International Workshop on Land Surface Multi-spheres Processes of Tibetan Plateau

Preliminary Agenda

August 8-10, 2016, Xining, China

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| Aug. 7, Sunday | 9:00-22:00 | Registration | | |
| Aug. 8, Monday | 8:30-10:40 | Plenary keynote session I | | |
| 11:10-12:10 | Parallel session I:  Third Pole Environment | Parallel session II: Understanding atmospheric processes on the TP at regional and global scale | Parallel session III: Hydrological cycle and water resources |
| 14:00-15:30 |
| 16:00-18:00 |
| Aug. 9, Tuesday | 8:30-10:30 | Plenary keynote session II | | |
| 11:00-12:30 | Poster session | | |
| 14:00-15:30 | Parallel session IV: Cryosphere change and hydrological response over TP | Parallel session V: Modeling TP atmospheric and land surface processes | Parallel session VI: Aerosols over TP and their climatic impact |
| 15:45-18:00 |
| Aug. 10, Wednesday | 8:30-10:00 | Parallel session VII: Remote sensing of land surface processes over Third Pole | Parallel session VIII: Paleo-environment on the Third Pole | Parallel session IX: Impact of climate change on ecosystems over TP |
| 10:15-12:00 |
| 14:00-15:30 | Report by each session and discussion | | |
| 15:30-16:00 | Wrap up | | |

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| ***August 7, 2016*** | | |
| 9:00-22:00 | Registration | |
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| ***Day 1, August 8, 2016*** | | |
| 8:00-8:30 | Registration (continued) | |
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| ***Plenary keynote session I*** | ***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 |
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| 10:40-11:10 | Group Photo and Coffee Break | |
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| ***Parallel session I*** | ***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, Japan | ICHARM |
| 12:00-14:00 | Lunch | |
| 14:00-14:15 | Baiqing Xu, ITPCAS, China | Pan-TPE |
| 14:15-14:30 | Jiancheng Shi, RADI, China | U.S. - China high elevation remote sensing collaboration |
| 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 | Third pole research in Sri Lanka |
| 15:00-15:15 | 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 |
| 15:15-15:30 | Lochan Devkota, Tribhuvan University, Nepal | Third pole research in Nepal |
| 15:30-15:45 | Shresth Tayal, The Energy and Resources Institute, India | Third pole research in India |
| 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 | TBD |
| 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 | |
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| ***Parallel session II*** | ***Chair:*** ***Yimin Liu, Youlong 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 | Chungu Lu, Division of Atmospheric and Geospace Sciences, U.S. National Science Foundation | How important is the Tibetan Plateau to China and global weather, environment, and climate systems? |
| 11:40-11:55 | Song-You Hong, Korea Institute of Atmospheric Prediction Systems (KIAPS), Korea | Effects of the Tibetan Plateau on the simulated Asian Monsoon |
| 11:55-12:10 | Michael Ek, NOAA National Centers for Environmental Prediction (NCEP), USA | Local land-atmosphere interaction over the Tibetan Plateau |
| 12:10-14:00 | Lunch | |
| 14:00-14:15 | Shiori Sugimoto, Japan Agency for Marine-Earth Science and Technology, Japan | Land surface-atmosphere coupling over surrounding regions of the Tibetan Plateau |
| 14:15-14:30 | 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 |
| 14:30-14:45 | Anmin Duan, IAP, China | Does the climate warming hiatus exist over the Tibetan Plateau? |
| 14:45-15:00 | Qinglong You, Nanjing University of Information Science and Technology, China | Revisiting the relationship between observed warming and surface mean pressure in the Tibetan Plateau |
| 15:00-15:15 | Jin-Yi Yu, University of California, Irvine, USA | El Nino diversity and its climate impacts on Tibetan and surrounding areas |
| 15:15-15:30 | Zeyong Hu, CAREERI, China | Indicative significance of thermal effects over the Qinghai-Xizang Plateau to the onset of plateau summer monsoon |
| 15:30-15:45 | Coffee Break | |
| 15:45-16:00 | K. Ueno, The University of Tsukuba, Japan | Linkage of surface condition anomalies and precipitation system observed by CEOP-AEGIS project |
| 16:00-16:15 | Gang Chen, University of California, Los Angeles, USA | The role of monsoons in interhemispheric transport |
| 16:15-16:30 | 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 |
| 16:30-16:45 | Weiqiang Ma, ITPCAS, China | Modeling of land surface flux on the regional climate of the Tibetan Plateau |
| 16:45-17:00 | Xuelong Chen | Reasons for the extremely high-ranging planetary boundary layer over the western Tibetan Plateau |
| 17:00-18:00 | Group Discussion | |
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| ***Parallel session III*** | ***Chair: Daqing Yang, Samuel Shen, Vijay P. Singh***  ***Rapporteur: Samuel Shen*** | ***Hydrological cycle and water resources*** |
| 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 O18 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 | Tomonori Sato, Hokkaido University, Japan | Diurnal variation of precipitation around the Meghalaya Plateau during the break phase of submonthly intraseasonal oscillation |
| 14:30-14:45 | Liping Zhu, ITPCAS, China | Spatiotemporal variations in the water storage of closed lakes on the Tibetan Plateau and their climatic responses |
| 14:45-15:00 | 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 |
| 15:00-15:15 | 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 |
| 15:15-15:30 | Jiming Jin, Utah State University, USA | Simulations of lake processes and their interactions with the atmosphere over the Tibetan Plateau |
| 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 Autonomous Region, China | Precipitation variability and response to changing Indian summer monsoon in the Yarlung Tsangpo River basin, China |
| 16:15-16:30 | Jing Gao, ITPCAS, China | ENSO as a driver of atmospheric water cycle in the central Tibetan Plateau revealed by the isotopic ice core records |
| 16:30-16:45 | Xing Yuan, IAP, China | Natural and anthropogenic land cover change and its impact on the hydro-climate over the Three-River Headwaters region |
| 16:45-17:00 | Zhenghui Xie, LASG, IAP, China | Effects of soil frost and thaw fronts dynamics on land surface hydrological process |
| 17:00-17:15 | Hui Zheng, IAP, China | Improving the hydrological simulations over the Tibetan Plateau using a multiple-parameterization ensemble of Noah-MP |
| 17:15-18:00 | Group Discussion | |
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| 19:00-21:00 | Dinner | |
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| ***Day 2, August 9, 2016*** | | |
| ***Plenary keynote session II*** | ***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 intraseasonal 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 | |
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| 11:00-12:30 | Poster Session | |
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| 12:30-14:00 | Lunch | |
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| ***Parallel session IV*** | ***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 | Yinsheng Zhang, ITPCAS, China | Quantify the water cycle components in an endorheic lake basin (Siling Co) in the central Tibetan Plateau |
| 16:30-16:45 | Fengge Su, ITPCAS, China | Hydrologic simulation for a glacierized basin in the eastern Pamirs with a coupled glacier-hydrology model |
| 16:45-17:00 | Fan Zhang, ITPCAS, China | Daily air temperature estimation and snow modeling in the Tibetan Plateau |
| 17:00-18:00 | Group Discussion | |
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| ***Parallel session V*** | ***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 | 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 |
| 16:00-16:15 | Yanhong Gao, CAREERI, China | Impact of land surface model on the Tibetan dynamic downscaling |
| 16:15-16:30 | William R. Boos, Yale University, USA | Competing effects of elevated heating and surface albedo over the Tibetan Plateau |
| 16:30-16:45 | Xin-Zhong Liang, University of Maryland, USA | CWRF ensemble physics representation and regional climate prediction over China |
| 16:45-17:00 | Guokui Nian, IAP, China | The influence of 3-D radiation transport parameterization on Tibetan Plateau and summer Asia Monsoon in climate models |
| 17:00-17:15 | Qian Li, UCLA | The implementation of a multi-layer frozen soil model into SSIB3 and its simulation over Tibetan Plateau |
| 17:15-17:30 | 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 |
| 17:30-17:45 | Zhenming Ji, ITPCAS, China | Application of dynamic downscaling focusing on regional climate change over the Tibetan Plateau |
| 17:45-18:30 | Group Discussion | |
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| ***Parallel Session VI*** | ***Chair: Yu Gu, Si-Chee Tsay, Shichang Kang***  ***Rapporteur: Yu Gu*** | ***Aerosols over the Tibetan Plateau and their climatic impact*** |
| 14:00-14:15 | Si-Chee Tsay, NASA Goddard Space Flight Center, USA | Radiation, Aerosol Joint Observation-Modeling Exploration over Glaciers in Himalayan Asia (RAJO-MEGHA) |
| 14:15-14:30 | Thomas H. Painter, Jet Propulsion Laboratory, California Institute of Technology, USA | Mountain snow and ice loss driven by dust and black carbon radiative forcing |
| 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 | |
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| 19:00-21:00 | Dinner | |
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| ***Day 3, August 10, 2016*** | | |
| ***Parallel Session VII*** | ***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, RADI, 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 | |
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| ***Parallel Session VIII*** | ***Chair: Yongwei Sheng, Xiaomin Fang, Juzhi Hou***  ***Rapporteur: Xiaomin Fang*** | ***Paleo-environment on the Third Pole*** |
| 8:30-8:45 | Xiaomin Fang, ITPCAS, China | Tectonic uplift - driven denudation: synthesized basin and thermochronology evidence from the NE Tibetan Plateau |
| 8:45-9:00 | Zhengguo Shi, Institute of Earth Environment, CAS, China | Effect of sub-regional uplift of Tibetan Plateau on the evolution of Asian climate |
| 9:00-9:15 | 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 |
| 9:15-9:30 | Guanghui Dong, Lanzhou University, China | How human adapted to environments of different altitudes on the Tibetan Plateau during Neolithic and Bronze periods? |
| 9:30-9:45 | Dongju Zhang, Lanzhou University, China | Human migration to the northeastern Tibetan Plateau-preliminary study of 151 site in the Qinghai Lake basin |
| 9:45-10:00 | Juzhi Hou, ITPCAS, China | Influences of climate change on lake thermal and mixing dynamics on the Tibetan Plateau |
| 10:00-10:15 | Coffee Break | |
| 10:15-10:30 | Yongwei Sheng, UCLA, China | Regional-scale assessment of lake changes across the Tibetan Plateau since the late Pleistocene |
| 10:30-10:45 | Xiaodan Guan, Lanzhou University, China | The effect of dynamically and adjusted induced variability in recent warming hiatus over Tibetan Plateau |
| 10:45-11:00 | 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 |
| 11:00-12:00 | Group Discussion | |
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| ***Parallel Session IX*** | ***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 N2O 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 | |
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| 12:00-14:00 | Lunch | |
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| ***Plenary discussion*** | ***Chair: Tandong Yao, Yongkang Xue, Deliang Chen*** |  |
| 14:00-15:30 | Ailikun, Shiori Sugimoto, Samuel Shen, Ninglian Wang, Fei Chen, Yu Gu, Bob Su, Xiaomin Fang, Shilong Piao | Report by each session and discussion |
| 15:30-16:00 | Wrap up | |