

**Title: Study of energetic electron precipitations from the radiation belt based on the VLF/LF standard wave measurement**

**Field leader:** Fuminori TSUCHIYA

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**Programme:**

**Principal Investigator:**

**Proj. Period:**

**Institution:**

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

**Planned field activity**

**Invest. Area:** Ny-Alesund Station

**Latitude and longitude:** 11°52E 78 ° 56N

**Field Period:** always

**Logistics:**

**Description:**

[purpose]:

[outline]: Observation of manmade transmitter signals in the very low frequency (VLF) and low frequency (LF) ranges is a useful remote-sensing tool to detect ionization phenomena in the ionospheric D-region. The ionization is caused by precipitations of high energy electrons from space , this observation plans to measure the transmitter signals in the radio frequency range of 40 to 100 kHz and survey the loss of trapped electrons from the radiation belt into the atmosphere during the geomagnetic storm and substorm.

**Participants:**

**Field activity of previous year**

**Invest. Area:**

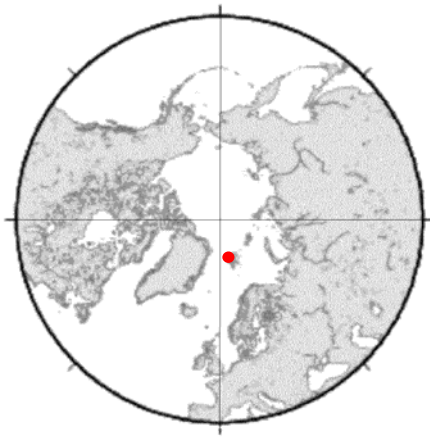
**Field Period:**

**Logistics:**

**Description:**

**Number of participants:**

**Area:**



**Note:**