**International Workshop of First Phase of**

**GEWEX/GASS ILSTSS2S Initiative and TPEMIP**

December 8-9, 2019 Washington, D.C.

***Organized and Sponsored by:***

GEWEX/Global Atmospheric System Study (GASS)

Third Pole Environment (TPE)

University of California at Los Angeles (UCLA)

This will be the kick off workshop for the “Impact of initialized land temperature and snowpack on sub-seasonal to seasonal prediction” (ILSTSS2S) and “Third Pole Experiment Multi-Model Intercomparison” (TPEMIP). The ILSTSS2S aims to explore the impact of the initialization of large scale LST/SUBT and snow pack, including the aerosol in snow, in climate models on the S2S prediction over different regions. TPEMIP particularly focus on the impact of land conditions in Third Pole area and Earth System models’ performance over the Third Pole and surrounding areas. The workshop will provide a general overview on the roles of land surface processes (mainly land surface and subsurface temperature, soil moisture remote effect, aerosols in snow, etc.) in the S2S prediction and major available data for the first phase experiment. The GEWEX/GASS and WCRP/WWRP S2S program will also provide an overview for their activity. Some preliminary land surface and subsurface (LST/SUBT) test results from a few volunteer groups will be reported. Participants are invited to present their progress and research on S2S research (modeling, analyses), the RCM regional downscaling over the Third Pole areas, and to contribute to the discussion of the scope and approach for the ILSTSS2S project in Day 1.

Day 2 will be devoted to the design of the experiments. The experience in the previous LST/SUBT research will be shared. Some technical aspects of the experiment will be discussed. Since the research using the LST/SUBT for S2S prediction is a new approach and is in its incipient stage, the first step of the experiment in this phase will focus on the process understanding. A set of experiments (2~3 months) will be finalized during the workshop based on the preliminary test results to examine the effect of LST/SUBT initialization on the drought/flood prediction. The experiments for the RCMs will also be discussed. A preliminary schedule for the first two years’ research, including the 2nd workshop in Beijing China in the summer 2019 and a session in the 2019 AGU Fall meeting will be discussed. A working committee will be formed.

**Workshop Participants**: The workshop participants are limited to those on the ILSTSS2S mailing list or invited.

**Workshop Venue:** Washington D.C. xxxxx Hotel (TBD by the AGU) on the Saturday and Sunday (8-9 December 2018) right before the AGU Fall Meeting

**Abstract Deadline:** Sunday, October 14, 2018. The abstract should be submitted to ilstss2s.geog.ucla.edu/meetings.

The workshop programs will be available at <http://ilstss2s.geog.ucla.edu/> in Early November