

Research prospects on variations and interactions of Antarctic ice sheet and climate

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We introduce our research plan over the next five years on variations and interactions of Antarctic ice sheet and climate. The research aims at better documenting and understanding of the Antarctic ice sheet and climate: their status, variability and interactions in the present and past. We particularly emphasize (1) analyses and proxy developments for reconstructing past, long-term temperature, accumulation rate, sea ice and carbon cycle, and (2) modern observations of the ice sheet margin and ocean by direct observation and remote sensing.

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