

## The high pressure system over the Antarctic ice sheet after a blocking event and formation of cloud and precipitation at Dome-F

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After a blocking event in June of 1997, two kinds of high pressure system appeared over the east Antarctic ice sheet by turns for about ten days. In the first half of the period a solitary high pressure system was cut off as the blocking high, and in the next half a ridge of high pressure got to lie in longitudinal direction over the east Antarctica. The Dome Fuji station (77S, 40E), which is the Japanese inland station for ice core boring, located at the center of the solitary high pressure system in the first stage and also at the ridge in the second stage. At the station some standard surface meteorological observation, aerological sonde sounding and lidar observation were operated. This paper describes the time evolution of the high pressure system and the relevant change in formation of clouds and precipitation at Dome Fuji Station by using of the in situ observation, the objective analysis data derived by ECMWF and numerical modeling.