

## 北極域データアーカイブの進展 Developments of Arctic Data archive System(ADS)

矢吹 裕伯<sup>1\*</sup>; 杉村 剛<sup>2</sup>; 照井 健志<sup>2</sup>  
YABUKI, Hironori<sup>1\*</sup>; SUGIMURA, Takeshi<sup>2</sup>; TERUI, Takeshi<sup>2</sup>

<sup>1</sup> 海洋研究開発機構, <sup>2</sup> 国立極地研究所

<sup>1</sup>Japan Agency for Marine-Earth Science and Technology, <sup>2</sup>National Institute of Polar Research

Arctic is the region where the global warming is mostly amplified, and the atmosphere/ ocean/ cryosphere/ land system is changing. Active promotion of Arctic environmental research, it is large and responsible for observational data. Promotion of Arctic research in Japan, has not been subjected to independent in their respective fields.

In the National Institute of Polar Research, perform the integration and sharing of data across a multi-disciplinary such as atmosphere, ocean, snow and ice, land, ecosystem, model, for the purpose of cooperation and integration across disciplines, we build a Arctic Data archive System (ADS).

Arctic Data archive System (ADS), to promote the mutual use of the data across a multi-disciplinary to collect and share data sets, such as observational data, satellite data, numerical experiment data. Through these data sets, clarify of actual conditions and processes of climate change on the Arctic region, and further contribute to assessment of the impact of global warming in the Arctic environmental change, to improve the future prediction accuracy.

ADS developed the the online visualization system (VISION) of grid data (a satellite and model simulation), which observational researcher was not good. This VISION which can easily visualize special change can become effective for not only the understanding of the phenomenon but also the design of the observation for an observational researcher.

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