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Response of Siberian Permafrost to Climate Change after Last Glacial Maximum

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Siberian permafrost distribution is large and deep compared with present climatic condition.

It is interpreted as a effect of surface cooling during the last glacial maximum.

But, by the result of 1-D Soil Model, the time scale of response for the surface warming is calculated as less than 10000 years.

It means that subsurface temperature is almost at the equibrium with surface temperature, so it's paradoxical with former interpretation.

In this study, we try to evaluate the thermal stability of Siberian permafrost, and to explain the present permafrost distibution there.