PNRA – Final project report

Programma Nazionale di Ricerche in Antartide (PNRA)

Final project report

Project ID: 2002/2.3
Title: The Meteo-Climatological Observatory
Principal investigator: Andrea PELLEGRINI
Institution: ENEA
Email: andrea.pellegrini@casaccia.enea.it
Duration: 2 yrs
Assigned funding: € 52.800,00

Activities and results

The Research Project continued to provide a contribution to the Climatic Monitoring of the Victoria Land and the Antarctic Plateau, by means of a network of Automatic Weather Stations (some of which operate since 1987) and the launch of radiosounding balloons. All data have been validated and have been made available to the Community through the web site www.climantartide.it. Also, real-time data have been inserted into the operational network GTS of the World Meteorological Organisation. Attention has been paid to data useful to the assessment of the mass balance of the ice cap in Antarctica: several sites were instrumented to measure the snow accumulation on the Antarctic Plateau, in cooperation with other Research Projects of the PNRA. At Mario Zucchelli Station, satellite data continued to be acquired from NOAA, DMSP and Orbview-2 satellites. Remotely sensed data have been acquired and stored, producing maps of the sea-ice distribution in the Ross sea and in the Polynya at terra Nova Bay.

Products

A – papers in scientific magazines

   Times Cited: n.d.; Impact Factor 0.661

   Times Cited: 3; Impact Factor 1.886

   Times Cited: 2 ; Impact Factor 0.684

   Times Cited: 1; Impact Factor n.d.


**B - book chapters**


**C - proceedings of international conferences**

AWS Meeting, Columbus OH, June 2005
De Silvestri, L, Gentili, U., Grigioni, P., Pellegrini, A
"Meteo-climatological Observatory 1985-2005"

2nd European Conference On Permafrost EUCOP 2005 Potsdam Germany
Rossana Raffi, Barbara Stenni, Onelio Flora, Umberto Gentili, Paolo Grigioni
"Thermal and geochemical investigations about some ice wedges of Northern Victoria Land (Antarctica)"

SCAR 2004 Bremen, Germany
De Silvestri L, Gentili U, Grigioni P, Pellegrini A
http://meteo.pnra.it : a web access to the meteorological data collected by the Italian Antarctic Program

**D – proceedings of national meetings and conferences**

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**E - thematic maps**


**F - patents, prototypes and data bases**

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**G – exhibits, organization of conferences, editing and similar**

http://www.climantartide.it

**H - formation (PhD thesis, research fellowships, etc.)**

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Programma Nazionale di Ricerche in Antartide (PNRA)

Research units

1) Acquisition of surface and upper air meteorological data.
   Head: Paolo Grigioni  ENEA - Sezione CLIMA
   Staff:
   Grigioni Paolo  Researcher, ENEA
   DeSilvestri Lorenzo  Technician, ENEA
   Gentili Umberto  Researcher, ENEA
   Pellegrini Andrea  Researcher, ENEA

2) Telerilevamento
   Head: Flavio Parmiggiani – ISAO-CNR
   Staff:
   Flavio Parmiggiani  Researcher, ISAO-CNR
   Elena Arabini  Researcher, ISAO - CNR
   Samantha Melani  Researcher, ISAO - CNR

Date: November 11, 2008