

The SCAR Brochure

The draft SCAR brochure is tabled for the Executive Committee to comment.

The text of the brochure is intended to describe very briefly the major aspects of SCAR's science, science partnerships, administration and other activities. The pictures are simply examples to indicate both where they might be placed in the brochure and the kind of pictures that might be used to illustrate the Antarctic and SCAR's activities. These pictures were used because they were readily available and are not necessarily those that will be used in the final version. The aim of the world map is to indicate the extent of SCAR's membership. It is possible to identify individual national members on the map although the Associate Members are not easy to see. Alternative methods to show SCAR's membership could be a list of countries or a set of flags but neither of these would indicate the geographical extent of membership and many or most of the flags would not be known to most people.

The Executive Committee is asked particularly to check the accuracy of the text and to check for any major omissions.

The Secretariat would also welcome suggestions for alternative illustrations and would be very pleased if such suggestions could be accompanied by digital images.

The current draft of the brochure has been prepared in the Secretariat for the purpose of obtaining an estimate of printing costs. A local company, the *Digital Imaging Centre*, that printed a similar brochure for the IPY Office at BAS, has quoted as follows:

An A4 leaflet printed in full colour on both sides of 170 gsm silk art paper and folded to

DL size from computer files supplied by SCAR:	3000 copies	~\$867	~\$28.90 per 100
	5000 copies	~\$1,011	~\$20.22 per 100

Any major design work by the *Digital Imaging Centre* on the supplied computer files will be an additional charge.

Peter Clarkson
Acting Executive Officer

4 June 2007

Science Partnerships

ACAP – Advisory Committee to the Agreement on the Conservation of Albatrosses and Petrels

ATS – Antarctic Treaty System

CCAMLR – Commission for the Conservation of Antarctic Marine Living Resources

COMNAP – Council of Managers of National Antarctic Programmes
iAnZone – International (coordination of oceanographic research within the) Antarctic Zone

IASC – International Arctic Science Committee

ICED – Integrating Climate and Ecosystem Dynamics

ICSU – International Council for Science

IGOS-P – Integrated Global Observing Strategy Partnership

IPA – International Permafrost Association

IPICS – International Partnerships in Ice-Core Sciences

IWC – International Whaling Commission

SO-GLOBEC – Global Ocean Ecosystem Dynamics, Southern Ocean component

SCOR – Scientific Committee on Oceanic Research

SCOSTEP – Scientific Committee on Solar-Terrestrial Physics

WCRP – World Climate Research Programme



International cooperation in air transport to Dronning Maud Land

SCAR Management

SCAR DELEGATES

represent the Members and meet biennially to determine the overall strategy and science programme and to set the budget.

EXECUTIVE COMMITTEE

represents the Delegates and manages SCAR business intersessionally.



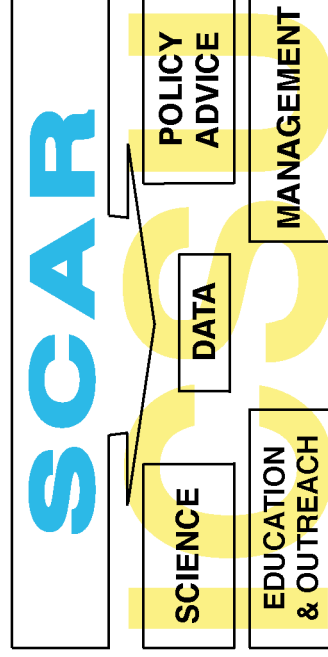
SCAR Executive Committee in session

STANDING SCIENTIFIC GROUPS (SSGS)

coordinate disciplinary scientific research across the Members and establish research groups to address specific scientific problems.

SCAR SECRETARIAT

serves as a contact point for the entire SCAR community. It helps communication between Members and the scientific groups and coordinates actions between disciplines.



SCAR Secretariat

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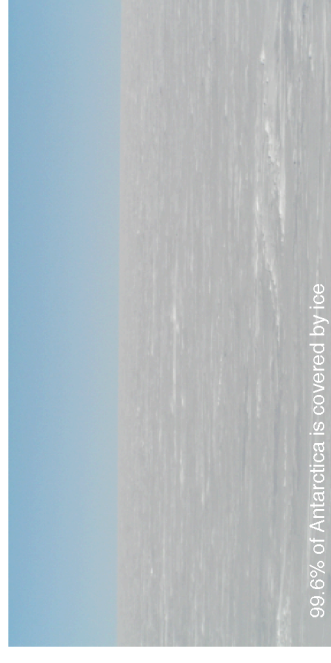
Scientific Committee on Antarctic Research

WHAT IS SCAR?

The Scientific Committee on Antarctic Research (SCAR) is an inter-disciplinary body of the International Council for Science (ICSU). SCAR is charged with initiating, developing, and coordinating high quality international scientific research in the Antarctic and providing independent scientific advice to the Antarctic Treaty System.

SCAR was established in 1958 to coordinate the Antarctic data from the International Geophysical Year (IGY) 1957–58. The original members were those 12 national scientific academies that had participated in the IGY: Argentina, Australia, Belgium, Chile, France, Japan, New Zealand, Norway, South Africa, Union of Soviet Socialist Republics, United Kingdom and United States of America. Seven ICSU Scientific Unions also joined SCAR as Union Members.

Since then, scientists from many countries have undertaken research in the Antarctic so that the national membership of SCAR has grown to 30 Full Members and 4 Associate Members and there are now 8 ICSU Union Members.



99.6% of Antarctica is covered by ice

SCAR Science: Major Research Programmes

PAST CLIMATE: ANTARCTIC CLIMATE EVOLUTION (ACE)

uses geological and palaeoclimate data and ice sheet models to study Antarctic climate and glacial history.

MODERN CLIMATE: ANTARCTICA IN THE GLOBAL CLIMATE SYSTEM (AGCS)

studies the nature of the atmospheric and oceanic linkages between the climate of the Antarctic and the rest of the Earth.

BIOLOGICAL RESPONSES: EVOLUTION AND BIODIVERSITY IN THE ANTARCTIC (EBA)

explores the evolutionary history of Antarctic biota, the influence of diversity on ecosystems, and the biota's response to change.



Skua flying over emperor penguins, Ekström Ice Shelf

UNDER THE ICE: SUBGLACIAL ANTARCTIC LAKE ENVIRONMENTS (SALE)

will explore the mysterious world of fresh water lakes and rivers under the Antarctic ice sheet.

SUN-EARTH INTERACTIONS: INTERHEMISPHERIC CONJUGACY EFFECTS IN SOLAR-TERRRESTRIAL AND AERONOMY RESEARCH (ICESTAR)

will study the effects of Sun–Earth interactions at both Poles, and the connections between upper and lower atmosphere.

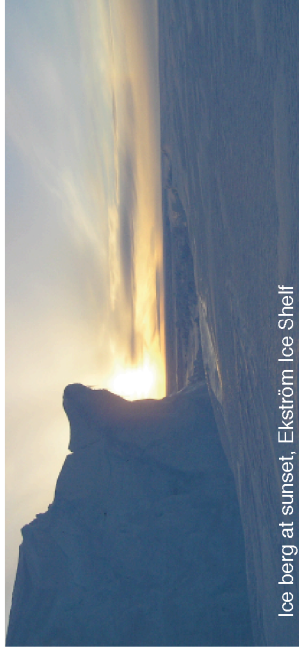


Atmospheric research at Neumayer Station

SCAR Science: other research areas

OCEAN AND ATMOSPHERE

- Acoustics in the Marine Environment
- Oceanography
- Census of Antarctic Marine Life (CAML)
- Continuous Plankton Recorder (CPR)
- Marine Biodiversity Information Network
- International Bathymetric Chart of the Southern Ocean
- Operational Meteorology



Ice berg at sunset, Ekström Ice Shelf

ICE AND ROCK

- Ice Sheet Mass Balance and Sea Level
- Permafrost and Periglacial Environments
- Ice Drilling Technologies
- Sub-Ice Geological Exploration
- Antarctic Neotectonics
- Geodetic Infrastructure of Antarctica
- Antarctic Digital Magnetic Anomaly Project

ENVIRONMENT AND MONITORING

- Biological Monitoring
- Birds & Seals
- Human Biology & Medicine
- Environmental Contamination
- Pan-Antarctic Observing Network
- King George Island Science Coordination
- Antarctic Astronomy & Astrophysics



Waste management at Shirmacherøasen

Information about SCAR science is available on the SCAR website: www.scar.org

Policy Advice

STANDING COMMITTEE ON ANTARCTIC TREATY SYSTEM (SC-ATS)

provides objective and independent scientific advice to the Antarctic Treaty Consultative Meeting (ATCM), the Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR) and the Advisory Committee to the Agreement on the Conservation of Albatrosses and Petrels (ACAP).

Data

JOINT COMMITTEE ON ANTARCTIC DATA MANAGEMENT (JCADM)

helps Members to develop and manage National Antarctic Data Centres and to make data available through the Antarctic Master Directory (AMD)

STANDING COMMITTEE ON ANTARCTIC GEOGRAPHIC INFORMATION (SC-AGI)

manages the Antarctic Digital Database (ADD), the Composite Gazetteer of Antarctica, the Antarctic Map Catalogue and the King George Island GIS project.

Education and Outreach

SCAR FELLOWSHIPS

encourage the active involvement of young scientists and engineers in Antarctic scientific research, and strengthen international capacity and cooperation.

STANDING COMMITTEE ON HISTORY OF ANTARCTIC RESEARCH

is investigating and documenting the development of Antarctic research in the context of SCAR.



Fieldwork in Wohlthatmassivet, Dronning Maud Land