

## 南極地域観測第IX期6か年計画と将来展望

## Outline of six-year Japanese Antarctic Research Project phase IX and future prospects

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Understanding the mechanism of changes in the Antarctic subsystem is essential in order to elucidate changes in the Earth system and global environment. The six-year Japanese Antarctic Research Project phase IX centered on main scientific theme of "Investigation of changes in the Earth system from Antarctica" will be initiated from 2016/2017 austral summer season. The following three subthemes will be conducted under the main theme, "Investigation of the whole global atmospheric system through precise observation of the Antarctic atmosphere", "Investigation of the interaction of atmosphere, ice sheets, sea ice, and ocean from integrated research in areas bordering ice sheets and sea ice" and "Reconstruction of the Antarctic paleoclimate to elucidate changes in the Earth system" The three subthemes are established to understand present and past changes in the Antarctic subsystem in the Earth system, interaction within the subsystem, and the relationship between changes in the Antarctic region and the Earth system

We will introduce the outline of the six-year Japanese Antarctic Research Project phase IX and the three subthemes under the main scientific theme of "Investigation of changes in the Earth system from Antarctica." The future prospects during and after the six-year Japanese Antarctic Research Project phase IX will be discussed.

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