

2017 International Workshop on Observations and Understanding to the Changing of High Mountain and Cold Regions

March 3-4, 2017 @ Beijing, China

The Global change poses the major challenges to the nature and human activities, improving the understanding of these changes will dramatically benefit the harmonious development of human and nature. As the most sensitive area of global change, the **Earth-Three-Poles**, which includes the Arctic, Antarctic and Tibetan Plateau-the majority of High Mountain cold region, are full of plenty of frozen water wherein, and its rapid, seasonal change and the induced eco-environmental adapting are important indicators for the research activities.

The environment changes of Earth-Three-Pole are much connected and interacted, which have a significant impact on the global climate environment and social economic effects. The combination of changes at Earth-Three-Pole has an important impact to the global climate change, inducing sea level rise, and eco-environmental adaption, it also influences the human activities, including large-scale infrastructure, for example, transportation, oil pipe and water conservancy facilities and city expansion, water and agriculture security, disaster mitigation, and regional energy pattern.

In 2013, President Xi Jinping proposed the strategy concept of "Belt and Road" initiative, emphasizing that the relevant countries of B&R are encouraging to work together to develop and share the prosperous "community of destiny" through strengthening the regional cooperation.

In order to ensure the sustainable development of the B&R region, it is necessary to obtain multi-factor environmental information from a large scale in trans-boundary way, further deepen the understanding of environmental change and provide information services accurately by building the information system in high mountain area and northern cold regions.

In recent years, the Earth observations developed rapidly, a variety of ground observation facilities and station observation data exchange have been gradually improved, the observation network are aggregating through different projects and partnership. In particular, the space observation has gained unprecedented development in the last ten years, the satellite resources are going to an open and free market gradually, the spatial resolution is increased to a sub-meter level, and the multi-satellite observation network has also been greatly developed, which provides a good opportunity for global and trans-boundary data sharing and application coordination across the focus region and also provides an important source of observation data for far-away mountains and cold regions where human activities are relatively difficult to visit.

Based on the international program - "Belt and Road ", the conference will focus on the observations and understanding to the environmental changes in the "Mountains and northern Cold Regions", discuss the scientific understanding about forming an

observation network of High Mountains and northern Cold Regions, connecting the environmental change of High Mountainous and northern Cold Regions, and paving the road for setting up the Task Force for High Mountain and Cold Regions under “Digital Belt and Road (DBAR)” program.

The conference will be held for two days. The international workshop will be held on 3rd, March; the working conference of DBAR-High Mountain and Cold Regions Task Force will be held in Morning of 4th, March; in the afternoon, the Essential Cold Region Variables task will be discussed to support the Group on Earth Observation Cold Region Initiative (GEOCRI).

Conference venue:

C608, Institute of remote sensing and digital earth Chinese academy of sciences, New Technology Campus, Tangjialin, Haidian District, Beijing.

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