

Title: Measurement of snow physical parameters using a ground-based spectral radiometer in Ny-Aalesund, Svalbard

Field leader: Katsuyuki KUCHIKI

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Program: Effects of snow impurities and glacial microbes on abrupt warming in the Arctic

Principal Investigator: Teruo AOKI

Proj. Period: 2011 - 2015

Institution: Meteorological Research Institute

Co-research Institution & Scientist (out of JPN):

Alfred Wegener Institute for Polar and Marine Research, Germany

Field activity planned for 2013

Invest. Area: Ny-Alesund, Svalbard, Norway

Latitude and longitude: 78 ° 55'24"N, 11 ° 55'15"E

Field Period: April to March

Logistics: Spectral radiometer, snow sampling

Description:

[purpose] Monitoring of the seasonal variations of BC concentration in snow and snow grain size, and evaluating those effect on snow albedo.

[outline] The snow albedo is continuously measured with the ground-based spectral radiometer, and the seasonal variations of BC concentration and snow grain size are retrieved by a remote sensing technique. Snow samplings are conducted to analyze the BC concentration in snow.

Participants: Katuyuki KUCHIKI (Meteorological Research Institute), Teruo AOKI (Meteorological Research Institute).

Field activity of previous year

Invest. Area: Ny-Alesund, Svalbard, Norway

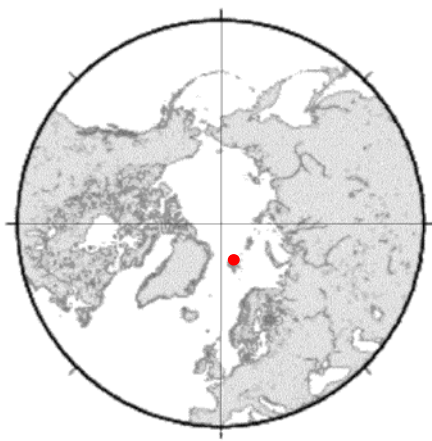
Field Period: September to March

Logistics: Spectral radiometer

Description: A ground-based spectral radiometer was installed close to the BSRN radiation measurement field in Ny-Alesund, and the continuous measurement of spectral snow albedos was started.

Number of participants: 3

Area:



Note: