

A review of data management for polar sciences in Japan

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Diverse data accumulated by many science disciplines in polar regions make up the most significant legacy of the International Polar Year (IPY2007-2008). The Polar Data Center (PDC) of the National Institute of Polar Research (NIPR), followed by the Polar Environment Data Science Center (PEDSC) of the Joint Support-Center for Data Science Research (DS) since 2016 have responsibility to manage these multi-disciplinary polar data in Japan as a National Antarctic Data Center (NADC). The data policy of PDC/PEDSC was established in February 2007, based on the requirements of the Standing Committee on Antarctic Data Management (SCADM) of the Scientific Committee on Antarctic Research (SCAR). During the IPY, a significant number of metadata records were compiled from IPY- endorsed projects. A tight collaboration has been established between the Global Change Master Directory (GCMD), the Polar Information Commons (PIC), and the newly established World Data System (WDS). In this presentation, a decade of history of polar data management is demonstrated, in particular focusing on several database of PEDSC, international collaboration among global data bodies and initiatives, data publication and citation, as well as data journal issues (Polar Data Journal). Linkages of data sharing among Asian Forum for Polar Sciences (AFoPS) countries, moreover, should be promoted by the involved countries in near future.