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ACC029-11

Room:102

Time:May 26 15:45-16:00

## Reconstructions of temperature histories of the Dome Fuji site and its moisture source using water isotope records

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A stable isotope ratio (D/H or  $^{18}\text{O}/^{16}\text{O}$ ) of the polar ice cores is widely used as an air-temperature proxy. Further, a combined use of these isotopes provides a parameter, deuterium-excess ( $d$ ), and provides the information on the ocean surface conditions in the moisture source for polar precipitation. Here we re-evaluate several coefficients used for reconstructing Antarctic site temperature and temperature in the moisture source regions. The new coefficients were applied to the revised D/H and  $d$  records of Dome Fuji core which cover past 360 kyr period. Differences between this study and previous estimations will be discussed.