

Observational study on precipitation and water vapor over Antarctica

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The Antarctic region has smaller amount of precipitation and water vapor due to its coldness. However, the water cycle system in the Antarctic region has made the huge ice sheet for climatic time. Change in the water cycle in the Antarctic region in association with global warming is one of important issue.

This observational plan intends to know the water cycle in the Antarctic region quantitatively. At first, it will be started at Syowa station and then will be developed to inner area. In this case, some difficulty will be overcome as instruments working in the extreme cold environment and so.