

## **Outline of the Monitoring Observation and Infrastructure Plan of the Six-Year JARE Phase IX**

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The next six-year scheme, “Japanese Antarctic Research Plan Phase IX”, has started from FY2016. Within this scheme, a project entitled “Global changes and movements on Earth system through Antarctic observations” has been launched as the main theme of the Prioritized Research Project for Phase IX, and we are aiming to promote advanced scientific research from a global view of the Earth and space by combining other research categories, including the ordinary research projects, exploratory research projects, monitoring, and routine observations. The project is also designed to meet social demands and international research trends with respect to global environmental issues.

Monitoring observation is the mid-term observations for upper atmosphere, atmosphere/hydrosphere, geosphere, biosphere, and satellite monitoring conducted by NIPR. All observation meets social requirements, fulfils part of international and global network, and provides high quality data. In the special session "Toward a six-year Japanese Antarctic Research Project: phase IX from phase VIII", activities, outcomes, and planes of monitoring observations are outlined as poster presentations during the session.

Continuing from Project Phase VIII, while promoting the use of renewable energy and conducting the proper processing of waste, we will endeavor to replace aged station equipment and consolidate infrastructure. In addition, in order to support planned inland activities, we will proceed improvements of transportation capability. Furthermore, we will strengthen facilities and building structures at Syowa Station.