

## ALOMAR Facility

The ALOMAR (Arctic Lidar Observatory for Middle Atmosphere Research) is located at the top of Ramnan mountain, 378 m above sea level, near the Andøya Rocket Range (ARR) in the northern part of Norway (69° N). It is a unique ensemble of ground-based instruments, installed and operated by scientific groups from seven countries.

By means of ALOMAR eARI, ARR offers scientists opportunities for in-depth studies of the Arctic atmosphere, 7 days a week and 24 hours a day all through the year. A set of lidar, radar and passive systems monitor dynamic, chemical and physical parameters from ground level up to a height of 120 km.

### Possibilities at the ALOMAR Facility

Access to a selection of ground-based instruments:

- Lidar
- Radar
- Riometer
- Ionosonde
- All-sky Camera
- Magnetometer

Laboratory space:

- Scientists can bring their own instruments to ALOMAR for individual measurements.

Personnel:

- Engineering- and scientific support

Radiosonde station:

- Radiosondes
- Ozone sondes
- Radac sondes

Full service provided with meteorological balloons, eARI users pay only for the hardware.

All travel and subsistence costs, as well as transport costs for scientific instruments are covered by the eARI project.

### Examples of phenomenon to study

Arctic climate parameters in general, as well as Global Change.

- Ozone depletion and destruction
- UV irradiation
- NLC (Noctilucent Clouds)
- PMSE (Polar Mesospheric Summer Echoes)
- PSC (Polar Stratospheric Clouds)
- Aurora Borealis
- Aerosols and Pollutants

### Closing dates for applications

- February 15<sup>th</sup>
- May 15<sup>th</sup>
- September 15<sup>th</sup>

Each year 2004, 2005, 2006 and 2007

**As participants in the EU's 6<sup>th</sup> Framework Programme, we invite scientists to participate and exploit the advantages of this unique facility.**