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Review of previous study and observation plan for mass balance of No. 31 glacier, Siberia

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There are 182 glaciers in Suntar Khayata mountain range, east Siberia. The little ice age was in 1800s in this region. Twice of warm and cold period were seen since 1500 A.D.

Glacier research has done at no. 31 glacier during IGY years in 1957-1959 and profile of mass balance have observed.

We have started glacier research at no.31 glacier in September 2011. The instruments of Automatic Weather Station (AWS), stakes, interval cameras, snow depth sensor, rain gauge were set near and on the glacier. Air temperature, relative humidity, atmospheric pressure, solar radiation, wind speed, wind direction and precipitation are measured at the AWS. Stakes network and meteorological observation network will be expanded next season.

Previous mass balance study has been done by Koreisya (1991) and Ananicheva et al (2010). We have calculated pass mass balance by the method of Koreisya (1911). However, the result did not match to Ananicheva et al (2010). The observation in next year will be used to reconstruct mass balance of no.31.

Keywords: glacier, arctic, Siberia, no.31, mass balance, observation