

**United States of America  
National Report  
(Report #45)**

**to**

**Scientific Committee on Antarctic Research (SCAR)**

**Annual Report on US National Antarctic Scientific Activities  
Contributing to SCAR Programme Activities**

**1 January 2005 to 31 December 2005**

**1. Member Country**

Country name: USA

**2. National SCAR Committee**

Polar Research Board  
Division on Earth and Life Studies  
National Research Council  
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#### **4.1.1 Scientific Standing Group**

Names: [There will be up to 4 persons listed for each SSG]

E-mails

[provide full contact details under item 13, below]

#### **4.1.2 Action Group(s) [select from Annex 1]**

Group(s)

Names:

Members: [Ross Powell](#) (Northern Illinois University, USA), [Jan Boelhouwers](#) (Uppsala University, Sweden) IPA, [Warren Dickinson](#) (Victoria University, New Zealand), [Junko Mori](#), (Hokkaido University, Japan), [Enrique Serrano](#), (Universidad de Valladolid, Spain), [Ron Sletten](#), (University of Washington, USA)

#### **4.1.3 Expert Group(s) [select from Annex 1]**

#### **4.1.4 Scientific Research Programme(s) [select from Annex 1]**

Group: Antarctic Climate Evolution (ACE)

Names:

Robert B. Dunbar, Stanford University, (co-chair)

Robert M. DeConto, University of Massachusetts Amherst

Sandra Passchier, Montclair State University, NJ

Ross D. Powell, Northern Illinois University

### **4.2 Life Sciences**

#### **4.2.1 Scientific Standing Group**

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#### **4.2.2 Action Group(s) [select from Annex 1]**

#### **4.2.3 Expert Group(s) [select from Annex 1]**

#### **4.2.4 Scientific Research Programme(s) [select from Annex 1]**

### **4.3 Physical Sciences**

#### **4.3.1 Scientific Standing Group**

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#### **4.3.2 Action Group(s) [select from Annex 1]**

#### **4.3.3 Expert Group(s) [select from Annex 1]**

#### **4.3.4 Scientific Research Programme(s) [select from Annex 1]**

### **4.4 JCADM**

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### **4.5 SCAR Database**

#### **4.5.1 NADC**

#### **4.5.2 Database**

### **5. National Operating Agency**

Title: National Science Foundation, Office of Polar Programs  
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## **6. COMNAP Representative**

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## **7. SCALOP Representative**

Erick Chiang  
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## **8. Wintering Stations**

### ***Year-Round Stations:***

McMurdo Station, Ross Island, 77°55'S, 166°49'E  
Amundsen-Scott South Pole Station, South Pole, 90°S  
Palmer Station, Anvers Island, 64°46'S, 64°05'W

### ***Automatic Recording Stations/Observatories:***

McMurdo, 166.40° E, 77.51° S, Parameter Recorded: UV radiation  
Palmer, 64.03° W, 64.46° S, Parameter Recorded: UV radiation  
South Pole, 90.00° S, Parameter Recorded: UV radiation

### ***Automated Geophysical Observatories:***

Parameter Devices at each station: Rapid and Slow Magnamomers, Radio Receivers, All- Sky Cameras/Imagers, Riometers, Meteorology Equipment, Snow Accumulation  
AGO 1, 83.86° S, 129.61° E, Altitude 2865m  
AGO 2, 85.67° S, 133.62° W, Altitude 1860m  
AGO 3, 82.76° S, 28.58° E, Altitude 2912m  
AGO 4, 82.01° S, 96.76° E, Altitude 3565m  
AGO 5, 77.23° S, 123.52° E, Altitude 3084m  
AGO 6, 69.51° S, 130.0° E, Altitude 2560m  
.

## **9. Summer only Scientific Stations**

Siple Dome Camp, 81°39'S, 149°04'W  
Downstream Bravo Camp, 84°01'S, 155°00'W  
Ford Range Camp, 77°16'S, 142°27'W  
Cape Roberts Camp, 77.02°S, 163.12°E

## **10. Report on recent or ongoing activities relevant to SCAR groups listed in Annex 1 [Please provide scientific highlights]**

## **11. Report on planned new activities relevant to SCAR groups listed in Annex 1 [Please provide main priorities]**

## **12. Web site for description of national scientific programme activities**

<http://dels.nas.edu/prb/scar.shtml>

### 13. Full Address details

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### Annex 1. Main Scientific Research Projects of SCAR

<b>SCAR</b>			
<b>Disc.</b>	<b>Type</b>	<b>Acronym</b>	<b>Project Title</b>
Biol	SRP	EBA	Evolution of biodiversity in Antarctica
	SRP	SALE	Subglacial Antarctic Lake Exploration
	EG	-	Best Practices for Conservation
	EG	-	Biological Monitoring
	EG	CAML	Census of Antarctic Marine Life
	AG	-	Birds
	AG	-	Seals
	AG	-	Human Biology and Medicine
	Phys	SRP	AGCS
SRP		ICESTAR	Interhemispheric Conjugacy in Solar-Terrestrial and Aeronomy Research
AG		PASTA	Plateau Astronomy Site Testing in Antarctica
AG		MOSAK	Modelling and Observational Studies of Antarctic Katabatic Winds
EG		-	Oceanography
EG		AAA	Antarctic and Astronomy and Astrophysics
EG		-	Operational Meteorology in the Antarctic
EG		ISMAS	Ice Sheet Mass Balance and Sea Level
EG		-	Ice Drilling Technology
partnership		IGOS	Cryosphere Theme
Geo		SRP	ACE
	AG	-	Acoustics in the Marine Environment
	AG	-	Marine Survey Coordination
	EG	GI	Geographical Information
	EG	PPE	Permafrost and Periglacial Environments
	EG	GIANT	Geodetic Infrastructure of Antarctica
	EG	ANTEC	Antarctic Neotectonics
	EG	ADMAP	Antarctic Digital Magnetic Anomaly Project
	EG	IBCSO	International Bathymetric Chart of the Southern Ocean