

Report of AWIPEV Base



NySMAC Meeting
13. - 15. Sept. 2010
Ny-Ålesund

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Main Projects in 2010

24 scientific projects

Marine biology:

- Impact of Ocean Acidification and warming on polar shelled pteropods
- Abiotic and biotic interactive effects on brown and green algal spores
- OrnithoEndocrino
- A comparison of krill species within a natural experiment of climatic adaptability
- EPOCA

North Polar Stratosphere/Atmospheric measurements:

- Aerosol Optical depth measurements
- Radiations measurements
- Tethered balloon measurements of the Arctic boundary layer
- Investigations of Tropospheric aerosols
- Eddy measurements
- FTIR
- GPS High-Rate station
- CHAMP & GRACE satellites receivers

Geophysics:

- Icebound
- Hydro-Loven-Flows
- Glackma
- Observing dynamical and thermodynamical processes involved in the sea ice mass balance
- Gravimetry
- Permafrost

ARCFAC

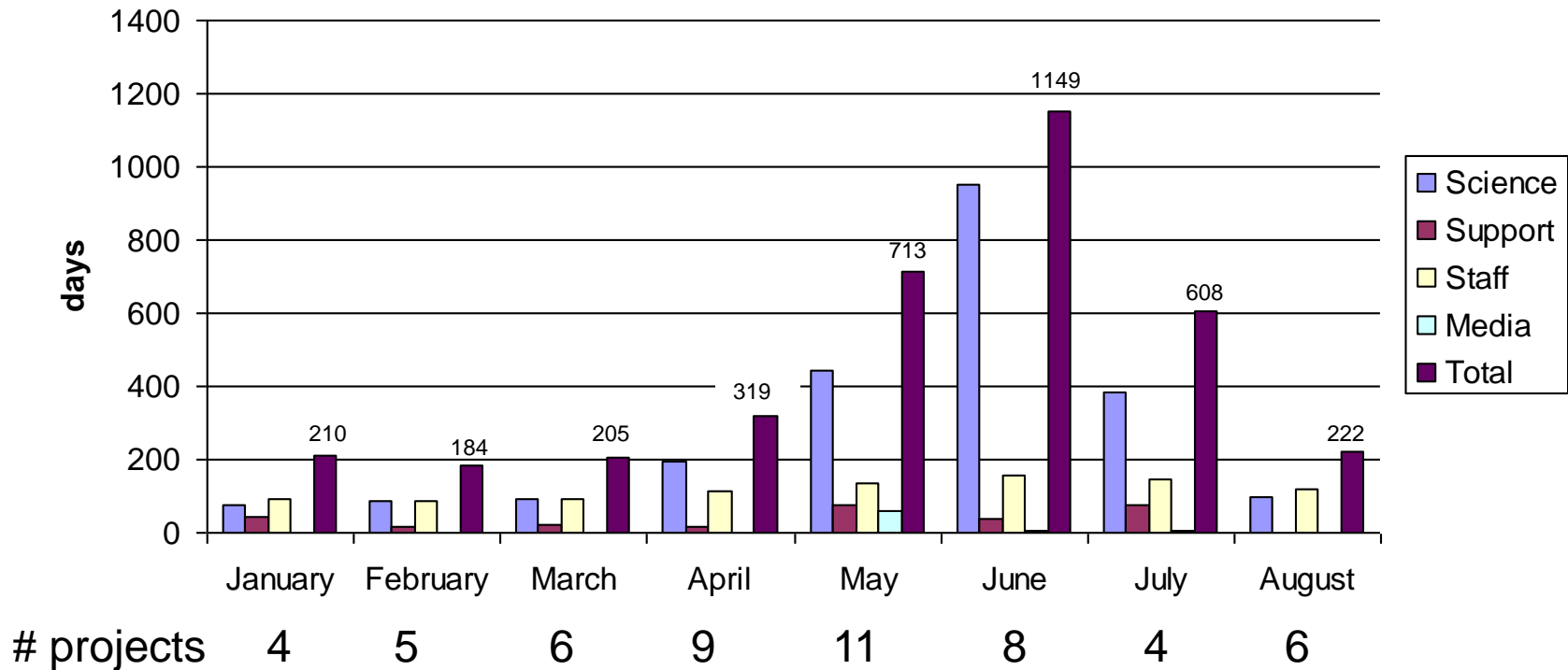
- Kittiwakes
- Aerial observation of rivers and glaciers
- Terrestrial Ecology

Support

- Controlled Meteorologic Balloons (CMET)
- Statenskartverk (Gravity)
- to other stations



Usage of AWIPEV Base



Jan – Aug 10:

106 scientists

3610 person days station & support personnel

Sep 10:

5 projects (1 support) – 216 days

VIP visits at AWIPEV Base

- Several delegations (China, Korea, India, Sweden, Poland, British, Norway, Defence Attachés, Nordic Council, Symposium)
- German Ambassador to Norway Mr. Detlev Rønger with Prof. Egon Juettner from the German Parliament
- Reinhold Ollig from the German Research Ministry
- AWI:
 - Karin Lochte, Director
 - Uwe Nixdorf, Head of Logistics

Projects at AWIPEV Base in 2011

- Many projects from 2010 will continue
- Marine biological activity in summer using Marine Lab.
- Two new IPEV projects in marine biology

- Deadline due to September 30th

2 - CLEAN ENERGY and RE-BUILDINGS AT CORBEL STATION - 2010



CORBEL STATION – 4 buildings located at 5 km from Ny-Alesund (150 sq meters).

The final project is to set-up a ‘clean station’, considered as a remote site for **notably atmospheric chemistry**

during spring time. In summer, the station could be used for campaigns on glaciers.

Project from 2008 to 2012 : Installation of 80 sq meters of solar panels (8 Kwc), and 2 windmills (3 Kwc).



Reshaping Building D in July 2010

Operational in Spring 2011

The reshaping project has started in spring 2008, process will go on in 2011, including a network bridge, for a remote control of the scientific measurements, directly from Ny-Alesund.

CALL FOR IDEAS IN 2011 (campains in 2012) ;
Contact : awipecv@awi-potsdam.de, or Fleury Dominique

- NEW BOAT Polarcirkel – IN USE SINCE SPRING 2010



POLAR CIRKEL – size 6.60 meters with 150 HP, 4 strokes.
Dedicated at first to the diving projects, with a maximum of 12 persons or 1.25 Tons.
The Polar Cirkel will get its standard equipment base, plus additions for a better use for diving activities.

– New Fun Yack Boat – IN USE SINCE SPRING 2010



FUN Yack size 5.4 m , 2 m wide, with 100 HP, 4 strokes.
Speed 25 nds.

– New Electrique Véhicule IN USE IN SPRING 2011

With Solar Panel 240 W



AVAILABILITIES :

Contact : awipev@awi-potsdam.de



AWIPEV Base managers :

Roland Neuber (AWI) and Dominique Fleury (IPEV)

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