2012 Workshop: Norway Science

Long title
U.S./Norway Collaborative Science
Conveners
Miguel Larsen
Jøran Moen
Kolbjørn Dahle
Description

Many of the scientific studies being carried out in northern Norway have strong links to programs in the U.S., including the science topics traditionally associated with CEDAR. The rocket ranges at Andoya and Svalbard have been standard launch sites for the U.S. sounding rocket program and have provided a critical component for investigations of polar mesospheric and auroral phenomena. In addition, the radar, lidar, and other optical instrumentation in the region provides measurements that are critical for a number of CEDAR science objectives. Last year a working group was formed to facilitate the relationship between U.S. and Norwegian science objectives and to publicize common objectives, ongoing campaigns, and plans for future experiments. The workshop will focus on instrument capabilities, scientific results from current investigations, and planned experiments that make use of the unique capabilities in that part of the polar region.

Draft Agenda (June 27, 2012)

1) Kolbjørn Dahle : ARR update Development projects. Status on the hybrid motor development; Cubesats etc;

2) Kristina Lynch: MICA preliminary results

3) Joran Moen : F-region plasma irregularities in the polar cap

4) Margit Dyrland : Ground-based space infrastructure in Svalbard to forecast rocket launches

5) Mark Conde: Cusp neutral vertical winds

6) Miguel Larsen: Thermospheric vertical winds

7) Gerald Lehmacher: Turbopause science

8) Mike Kelley: Polar science perspective

9) Paul Bernhardt: The CARE 2 release experiment

Justification

There are strong direct links between CEDAR science objectives and collaborative activities in northern Norway between Norwegian and U.S. investigators. The workshop will help to publicize the scientific work in that region and to facilitate and expand the collaborative effort.

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