

Towards understanding of Antarctic ice sheet and climate variations and interactions

KAWAMURA, Kenji^{1*} ; SUGIYAMA, Shin² ; IIZUKA, Yoshinori²

¹National Institute of Polar Research, ²ILTS, Hokkaido University

This presentation introduces a research plan about Antarctic ice sheet and climate, and their interactions. The plan aims at revealing the Antarctic ice sheet climate in terms of their status, variability and interactions in the present and past. Emphases will be laid on (1) analyses and proxy developments for reconstructing the past temperature, accumulation rate, sea ice and carbon cycle, as well as (2) modern observations of the ice sheet margin and ocean.

Keywords: Antarctic ice sheet, Climate change, Ice core, Ice sheet melting