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Toward a new phase of Arctic research data activity

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In Arctic region, various changes are being caused by global warming. In previous studies, the decrease of Arctic sea ice extent, the increase in soil temperature in the region of Siberia, permafrost melting, the increase in Arctic river runoff, reduction in snow cover has been revealed. Also the impact of human activities and ecosystems due to these changes is concerned. The actual condition and mechanism of environmental change in arctic has not been elucidated. Previous studies have been carried out to separate the atmosphere, oceans, by land. Arctic is a system consisting of atmosphere, ocean, land surface, from snow and ice, these systems including the phenomenon of different spatial scales and time scale, respectively. In order to clarify the variability of the Arctic environment, through interdisciplinary research, research is needed in using a database that integrates the results of observation and research data across multiple areas.

In this presentation, we introduce the direction of data using and archiving in the National Institute of Polar Research is a research project focused on the Arctic region.

Keywords: Arctic, Environment, Global Warming

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