

## **Future development and challenges on Arctic Data archive System(ADS)**

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The easy access use is made possible from the industrial and the social public using research results(thesis and research data, etc.) using a public research fund, and a concept as open science aiming at linking it to creation of innovation by opening the new way as well as promoting a scientific technical research effectively is showing a rapid expanse to creation of worldwide. And the principle opening to the research result and data by a public research fund by GRC (Global Research Council), OECD(Organization for Economic Cooperation and Development) and G8 in 2013 etc.

Under these background, Arctic Data archive System(ADS: <https://ads.nipr.ac.jp>), through proceed with the visualization and the development of online analysis system of integrated big data, aiming for integrated analysis information platform, not only as a mutual distribution platform of data, we have developed a system that enables open access research data and scientific knowledge obtained in the Arctic research.

The share of research data and scientific knowledge in the Arctic and non-Arctic nations, there are need for coordination of data repository and data center in a various country.

Important to drive the open-science, it is important data published and data cited, it is necessary to promote these data published and data cited. We, through the development of ADS activity, believe that can contribute to the sharing of research data and scientific knowledge in the Arctic and non-Arctic nations.