OVERALL PROGRAM – JUNE 3

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<td><strong>Vertical sessions</strong></td>
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**Venue:** Plaza Heisei, Tokyo International Exchange Center  
**Room:** 3F Main Hall  
**Contact persons Horizontal Session OBS:**  
Hiroshi Miyaoka, NIPR, miyaoka@nipr.ac.jp  
Jon Børre Ørbæk, Research Council of Norway, bjo@rcn.no

**Background:** Climate change is most sensitively emerging in the sea-ice, snow cover, ice-sheets, permafrost and the marine and land ecosystems of both polar regions. Remote and in situ observations are a prerequisite for assessing present environmental change and our ability to predict future change. However, the large and remote polar regions are still significantly under-sampled. International collaboration and integration of observing capacities and the sharing of logistics and data is therefore needed. Not only the changes in the surface, but also changes in the near earth space is also of interest, where a huge number of satellites/aircrafts are present.

**Objectives:** The session addresses challenges and opportunities for establishing integrated observing systems in the Arctic, earth observing capacities, state-of-the-art data management systems and the benefit of data sharing, for the purpose of providing necessary data on a number of key variables of climate and environmental change. Examples of in situ campaigns with opportunities for increased international collaboration, are also given.
Program for “Session OBS”, Tokyo, June 2-3
«Arctic Observing and Data Sharing»

Co-Chairs: Dr. Hironori Yabuki, National Institute of Polar Research (NIPR)
Dr. Jon Børre Ørbæk, Research Council of Norway

Integrated Observing System:
14:15-14:30  Arctic Observing System: Challenges, new opportunities and integration (Keynote)
             Prof. Stein Sandven
             Nansen Environmental and Remote Sensing Centre

Earth Observation:
14:30-14:45  JAXA Earth Observing Satellite Program for polar research
             Dr. Masahiro Hori
             Japan Aerospace Exploration Agency - JAXA

14:45-15:00  Infrastructure for polar orbiting satellites
             Mr. Kenneth Olafsson
             Kongsberg Satellite Services (KSAT)

Arctic Data Management Systems:
15:00-15:15  Arctic Data Archive System - management of Japanese polar data
             Dr. Hironori Yabuki
             National Institute of Polar Research (NIPR)

15:15-15:30  Perspectives on SIOS data management and remote sensing service,
             lessons learned in the Norwegian Satellite Earth Observation Database for
             Marine and Polar Research
             Dr. Øystein Godøy
             Norwegian Meteorological Institute (MET)

In situ observing campaigns:
15:30-15:45  Observations from the high-Arctic N-ICE2015 expedition
             Dr. Stephen Hudson
             Norwegian Polar Institute (NPI)

15:45  Closing session