**Agenda of “International GEWEX/GASS/LS4P and TPEMIP Regional Modeling & Aerosol in Snow Workshop”**

**July 7-July 9, 2019**

Venue: International Conference Center, Nanjing University, Nanjing, China

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| **Day 1: 7th July 2019 (Sunday)** | | |
| ***Time*** | ***Speaker*** | ***Title*** |
| 8:30-9:00 | Registration | |
| 9:00-9:05 | Welcome Address by the Nanjing University | |
| 9:05-10:00 | **Project Presentations Chair: Aaron Boone** | |
| 9:05-9:25 | Tandong Yao (ITP/CAS, China) | Brief Overview of Third Pole Environment Program |
| 9:25-9:30 | Xubin Zeng (University of Arizona, USA) | Overview of GEWEX/GASS Activities |
| 9:30-9:50 | Yongkang Xue (UCLA, USA) | LS4P Progress Report: Preliminary Results, Issues, & Further Plans. |
| 9:50-14:00 | **Session I. Observation. Chairs: Tandong Yao & Weidong Guo** | |
| 9:50-10:05 | Ping Zhao (CAMS/CMA, China) | TBD |
| 10:05-10:20 | Xin Li (ITP/CAS, China) | A big data center for the third pole |
| 10:20-10:50 | Coffee Break | |
| 10:50-11:05 | Chunxiang Shi (CMA, China) | Comparisons and Validation of CLDAS Multi-resolution 2-meter Surface Air Temperature data |
| 11:05-11:20 | Kun Yang (ITP/CAS, Tsinghua University, China) | Observation and Simulation of land-air and lake-air interactions on the Tibetan Plateau |
| 11:20-11:35 | Jeff Dozier (UCSB, USA) | Preparing for a Space borne Imaging Spectrometer: New Algorithms to Retrieve Snow and Ice Properties |
| 11:35-11:50 | Shunlin Liang (UMD, USA) | Overview of the Global Land Surface Satellite (GLASS) products for the climate studies over TP |
| 11:50-13:15 | Lunch | |
| 13:15-13:30 | Shichang Kang (NIEER/CAS, China) | Linking Atmospheric Pollution to Cryospheric Change in the Third Pole Region: Current Progresses and Future Prospects |
| 13:30-13:45 | Shrestha Maheswor (WECS, Nepal) | Status of cryospheric monitoring in Nepal Himalaya |
| 13:45-14:00 | Fengge Su (ITP/CAS, China) | The potential utility of precipitation estimates from the High Asia Refined analysis (HAR) in hydrological simulations for the Third Pole river basins |
| 14:00-15:00 | **Session II: ESM LS4P Tests Chair: Jeff Dozier** | |
| 14:00-14:15 | Zhaohui Lin (IAP/CAS, China) | Impact of land surface conditions on seasonal predictability over China. |
| 14:15-14:30 | Constantin Ardilouze, Aaron Boone (Meteo-France, France) | Meteo-France LS4P activity |
| 14:30-14:45 | Qi Tang (LLNL/DOE, USA) | Preliminary LS4P results from the E3SMv1 model |
| 14:45-15:00 | Xin Qi (BNU, China) | Preliminary results on the role of the Tibetan Plateau surface temperature in subseasonal prediction: a study using CAS FGOALS-f2 |
| 15:00-16:45 | **Session III: Regional Modeling Chairs: Bill Lau & Shuyu Wang** | |
| 15:00-15:15 | Deliang Chen (University of Gothenburg, Sweden) | High-resolution regional climate modeling over the Third Pole: plans and progresses made by the Pan-TPE program |
| 15:15-15:30 | Guiling Wang (University of Connecticut, USA) | Modeling the coupled land-atmosphere system of Asia: Performance of multiple RegCM-CLM versions over the Tibetan Plateau |
| 15:30-15:45 | Shiori Sugumoto (JAMSTEC, Japan) | Advantages of high resolution simulation over the Asian mountain regions |
| 15:45-16:00 | Jinming Feng (IAP/CAS, China). | The response on temperature variation of Tibetan Plateau in different Cumulus/PBL/LSM schemes |
| 15:00-16:30 | Coffee Break | |
| 16:30-17:30 | **Session IV: Lightning Talks Chairs: Yongkang Xue & Aaron Boone** | |
| 16:30-17:30 | Lightning Talks (4min Each) |  |
| 17:30-18:15 | Posters |  |
| 19:00- | Reception | |
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| **Day 2: 8th July 2019 (Monday)** | | |
| ***Time*** | ***Speaker*** | ***Title*** |
| 8:15-8:45 | **Session III: Regional Modeling Chairs: Yun Qian** | |
| 8:15-8:30 | Jianping Tang (Nanjing University, China) | Regional Climate Simulations over CORDEX East Asia |
| 8:30-8:45 | Tomonori Sato (Hokkaido University, Japan) | Possible constraints of diurnal cycle of convection over the Tibetan Plateau during the spring season. |
| 8:45-9:00 | **Project Presentation** | |
| 8:45-9:00 | Peter Van Ovelen (GEWEX) | GEWEX Current and Planned High Mountain Activities and their relationship to the Third Pole Environment |
| 9:00-10:30 | **Session V: LAPS Chairs: Deliang Chen & Peter Van Ovelen** | |
| 9:00-9:15 | Bill Lau (UMD, USA) | Impacts of snow-darkening effect by light absorbing particles on Himalayas-Tibetan Plateau snow cover, and influence on Asian summer monsoon rainfall |
| 9.15-9:30 | Chien Wang (CNRS/UPS, France) | A surprising role of soil moisture response in extending the impacts of aerosols on the South Asian summer monsoon |
| 9:30-9:45 | Yun Qian (PNNL/DOE, USA) | A review of light-absorbing particles in snow and ice over High Mountain Asia and their climatic and hydrological impact |
| 9:45-10:00 | Xiaohong Liu (University of Wyoming, USA) | Quantifying snow-darkening and atmospheric radiative effects of black carbon and dust on the South-Asian Monsoon and hydrological cycle using variable resolution CESM |
| 10:00-10:15 | Zhenming Ji (SYSU, China) | Modeling light absorbing aerosols and their radiative feedback in western China. |
| 10:15-10:30 | Guang Zhang (UCSD, USA) | Clouds and precipitation in Tibetan Plateau: satellite observations and CAM5 simulation". |
| 10:30-11:00 | Coffee Break, Group Photo | |
| 11:00-12:00 | **Breakout Group** **Discussion** (RCM Group and Data Group; LAPS group. ESM group members participate in these two groups’ discussion) | |
| 12:00-13:30 | Lunch Break | |
| 13:30-15:00 | **Further Breakout Discussions** (Regional Group, LAPS Group, Data Group, ESM Group) | |
| 15:00-15:20 | Coffee Break | |
| 15:20-16:30 | **Report-outs on Breakout Discussions and Exchanges** | |
| 16:30-17:00 | **Summary of Each Group after Feedback** | |
| 18:00- | Dinner | |
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| Day 3: 9th July 2019 (Tue.) | | |
| ***Time*** | ***Speaker*** | ***Title*** |
| 9:00-12:00 | ***Further discussions for some modeling groups \*\**** | |
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| 12:00-13:30 | Lunch and End of the Workshop | |

**Regional Group coordinators**: Guiling Wang, Shiori Sugumoto, Shuyu Wang; Rapporteur: Miao Yu

**LAPS Group coordinators**: Bill Lau, Yun Qian; Rapporteur: Huilin Huang

**Data Group coordinators**: Ping Zhao, Xin Li; Rapporteur: Weicai Wang

**ESM Group coordinators**: Aaron Boone, Qi Tang; Rapporteur: Hongliang Zhang

\*\* Yongkang is available for individual meeting by appointment

**Lightning Talks (4min each):**

**ESM:**

**Qing Bo (**LASG/CAS, China**)** *An Introduction to FGOALS-f2 S2S prediction system*

**Yanluan Lin** (Tsinghua University, China)

**Hongliang Zhang** (NMC/CMA, China)

**Paulo Nobre/ Sin Chan Chou** (CPTEC/INPE, Brazil) *A study of global climate change with the Brazilian Earth System Model - BES*

**Regional Modeling:**

**Sin Chan Chou** (CPTEC/INPE, Brazil) *The regional Eta model: some experiences*

**Jinkyu Hong** (Yunsei University, Korea) *Introduction to WRF modeling study at Yonsei University*

**Lixin Lu** (CSU, USA)

**Sha Lu** (Nanjing University, China). *Sensitivity of high resolution WRF modeling to different land surface schemes over the Central Asian regions*

**Xiaokiang Song** (NMEFC, China)

**Hiroshi Takahashi** (Tokyo Metro. Univ., Japan)

**Miao Yu** (NUIST, China) *Performance of RegCM4.3.4 in simulating 2 m temperature and precipitation over the Tibetan Plateau.*

**Aerosol:**

**Huilin Huang** (UCLA, USA). *Modeling aerosols in snow in SSiB*

**Sixiao Yang** (SYSU, China) *How biomass burning aerosols from Indo-China Peninsula affect Southern China rainfall under El Nino events*

**Xian Zhu** (SYSU, China) *Projected mean and extreme temperature and precipitation over Central Asia: Results from dynamical downscaling and CCSM4*