

## Towards drilling of deep ice core exceeding 1 Ma for reconstructing past climate

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In the next phases of Antarctic glaciological research, National Institute of Polar Research together with Dome Fuji Ice Core Consortium (ICC) plans to perform various activities related to the third deep ice-core drilling in the vicinity of Dome Fuji, in order to obtain the “oldest ice” with age much older than 800 kyr. This is also a contribution to International Partnership in Ice Core Sciences (IPICS), which defines the oldest ice project as most challenging. During the next six years (JARE Phase IX), we (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 pilot hole drilling, casing and shallow/middle range deep drilling. The drilling will then continue to reach the bedrock and obtain the old ice core.

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