

Program

Program at Glance

Aug. 7, Sunday	9:00-22:00	Registration		
Aug. 8, Monday	8:30-10:40	Plenary keynote session I (No. 20 Meeting Room / 2nd floor of Building No.3)		
	11:10-12:10	Parallel session I: Third Pole Environment (No. 20 Meeting Room / 2nd floor of Building No.3)	Parallel session II: Understanding atmospheric processes on the TP at regional and global scale (Meeting Room/ 6th floor, Building No.2)	Parallel session III: Hydrological cycle and water resources (Meeting Room / 4th floor, Building No.4)
	14:00-15:30			
	16:00-18:00			
Aug. 9, Tuesday	8:30-10:30	Plenary keynote session II (No. 20 Meeting Room / 2nd floor of Building No.3)		
	11:00-12:30	Poster session (No. 20 Meeting Room / 2nd floor of Building No.3)		
	14:00-15:30	Parallel session IV: Cryosphere change and hydrological response over TP (Meeting Room/ 6th floor, Building No.2)	Parallel session V: Modeling TP atmospheric and land surface processes (No. 20 Meeting Room / 2nd floor of Building No.3)	Parallel session VI: Aerosols over TP and their climatic impact (Meeting Room / 4th floor, Building No.4)
	15:45-18:00			
Aug. 10, Wednesd ay	8:30-10:00	Parallel session VII: Remote sensing of land surface processes over Third Pole (No. 20 Meeting Room / 2nd floor of Building No.3)	Parallel session VIII: Paleo-environment on the Third Pole (Meeting Room/ 6th floor, Building No.2)	Parallel session IX: Impact of climate change on ecosystems over TP (Meeting Room / 4th floor, Building No.4)
	10:15-12:00			
	14:00-15:30	Report by each session and discussion (No. 20 Meeting Room / 2nd floor of Building No.3)		
	15:30-16:00	Wrap up (No. 20 Meeting Room / 2nd floor of Building No.3)		

Detailed Program

August 7, 2016		
9:00-22:00	Registration	
Day 1, August 8, 2016		
8:00-8:30	Registration (continued)	
Plenary keynote session I (No. 20 Meeting Room / 2nd floor of Building No.3)	Chair: Tandong Yao, Yongkang Xue	
Time	Speaker	Theme
8:30-9:00	Opening and welcome address	
9:00-9:20	Lonnie Thompson, The Ohio State University, USA	Climate changes documented in ice core records from Third Pole glaciers, including new results from the 2015 Guliya project
9:20-9:40	Tandong Yao, ITPCAS, China	Glacier melt on the Third Pole
9:40-10:00	Dennis Lettenmaire, UCLA, USA	Progress in modeling cold seasons and mountain land surface hydrological processes
10:00-10:20	Toshio Koike, The University of Tokyo, Japan	Regional and local structures of the atmospheric heating over the Tibetan Plateau
10:20- 10:40	Fahu Chen, Lanzhou University, China	Holocene moisture and East Asian summer monsoon evolution in the northeastern Tibetan Plateau recorded by Lake Qinghai and its environs: a review of conflicting proxies
10:40-11:10	Group Photo and Coffee Break	
Parallel session I (No. 20 Meeting Room / 2nd floor of Building No.3)	Chair: Tandong Yao, Lonnie Thompson, Volker Mosbrugger Rapporteur: Baiqing Xu, Ailikun	Third Pole Environment
11:10-11:25	Tandong Yao, ITPCAS, China	TPE: from Third Pole to Pan Third Pole
11:25-11:40	Peter J van Oevelen, GEWEX	The water for the food baskets of the world grand challenge and GEWEX land surface process studies in Central and South East Asia
11:40-11:55	Toshio Koike, The University of Tokyo,	ICHARM

	Japan	
12:00-14:00	Lunch	
14:00-14:15	Baiqing Xu, ITPCAS, China	Pan-TPE
14:15-14:30	Jiancheng Shi, RADI, China	The Water Cycle Observation Mission (WCOM): Overview
14:30-14:45	Xi Chen, Xinjiang Institute of Ecology and Geography, CAS, China	Third pole research in Central Asia
14:45-15:00	Dongxiao Wang, South China Sea Institute of Oceanology, CAS, China	Monsoon observation towards the Indian Ocean and South Asia
15:00-15:15	Xiaomin Fang, ITPCAS, China	Tectonic uplift - driven denudation: synthesized basin and thermochronology evidence from the NE Tibetan Plateau
15:15-15:30	Madan. L. Shrestha, Nepal Academy of Science & Technology, Nepal	Impact of changes in the climate system on the sustainable livelihood in the mountainous region of Nepal and the possibility of TPE activities in addressing some of its aspect
15:30-15:45	Lochan Devkota, Tribhuvan University, Nepal	Third pole research in Nepal
15:45-16:00	Coffee Break	
16:00-16:15	Nasir Ahmed, Bangladesh Atomic Energy Commission (BAEC), Bangladesh	Factors controlling isotopic variations in the tropical precipitation of Bengal delta
16:15-16:30	Vilma Bayramzadeh, Islamic Azad University Karaj Branch, Iran	The possible impact of climate change on oak mortality in the Zagros forests of western Iran
16:30-18:00	Group Discussion: (1) TPE linking with international GEC programmes/projects; (2) TPE & PTPE project scientific questions; (3) PTPE project implementation plan	
Parallel session II (Meeting Room/ 6th floor, Building No.2)	Chair: Yimin Liu, Yulong Xia, K. Ueno Rapporteur: Shiori Sugimoto	Understanding atmospheric processes on the TP at regional and global scale
11:10-11:25	Yimin Liu, LASG, IAP, China	Two types of summertime heating over the Asian large-scale orography and the excitation of potential-vorticity forcing
11:25-11:40	Song-You Hong, Korea Institute of Atmospheric Prediction Systems	Effects of the Tibetan Plateau on the simulated Asian Monsoon

	(KIAPS), Korea	
11:40-11:55	Michael Ek, NOAA National Centers for Environmental Prediction (NCEP), USA	Local land-atmosphere interaction over the Tibetan Plateau
11:55-12:10	Shiori Sugimoto, Japan Agency for Marine-Earth Science and Technology, Japan	Land surface-atmosphere coupling over surrounding regions of the Tibetan Plateau
12:10-14:00	Lunch	
14:00-14:15	Youlong Xia, NOAA NCEP, USA	North American and Global Land Data Assimilation Systems in National Centers for Environmental Prediction: capability in simulating water and energy budget over U.S. Rocky mountains and China Tibetan region
14:15-14:30	Anmin Duan, IAP, China	Does the climate warming hiatus exist over the Tibetan Plateau?
14:30-14:45	Qinglong You, Nanjing University of Information Science and Technology, China	Revisiting the relationship between observed warming and surface mean pressure in the Tibetan Plateau
14:45-15:00	Jin-Yi Yu, University of California, Irvine, USA	El Nino diversity and its climate impacts on Tibetan and surrounding areas
15:00-15:15	Zeyong Hu, CAREERI, China	Indicative significance of thermal effects over the Qinghai-Xizang Plateau to the onset of plateau summer monsoon
15:15-15:30	K. Ueno, The University of Tsukuba, Japan	Linkage of surface condition anomalies and precipitation system observed by CEOP-AEGIS project
15:30-15:45	Coffee Break	
15:45-16:00	Gang Chen, University of California, Los Angeles, USA	The role of monsoons in interhemispheric transport
16:00-16:15	Hui Su, NASA Jet Propulsion Lab, USA	Impact of overshooting deep convection on the stratospheric water vapor: differences between the Asian Monsoon and North American Monsoon
16:15-16:30	Weiqliang Ma, ITPCAS, China	Modeling of land surface flux on the regional climate of the Tibetan Plateau
16:30-16:45	Xuelong Chen	Reasons for the extremely high-ranging planetary boundary layer over the western Tibetan Plateau
17:00-18:00	Group Discussion	
Parallel sessionIII	Chair: Daqing Yang,	Hydrological cycle and water resources

(Meeting Room / 4th floor, Building No.4)	Samuel Shen, Vijay P. Singh Rapporteur: Samuel Shen	
11:10-11:25	Samuel Shen, San Diego State University, USA	A suite of climate data products for the Tibetan Plateau region: precipitation, snow cover, and O ¹⁸ isotope
11:25-11:40	W. Timothy Liu, Jet Propulsion Laboratory, California Institute of Technology, USA	Summer water balance in Tibetan Plateau observed from space
11:40-11:55	Kun Yang, ITPCAS, China	Recent water cycle change in the Tibetan Plateau and modeling capacity building
11:55-12:10	Kaicun Wang, Beijing Normal University, China	Terrestrial evapotranspiration estimates from water balance and energy balance methods over China and Tibetan Plateau from 2001 to 2014
12:10-14:00	Lunch	
14:00-14:15	Vijay P. Singh, Texas A and M University, USA	Entropy theory for hydrologic modeling
14:15-14:30	Tsuchimi Yokoyama, Graduate School Tokyo Metropolitan University, Tokyo, Japan	Precipitation systems generated over the Tibetan Plateau and synoptic scale circulation field accompanied by its eastward propagation
14:30-14:45	Yinsheng Zhang, ITPCAS, China	Quantify the water cycle components in an endorheic lake basin (Siling Co) in the central Tibetan Plateau
14:45-15:00	Lei Wang, ITPCAS, China	Exploring the water storage changes in the largest lake (Selin Co) over the central Tibetan Plateau during 2003-2012 from a basin-wide hydrological modeling
15:00-15:15	Jiming Jin, Utah State University, USA	Simulations of lake processes and their interactions with the atmosphere over the Tibetan Plateau
15:15-15:30	Jing Gao, ITPCAS, China	ENSO as a driver of atmospheric water cycle in the central Tibetan Plateau revealed by the isotopic ice core records
15:30-15:45	Coffee Break	
15:45-16:00	Daqing Yang, National Hydrology Research Center, Environment Canada	Analysis of long-term (1961-2015) hydrology change in Qinghai Lake
16:00-16:15	Tongliang Gong, Water Conservancy Department of the Tibet	Precipitation variability and response to changing Indian summer monsoon in the Yarlung Tsangpo River basin, China

	Autonomous Region, China	
16:15-16:30	Xing Yuan, IAP, China	Natural and anthropogenic land cover change and its impact on the hydro-climate over the Three-River Headwaters region
16:30-16:45	Zhenghui Xie, LASG, IAP, China	Effects of soil frost and thaw fronts dynamics on land surface hydrological process
16:45-17:00	Hui Zheng, IAP, China	Improving the hydrological simulations over the Tibetan Plateau using a multiple-parameterization ensemble of Noah-MP
17:00-18:00	Group Discussion	
19:00-21:00	Dinner	
Day 2, August 9, 2016		
Plenary keynote session II (No. 20 Meeting Room / 2nd floor of Building No.3)	Chair: Lonnie Thompson, Deliang Chen	
Time	Speaker	Theme
8:30-8:50	Volker Mosbrugger, Senckenberg Society for Nature Research, Germany	Geobiodiversity Research – a systemic approach to a better understanding of surface and climate dynamics of the Tibetan Plateau
8:50-9:10	William Lau, University of Maryland, College Park, Maryland, USA	Tibetan Anticyclone, tropospheric aerosols, and UTLS transport processes
9:10-9:30	Yongkang Xue, UCLA, USA	Interactions of Tibetan Plateau land surface processes and Asian monsoon
9:30-9:50	Renhe Zhang, Fudan University, China	Effect of in traseasonal oscillation on the vortices moving off the Tibetan Plateau
9:50-10:10	Deliang Chen, University of Gothenburg, Sweden	Classification of large-scale atmospheric circulation and its influence on precipitation variability over Tibet
10:10- 10:30	Peng Cui, IMDE, China	Disaster risk assessment and management in high mountain HKH
10:30-11:00	Coffee Break	
11:00-12:30	Poster Session	
12:30-14:00	Lunch	

Parallel session IV (Meeting Room/ 6th floor, Building No.2)	Chair: Michael Barlage, Ninglian Wang, Fan Zhang Rapporteur: Ninglian Wang	Cryosphere change and hydrological response over the Third Pole region
14:00-14:15	James G. Anderson, Harvard University, USA	High accuracy, systematic observations of glacial ice volume and ice dynamics on the Tibetan Plateau: union of ice penetrating radar and robotic aircraft
14:15-14:30	Ninglian Wang, Northwest University, China	Spatial pattern of the glacier shrinkages over the Tibetan Plateau since the Little Ice Age and the role of the summer freezing level
14:30-14:45	Shiyin Liu, CAREERI, China	Glacier changes in the upper Brahmaputra River as derived from topographical maps in 1970s and satellite images in 2010s
14:45-15:00	Qinghua Ye, ITPCAS, China	Glacier changes on the Tibetan Plateau from the 1970s to 2013
15:00-15:15	Tonghua Wu, CAREERI, China	Application of Logistic Regression Model and Multi-criteria Analysis methods to map permafrost distribution and assess its dynamics on the Qinghai-Tibetan Plateau
15:15-15:30	Maheswor Shrestha, Water and Energy Commission Secretariat, Nepal	Integrated snow and glacier melt runoff modeling system in the river basins of Third Pole Environment
15:30-15:45	Coffee Break	
15:45-16:00	Michael Barlage, National Center for Atmospheric Research, USA	Sensitivity of simulated snow to process representation over the Tibetan Plateau
16:00-16:15	Zong-Liang Yang, The University of Texas at Austin, USA	Multi-sensor snow data assimilation and its importance in seasonal climate prediction
16:15-16:30	Tomonori Sato, Hokkaido University, Japan	Diurnal variation of precipitation around the Meghalaya Plateau during the break phase of submonthly intraseasonal oscillation
16:30-16:45	Liping Zhu, ITPCAS, China	Spatiotemporal variations in the water storage of closed lakes on the Tibetan Plateau and their climatic responses
16:45-17:00	Fengge Su, ITPCAS, China	Hydrologic simulation for a glacierized basin in the eastern Pamirs with a coupled glacier-hydrology model
17:00-17:15	Fan Zhang, ITPCAS, China	Daily air temperature estimation and snow modeling in the Tibetan Plateau

17:15-18:00	Group Discussion	
Parallel session V (No. 20 Meeting Room / 2nd floor of Building No.3)	Chair: Fei Chen, Yu Zhang, William R. Boos Rapporteur: Fei Chen	Modeling Tibetan Plateau atmospheric and land surface processes
14:00-14:15	Fei Chen, NCAR, USA	Understand and mitigate uncertainties in land-surface simulations over the Tibetan Plateau
14:15-14:30	Weiping Li, National Climate Center, China Meteorological Administration, China	Simulation of seasonal freezing and thawing of soil over the Tibetan Plateau
14:30-14:45	Suhung Shen, George Mason University, USA	Comparison of land surface properties over Tibetan Plateau from MERRA-2 and GLDAS-2 models
14:45-15:00	Yu Zhang, Chengdu University of Information and Technology, China	Characteristics of energy and matters exchange over an alpine meadow in the eastern Tibetan Plateau
15:00-15:15	Anning Huang, Nanjing University, China	Parameterization of the thermal impacts of sub-grid orography on numerical modeling of the surface energy budget over East Asia
15:15-15:30	Yaoming Ma, ITPCAS, China	Monitoring and modeling the change of the Tibetan Plateau climate system and its impact on East Asia
15:30-15:45	Coffee Break	
15:45-16:00	Wenjie Dong, Sun Yat-sen University; CETES	Projection of the Third Pole and surroundings regional climate change in the 21 century with CMIP5 earth system models
16:00-16:15	John Qu, George Mason University, USA	Global Soil Moisture Demonstration Project (GSMDP) and potential applications on Food-Energy-Water (FEW) nexus in the Tibetan Plateau
16:15-16:30	Yanhong Gao, CAREERI, China	Impact of land surface model on the Tibetan dynamic downscaling
16:30-16:45	William R. Boos, Yale University, USA	Competing effects of elevated heating and surface albedo over the Tibetan Plateau
16:45-17:00	Xin-Zhong Liang, University of Maryland, USA	CWRF ensemble physics representation and regional climate prediction over China
17:00-17:15	Guokui Nian, IAP, China	The influence of 3-D radiation transport parameterization on Tibetan Plateau and summer Asia Monsoon in climate models
17:15-17:30	Qian Li, UCLA	The implementation of a multi-layer frozen soil

		model into SSIB3 and its simulation over Tibetan Plateau
17:30-17:45	Shuai Han, National Meteorological Information Center, China	Using CLDAS forcing data to drive SSIB2 and CLM3.5 to simulate soil moisture and temperature in the Tibetan Plateau
17:45-18:00	Zhenming Ji, ITPCAS, China	Application of dynamic downscaling focusing on regional climate change over the Tibetan Plateau
18:00-18:30	Group Discussion	
Parallel Session VI (Meeting Room / 4th floor, Building No.4)	Chair: Yu Gu, Shichang Kang Rapporteur: Yu Gu	Aerosols over the Tibetan Plateau and their climatic impact
14:30-14:45	Jonathan Jiang, NASA Jet Propulsion Lab, USA	Climatic impacts of Asian anthropogenic emissions
14:45-15:00	Yun Qian, Pacific Northwest National Laboratory, USA	Light-absorbing particles in snow and ice: measurement and modeling of climatic and hydrological impact
15:00-15:15	Shichang Kang, CAREERI, China	Trans-boundary atmospheric pollutants and their effects on cryospheric change over the Third Pole
15:15-15:30	Coffee Break	
15:30-15:45	Yu Gu, UCLA, USA	Impact of aerosols on regional climate over Tibetan Plateau: a review
15:45-16:00	Yiquan Jiang, Nanjing University, China	Anthropogenic aerosol effects on east Asian winter monsoon: the role of black carbon induced Tibetan Plateau warming
16:00-16:15	Mo Wang, ITPCAS, China	Black carbon record from an eastern Pamir ice core and its biomass contribution for the period 1875-2000 AD
16:15-17:15	Group Discussion	
19:00-21:00	Dinner	
Day 3, August 10, 2016		
Parallel Session VII (No. 20 Meeting Room / 2nd floor of Building No.3)	Chair: Bob Su, Jeff Dozier, Shunlin Liang Rapporteur: Bob Su	Remote sensing of land surface processes over Third Pole
8:30-8:45	Jeff Dozier, University of California, Santa Barbara, USA	Machine learning on images: combining passive microwave and optical data to estimate snow water equivalent in Afghanistan’s Hindu Kush

8:45-9:00	Aijun Chen, Nanjing University of Information Science and Technology, China	Evaluation of three kinds of satellite-derived land surface albedo products over the Tibetan Plateau
9:00-9:15	Zhong Liu, Geroge Mason University, USA	Satellite-based precipitation products and uncertainty research over the Tibetan Plateau
9:15-9:30	Li Jia, RADl, China	Understanding of water cycle process and land surface status on the Tibetan Plateau: uncertainties in remote sensing and modelling data products
9:30-9:45	Shunlin Liang, University of Maryland, USA	The Global Land Surface Satellite (GLASS) products and some application examples
9:45-10:00	Bin Xu, National Meteorological Information Center, China	Verifying FY-3B level 2 rain rate retrievals using gauge measurements of minute-rainfall over China
10:00-10:15	Coffee Break	
10:15-10:30	Bob Su, University of Twente, The Netherlands	The role of soil moisture in land-atmosphere interactions – remote sensing and modelling on the Tibetan Plateau
10:30-10:45	Lei Zhong, University of Science and Technology of China, China	Remote sensing of land surface characteristic parameters and evapotranspiration in the Nagqu river basin
10:45-11:00	Changgui Lin, University of Gothenburg, Sweden	Changes in cloud-free direct radiation transmittance and proportion of diffuse radiation in Lhasa and Golmud over the last six decades
11:00-12:00	Group Discussion	
Parallel Session VIII (Meeting Room/ 6th floor, Building No.2)	Chair: Yongwei Sheng, JuzhiHou Rapporteur: JuzhiHou	Paleo-environment on the Third Pole
8:30-8:45	Zhengguo Shi, Institute of Earth Environment, CAS, China	Effect of sub-regional uplift of Tibetan Plateau on the evolution of Asian climate
8:45-9:00	Naimeng Zhang, Lanzhou University, China	Diet of late prehistoric humans reconstructed from an analysis of plant microfossils in human dental calculus from the Shilinggang Bronze Age site, Yunnan province, China
9:00-9:15	Guanghui Dong, Lanzhou University, China	How human adapted to environments of different altitudes on the Tibetan Plateau during Neolithic and Bronze periods?
9:15-9:30	Dongju Zhang, Lanzhou	Human migration to the northeastern Tibetan

	University, China	Plateau-preliminary study of 151 site in the Qinghai Lake basin
9:30-9:45	JuzhiHou, ITPCAS, China	Influences of climate change on lake thermal and mixing dynamics on the Tibetan Plateau
9:45-10:00	Coffee Break	
10:00-10:15	Yongwei Sheng, UCLA, China	Regional-scale assessment of lake changes across the Tibetan Plateau since the late Pleistocene
10:15-10:30	Xiaodan Guan, Lanzhou University, China	The effect of dynamically and adjusted induced variability in recent warming hiatus over Tibetan Plateau
10:30-10:45	Xiaohua Gou, Lanzhou University, China	Spatial and temporal variability of precipitation over the middle and eastern parts of Northwest China during the past 400 years and its potential driving mechanisms
10:45-12:00	Group Discussion	
Parallel Session IX (Meeting Room / 4th floor, Building No.4)	Chair: Thomas W. Gillespie, Shilong Piao, Xinquan Zhao Rapporteur: Shilong Piao	Impact of climate change on ecosystems over Third Pole
8:30-8:45	Thomas W. Gillespie, UCLA, USA	Implications of climate change to vegetation on the Tibetan plateau
8:45-9:00	William Parton, Colorado State University, USA	Modeling grassland ecosystem dynamics for the Tibetan Plateau using the DayCent model
9:00-9:15	Shiping Wang, ITPCAS, China	Effects of warming and grazing on alpine meadow ecosystem
9:15-9:30	Juying Warner, University of Maryland, USA	Ammonia and carbon monoxide concentrations for air quality studies from the 13-years AIRS measurements – a close look over the Tibet regions
9:30-9:45	Eryuan Liang, ITPCAS, China	Species interactions slow warming-induced upward shifts of treelines on the Tibetan Plateau
9:45-10:00	Coffee Break	
10:00-10:15	Miaogen Shen, ITPCAS, China	Looking into responses of plant phenology change to climate change on the Tibetan Plateau
10:15-10:30	Xu-Ri, ITPCAS, China	Symbiotic N fixation to N ₂ O ratio for alpine steppe on the central Tibetan Plateau
10:30-10:45	Xinquan Zhao, Chengdu Institute of Biology, CAS, China	Rangeland sustainable grazing strategy in Tibetan Plateau: principles, practices and new approaches
10:45-11:00	Yangjian Zhang, IGSNRR, China	Separating the relative contribution of anthropogenic activities and climates to grassland

		dynamics on the Tibetan Plateau
11:00-11:15	Zhi-Ming Zhong, IGSNRR, China	Responses of crop growth and soil respiration to experimental warming on hulless barley in Tibet
11:15-12:00	Group Discussion	
12:00-14:00	Lunch	
Plenary discussion (No. 20 Meeting Room / 2nd floor of Building No.3)	Chair: Tandong Yao, Yongkang Xue, Deliang Chen	
14:00-15:30	Ailikun, Shiori Sugimoto, Samuel Shen, Ninglian Wang, Fei Chen, Yu Gu, Bob Su, JuzhiHou, Shilong Piao	Report by each session and discussion
15:30-16:00	Wrap up (No. 20 Meeting Room / 2nd floor of Building No.3)	