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Vegetation response to abrupt climate changes

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Recently, Greenland ice core records and North Atlantic marine core records showed abrupt climate changes such as Dansgaard-Oeschger events (Dansgaard et al., 1993) and Heinrich events (Heinrich, 1988). In this presentation, we will discuss about the forest vegetation response in Japan to the D-O events during the last glacial, based on the migrations rate of trees related to mature and seed dispersal mechanisms. In addition, vegetation response patterns to the abrupt climate changes since the last 40,000 years will be shown by new pollen record from Lake Biwa (BIW95-4 piston core).