

SCAR Executive Committee Meeting

Bremen, Germany, 25 and 30 July 2004

Draft Report of the Meeting

Opening formalities

The President took the chair and opened the meeting by welcoming the members of the Executive Committee to Bremen at the start of the XXVIII SCAR Science Meeting.

Present: J Thiede (President); R H Rutherford (Past-President); R Schlich, C G Rapley, J López-Martínez, C Howard-Williams (Vice-Presidents); C P Summerhayes (Executive Director) and P D Clarkson (Executive Secretary).

At both sessions of the Executive Committee Meeting, the Chief Officers joined the Executive Committee for the last hour of the meeting:

25 July: P E O'Brien (SSG Geosciences); S L Chown (SSG Life Sciences); J Turner (SSG Physical Sciences); D W H Walton (SC-ATS).

30 July: P E O'Brien and A Capra (SSG Geosciences); S L Chown and A H L Huiskes (SSG Life Sciences); J Turner (SSG Physical Sciences); D W H Walton (SC-ATS).

1. XXVIII SCAR Delegates' Meeting

1.1 *Agenda for Delegates' Meeting*

The Draft Agenda and the Annotated Draft Agenda for the SCAR Delegates' Meeting were reviewed. It was agreed that the following two new items should be added:

item 2.3: Report of the XXVIII SCAR Meeting, part 1 (Bremen, July 25-30, 2004)

item 4.8: Summary Report of the Recommendations of the SSGs.

In addition, it was agreed that:

item 6.1 (Activities of the SCAR Secretariat) should become item 7.1.9.

1.2 *Timetable for Delegates' Meeting*

The Draft Timetable for the Delegates' Meeting was approved, with the two Delegate Committees meeting in parallel, and the reports of those Committees being brought to the Plenary Meeting on Thursday for consideration and adoption. It was agreed that items 6.2 (Review of Progress against Implementation), 6.3 (the Long Term Strategic Plan), and 7.3 (Bi-polar Relations and IPY) should be moved to a new Plenary session that would take place on the Tuesday afternoon.

The Secretariat was requested to merge the timetables and agendas for the Delegates' Meeting, to reduce the number of pieces of paper. Documents should be numbered consecutively, listed by number and referenced by number at the appropriate place in the annotated agenda. Screen projection of documents would be used when possible.

It was agreed that the President would advise Delegates of the need to keep the meeting as short as possible, with the aim of seeing if the business could be compressed into 4 days for 2006.

2. New SCAR Memberships

2.1 Switzerland – Full Membership

The Executive Committee felt that it would be desirable to help Switzerland to strengthen its case to the Delegates. The President will contact the Swiss by telephone to ensure that the Swiss case is supported with a comprehensive science perspective. The Secretariat will ask the Swiss to submit a supporting list of the Swiss scientific papers dealing with issues related to Antarctic science and highlighting in bold the names of the Swiss co-authors.

2.2 Malaysia – Associate Membership

The Executive Committee agreed that the Malaysian case was strong and should go ahead as is.

Other Possible Memberships

The Executive Committee agreed that the President should approach Denmark to see if it might consider making an application. The Secretariat should draw up a list of other possible candidates, based on an analysis of accession to the Antarctic Treaty.

3. SCAR positions

3.1 Vacancies for two Vice-Presidents

C G Rapley and R Schlich will complete their terms of office at the XXVIII SCAR Delegates' Meeting in Bremerhaven and two new Vice-Presidents will need to be elected. The Executive Committee considered potential candidates from among the known Delegates and Alternate Delegates, bearing in mind the qualifications for Delegates required in the new Constitution. The Executive Committee took note of the geographical and scientific balance of the current officers and their potential replacements, noting the need especially for representation from Asia and South America. The Executive Committee noted that the new Rules of Procedure for SCAR Subsidiary Groups requires that one Vice-President shall serve on the Finance Committee, and agreed that ideally one of the continuing or new Vice-Presidents should be perceived to have a degree of financial acumen.

It was agreed that during the present meeting the Executive Secretary would provide a list of the Delegates, who are attending the Open Science Conference, for consideration by the President and Executive Director.

The Executive Committee agreed that no Vice President should be appointed "in permanence" for this or that function. The letter of invitation should emphasize the need for officers to rotate between functions from time to time.

The Executive Committee noted that within such a small body as SCAR it was not possible to have the appropriate balance of discipline, geography or gender on the Executive Committee at all times. Instead, the aim should be to achieve an appropriate balance over time.

3.2 Appointment of Standing Finance Committee

Roland Schlich (Chairman of the Finance Committee) would be replaced by another Vice President in October. The Executive Committee thanked him for his many years of service attending to SCAR's financial health.

The Executive Committee noted that G Kleinschmidt (Germany) was no longer the Alternate Delegate from Germany and would, therefore, retire from the Finance Committee. It was suggested that the Executive Secretary should approach R Dietrich, the new German Alternate Delegate, and ask him if he would accept replacing G. Kleinschmidt at the next Delegates Meeting in Bremerhaven and would consider standing for election to the Finance Committee. The other member of the Finance Committee, Sang Hoon Lee (Korea), should also be approached to stay on the Committee if still a Delegate or Alternate Delegate for Korea.

The Committee decided that the Executive Director should be an *ex-officio* member of the Finance Committee, with certain discretionary powers in terms of expenditure against the budget.

3.3 *Appointment of XXVIII SCAR Finance Committee*

Two persons will need to be appointed to augment the Standing Finance Committee for the XXVIII SCAR Finance Committee. The Executive Committee noted that in Shanghai these were P Talaas (Finland) and F J Davey (New Zealand).

4. **Implementation of the new SCAR structure and organization**

4.1 *Activities of the SCAR Secretariat*

A paper will be tabled for the Delegates' Meeting describing the activities of the SCAR Secretariat since XXVII SCAR.

The case will be made to the Delegates for recruitment of a successor to the Executive Secretary. The replacement post will be described as 'Executive Officer'. A job description will be provided. Assuming the approval of the Delegates, recruitment for the post will begin in January. The Executive Secretary is expected to retire following the Joint Meeting of the SCAR and COMNAP Executive Committees in Sofia, Bulgaria, July 2005.

The Committee agreed that ideally the Executive Director should be involved in the leadership of the main SCAR Scientific Research Programmes (SRPs). This might happen through meetings of the Heads of the SRPs and the Chief Officers of the SSGs, which could form a Scientific Steering Group for SCAR. The Executive Director should attend the main annual meetings of the SRPs.

4.2 *Review of Progress against Implementation*

A paper will be tabled for the Delegates' Meeting indicating the extent to which the recommendations of the SCAR Review, adopted by the Delegates at XXVI SCAR in Tokyo, have been implemented. Suggestions were made for modifications to items 2(ii), 4, and 5 of the draft paper, for action by the Secretariat.

4.3 *Draft SCAR long-term Strategic Plan*

The draft of the SCAR Strategic Plan prepared by the Executive Director was approved, with minor modifications. This will now be distributed to National Committees and Delegates with a request for comments to be sent to the Executive Director.

Further modifications will be made by the Secretariat as feedback arrives before the deadline for submission of documents for the Delegates' Meeting.

5. SCAR Functions

5.1 *Draft of new SCAR Constitution*

The draft of the new SCAR Constitution was discussed and a number of minor changes were suggested. Some of these changes would be necessary to bring the draft Constitution into conformity with United Kingdom legal requirements for establishing SCAR as a registered charity. The “Articles of Association” required by law to establish SCAR as a charity will be tabled for the Delegates’ Meeting and these Articles will become SCAR’s *de facto* Constitution.

5.2 *Draft of new SCAR Rules of Procedure*

The draft of the new SCAR Rules of Procedure was discussed and a number of minor changes were suggested. The Secretariat will distribute the document.

5.3 *Draft of new Rules of Procedure for Subsidiary SCAR Groups*

The draft of the new Rules of Procedure for SCAR Subsidiary Groups was discussed and a number of minor changes were suggested. These included:

- the SCAR review cycle should be at intervals of 10 years;
- a series of synthesis documents would be needed at the completion of each Scientific Research Programme (SRP);
- The Terms of Reference of the SRPs, Action Groups and Expert Groups should indicate the requirement for publication of results in peer-reviewed journals and in other media as appropriate;
- Closer links were needed between COMNAP and the SSGs to strengthen the interaction between science and logistics;
- the guidelines for developing a Scientific Research Programme should be annexed to the Rules of Procedure for SCAR Subsidiary Groups;
- the Standing Committee on Finance will elect its Chief Officer from its members.

The Secretariat will distribute the revised document.

5.4 *Activities of the Executive Committee*

A draft paper prepared by the SCAR Secretariat was tabled for consideration by the Executive Committee. Some minor changes will be incorporated before it is distributed to the Delegates.

5.5 *ATCM*

The Report of the SCAR observers at XXVII ATCM was tabled. This included the following list of proposed papers for SCAR to prepare and submit to XXVIII ATCM in Stockholm, 6–17 June 2005.

Working Papers:

- *Antarctic Specially Protected Species I* – this paper should provide an example of how the IUCN criteria can be applied to birds (probably using the Southern Giant Petrel) to make the case for special protection and what management tools might be invoked in a recovery plan;
- *Antarctic Specially Protected Species II* – present the case for delisting Fur Seals using the latest data from the Expert Group on Seals;

- *Biological Monitoring in determining Human Impacts in the Antarctic* – this would report the conclusions of the SCAR biological monitoring workshop planned for March 2005.

Information papers:

- SCAR Report to XXVIII ATCM;
- New SCAR Research Programmes;
- Supporting paper for SCAR/COMNAP lecture;
- The introduction of non-native species into the Antarctic;
- Ballast water as a potential source of marine introductions.

The SCAR lecture has made a major positive improvement in the perception of SCAR. SCAR needs to continue to choose interesting topics for excellent speakers to put before the ATCM. SCAR should continue to report on progress with the IPY, on behalf of the ICSU community. SCAR has been requested to advise on the process for selecting species for Specially Protected status, and on the criteria to be used for delisting existing specially protected species (eg fur seals). There continue to be concerns over the introduction of non-native species and the SCAR Information Papers will provide an up-to-date summary of what is known. SCAR and COMNAP will hold a workshop (College Station, United States, March 2005) on biological monitoring of the impacts of human activities. The results of the workshop will be provided to XXVIII ATCM in a Working Paper. It is expected that the paper will form the basis for any future regulatory procedure.

Chief Officers will be asked to provide highlights of their SSG activities over the past year for inclusion in the SCAR Report to XXVIII ATCM. The focus of these contributions should be on results, outcomes and deliverables.

The SCAR papers for XXVIII ATCM need to be submitted in a much more timely fashion than was the case for XXVII ATCM in Cape Town.

In September 2004, SCAR will finalize the workshop report on acoustics and marine mammals. Spain and Germany have been invited to provide input by 31 August 2004. SCAR will report again on this matter to XXIX ATCM in 2006.

The Executive Committee identified a possible subject and speaker for the SCAR-COMNAP presentation at XXVIII ATCM. The Secretariat will now write formally to the organizers of XXVIII ATCM advising them of this and requesting that SCAR be offered a time-slot during a Plenary session of the meeting. The Swedes are aware of this request but need a formal letter. Note that there can be no guarantee that the SCAR request will be met.

The Executive Committee noted that there is a need to change the standard wording of the SCAR recommendation for approving management plans for specially protected and managed areas. The Secretariat will circulate a draft for comment.

D W H Walton noted that SCAR's ATS advisory group had been reduced to 3 people from the 9 members of the former Group of Specialists (GOSEAC) that performed many of the same functions. One way to obtain the required level of input in future would therefore be to co-opt experts nominated by the SSGs. It is in the scientists' interests to check ATCM items before they are published. This has to be done annually to meet the annual needs of the ATCM. The Executive Committee agreed that the SSGs should nominate experts to work as 'consultants' to supply advice to the

ATS group; these experts should be from different geographical areas (e.g. the Antarctic Peninsula, the Ross Sea, etc). D W H Walton will make a proposal along these lines for consideration at the Delegates' Meeting.

The Executive Committee noted with satisfaction that Dr J Huber, the newly-elected Executive Secretary of the Antarctic Treaty Secretariat, had attended the SCAR Science Meeting. D W H Walton also reported that he had opened discussions with Dr Huber regarding links between the ATCM, the AT Secretariat and SCAR.

The Executive Committee noted that D W H Walton is due to retire from the British Antarctic Survey in March 2006 when a successor as Chairman of SC-ATS may need to be appointed if he is no longer available.

5.6 *ICSU*

The Executive Committee approved the paper describing recent developments at ICSU that are relevant to SCAR. During discussion it was agreed that SCAR's links to ICSU should be strengthened and the attendance of the SCAR Executive Director at the XXIX General Assembly of ICSU in 2005 would be a positive step towards this.

5.7 *IPY*

At XXVII ATCM, SCAR presented an Information Paper (IP 074) on behalf of ICSU, outlining the current status of programme planning for the IPY.

To ensure the most appropriate inputs to the IPY planning process, SCAR has formed an *ad hoc* Advisory Committee on the IPY (see Appendix 1), chaired by the Executive Director. The Executive Director reported on discussions held with the SCAR Chief Officers and other members of the SCAR *ad hoc* group for the IPY. He will represent SCAR at the next IPY open meeting in Paris, France, 13–14 September 2004.

5.8 *Other organizations*

The Executive Director tabled papers on "SCAR, SCOR and oceanographic research in the Southern Ocean", "SCAR, WCRP, and global change research in the Antarctic region", and "Concept paper on the IGOS Cryosphere theme". The Executive Committee welcomed the progress made in these areas and agreed that the papers should be tabled at the Delegates' Meeting.

6. **Finance**

6.1 *Financial strategy*

There was extensive discussion concerning the current financial situation of SCAR and how this would change over the next 2–3 years. Income has steadily decreased, in real terms, since the last change in contribution levels in 1995. The employment of the Executive Director, and staff changes in the Secretariat during 2005 mean that support for science can only be maintained by drawing on the financial reserve (the end-of-year balance). At the current rate the reserve will be exhausted in 2–3 years time. SCAR urgently needs to increase its income. The Executive Director will be seeking new sources of income, particularly for targeted activities, but it will be necessary to seek a rise in the annual contributions from Members.

There was a wide-ranging discussion on how income might be increased. Among other possibilities, it was suggested that agencies involved in Antarctic science might provide additional contributions over and above those received from national

academies of science, in order to ensure the success of the science research programmes. It was agreed that a financial strategy paper would be prepared by R Schlich and the Executive director for presentation to the the Delegates' Meeting.

6.2 *Financial statements*

The provisional SCAR Financial Statements for 2002 and 2003 were tabled and explained by the Chairman of the Finance Committee. It was agreed that these should be recommended to the Delegates for adoption.

6.3 *Budgets*

The Executive Committee approved the revised SCAR Budget for 2004 for presentation to the Delegates' Meeting.

Draft outline budgets for 2005 and 2006 (see Appendix 2) were tabled showing provisional allocations for SCAR publications, Routine Meetings and the costs of the SCAR Secretariat. R Schlich emphasized that the cost ratio of science to administration is about 1:3 but remains close to 1:2 if the income from national contributions only (excluding the reserve) is considered. The full draft budgets, including the Chief Officers' requests for support of SCAR scientific activities in 2005 and 2006, will be submitted to the Delegates' Meeting.

7. Future Meetings

7.1 *XXIX SCAR (Australia)*

I Allison, the Australian Delegate to SCAR, gave a brief overview of the Australian plans for XXIX SCAR in Hobart. The Science Week will be held in Hobart, Tasmania, 9–14 July 2006. The location for the second week is not yet fixed but will probably be in mainland Australia, possibly Darwin, to reduce the cost of travel for most Delegates. The Executive Committee noted the need to attract the Asian community (which was not well-represented in Bremen) to participate actively in the SCAR Meetings in Australia.

7.2 *Executive Committee (Sofia, Bulgaria, with COMNAP XVII)*

The COMNAP XVII Meeting will be held in Sofia, Bulgaria. The first circular was distributed in Bremen. Registration will be on Monday 11 July 2005 and the meeting will be Tuesday to Friday, 12–15 July. There will be an excursion to a monastery on Saturday 16 July.

The SCAR Executive Committee has been invited to meet in parallel with the COMNAP Meeting. It is envisaged that the Executive Committee Meeting will be a maximum of 3 days, probably Wednesday to Friday, including the joint meeting with the COMNAP Executive Committee on Thursday. The SCAR Chief Officers will be invited to attend the meeting.

7.3 *XXX SCAR*

The Russian National Committee has offered to host the first week of the XXX SCAR Meeting in St Petersburg and the second week about 3 months later in Moscow. It was recalled that Finland had made a provisional offer to host a future SCAR Meeting, and that Uruguay had also expressed interest in doing so. The President suggested that Russia and Finland might agree to host the Science Week and Delegates' Meeting respectively.

7.4 XXXI SCAR

To date, there have been no specific offers to host XXXI SCAR.

The matter of the increased cost for Delegates to travel to both parts of the SCAR Meeting every other year has been raised. A possible solution for reducing travel costs could be to hold the first part of the meeting in one hemisphere and the second part in the opposite hemisphere. The Executive Committee should explore these possibilities with potential hosts during the Delegates' Meeting.

8. SSGs

The Chief Officers raised matters related to their groups. They were happy with the way the Open Science Conference had developed. The Executive Committee noted the need for elections to replace the Chief Officers of the SSGs on Life Sciences and on Geosciences and the likelihood of further consequent elections. The Executive Secretary was asked to assist in the election process.

After the close of their meetings, the Chief Officers gave brief verbal reports to the Executive Committee pending the distribution of their written reports.

Life Sciences

S L Chown commented that the Science Meeting had been a well-constructed and well-organized meeting. Some people had attended sessions outside their own specialities. The compression of the business sessions had worked well despite initial forebodings. The EG on Human Biology and Medicine had proposed to form a joint group with the COMNAP MEDINET group because there was a substantial degree of common membership and potential duplication of effort could be avoided. The SSG had supported this move but, in the event, it was not supported by COMNAP. The SALE and EBA proposals for SCAR Scientific Research Programmes were both endorsed and strongly supported with no priority. The proposals will be subject to some revisions before submission to the Delegates' Meeting. There was very strong support for the Census of Marine Life (COML) programme that is relevant to the IPY. An Action Group on COML for Antarctica and the Southern Ocean has been proposed.

S L Chown stood down as Chief Officer. A H L Huiskes was elected Chief Officer; L Palinkas (United States) will continue as Deputy Chief Officer; Kathleen Conlan (Canada) was elected Secretary.

Geosciences

P E O'Brien reported that the group had been most impressed by the Open Science Conference. The SSG had experienced some difficulty in scheduling the required meetings of all the subsidiary groups within the SSG meeting due to shortened time. The group was strongly supportive of the proposed SALE and CACE programmes. Some new Action Groups were being proposed, including one to respond to requests for advice on ATS matters, typically acoustic techniques in the marine environment. Two other Action Groups would focus on place names and on geological sampling protocols. A portfolio of programme suggestions for IPY had been developed. A new EG on Permafrost has been proposed with interested involvement from the SSG on Physical Sciences.

P E O'Brien stood down as Chief Officer. A Capra was elected Chief Officer; R D Powell was elected Deputy Chief Officer; B C Storey will continue as Secretary.

Physical Sciences

J Turner said that the SSG had enjoyed a good harmonious meeting. All members of the SSG had liked the Open Science Conference but would have preferred to have even more science. The SSG had endorsed both the proposed ACGS and ICESTAR programmes. There was a perceived need for advice on data portals and it was suggested that JCADM might be an appropriate group to provide this. New Expert Groups on Oceanography and on ice core drilling technology had been proposed. A new cross-SSG Action Group on scientific coordination on King George Island, South Shetland Islands, had also been proposed.

There were no changes to the officers of the SSG: J Turner, M Candidi and T H Jacka will continue as Chief Officer, Deputy Chief Officer, and Secretary, respectively.

SC-ATS

D W H Walton said that this science week had been a really good meeting. He had visited both the Life Sciences and Physical Sciences SSGs to inform them of recent developments at the ATCM and the questions being directed to SCAR for response. He noted that the talk on Antarctic Astronomy had been particularly interesting and that this was the kind of talk that would make a valuable SCAR-COMNAP presentation to the ATCM. He advised the Executive Committee that he had negotiated arrangements for a joint SCAR-COMNAP workshop on environmental monitoring to be held in College Station, United States, during March 2005. He had also negotiated joint funding for the workshop between SCAR, COMNAP and NSF. He reported that the Expert Group on Seals has provided data for the preparation of the Working Paper on delisting seal species as Specially Protected Species under Annex II to the Protocol on Environmental Protection to the Antarctic Treaty. The Expert Group on Birds was close to completing the list of criteria to be applied in the determination of endangered species.

The committee noted that, in the light of the importance of the Arctic Climate Impact Assessment to the Arctic Council and national governments, SCAR might wish to consider if an Antarctic Climate Assessment would be equally valuable both to the ATCM and as a contribution to the IPCC.

JCADM

The Executive Committee also noted that the SSGs need advice on data, not just on metadata, from JCADM. The Secretariat was asked to pursue this request in consultation with the SSG Chief Officers and JCADM.

The Executive Committee approved the JCADM Report for 2003 and the plans for 2004. It requested JCADM to provide plans for 2005-06 and proposed that JCADM should undergo a review.

9. SRPs

The Chief Officers up-dated the Executive Committee on the development of the five proposals for SCAR Scientific Research Programmes (AGCS, CACE, EBA,

ICESTAR, and SALE). The final revisions to these programme proposals are being made during the week in Bremen prior to presentation to the Delegates' Meeting in Bremerhaven.

The COs requested the modified description of how programme proposals should be written (these were supplied by the Secretariat and will be appended to the Rules of Procedure). It was agreed that a set of criteria should be made available to the Standing Committee on Science for its use in evaluating the SRP proposals and that these criteria should form an annex to the Rules of Procedure for SCAR Subsidiary Groups. C G Rapley and C Howard-Williams were asked to develop these during the session. It was also agreed that the proposals should be sent out for external review prior to the Delegates' Meeting; reviews by COMNAP and external reviewers would be available at the Delegates' Meeting.

It was agreed that the first authors of SRPs should be invited to attend the Delegates' Meeting at the appropriate time to present their proposals.

The Executive Committee noted that full funding was unlikely to be available at the expected level of \$25,000 per SRP. It appeared that, at that level, only 3 SRPs could be supported. In discussion it was agreed that efforts should be made to support all five SRPs (if the science plans are approved by the Delegates' Meeting) at a reduced level (perhaps \$15,000 per SRP), with extra funds being sought externally by the Executive Director.

10. Proposed Action Group on History of Antarctic Research

Dr C Lüdecke has asked for SCAR to consider the establishment of a group to prepare a document on the History of Antarctic Research. Dr Lüdecke will prepare a formal proposal for consideration by the SCAR Delegates.

The President suggested that SCAR would be well-advised to accept this proposal. The formal proposal would be due by the end of August 2004 and should be subject to external review. It was suggested that the Social Sciences equivalent of ICSU should be contacted.

It was suggested that the group should be an Action Group located directly under the Delegates' Committee on Standing Committees and reporting direct to that Committee.

11. Any other Business

The members of the Executive Committee congratulated Professor Thiede on the success of the Open Science Conference that had been organized by his staff at the Alfred-Wegener-Institut. It was agreed that the Secretariat would provide appropriate gifts to the principal organizers, Dr Martina Kunz-Pirrung and Dr Manfred Reinke.

List of Acronyms and Abbreviations

AGCS	Antarctica and the Global Climate System
ATCM	Antarctic Treaty Consultative Meeting
ATS	Antarctic Treaty System

CACE	Cenozoic Antarctic Climate Evolution
CO	Chief Officer
COML	Census of Marine Life
COMNAP	Council of Managers of National Antarctic Programmes
EBA	Evolutionary Biology of Antarctica
EG	Expert Group
GOSEAC	Group of Specialists on Environmental Affairs and Conservation.
ICESTAR	Inter-hemispheric Conjugacy on Environmental, Solar-Terrestrial and Atmospheric Research
ICSU	International Council for Science
IGOS	Integrated Global Observing Strategy Partnership
IPCC	Intergovernmental Panel on Climate Change
IPY	International Polar Year 2007–08
IUCN	World Conservation Union
JCADM	Joint Committee on Antarctic Data Management
SALE	Subglacial Antarctic Lake Exploration
SCAR	Scientific Committee on Antarctic Research
SC-ATS	Standing Committee for the Antarctic Treaty System
SRP	Scientific Research Programme
SSG	Standing Scientific Group
WCRP	World Climate Research Programme

Appendix 1

ad hoc SCAR Advisory Committee on the International Polar Year

Terms of Reference

(These may need reviewing when ICSU moves into the next phase, and once COMNAP has decided what its role will be.)

- i. to advise the Executive Committee on the SCAR input to the IPY Science Plan;
- ii. to advise the Executive Committee on the SCAR role in IPY Implementation, and on the content of the IPY Implementation Plan;
- iii. to work with COMNAP to realize IPY objectives for the Southern Hemisphere;
- iv. to ensure that IPY is represented in the SCAR Scientific Research Programmes;
- v. to monitor the IPY process as it unfolds and to advise SCAR how its contributions to the IPY should develop.

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Appendix 2**SCIENTIFIC COMMITTEE ON ANTARCTIC RESEARCH****Draft SCAR Budget 2005****INCOME**

• National Contributions	320,000
• Miscellaneous	0
• Reserve	100,000

TOTAL INCOME **US \$ 420,00**

EXPENDITURE

• SCAR support to Stand. Sci. Groups	115,000
• Geosciences	(10,000)
• Physical Sciences	(10,000)
• Life Sciences	(10,000)
• SCAR Scientific Research Programmes	(75,000)
• Antarctic Data Management	(7,000)
• Climate and Cryosphere, CliC	(3,000)
• SCAR Co-sponsoring Scientific Meeting	4,000
• SCAR Ex. Director attending Sc. Meetings	10,000
• SCAR support to Stand. Committees	10,000
• Antarctic Treaty System (10,000)	
• SCAR annual needs	261,000
• Salaries	(190,000)
• Secretariat costs	(26,000)
• Routine meetings	(25,000)
• Publications	(20,000)
• Contingencies (5% basic income)	20,000

TOTAL EXPENDITURE **US \$ 420,000**

* Figures approved by the Executive Committee (Bremen, 2004)

SCIENTIFIC COMMITTEE ON ANTARCTIC RESEARCH

Draft SCAR Budget 2006

INCOME

• National Contributions	320,000
• Miscellaneous	0
• Reserve	112,000

TOTAL INCOME **US \$ 432,000**

EXPENDITURE

• SCAR support to Stand. Sci. Groups:	115,000
• Geosciences	(10,000)
• Physical Sciences	(10,000)
• Life Sciences	(10,000)
• SCAR Scientific Research Programmes	(75,000)
• Antarctic Data Management	(7,000)
• Climate and Cryosphere, CliC	(3,000)
• SCAR Co-sponsoring Scientific Meeting:	4,000
• SCAR Ex. Director Attending Sc. Meetings:	10,000
• SCAR support to Stand. Committees:	10,000
• Antarctic Treaty System	(10,000)
• SCAR annual needs:	273,000
• Salaries	(178,000)
• Secretariat costs	(26,000)
• Routine meetings	(49,000)
• Publications	(20,000)
• Contingencies (5% basic income):	20,000

TOTAL EXPENDITURE **US \$ 432,000**

* Figures approved by the Executive Committee (Bremen, 2004)