

## SCAR BULLETIN No 145, April 2002

### SCAR Executive Committee Meeting Amsterdam, The Netherlands, 22–24 August 2001

#### Report of the Meeting

*Present:* R H Rutford, A C Rocha-Campos, J Valencia, A D M Walker, C G Rapley, R Schlich, P D Clarkson.

The President welcomed members to the meeting and expressed the thanks of the Executive Committee to Dr J H Stel, Manager of The Netherlands AntArctic Programme, and the Koninklijke Nederlandse Akademie van Wetenschappen (Royal Netherlands Academy of Arts and Sciences) for hosting the meeting in the delightful ambience of the library at The Trippenhuus in Amsterdam.

#### 1. Adoption of the Agenda

The Draft Agenda was adopted

#### 2. Membership of SCAR

At XXVI SCAR it was announced that Peru proposes to apply for Full Membership of SCAR. A requirement for Full Membership is that the adhering body, normally the national academy of science, should be a Full National Member of ICSU. Peru has now taken steps to achieve this and the Executive Board will recommend Peruvian membership to the 27th General Assembly of ICSU in Rio de Janeiro, September 2002. If the Peruvian membership of SCAR is approved in principle by Delegates at XXVII SCAR in July 2002 then Full Membership will take effect from the date of approval of membership of ICSU at the ICSU General Assembly.

Estonia has offered to withdraw from Associate Membership of SCAR. A formal notice of withdrawal has been requested from the Estonian Academy of Sciences. The Executive expressed regret that Estonia had been obliged to withdraw and noted that Estonia was preparing to expand its Antarctic activities. It was agreed that Estonia should remain on the SCAR mailing list.

#### 3. Report of the *ad hoc* Group on Transition

The draft report of the meeting held in Amsterdam, 20–22 August 2001 was tabled. The Executive adopted the report and will implement its proposals (see Appendix 1).

#### 4. Antarctic Data

The first two quarterly reports by the GCMD on progress with the development of the AMD had been received, together with covering reports by L Belbin, manager of the project and M R Thorley, Chairman of JCADM. The Executive found these reports very difficult to interpret and to gauge the progress made. The covering reports were helpful in this but the Executive still regarded the reporting situation as unsatisfactory.

It was agreed that SCAR should pay the first two quarterly instalments subject to the receipt of an itemized invoice, and to the approval of COMNAP. The Executive also agreed that payment of future instalments would be subject to the receipt of satisfactory, comprehensible reports.

At the joint meeting of the SCAR and COMNAP Executive Committees (see Appendix), the COMNAP Executive agreed with the proposed course of action.

#### 5. COMNAP and SCALOP

A joint meeting of the SCAR and COMNAP Executive Committees was held on 22 August 2001. A report of this meeting is given in the Appendix.

#### 6. Groups of Specialists

##### *6.1 Environmental Affairs and Conservation (GOSEAC)*

The Executive agreed that GOSEAC should meet early in 2002. The Group should have a substantial agenda with matters arising from XXIV ATCM, including the consideration of 11 revised management plans for protected areas, and the completion of the scoping exercise for the State of the Antarctic Environment Report.

##### *6.2 Seals*

The Executive noted that the Antarctic Pack Ice Seals (APIS) programme was now in the data analysis stage. The results of this programme were eagerly awaited as the population statistics for the Ross Seal were necessary to complete the advice to the Antarctic Treaty on the case for continued Specially Protected status for this species.

### 6.3 *Antarctic Neotectonics (ANTEC)*

The Executive had received verbal reports of the progress being made by the Group of Specialists and looked forward to receiving a written report in due course. It was noted with satisfaction that the combined inputs from geodesists, geologists and geophysicists were proving to be particularly successful.

### 6.4 *Subglacial Antarctic Lake Exploration (SALE)*

The Group of Specialists had been established by Delegates at XXVI SCAR, July 2000, but there had been difficulties finalizing the membership so that initial progress had been very slow. J C Priscu, co-convenor, had established a website and a list server for the group. A half-day workshop on subglacial lakes will be held in Amsterdam on 25 August 2001 in conjunction with the SCAR Biology Symposium. The Group of Specialists will hold a formal meeting in Bologna, Italy, 16–18 September 2001.

H Miller had resigned as co-convenor of the group. J C Priscu will continue as Convenor. M C Kennicutt will continue as Secretary and will also act as Deputy Convenor as required.

### 6.5 *Global Change and the Antarctic (GLOCHANT)*

The President welcomed A H L Huiskes, acting Convenor of GLOCHANT, to the meeting. He presented the report of the GLOCHANT VIII meeting held in October 2000 and reported on subsequent developments.

The Executive agreed to the following changes to membership of the Group of Specialists: M Lange to represent IASC and C Schlüchter to represent IGBP; J Turner (Working Group on Physics and Chemistry of the Atmosphere), A C Clarke (EASIZ programme), T H Jacka (ISMAS programme), and I D Goodwin (ANTIME and ITASE programmes) to be members of the Group. The Executive also agreed that A H L Huiskes should continue as Acting Convenor until XXVII SCAR.

The Executive noted that GLOCHANT will have run for 10 years by XXVII SCAR which is the normal life-span for a Group of Specialists. In addition, the implementation of the changes under the SCAR re-organization will mean that there will inevitably be some re-structuring of the whole SCAR global change programme.

The Acting Convenor was asked to encourage the contributors to the SCAR global change synthesis volume to ensure they completed their chapters in time for a draft to be tabled at XXVII SCAR.

The Executive noted the request from the Climate and Cryosphere (CLIC) programme for SCAR co-sponsorship. It was agreed that SCAR should co-sponsor the programme and that the relevant Working Groups should be asked to develop an appropriate programme for providing an Antarctic contribution.

## 7. Working Groups

There were no formal reports from the Working Groups but the Executive recalled various ongoing activities. The discussion focused on the practical measures necessary

to integrate the existing Working Groups into the new structure of three disciplinary Scientific Standing Groups (Geosciences, Life Sciences and Physical Sciences) that will be formed at XXVII SCAR. The Executive Secretary will expand the outline arrangements, proposed by the *ad hoc* Group on Transition and adopted by the Executive, into a set of guidelines for Chief Officers that will be distributed in March 2002.

## 8. SCAR Meetings

### 8.1 XXVII SCAR

Copies of the First Circular for XXVII SCAR, Shanghai, China, 15–26 July 2002, were distributed during the Executive Meeting. Copies were also being sent by mail during August 2001 and the information will be available shortly on the XXVII SCAR website <<http://www.scar27.org>>. In due course it will be possible to register for the meeting via the website. The President and Executive Secretary met with members of the Local Organizing Committee who will also visit the SCAR Secretariat for further discussions on detailed arrangements.

### 8.2 XXVIII SCAR

The pattern of events for the XXVIII SCAR meeting to be held in Bremerhaven during 2004 had now been established. This will comprise a one-week meeting in June or July 2004 during which there will be a two-day science symposium and the Scientific Standing Groups will meet. The Meeting of SCAR Delegates will be held three months later at a venue to be determined.

## 9. Antarctic Treaty Meetings

### 9.1 XII ATSCM, The Hague

The SCAR Observers' Report of XII ATSCM was tabled.

### 9.2 XXIV ATCM, St Petersburg

The President reported on events at the meeting, noting particularly that consensus had been achieved on the establishment of an Antarctic Treaty Secretariat to be located in Buenos Aires, Argentina. He noted that modalities for the operation of the Secretariat and the method of funding the Secretariat had still to be agreed.

The President also reported on the requests that had been made to SCAR. These included the completion of the scoping exercise for the State of the Antarctic Environment Report, and advice to COMNAP on scientific aspects of "worst case" and other scenarios for environmental incidents that COMNAP would contribute to the discussions on the development of an annex on environmental liability to the Protocol. SCAR will also contribute to the intersessional contact groups that will examine the eleven revised management plans for protected areas. SCAR should also provide advice on species to be considered for listing as Specially Protected Species under Annex II to the Protocol. It was noted that

the protection for Antarctic meteorites requested by SCAR was adopted as a Resolution rather than a Measure and was not as robust as SCAR would have liked. SCAR should also consider further matters such as cumulative impacts and the practical interpretation of the term “dependent and/or associated ecosystems”. SCAR expressed concern at the proposal to drill a further 50 m in the existing hole above Lake Vostok.

### **9.3 XXV ATCM**

XXV ATCM is scheduled to be held in Warsaw, Poland, 3–14 September 2002. These dates have still to be confirmed.

## **10. Relationships with ICSU bodies**

### **10.1 ICSU**

The SCAR Report to ICSU for 2000 was tabled for information. It was noted that the Executive Director of ICSU had recently resigned.

### **10.2 SCOR (and IOC in Southern Ocean)**

The President of SCAR met with the President of SCOR, Professor R A Duce, in April 2001 and issued a joint statement on cooperation between SCAR and SCOR and collaboration with SCAR, SCOR and IOC on coordination of research in the Southern Ocean. SCAR has been invited to attend the SCOR Executive Committee Meeting to be held in Mar del Plata, Argentina, during the IAPSO/IABO Joint Scientific Assembly, 21–28 October 2001, and the President proposed to attend the meeting. This was seen as a valuable development to strengthen links between SCAR and the oceanographic organizations. The Executive noted that the *ad hoc* Group on Transition had proposed that there should be an oceanographic group within the new Scientific Standing Group on Physical Sciences.

## **11. Relationships with other bodies**

### **11.1 IASC**

It was noted that SCAR was not represented at the recent meeting of the IASC Council Meeting. The Executive Secretary was asked to contact the IASC Secretariat to determine if there were items of interest to SCAR from the meeting.

### **11.2 GIWA**

SCAR was invited to participate in the GIWA Methods Training Workshop in Bangkok, Thailand, in May/June 2001. The original invitation was to Dr D W H Walton who was unable to attend. Dr C Howard-Williams (New Zealand) expressed his interest and intention to attend the workshop. In the event, the workshop was postponed but confirmation of the new dates was so late in coming that Dr Howard-Williams was unable to re-arrange his schedule and there was no time to find an alternative SCAR representative. As a result, SCAR was not represented but Dr Howard-Williams is continuing to monitor developments.

### **11.3 UNEP**

UNEP invited SCAR to contribute to a Regionally-Based Assessment of Persistent Toxic Substances. Dr J H Priddle agreed to undertake this project for the Antarctic region and will be submitting a report at the end of November 2001. The commitment is to report on the extent and availability of data for the Antarctic region.

### **11.4 TEA**

Teachers Experiencing the Antarctic and Arctic is a major United States educational programme. The organizers wish to expand the programme outside the United States and are requesting an opportunity to make one or two presentations at XXVII SCAR in Shanghai. While the Executive welcomed this initiative it was agreed that a poster display would be more appropriate than a verbal presentation. The President offered to write to the US Polar Research Board confirming this decision.

## **12. Finance**

### **12.1 2000 Financial Statements**

The SCAR Financial Statements for 2000 were tabled. After some explanation and improvement of the presentation, the Executive adopted the statements.

### **12.2 2001 and 2002 Budgets**

The SCAR Budget for 2001 showing income and expenditure to date was tabled. The budget was revised to accommodate additional expenditure that had been agreed since XXVI SCAR. It was noted that the budget allocations for a number of activities had yet to be paid and the Executive Secretary was asked to determine the status of these.

The Budget for 2002 was tabled for review. The decision on whether or not to fund a request for new activity was deferred until more information has been received.

### **12.3 National Contributions**

The current status of National contributions to SCAR for 2001 was tabled and the Executive Secretary reported on current status of arrears in contributions. It was noted with satisfaction that some members with serious arrears in contributions had made positive steps to clear these. The Executive noted that one National Committee had been making reduced annual payments. It was agreed that the deficits should be aggregated and the National Committee advised of its total outstanding contributions. If the total of outstanding arrears reaches the equivalent of 3 years contributions the National Committee shall be asked if it wishes either to transfer to Associate Membership or to withdraw from SCAR.

### **12.4 ICSU grant for 2000**

The report of the ICSU grant to SCAR for 2000 was tabled for information. The Executive congratulated Y Le Maho and his colleagues on the research undertaken with the grant.

### 12.5 *Increased levels of Funding*

There was considerable discussion on possible methods for increasing the overall annual income of SCAR. There is some urgency for this increase as the recommendations for re-organization are implemented, especially with respect to the appointment of an Executive Director.

#### Acronyms and Abbreviations

ANTEC	Group of Specialists on Antarctic Neotectonics
ATCM	Antarctic Treaty Consultative Meeting
ATSCM	Antarctic Treaty Special Consultative Meeting
COMNAP	Council of Managers of National Antarctic Programmes
GIWA	Global International Waters Assessment
GLOCHANT	Group of Specialists on Global Change and the Antarctic

GOSEAC	Group of Specialists on Environmental Affairs and Conservation
IABO	International Association for Biological Oceanography
IAPSO	International Association for the Physical Sciences of the Ocean
IASC	International Arctic Science Committee
ICSU	International Council for Science
IOC	Intergovernmental Oceanographic Commission
SALE	Group of Specialists on Subglacial Antarctic Lake Exploration
SCALOP	Standing Committee on Antarctic Logistics and Operations
SCAR	Scientific Committee on Antarctic Research
SCOR	Scientific Committee on Oceanic Research
TEA	Teachers Experiencing Antarctica and the Arctic
UNEP	United Nations Environment Programme

## Appendix 1

### Report of a Joint Meeting of the SCAR and COMNAP Executive Committees Amsterdam, The Netherlands, 22 August 2001

*Present for SCAR:* R H Rutford, A C Rocha-Campos, J Valencia, A D M Walker, C G Rapley, R Schlich, P D Clarkson.

*Present for COMNAP:* G S Wratt, K Erb, P Eberhard, G Jugie, J A C Sayers

#### 1. Chair's Introduction

The President of SCAR, Dr R H Rutford, as host of the meeting, welcomed everyone and then passed the Chair to the Chair of COMNAP, Ms G S Wratt.

#### 2. Antarctic Data Management

##### 2.1 Progress Reports

The Executive Secretary of SCAR reported that two reports had been received from the Global Change Master Directory (GCMD) for the first two quarters of the contract to develop the Antarctic Master Directory (AMD) on behalf of SCAR and COMNAP. These were accompanied by covering statements from L Belbin, as manager for the project, and M R Thorley, as Chairman of the Joint Committee on Antarctic Data Management (JCADM). The SCAR Executive Committee was disappointed with the reports from JCADM in that they did not address outputs in terms of user requirements but believed, on the basis of M R Thorley's statement, that progress had been made according to the schedule.

##### 2.2 Contract/Payments Status

The Executive Secretary of SCAR reported that the SCAR Executive Committee had decided that the first two instalments should be paid subject to the receipt of a formal invoice. However, he emphasized that, as this was a joint contract on behalf of both SCAR and COMNAP, that no payments would be made without the agreement of COMNAP. He also said that SCAR would stipulate that further payments would be conditional on the receipt of more meaningful reports. It was noted that the reports should describe outputs rather than inputs and that an account of the number of "visits" to the AMD would be a valuable guide to the current usefulness of the Directory. Both the SCAR and COMNAP Executives agreed that the first two quarters should be paid according to the conditions described above.

##### 2.3 Steering Committee

COMNAP noted the agreement from Tokyo to continue with a steering committee for the contract with two members from each of SCAR and COMNAP with the Chairman of JCADM as an ex-officio. COMNAP has seen this as a project to be lead by SCAR as it is targeted at delivering a service to the science community, and has been awaiting SCAR appointment of its members to the committee before identifying COMNAP members. A steering committee is necessary because JCADM is a network of NADC managers, and a group including user

representation is needed for oversight of the contract. Both SCAR and COMNAP agreed to appoint two members to the Steering Committee under the chairmanship of SCAR.

### **3. Joint COMNAP/SCAR ATCM/CEP Tasks**

#### **3.1 Liability Accident Scenarios**

Ms Wratt, reported on the request from the XXIV Antarctic Treaty Consultative Meeting (ATCM) for COMNAP, in consultation with SCAR, to provide examples of “worst case” and other scenarios of environmental accidents in Antarctica.

*Extract from the Draft Final Report of XXIV ATCM*

(73) The meeting thanked COMNAP and SCAR for their work and welcomed their offer to continue to provide input to the liability discussions. The Meeting requested COMNAP in consultation with SCAR to provide the following information in respect of national programme operations, for the purpose of establishing limits on financial liability, compensation and insurability:

- (a) “Worst case scenarios” for land-based and sea-based environmental emergencies in the Antarctic Treaty Area including the probability of occurrence and estimated cost for response action;
- (b) For the purposes of illustration, a range of scenarios less than worst case that might result in environmental impacts, including probability of occurrence and estimated cost of the response actions;
- (c) Scenarios similar to those in (a) and (b) for which response action would not be possible.

In considering “worst case scenarios” COMNAP asked SCAR to provide scientific advice in a hypothetical case where rats might invade and breed on an island in the South Shetland Islands. SCAR agreed to do this.

### **4. SCAR/COMNAP Meetings in Shanghai**

#### **4.1 Status of Arrangements**

R H Rutherford reported that the XXVII SCAR Meeting would be held in the traditional format with one exception. During the first week the existing Working Groups will transform themselves into three Standing Science Groups as the first major step in the re-organization SCAR. The Groups of Specialists will be accommodated within the new Standing Science Groups as appropriate. COMNAP will meet during the first week of the meeting and the two Executive Committees will arrange a joint meeting during that week..

#### **4.2 Is there a need for a Joint Science Workshop?**

G S Wratt posed this question. R H Rutherford suggested that the restructuring of the current Working Groups at XXVII SCAR would make the scheduling of a joint workshop very difficult. He noted that a half-day symposium on climate

change was already planned and that some groups were already planning other small symposia. It was suggested that Exec Secretaries co-ordinate the timing of the climate change workshop and the COMNAP programme for the week to enable COMNAP members to attend the workshop.

### **5. Subglacial Lakes Exploration**

#### **5.1 Amsterdam Workshop**

The meeting noted that there would be a half-day workshop on subglacial lakes on 25 August 2001 immediately prior to the SCAR Biology Symposium in Amsterdam, 27–31 August 2001.

#### **5.2 Future Workshops**

The meeting noted that the SCAR Group of Specialists on Subglacial Antarctic Lake Exploration (SALE) will hold a formal meeting in Bologna, Italy, 16–18 September 2001. No further workshops were currently planned although there would undoubtedly be more as more data were collected and the science and implementation plans develop.

#### **5.3 COMNAP Role**

G S Wratt reported that subglacial lake exploration will continue to be an item for discussion on the COMNAP plenary agenda.

### **6. SCAR**

#### **6.1 Status of Re-structure**

R H Rutherford reported on the plans for implementing the Operating Group structure at XXVII SCAR. He noted that this would not affect the standard arrangements for the joint meeting of the SCAR and COMNAP Executive Committees.

#### **6.2 Future SCAR–COMNAP Interaction**

The meeting agreed that the SCAR Executive Committee would continue to meet in conjunction with the COMNAP Meeting during odd-numbered (non-SCAR) years.

#### **6.3 2004 SCAR and COMNAP Meetings**

R H Rutherford explained that the XXVIII SCAR Meeting in Germany during 2004 would be separated into a one-week SCAR Science Meeting during June/July followed about 3 months later by the Delegates Meeting at a venue still to be determined. G S Wratt suggested that COMNAP would wish to meet in conjunction with the SCAR Science Meeting. Consideration could be given to having the COMNAP EXCOM at the same time/venue as the SCAR Delegates Meeting.

### **7. Medical Standards**

K Erb noted that it would be helpful if, when an individual from one national programme is accepted into another national programme, the extent of the medical screening that the individual had received could be made available to the host programme.

He explained that the aim was not to standardize medical screening procedures but to circulate details of the medical screening procedures that had been performed. The host programme would then be able to undertake only those additional screening procedures to meet the requirements for screening of its own personnel. There was no intention to compromise medical confidentiality. R H Rutford suggested that the SCAR Working Group on Human Biology and Medicine may have information and experience that would assist COMNAP in this field.

**8. Interaction between SCAR, COMNAP & ATCM Secretariat**

The meeting agreed that when the ATCM Secretariat is operational it will considerably facilitate interaction for SCAR and COMNAP with the Antarctic Treaty. The meeting agreed that it would be appropriate for both SCAR and COMNAP to write to Argentina offering congratulations on hosting the Secretariat.

R H Rutford reported that the CEP is planning to undertake a rolling review of the Annexes to the Protocol, beginning with Annex II on Conservation of Antarctic Fauna and Flora. He suggested that SCAR and COMNAP should both be involved in this process but that it was not yet clear how and when this would begin.

**9. Any other business**

There was some discussion on what activities might be promoted to celebrate the 50<sup>th</sup> Anniversary of the International Geophysical Year in 2007–08. It was agreed to investigate what plans ICSU may have. The meeting heard that there is widespread public interest in all matters pertaining to the Antarctic, particularly amongst children.

G S Wratt informed the meeting that the COMNAP TRAINET workshop of national programme training officers held prior to the COMNAP meeting was a useful exercise in comparing training activities between programme. COMNAP is also considering holding an INFONET workshop of national programme information and publicity officers in conjunction with the Shanghai meeting. The possibility of preparing joint SCAR–COMNAP publicity materials was suggested but no decision was made.

**10. Close**

G S Wratt thanked the members for attending and declared the meeting closed.

**Acronyms and Abbreviations**

AMD	Antarctic Master Directory
ATCM	Antarctic Treaty Consultative Meeting
CEP	Committee for Environmental Protection
COMNAP	Council of Managers of National Antarctic Programmes
GCMD	Global Change Master Directory
ICSU	International Council for Science
IGY	International Geophysical Year
INFONET	Information and Publicity Officers Network
JCADM	Joint Committee on Antarctic Data Management
SALE	Group of Specialists on Subglacial Antarctic Lake Exploration
SCAR	Scientific Committee on Antarctic Research
TRAINET	Training Officers Network

## Stations of SCAR Nations operating in the Antarctic Winter 2001

Stations are numbered clockwise from the Greenwich Meridian

\*Stations north of 60°S †Stations on King George Island

### *Argentina*

40	Belgrano II	77°52'29"S	34°37'37"W
35	Esperanza	63°23'42"S	56°59'46"W
31	†Jubany	62°14'16"S	58°39'52"W
36	Marambio	64°14'42"S	56°39'25"W
37	Orcadas	60°44'20"S	44°44'17"W
21	San Martin	68°07'47"S	67°06'12"W

### *Australia*

15	Casey	66°17'00"S	110°31'11"E
12	Davis	68°34'38"S	77°58'21"E
17	*Macquarie Island	54°29'58"S	158°56'09"E
8	Mawson	67°36'17"S	62°52'15"E

### *Brazil*

33	†Comandante Ferraz	62°05'00"S	58°23'28"W
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### *Chile*

24	Capitan Arturo Prat	62°30'S	59°41'W
34	General Bernardo O'Higgins	63°19'15"S	57°54'01"W
25	†Presidente Eduardo Frei	62°12'00"S	58°57'51"W
26	†Escudero	62°12'04"S	58°57'45"W

### *China*

27	†Great Wall	62°12'59"S	58°57'44"W
10	Zhongshan	69°22'16"S	76°23'13"E

### *France*

7	*Alfred Faure, Iles Crozet	46°25'48"S	51°51'40"E
16	Dumont d'Urville	66°39'46"S	140°00'05"E
11	*Martin de Viviers, Ile Amsterdam	37°49'48"S	77°34'12"E
9	*Port aux Français, Iles Kerguelen	49°21'05"S	70°12'20"E

### *Germany*

43	Neumayer	70°38'00"S	08°15'48"W
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### *India*

2	Maitri	70°45'57"S	11°44'09"E
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### *Japan*

5	Syowa	69°00'25"S	39°35'01"E
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### *Korea*

30	†King Sejong	62°13'24"S	58°47'21"W
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### *New Zealand*

19	Scott Base	77°51'00"S	166°45'46"E
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### *Poland*

32	†Arctowski	62°09'34"S	58°28'15"W
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### *Russia*

28	†Bellingshausen	62°11'47"S	58°57'39"W
13	Mirny	66°33'07"S	93°00'53"E
6	Molodezhnaya	67°40'18"S	45°51'21"E
3	Novolazarevskaya	70°46'26"S	11°51'54"E
14	Vostok	78°28'S	106°48'E

### *South Africa*

42	*Gough Island	40°21'56"S	09°52'00"W
4	*Marion Island	46°52'34"S	37°51'32"E
44	SANAE	71°40'25"S	02°49'44"W

### *Ukraine*

22	Vernadsky	65°14'43"S	64°15'24"W
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### *United Kingdom*

38	*Bird Island, South Georgia	54°00'31"S	38°03'08"W
39	*King Edward Point, South Georgia	54°17'00"S	36°29'37"W
41	Halley	75°35'54"S	26°32'28"W
20	Rothera	67°34'10"S	68°07'12"W

### *United States*

1	Amundsen-Scott	89°59'51"S	139°16'23"E
18	McMurdo	77°50'53"S	166°40'06"E
23	Palmer	64°46'30"S	64°03'04"W

### *Uruguay*

29	†Artigas	62°11'04"S	58°54'09"W
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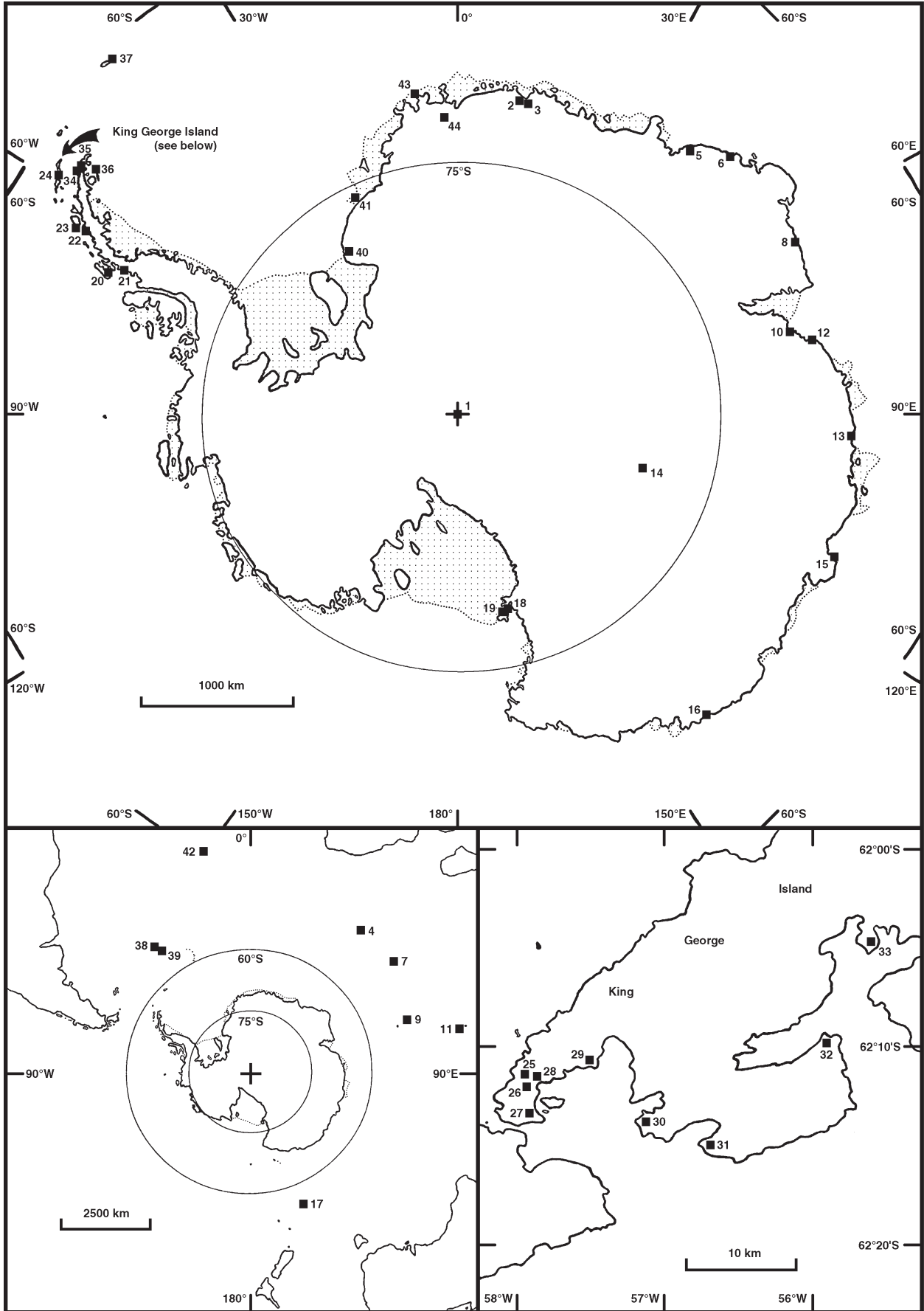
**Stations of SCAR Nations operating in the Antarctic,  
Winter 2001**

Stations are numbered clockwise from the Greenwich Meridian.

\*Stations north of 60°S    †Stations on King George Island

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2	Maitri	India	70°45'57"S	11°44'09"E
3	Novolazarevskaya	Russia	70°46'26"S	11°51'54"E
4	*Marion Island	South Africa	46°52'34"S	37°51'32"E
5	Syowa	Japan	69°00'25"S	39°35'01"E
6	Molodezhnaya	Russia	67°40'18"S	45°51'21"E
7	*Alfred Faure, Iles Crozet	France	46°25'48"S	51°51'40"E
8	Mawson	Australia	67°36'17"S	62°52'15"E
9	*Port aux Français, Iles Kerguelen	France	49°21'05"S	70°12'20"E
10	Zhongshan	China	69°22'16"S	76°23'13"E
11	*Martin de Viviès, Ile Amsterdam	France	37°49'48"S	77°34'12"E
12	Davis	Australia	68°34'38"S	77°58'21"E
13	Mirny	Russia	66°33'07"S	93°00'53"E
14	Vostok	Russia	78°28'S	106°48'E
15	Casey	Australia	66°17'00"S	110°31'11"E
16	Dumont d'Urville	France	66°39'46"S	140°00'05"E
17	*Macquarie Island	Australia	54°29'58"S	158°56'09"E
18	McMurdo	United States	77°50'53"S	166°40'06"E
19	Scott Base	New Zealand	77°51'00"S	166°45'46"E
20	Rothera	United Kingdom	67°34'10"S	68°07'12"W
21	San Martin	Argentina	68°07'47"S	67°06'12"W
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25	*Presidente Eduardo Frei	Chile	62°12'00"S	58°57'51"W
26	*Escudero	Chile	62°12'04"S	58°57'45"W
27	*Great Wall	China	62°12'59"S	58°57'44"W
28	*Bellingshausen	Russia	62°11'47"S	58°57'39"W
29	*Artigas	Uruguay	62°11'04"S	58°54'09"W
30	*King Sejong	Korea	62°13'24"S	58°47'21"W
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32	*Arctowski	Poland	62°09'34"S	58°28'15"W
33	*Comandante Ferraz	Brazil	62°05'00"S	58°23'28"W
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37	Orcadas	Argentina	60°44'20"S	44°44'17"W
38	*Bird Island	United Kingdom	54°00'31"S	38°03'08"W
39	*King Edward Point	United Kingdom	54°17'00"S	36°29'37"W
40	Belgrano II	Argentina	77°52'29"S	34°37'37"W
41	Halley	United Kingdom	75°34'54"S	26°32'28"W
42	*Gough Island	South Africa	40°21'56"S	09°52'00"W
43	Neumayer	Germany	70°38'00"S	08°15'48"W
44	SANAE	South Africa	71°40'25"S	02°49'44"W





## NOTICES

### XXVII SCAR

The Twenty-seventh Meeting of the Scientific Committee on Antarctic Research will be held in Shanghai, China, 15–26 July 2002. The first week will include the meetings of SCAR sub-groups and the SCAR Delegates Meeting will be held during the second week.

The Council of Managers of National Antarctic Programmes (COMNAP) will hold its Fourteenth Annual Meeting (COMNAP XIV) during the first week together with its sub-groups.

Intending participants are encouraged to register as soon as possible on the Meeting Website

<http://www.scar27.org>

where further details may also be found.

### XXV ATCM

The Twenty-fifth Antarctic Treaty Consultative Meeting, including the Fifth Meeting of the Committee for Environmental Protection, is scheduled to be held in Warsaw, Poland, 10–20 September 2002.

### List of SCAR and some SCAR-related Websites

#### Scientific Committee on Antarctic Research

SCAR home page	<a href="http://www.scar.org">http://www.scar.org</a>
XXVII SCAR Meeting	<a href="http://www.scar27.org">http://www.scar27.org</a>
Antarctic Digital Database	<a href="http://www.nerc-bas.ac.uk/public/magic/add_home.html">http://www.nerc-bas.ac.uk/public/magic/add_home.html</a>
Composite Gazetteer of Antarctica	<a href="http://www.pnra.it/SCAR_GAZE">http://www.pnra.it/SCAR_GAZE</a>

#### Working Groups

Biology	<a href="http://www.up.ac.za/academic/zoology/scar/webcon.htm">http://www.up.ac.za/academic/zoology/scar/webcon.htm</a>
Geodesy and Geographic Information	<a href="http://www.scar-ggi.org.au/">http://www.scar-ggi.org.au/</a>
Glaciology	<a href="http://www.spri.cam.ac.uk/scar/wwg.htm">http://www.spri.cam.ac.uk/scar/wwg.htm</a>
Physics and Chemistry of the Atmosphere	<a href="http://www-bprc.mps.ohio-state.edu/paca/">http://www-bprc.mps.ohio-state.edu/paca/</a>
Solar-Terrestrial & Astrophysical Research	<a href="http://www.sprl.umich.edu/MIST/star/starwg.html">http://www.sprl.umich.edu/MIST/star/starwg.html</a>

#### Groups of Specialists

Antarctic Neotectonics	<a href="http://www.scar-ggi.org.au/geodesy/antec/antec.htm">http://www.scar-ggi.org.au/geodesy/antec/antec.htm</a>
Global Change and the Antarctic	<a href="http://www.scar.org/GLOCHANT/glochant_home.htm">http://www.scar.org/GLOCHANT/glochant_home.htm</a>
Subglacial Antarctic Lake Exploration	<a href="http://salegos-scar.montana.edu/">http://salegos-scar.montana.edu/</a>

#### Council of Managers of National Antarctic Programmes

COMNAP home page	<a href="http://www.comnap.aq">http://www.comnap.aq</a>
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#### SCAR-COMNAP Joint Committee on Antarctic Data Management

JCADM home page	<a href="http://www.jcadm.scar.org">http://www.jcadm.scar.org</a>
Antarctic Master Directory	<a href="http://gcmd.nasa.gov/amd/ft_search.html">http://gcmd.nasa.gov/amd/ft_search.html</a>

## Forthcoming Events

### Events 2002 which may be of interest to the SCAR community

#### **ISOPE 2002: The 12th International Offshore and Polar Engineering Conference & Exhibition**

*Date and Place:* 26-31 May 2002, KitaKyushu, Japan      *Type of Event:* Conference/ Exhibition

*Theme(s):* Offshore Technology and Ocean Engineering, Geotechnical Engineering, Ocean & Polar Environments, Offshore Mechanics, Coastal Engineering, Ice/Polar Engineering & Science, Materials, Tubular Structures & Welding, Advanced Ship Technology, Underwater Systems

*Organised by:* International Society of Offshore and Polar Engineers (ISOPE)

*Contact:* Website: [www.isopec.org](http://www.isopec.org) E-mail: [meetings@isopec.org](mailto:meetings@isopec.org)

#### **AGU Spring Meeting**

*Date and Place:* 28 - 31 May 2002, Washington D.C., USA      *Type of Event:* Meeting

*Theme(s):* Ice Sheets, Neotectonics and Sea-level Change. Contributions related to Antarctic neotectonics - its ice sheet history and present balance, the ensuing glacio-isostatic response, including crustal motion and sea - level change and patterns of seismicity and their relation to ice sheet balance - are especially welcomed.

*Organised by:* The American Geophysical Union (AGU)

*Contact:* Website: [www.agu.org/meetings/sm02top.html](http://www.agu.org/meetings/sm02top.html)

#### **The Seventh Circumpolar Symposium on Remote Sensing of Polar Environments.**

*Date and Place:* 24 - 27 June 2002, Longyearbyen, Svalbard, Norway      *Type of Event:* Conference

*Theme(s):* The three day conference will focus on remote sensing applications in polar environments and will provide a unique forum for professionals to learn about, and share knowledge in work currently being carried out in the circumpolar regions. We also welcome papers on remote sensing of the polar atmosphere using ground based instruments.

*Organised by:* UNIS, Norsk Polarinstitutt, Tromsø Satellite Station

*Contact:* Website <http://www.npolar.no/CircumPolar2002/> or <http://www.unis.no/>

#### **2002 Western Pacific Geophysics Meeting**

*Date and Place:* 9 - 12 July 2002, Wellington, New Zealand      *Type of Event:* Meeting

*Theme(s):* Rheology and Deformation Along Major Plate Boundaries. Climate Variability and Change and Implications for the Antarctic and Pacific. Space Weather - Impacts and Prediction. Cities on Active Faults.

*Organised by:* American Geophysical Union (AGU)

*Contact:* AGU Meetings Department, 2002 Western Pacific Geophysics Meeting, 2000 Florida Avenue, NW, Washington, DC 20009. Phone: +1-202-462-6900 Fax: +1-202-328-056 E-mail: [meetinginfo@agu.org](mailto:meetinginfo@agu.org) Website: [www.agu.org/meetings/wp02top.html](http://www.agu.org/meetings/wp02top.html)

#### **SCI 2002 Session in Astrogeoparticle Physics: Solar-Terrestrial Relationship, Part of the Sixth Multi-Conference on Systemics, Cybernetics and Informatics**

*Date and Place:* 14-18 July 2002, Orlando Florida, USA.      *Type of Event:* Session/ Conference

*Theme(s):* Session themes: Solar Terrestrial Relationships, mainly Climate and Weather of the Sun Earth System related to Antarctica.

*Organised by:* The International Institute of Informatics and Systemics (IIS)

*Contact:* Website: [www.iiis.org/sci2002/](http://www.iiis.org/sci2002/) or [www.iiisci.org/sci2002/](http://www.iiisci.org/sci2002/)

#### **URSI XXVII General Assembly**

*Date and Place:* 17-24 August 2002, Maastricht, The Netherlands      *Type of Event:* General Assembly

*Theme(s):* Electromagnetic Metrology, Fields and Waves, signals and Systems, Electronics and Photonics, Electromagnetic Noise and Interference, Wave Propagation and Remote Sensing, Ionospheric Radio and Propagation, Waves in Plasmas, Radio Astronomy, Electromagnetics in Biology and Medicine

*Organised by:* International Union of Radio Science

*Contact:* Conference website: [www.ursi-ga2002.nl](http://www.ursi-ga2002.nl)

**GLOBEC (Global Ocean Ecosystem Dynamics) Second Open Science Meeting (followed by XI PICES annual Science Conference)**

*Date and Place:* 15-18 October 2002, Qingdao, P.R. of China    *Type of Event:* Meeting

*Theme(s):* Goal of GLOBEC - Functioning of the global ocean ecosystem, its major subsystems, and its response to physical forcing to enable forecasting of the responses of the marine ecosystem to global change.

*Organised by:* GLOBEC, IGBP, SCOR, IOC

*Contact:* GLOBEC International Project Office, Plymouth Marine Laboratory, Prospect place, Plymouth PL1 3DH, UK. Phone: +44 1752 633401, Fax: +44 1752 633101, E-mail: [Globec@pml.ac.uk](mailto:Globec@pml.ac.uk). Website: [www.globec.org](http://www.globec.org)

**VII International Congress on Earth Sciences and the International Symposium on Recent Crustal Deformations in South America and Surrounding Areas (IAG)**

*Date and Place:* 21-25 October 2002, Santiago, Chile    *Type of Event:* Symposium

*Theme(s):* We wish to invite a select gathering of individuals from the scientific community in order to debate subjects in the following areas : geodesy photogrammetry, geology, geophysics, cartography, human geography, physical geography, education, natural risks and disasters, the environment and contamination, oceanography, meteorology, and geographic information systems.

*Organised by:* International Association of Geodesy (IAG)

*Contact:* Geographic Department of the Military Geographic Institute of Chile, Nueva Santa Isabel N° 1640, Santiago, Chile, tel: (56 - 2) 460 6813 or (56 - 2) 460 6814, Fax: (56-2) 460 6978, E-mail: [cct2002@igm.cl](mailto:cct2002@igm.cl)  
Website: <http://www.igm.cl/Inicio.htm>

**SCAR Symposia in 2003**

**ISAG 7 - 7th International Symposium on Antarctic Glaciology**

*Date and Place:* 25-29 August 2003, Milano, Italy

*Theme(s):* All major areas of scientific and technical study related to Antarctic ice, especially studies requiring intensified and co-ordinated research: ice-ocean-atmosphere interactions, ice sheet mass balance, ice-sheet dynamics, sub-glacial lakes, and palaeoclimate studies from ice cores.

*Organised by:* SCAR Working Group on Glaciology, co-sponsored by IGS, PNRA, CGI, UNIMIB

*Contact:* Local Committee: Giuseppe Orombelli / Valter Maggi , Dept of Environmental Science, University of Milano-Bicocca, Piazza della Scienza 1, 20126 Milano, Italy. Fax: +39 02 64482895. E-mail: [isag7@unimib.it](mailto:isag7@unimib.it)

**IX International Symposium on Antarctic Earth Sciences**

*Date and Place:* 8-12 September 2003, Potsdam, Germany

*Theme(s):* Antarctic Earth Sciences.

*Contact:* Prof. Dr. H.-W. Hubberten, ISAES IX, Alfred-Wegener Institut für Polar- und Meeresforschung, Forschungsstelle Potsdam, Telegrafenberg A 43, 14473 Potsdam, Germany.

Phone: +49 331 2 88 21 00 Fax: +49 331 2 88 21 37

E-mail: [isaes@awi-potsdam.de](mailto:isaes@awi-potsdam.de) Website: <http://www.awi-potsdam.de/ISAES>

*Excursions:* A number of excursions will be organized, both before and after the symposium.

- A. **Famous localities of German Geology.** 15-20 September, Starting in Berlin and ending in Frankfurt.
- B. **Traverse through the Alps.** 1-6 September
- C. **Glacial and periglacial phenomena in NE Germany.** Time and details to be announced.
- D. **Variscan Orogen in the Harz Mountains.** 2-3 days
- E. **Short excursions near Potsdam and Berlin.** Details of half-day and day excursions to be announced.

The Second Circular, to be sent out in June 2002 will include details of a range of available accommodation. Abstracts of papers will be available at the Symposium. Intending participants must register now to receive the Second Circular.