

MEMBER COUNTRY: **Norway**

National Report to SCAR for year: 2006-07

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<b>SALE</b>						
<b>ACTION GROUPS</b>						
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<b>Seals</b>						
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<b>GIANT</b>						
<b>1) (Atmospheric Impact on GPS Observations in Antarctica)</b>						
<b>STANDING COMMITTEES (SC)</b>						
<b>JCADM</b>						
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<b>NATIONAL ANTARCTIC DATA CENTRE</b>						
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<b>SCAR DATABASE</b>						
<b>A BRIEF SUMMARY OF SCIENTIFIC HIGHLIGHTS:</b>						
<p>Norwegian activities in Antarctica the last year have been concentrated on the finalization of the upgrading of the research station Troll and the establishment of the Troll Airfield. Norway is now entering a new era in Antarctica in terms of logistics with these new establishments being in operation. The new facilities will make it possible to decouple marine and terrestrial activities, and will provide opportunities for longer and more flexible research seasons. This will involve a number of advantages for terrestrial research, including the possibility for shorter periods and exchange of personnel in the course of the season; additionally, activities will be able to take place at lower costs. In the long term, the runway may function as a gateway to Antarctica, resulting in greater international activity and closer scientific collaboration in this part of Dronning Maud Land. There will be opportunities for year-round research and monitoring, and scientists and students will be able to spend the austral winter in Antarctica for data collection and analysis.</p> <p>During the 06-07 season an air monitoring facility was established at the Troll station. The monitoring station is operated by the Norwegian Institute for Air Research (NILU) - see <a href="http://www.nilu.no">www.nilu.no</a>. NILU currently focuses their air monitoring program on aerosols, organic and non-organic pollution, ozone and UV-radiation. NILU will in addition build up a air sample archive (annual air samples from Troll) as reference material for future trend studies.</p> <p>During the 06-07 season focus has also been on preparations for the IPY Troll-South Pole travers (<a href="http://traverse.npolar.no">http://traverse.npolar.no</a>). A test traverse was completed in the period 15 Dec. 06- 7 Jan. 07 in which fuel depots were established, equipment tested, etc. The depot was established 700 km southeast of Troll Station and it will be taken along to the South Pole on the Norwegian-US IPY traverse in the 2007/2008 season.</p>						