

# First Circular

The 2<sup>nd</sup> International Workshop

On

**Observations and Understanding of Changes**

**in High Mountain and Cold Regions**

**(HiMAC2018)**



*29-30 October, 2018*

Arctic Space Centre, FMI, Sodankylä, Finland

***Organizers:***

*Arctic Space Centre, Finnish Meteorological Institute*

*Digital Belt and Road Program on High Mountain and Cold Regions (DBAR-HiMAC)*

*Institute of Remote Sensing and Digital Earth (RADI), Chinese Academy of Science (CAS)*

***Co-Organizer:***

*IEEE Ad-Hoc Committee on North & South Poles (IEEE N&S)*

*GEO Cold Regions Initiative (GEOCRI)*

*Pan EuroAsia Experiment (PEEX)*

***Technical Co-Sponsor:***

*IEEE Geoscience and Remote Sensing Society (GRSS)*

We are pleased to announce the 2<sup>nd</sup> International Workshop on Observations and Understanding of Changes in High Mountain and Cold Regions (HiMAC 2018), to be held on October 29-30, 2018, in Sodankylä, Finland. The workshop will bring together scientists from fields of Earth Observations, Meteorology, Climatology, Ecology and Biogeochemistry to discuss various in situ and satellite observations, data post processing, physical and biological processes that are contributed to the changes of environment over high mountain and cold regions on Earth. The workshop will contribute to the common understanding on identifying essential variables and their change processes, the role of EO systems, and its relevant big earth data analysis in tracking these for the optimum benefits of diverse science and societal applications.

The workshop also aims to foster connections and collaborations among the multidisciplinary scientists and Earth Observations communities.

The HiMAC2018 workshop is organized around three themes,

- **Earth observations and data products for Arctic and high mountain cold region**
  - Ongoing initiatives addressing main observational gaps
  - Essential variables for the societal benefit areas over High Mountains and Cold Regions
  - Present capabilities and data products from Earth Observing satellites
- **New Earth Observing satellite systems for tracking variables in the Earth three poles (Arctic, Antarctic, High Asian areas)**
  - Upcoming observation systems/ Planned gap-filling satellite concepts
  - Role of ground-based reference observations in development of geophysical retrieval algorithms and validation
- **The role of variables in tracking climate, ecology and biogeochemical processes in the three poles.**
  - Links of cryosphere processes to carbon cycle.
  - Arctic ecology in changing climate
  - Linkage between Arctic warming and the mid-latitude weather and climate.

The meeting will be hold at Tähteläntie 62 99600 SODANKYLÄ Tel. +358 29 539 1000,

<http://space.fmi.fi/>

For more information and participations, please contact:

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