

**Title: Millimeter-wave cloud radar observation in Ny-Alesund**

**Field leader:** Toshiaki TAKANO

**Institution:** Chiba University

**Address:** Yayoicho 1-13 , Inage-ku , Chiba 263-8522

**phone:** +81-43-290-3311 **fax:** +81-43-290-3311 **E-mail:** takano@faculty.chiba-u.jp

**Programme:** GRENE Arctic Climate Change Research Project: Research infrastructure

**Principal Investigator:** Yoshiyuki FUJII

**Proj. Period:** 2011 - 2016

**Institution:** National Institute of Polar Research

**Co-research Institution & Scientist (out of JPN):** Norwegian Polar Institute

**Field activity planned for 2013**

**Invest. Area:** Ny-Alesund , Svalbard , Norway

**Latitude and longitude:** 78.9N, 11.9E

**Field Period:** September to December

**Logistics:** Ground-based continuous measurements with FMCW-type 95GHz doppler radar (FALCON-A) at Rabben Station

**Description:**

[purpose] In order to investigate optical and microphysical properties and internal structures of various clouds, long-term continuous measurements including radar reflectivity and doppler velocity are performed with a ground-based cloud radar.

[outline] The cloud radar is installed in a 20-ft-length robust container and placed in the west of Rabben Station. The radar is remotely controlled via linternet, and the data are regularly transferred to a data server in Chiba University. Installation will be done in September, and the measurement will begin in October, 2013.

**Participants:** T. Takano, Y. Kawamura, M. Yanaga (Chiba U.), M. Shiobara (NIPR)

**Field activity of previous year**

**Invest. Area:**

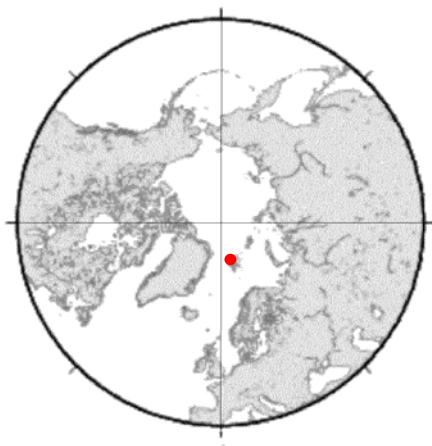
**Field Period:**

**Logistics:**

**Description:**

**Number of participants:**

**Area:**



**Note:**