

International Workshop on Cryospheric Changes in a Warming Climate: Filling the Gap between Observations and Decision-making

Lijiang, China, 26-27 October, 2019

(Second Circular)



Organized and Sponsored by:

State Key Laboratory of Cryospheric Science (SKLCS), Northwest Institute of
Eco-Environment and Resources (NIEER), Chinese Academy of Sciences (CAS)
International Arctic Research Center, University of Alaska, Fairbanks (IARC, UAF)

State Key Lab of Frozen Soil Engineering (SKLFSE), NIEER, CAS
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Lijiang Municipal People's Government

Yulong Snow Mountain Glacier and Environment Observation Research Station, CAS



IACS



International Workshop on Cryospheric Changes in a Warming Climate: Filling the Gap between Observations and Decision-making Agenda (Draft)

Saturday, 26 October, 2019

Keynote Session 1			
Guanfang Hotel-Conference Hall			
Time	Activity	Speaker	Moderator
08:30-09:00	Welcome and Opening Ceremony	Dahe Qin	Dahe Qin
09:00-09:30	Progresses in collaborated Arctic cryosphere research	Shichang Kang	
09:30-10:00	The need for coordinated observations to inform responses to rapid Arctic & cryospheric change	Hajo Eicken	
10:00-10:30	Group Photo and Break		
10:30-11:00	Cryospheric services and sustainable development in China	Xiaoming Wang	Shichang Kang
11:00-11:30	Impacts of Permafrost Slope Stability on Infrastructure in Arctic Alaska	Margaret Darrow	
11:30-12:00	Human Dimensions of Arctic Research: Cryosphere Change and Adaptation	Amy Lovecraft	
12:00-14:00	Lunch		
Parallel Session 1 (Arctic Cryospheric changes and sustainable development)			
Guanfang Hotel-No 1 meeting room			
14:00-14:20	New Projections of the 21st Century Permafrost Degradation and Resulting Carbon Emissions	Tingjun Zhang (Invited)	Margaret Darrow Galanin Alexey
14:20-14:40	Coastal and Subsea Permafrost Evolution in the Siberian Arctic	Grigoriev Mikhail (Invited)	
14:40-15:00	Changes in permafrost in Alaska and their impacts	Vladimir E. Romanovsky (Invited)	
15:00-15:20	Assessing fire-induced changes in the permafrost environment across Alaska, Siberia and northeast China	Sergey Marchenko	
15:20-15:40	Lake ice phenology monitoring based on passive microwave remote sensing	Yubao Qiu	
15:40-16:00	Study on the permafrost and engineering in the Arctic	Mingyi Zhang	
16:00-16:20	Tea Break		
16:20-18:00	Discussion on Arctic Cryosphere Collaboration in 2019 between China-US-Russia		Shichang Kang Hajo Eicken

			Grigoriev Mikhail
18:30-	Banquet		

Parallel Session 2 (Cryospheric Changes, Their Impacts and Adaptation over the Third Pole)			
Guanfang Hotel- No 2 meeting room			
14:00-14:20	To be decided	Daming He (Invited)	Jiawen Ren
14:20-14:40	Progress in ice core research on the Qinghai-Tibet Plateau	Lide Tian	Gagarin Leonid
14:40-15:00	Cryogenic wedges and cryoturbations on the Ordos Plateau in North China since 50 ka BP and their paleo-environmental implications	Huijun Jin	
15:00-15:20	Patterns of soil thermal conductivity within the top active layer at Tanggula site in Qinghai-Tibet Plateau, China	Ren Li	
15:20-15:40	Thermal regime of frozen ground and ground surface temperatures in the source areas of the Yangtze and Yellow Rivers (SAYYR), Qinghai-Tibet Plateau	Dongliang Luo	
15:40-16:00			
16:00-16:20	Tea Break		
16:20-16:40	Energy and mass balance of the east branch of Urumqi Glacier No. 1, Chinese Tian Shan	Puyu Wang	Lide Tian Huijun Jin
16:40-17:00	Gando Glacier change, Pamirs	Zongli Jiang	
17:00-17:20	Post-depositional process reflected by stable isotopes in snow on a temperate glacier of Mt. Yulong, southeastern of Tibet Plateau	Tao Pu	
17:20-17:40	The reason of thermal-suffosion disappearing in Central Yakutia, Russia	Gagarin Leonid	
17:40-18:00	To be decided		
18:30-	Banquet		

Parallel Session 3 (The Assessment of Cryospheric service and function in China)			
Guanfang Hotel- No 3 meeting room			
14:00-14:20	SSPs scenarios and applications	Tong Jiang (Invited)	Cunde Xiao
14:20-14:40	Benefit of Agriculture from Increased Water Supply under Climate Change and Water-Saving in Arid Oasis	Yonghui Yang	Qingbai Wu

14:40-15:00	Modeling the carbon dynamics of alpine grassland in the Qinghai-Tibetan Plateau under the scenario of 1.5 °C and 2 °C global warming	Shuhua Yi	
15:00-15:20	Comprehensive ecosystem services zoning framework for the Qinghai-Tibet Plateau	Dewei Yang	
15:20-15:40	Snow Cover Loss Compounding the Future Economic Vulnerability of Western China	Xuejiao Wu	
15:40-16:00	Importance of glacier meltwater for agriculture in Western China	Shiwei Liu	
	Terrestrial cryosphere services and their roles in supporting the SDGs implementation	Jinglin Zhang	
16:00-16:20	Tea Break		
16:20-16:40	Glacier Tourism: Potential Evaluation and Spatial planning from China	Shijin Wang	Tong Jiang Shuhua Yi
16:40-17:00	Greenness Change and SDGs Realization in China's Mountainous Areas	Yanqiang Wei	
17:00-17:20	Spatial identification and comprehensive regionalization of cryospheric services	Haoxi Lin	
17:20-17:40	Suitability analysis of ski areas in China: an integrated study based on natural and socioeconomic conditions	Jie Deng	
17:40-18:00	The Spatial Pattern of Ski Areas and Its Driving Factors in China: A Strategy for Healthy Development of the Ski Industry	Hongmin An	
18:30-	Banquet		

Sunday, 27 October, 2019			
Parallel Session 1 (Arctic Cryospheric changes and sustainable development)			
Guanfang Hotel- No 1 meeting room			
Time	Activity	Speaker	Moderator
08:30-08:45	Identification of Regions Susceptible to Thermokarst due to "Climate Priming" on the Alaskan Arctic Coastal Plain	Bob Bolton	Vladimir E. Romanovsky
08:45-09:00	The global climatic catastrophe of young dryas 12.7 KYR and desertification of cold regions of North Asia	Galanin Alexey	Grigoriev
09:00-9:15	Comparison of hydrothermal regime changes of discontinuous permafrost between Arctic and Qinghai-Tibetan Plateau	Tonghua Wu	Mikhail
09:15-9:30	An updated ALASKA glacier inventory by using Landsat ETM + in 2018	Donghui Shangguan	
09:30-9:45	A new sea ice area flux estimate based on an improved sea ice velocity retrieval method in the Fram Strait	Qian Shi	

09:45-10:00	Atmospheric pollutants and their impact in the Alaskan Arctic	Yulan Zhang	
10:00-10:20	Tea Break		
10:20-10:35	The ongoing and planned works to monitor the Kennicott Glacier in Southeast Alaska, USA	Wanqin Guo	Tingjun Zhang Galanin Alexey
10:35-10:50	The changes of precipitation phase in the Arctic and their impacts on sea ice ablation	Tingfeng Dou	
10:50-11:05	River ice and its environmental control across Alask	Ruimin Yang	
11:05-11:20	Reviews on mercury study in Arctic and our future plan	Chuanjin Li	
11:20-11:35	Investigation of distribution, transportation, and impact factors of atmospheric black carbon in the Arctic region based on a regional climate-chemistry model	Xintong Chen	
11:35-11:50	Temporal and spatial variation of snow depth in Alaska from 1960 to 2018	Zhilang You	
12:10-14:00	Lunch		

Parallel Session 2 (Cryospheric Changes, Their Impacts and Adaptation over the Third Pole)			
Guanfang Hotel- No 2 meeting room			
Time	Activity	Speaker	Moderator
08:30-08:50	Light-absorbing impurities accelerating glacial melting in southeastern Tibetan Plateau	Hewen Niu	Shiyin Liu Ren Li
08:50-09:10	Spatial variations of snow depth, water equivalent, and density over the Altai Mountains in China	Xinyue Zhong	
09:10-9:30	Research on snow depth and its influence on Mongolian Plateau	Chunlan Li	
09:30-9:50	Different soil water changes in permafrost and seasonal frozen soil regions on the Qinghai-Tibetan Plateau during 1986-2016	Xiaoli Wu	
9:50-10:10	Tea Break		
10:10-10:30	Mapping thermokarst lakes/ponds across landscapes in the Headwater Area of Yellow River on NE Qinghai-Tibet Plateau	David Serban	Huijun Jin Xiaodong Wu
10:30-10:50	Influences of forest fires on the permafrost environment in northern Da Xing'anling (Hinggan) Mountains, NE China	Xiaoying Li	
10:50-11:10	Glacier mass and area changes on the Kenai Peninsula, Alaska, 1986-2016	Ruitang Yang	
11:10-11:30	Modeling soil organic carbon spatial distribution for a complex terrain based on geographically weighted regression in the eastern Qinghai-Tibetan Plateau	Dong Wang	
11:30-11:50	Accelerated changes of glaciers in the Yulong Snow	YanJun Che	

	Mountain, southeast Qinghai-Tibet Plateau		
12:00-14:00	Lunch		

Parallel Session 3 (The Assessment of Cryospheric service and function in China)			
Guanfang Hotel- No 3 meeting room			
Time	Activity	Speaker	Moderator
08:30-08:50	Soil microbial distribution in active layers of permafrost ecosystems under a degradation gradient	Minghui Wu	Jiawen Ren
08:50-09:10	Regionalization of cryosphere water resource service	Halsey Ha	Yongping
09:10-9:30	Dynamic regionalization of cryospheric services under climate change - regional response	Kui Luo	Shen
09:30-9:50	To be decided	To be decided	
9:50-10:10	Tea Break		
10:10-10:30	To be decided		
10:30-10:50	To be decided		
10:50-11:10	To be decided		
11:10-11:30	To be decided		
11:30-11:50	To be decided		
12:00-14:00	Lunch		

Time	Activity
14:30-18:00	Visit to Yulong Glacier Observation Station, Chinese Academy of Sciences
18:30-	Dinner

Venue

The Lijiang workshop will be held at Guanfang Hotel Lijiang Qidian, Yunnan Province, China, which is very close to the Old Town of Lijiang. The website of this hotel is <http://guanfanghotel.vip.lechengol.com/>

