

Drilling of deep ice core exceeding 800,000 years for reconstructing past climate

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In the next phase of the Antarctic research activities of Japan, National Institute of Polar Research along with Dome Fuji Ice Core Consortium (ICC) in Japan plan to perform various activities related to drilling of the "oldest ice" with age much older than 800 kyr ago, in the vicinity of Dome Fuji. We call the planned ice core as "the 3rd DF deep core". In the near future, we aim to: (i) investigate glaciological conditions (ice sheet surface conditions, englacial conditions and subglacial conditions) of the candidate site area; (ii) determine the exact location of the drilling site and (iii) start to perform pilot hole drilling, casing and shallow/middle range deep drilling.

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