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Records of sea-ice extent and air temperature at the Sea of Okhotsk from an ice-core of Mount Ichinsky, Kamchatka

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We obtained an ice-core from Mount Ichinsky, Kamchatka in 2006 in order to reconstruct climate changes in Kamchatka and the Sea of Okhotsk region. We suggest that ice layer content and delta ^{-D} profile of the ice-core reflect summer temperature and sea ice extent, respectively.

Consequently, we estimate temperature variation as follows: 50-60s; warm summer and cold winter, 70-mid80s; cold summer and cold winter, mid80-90s; warm summer and warm winter, 2000s; cold summer and cold winter. This variation seems to be caused partly by AO.

Keywords: Ice-core, Kamchatka, Okhotsk, sea ice extent, paleo environment, hydrogen isotope