidifying water in western Arctic Ocean and its driving forces linked to Global Change	Liqi Chen	
16:10-16:30	The Eurasia–North Pacific Oscillation independent of both IHO and AO and its possible impacts on winter climate Zhaoyong		
16:30-16:50	Nordic Center of Excellence: Arctic climate predictions: Pathways to Resilient, Sustainable Societies (ARCPATH)	Yongqi Gao	
16:50-17:10	Polarized Response of East Asian Winter Temperature Extremes in the Era of Arctic Warming Congwen 2		
17:10-17:25	Impact of winter Ural blocking on Arctic sea ice: Short-time variability Xiaodan C		
17:25-17:40	Mass-induced sea level change in the northwestern		
17:40-18:30	Discussion 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:		
J		Role of wind fluctuations		
	Tido Semmler	Large ensembles of uncoupled and coupled model		
4		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		
	Auczna wang	eet collapse during Last Interglacial		
6	Jianfen Wei	Variability of Fram Strait Sea Ice Export and its Role in		
0	Jiamen Wei	Recently Accelerated Arctic Sea Ice Retreat		
7	Yang Wu	On the Response of the Lorenz Energy Cycle for the Southern		
,	rang wu	Ocean to Intensified Westerlies		
	Yang Wu	Decadal-mean impact of including ocean surface currents in		
8		bulk formulas on surface air-sea fluxes and ocean general		
		circulation		
9	Yang Wu	Impact of Synoptic Atmospheric Forcing on the Mean Ocean		
9		Circulation		
	Zhantang Xu	A semianalytical algorithm for quantitatively estimating		
10		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		
11		extent variations over Antarctica		
12	Xi Zhao	Will Sea ice leads increase as Arctic ice go thinner?		
	Zhaoru Zhang	Seasonal Southern Hemisphere Multi-Variable Reflection of		
13		the Southern Annular Mode in Atmosphere and Ocean		
		Reanalyses		