

Reconstruction of the climatic changes in Kamchatka from borehole temperature data (preliminary report)

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We attempt to reconstruct the past climatic changes in Kamchatka from borehole temperature data as a three-year project from 2000 to 2002. We conduct groundwater surveys and collect tree-ring samples around the temperature measurement sites for precise reconstruction through evaluation of the effect of heat transport by groundwater flow and combined-analysis of borehole and tree-ring data. The most of the temperature profiles measured in 8 wells in 2000 show the minimum values at depths shallower than 50 m, indicating a recent increase in the surface ground temperature.