

# Science Metadata Management, Interoperability and Data Citation of the National Institute of Polar Research, Japan

\*Masaki Kanao<sup>1</sup>

## 1. National Institute of Polar Research

The Polar Data Centre (PDC) of the National Institute of Polar Research (NIPR) has a responsibility to manage the polar science data as one of the National Antarctic Data Centre (NADC) under the Science Committee on Antarctic Research (SCAR). During the International Polar Year (IPY 2007–2008), a remarkable number of data/metadata involving multi-disciplinary science activities had been compiled. Although a long-term stewardship of those accumulation of metadata falls to the data centre of NIPR, the efforts have been in great collaboration with the Global Change Master Directory (GCMD), the Polar Information Commons (PIC), the World Data System (WDS) and other data science bodies / communities under the International Council for Science (ICSU). In addition, linkages of metadata interoperability with other data centers, such as the Data Integration and Analysis System Program (DIAS) of the Global Earth Observation System of Systems (GEOSS) , the Polar Data Catalogue of Canada have been initiated in 2014 by using the Open Archives Initiative Protocol for Metadata Harvesting (OAI-PMH). The compiled metadata by the PDC of NIPR, moreover, are recently equipped an automatically attributing system of the Digital Object Identifier (DOI) by requesting to the DataCite through the Japan Link Center (JaLC).

Keywords: Metadata management, Interoperability, Data citation