

SHORT REPORT

SCAR SSG Geosciences (29.8.2014) Auckland, New Zealand

SPAIN

The updated status of Spanish Antarctic activities and contact data are available on the SCAR national committee web, Spain (<http://www.uam.es/cn-scar/>)

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1.Highlights of national Antarctic program in the field of geosciences

NATIONAL PROJECTS

Subject	Investigation	Locality	Duration	Principal Investigator
Marine geology and geophysics	* International data compilation	Drake Passage	2012-2013	F. Bohoyo
Geodesy	* Bathymetric chart * Volcanic activity monitoring * Thermal anomalies	Livingston and Deception islands	2012-2013	M. Berrocoso
Volcanology	* Volcanic risk * Contingency plans	Deception Island	2012-2013	A. Geyer
Geology	* Lithologic and chronostratigraphic studies * Volcanic and tectonic events dating	Deception Island, Port Foster	2012-2013	A. Maestro
Geology	* Active layer * Serial data CALM and TSP	Livingston and Deception islands	2012-2013	M.A. de Pablo
Sismology and Volcanology	* Seismic monitoring * Maintenance of permanent stations	Livingston and Deception islands	2012-2013	D. Stich
Geology	* Tectonic plates * Continental margins * Geophysical and structural data	Tierra de Fuego, Jubany, Greenwich Island, James Ross archipelago and Hope Bay	2012 -2014	F. Bohoyo
Marine geology	* Glacial evolution * Palaeoenvironmental changes	Data from Wilkes Land IODP	2012-2014	C. Escutia

Geology and Geomorphology	* Geomorphology and neotectonics	King George, Half Moon, Livingsgton and Deception islands	2012-2014	J. López-Martínez
	* Hydrology and Permafrost			
	* Remote sensing and Human impacts			
Marine geology	* Geodynamic evolution	Drake Passage, Scotia Sea, Bransfield Strait	2012-2014	A. Maldonado
	* Palaeoceanography			
	* Continental fragmentation			

Adresses available on www.uam.es/cn-scar

OTHER RELEVANT ACTIVITIES

Active Participation in the Past Antarctic Ice Sheet Dynamics (PAIS) SCAR Scientific Research Programme, (Dr. C. Escutia, co-chair).

Symposium: The Scotia Arc (Geodynamic evolution and Global implications), Granada (Spain) 14- 16 May 2013. Conveners: Maldonado, A., Dalziel, I. & Leat, P. Abstracts available:

http://www.uam.es/otros/cn-scar/pdf/ScotiaArcSymposium_2013_Abstract%20Volume.pdf

Special volume on Global and Planetary Change (in press):

<http://www.sciencedirect.com/science/journal/aip/09218181>

Compilation of bathymetric data of Drake Passage (Dr. F. Bohoyo) integrating Spanish, BAS (UK), Korean and USA data.

Application of Radarsat-2 satellite data to geomorphological studies in ice-free areas of the Antarctic Peninsula region (Dr. J. López-Martínez, project of the Canadian Space Agency).

Initiation of application to Antarctica of the researches about geological heritage carried out in different areas by the group of the University Autonoma of Madrid (Dr. J. López-Martínez group)

2.Suggestions for taking up new science initiatives in the field of geosciences

We suggest to encourage a discussion and possible collaborations on the following subjects:

Integration of detailed bathymetric data of Drake Passage.

Integrated studies to accurately constrain the age and model of development of Scotia Arc. This is a key region to understand the development of the main gateway during isolation of the Antarctica, but very wide uncertainties on the ages obtained by different

methods occur (in some areas with proposals comprised between 20 Ma to 50 Ma for the same basin).

3. Status of outreach programs on Antarctic activities in respective countries

5th Polar Marine Diatom Workshop will take place in Salamanca, Spain, 19-24 July, 2015 (organized by Dr. M. A. Bárcena)

<http://oceano.usal.es/?q=5th-polar-marine-diatom-workshopsalamanca-spain-19th-24th-july-2015>

Outreach included conferences, expositions and interviews. Details in www.uam.es/cn-scar .

4. Suggestions for planning workshops in future SCAR meetings in geoscience activities