

## JCAR was formed

Arctic is a region on earth where the temperature rise is strong under global warming, and is a region where strong influence to the environment due to these climate change is projected. Such change in the Arctic will affect the global climate through the changes in the atmosphere, ocean, cryosphere and biosphere. Since Japan receives influence of these changes strongly as it is located in the northern hemisphere, more systematic and organized research activity is needed to clarify the mechanism and influence of climate variation in the arctic region and to predict the future more precisely.

In order to exhibit the comprehensive ability of the arctic environment research in Japan, through stronger cooperation between researchers and institutes in Japan, "Japan Consortium for Arctic environmental Research (JCAR)" was formed on May 25, 2011, to identify and bring together the human and facilities resources of the Arctic research community in Japan to create a synergy for the Arctic research. As of March 2014, 370 researchers from more than 90 institutions have registered for JCAR.



Aerial photo of Ny-Ålesund where NIPR has its station.

## Japan Consortium for Arctic Environmental Research

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# Japan Consortium for Arctic Environmental Research



## 1. About JCAR

The Japan Consortium for Arctic Environmental Research (JCAR) is an academic and non-profit organization consisting of individuals who are interested in Arctic research or related fields. The objectives of JCAR are to examine and develop the long-term research and infra-structure plan for the scientific Arctic environment researches in Japan, to enhance cooperation and coordination internationally and domestically, to consider human resource development, to make proposal on these Arctic environmental research to science communities and related organization, and to circulate information among the scientific community and to the national and international public.

The JCAR implements the Arctic session held every year at Japan Geophysical Union's annual assembly and ISAR (International Symposium for Arctic Research) held every two years (2008, 2010, and 2013).



Third International Symposium on Arctic Research  
(January, 2013 in Tokyo)

## 2. Organization and funding of JCAR

The steering committee of JCAR leads the activity through gathering requests and comments from the registered members to JCAR. For detail discussion working groups such as Long-term planning WG, Data archive planning WG, Research interaction WG, Early career development WG, Publicity and dissemination WG and Organization system WG.

In order to implement the objectives, consortium office is installed at National Institute of Polar Research (NIPR).

The fund needed to run the JCAR is prepared by the Ministry of Education, Culture, Sports, Science & Technology in Japan (MEXT) through the Program "Green Network of Excellence (GRENE)".



Tower flux measurement site at Yakutsk,  
maintained by Japanese Institutes  
and Russian Academy of Sciences.



Radiation measurement in Svalbard.



Arctic observation cruise of Research  
Vessel of JAMSTEC "Mirai".

