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Recent environmental changes in a tundra area in northern Siberia

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Recent climatic change in the Arctic is beyond the prediction. For example, the minimum sea ice extent of the Arctic Ocean in 2007 was unable to be predicted by any GCMs. Those changes in the Arctic have influences the environment over land and appear as increase in summer precipitation, increase in active layer soil temperature, discharge increase of northern rivers, and so on (Iijima et al. 2010). The influence of the sea ice extent reduction in Arctic Ocean could be appeared over surrounding land, such as tundra area, however, not so many reports based on observation were made so far. In the presentation, analyzing the observed meteorological and of active layer data, the recent changes over tundra area along the coast of Arctic Ocean in northern Siberia are reported.

Keywords: tundra, active layer, terrestrial change, Arctic Ocean