



# **A Guide to the XXXIII SCAR Delegates' Meeting**

**1 – 3 September 2014**

**SkyCity Auckland Convention Centre  
Auckland, New Zealand**

**Note that the following are not included in this guide:**

**WP06** (The SCAR Horizon Scan) is an article published in the journal Nature: <http://www.nature.com/news/polar-research-six-priorities-for-antarctic-science-1.15658>;

**WP13** (Report on AntClim21) and **WP25** (Capacity Building, Education and Training) – summaries were not available;

**WPs 31, 32 and 33** (Budgets for 2014, 2015 and 2016) are not available in summary form so are not included in this document;

**IP04** and **IP05** (The SCAR/COMNAP Fellowship Scheme and the SCAR Visiting Professor Scheme) will be given as oral reports at the meeting;

**IP09a** and **IP09b** (Bids to Host SCAR 2018) – there are no summaries of these papers;

**IP11** (Report of SCAR EXCOM Meeting, Barcelona, July 2013) – there is no summary of this paper;

**IP14** (The new Brazilian Scientific Action Plan) – there is no summary of this paper.

## WP02: Annotated Agenda

### 1. Opening Business

The SCAR President, J López-Martínez, will chair this agenda item.

#### **1.1 Welcome**

J López-Martínez, President of SCAR, will open the meeting at 0845 and welcome Delegates and Observers to the XXXIII SCAR Delegates' meeting. Sir Peter Gluckman, Science Advisor to the Prime Minister of New Zealand, will welcome Delegates to New Zealand.

#### **1.2 Adoption of the Agenda and Timetable (WPs 1,2,3,4)**

Delegates will be asked to adopt the agenda [WP 01], the annotated agenda [WP02], the list of documents [WP03], and the timetable for the meeting [WP04], suggesting additions and modifications where appropriate.

**In accordance with the SCAR Rules of Procedure, Delegates of Associate Members and Observers will be asked to leave the plenary session during Session 2, on the admittance of new Members. Please note that Session 3 is also closed to Observers.**

### 2. Membership (CLOSED)

The SCAR President, J López-Martínez, will chair this agenda item.

#### **2.1 Applications of Czech Republic and Islamic Republic of Iran for Associate Membership of SCAR (WPs 5a,5b)**

The papers for these applications were distributed in advance of the meeting and are available as WP5a and WP5b. The Observers from the Czech Republic and the Islamic Republic of Iran will present the application for Associate Membership of SCAR, after which they will leave the room during discussions.

**Delegates will consider the applications of the Czech Republic and the Islamic Republic of Iran to become Associate Member of SCAR.**

The representatives from the Czech Republic and the Islamic Republic of Iran will be invited to rejoin the Plenary, and the decisions will be announced.

#### **2.2 SCAR Membership issues, including possible future members**

The Executive Director, M Sparrow, will note discussions about membership with Austria, Colombia, Kazakhstan, Saudi Arabia, Thailand and Turkey.

**Delegates will be invited to suggest ways in which additional members may be recruited.**

M Sparrow will note that most countries are up to date with Membership payments. The Delegates' will be asked to consider cases of any Members being more than 2 years in arrears of their membership payments.

**Members will be asked to note the rules about membership arrears in the SCAR Articles of Association.**

### 3. SCAR Officers (CLOSED)

The SCAR President, J López-Martínez, will chair this agenda item.

#### **3.1 Notification of elections of two Vice-Presidents**

The Offices of two Vice-Presidents (S Marensi and Y-D Kim) fall vacant at the end of the meeting, the incumbents having completed their appointed terms of Office. The Secretariat will briefly review SCAR election procedures.

**Delegates will elect two Vice-Presidents for the period 2012-2016 (elections to take place on Wednesday 3<sup>rd</sup> September at 1400-1530).**

**A committee to conduct the elections will be established.**

### **3.2 Appointment of Standing Finance Committee**

The Standing Committee on Finance comprised B Storey (Chair, New Zealand), J Xavier (Portugal) and León Bravo (Chile). Two additional *ad hoc* members will be appointed.

**The Delegates will be asked to appoint two *ad hoc* members to the Finance Committee plus any replacements that may be necessary to the committee.**

## **4. Science**

The SCAR V-P Y-D Kim will chair this agenda item.

### **4.1 The SCAR Horizon Scan (WP 6)**

The SCAR Past-President, M C Kennicutt II, will discuss the outcomes of the SCAR Science Horizon Scan, the final meeting of which was held in NZ in April. This will include discussion of the products from the scan.

### **4.2 SCAR SSGs: Highlights, Progress and Plans**

Y-D Kim will introduce this item. Delegates will be reminded of the importance of appointing up to four representatives to each SSG to ensure that SCAR can operate effectively and represent the interests of each member.

#### **4.2.1 Report of SSG Physical Sciences (WP 7)**

The Chief Officer of SSG Physical Sciences, D H Bromwich, will introduce this item and report briefly on progress and plans.

**Delegates will discuss the progress of the SCAR SSG PS and decide what changes, if any, need to be made to future plans.**

**Delegates will be asked to approve recommendations in the SSG PS report including membership of and the creation, cessation or continuation of subsidiary SSG groups.**

**The Finance Committee will be instructed to devise a biennial budget (total allocation only) in support of SSG PS financial requests.**

#### **4.2.2 Report of SSG Life Sciences (WP 8)**

The Chief Officer of SSG Life Sciences, G Hosie, will introduce this item and report briefly on progress and plans.

**Delegates will discuss the progress of the SSG LS and decide what changes, if any, need to be made to future plans.**

**Delegates will be asked to approve recommendations in the SSG LS report including membership of and the creation, cessation or continuation of subsidiary SSG groups.**

**The Finance Committee will be instructed to devise a biennial budget (total allocation only) in support of SSG LS financial requests.**

#### **4.2.3 Report of SSG Geosciences (WP 9)**

The deputy Chief Officer of SSG Geosciences, J Galindo Zaldivar, will introduce this item and report briefly on progress and plans.

**Delegates will discuss the progress of the SSG GS and decide what changes, if any, need to be made to future plans.**

**Delegates will be asked to approve recommendations in the SSG GS report including membership of and the creation, cessation or continuation of subsidiary SSG groups.**

**The Finance Committee will be instructed to devise a biennial budget (total allocation only) in support of SSG GS financial requests.**

### **4.3 SCAR Scientific Research Programmes**

Y-D Kim will introduce this item. Delegates will be reminded that this will be the first Delegates meeting reports for the new SRPs and that AAA has undergone an external review.

#### *4.3.1 Astronomy and Astrophysics from Antarctica (AAA), including external review (WP 10)*

The Chair J Storey will present progress and plans for the SRP Astronomy and Astrophysics from Antarctica (AAA), including the responses to the external review.

#### *4.3.2 State of the Antarctic Ecosystem (AntEco) (WP 11)*

The Chair A Terauds will report on progress and plans for the SRP State of the Antarctic Ecosystem (AntEco), including the new leadership of AntEco since A Terauds will be stepping down as CO to become CO of SC-ATS.

#### *4.3.3 Antarctic Thresholds – Ecosystem Resilience and Adaptation (AnT-ERA) (WP 12)*

J Xavier will report on progress and plans for the SRP Antarctic Thresholds – Ecosystem Resilience and Adaptation (AnT-ERA).

#### *4.3.4 Antarctic Climate Change in the 21<sup>st</sup> Century (AntClim21) (WP 13)*

D H Bromwich will report on progress and plans for the SRP Antarctic Climate Change in the 21<sup>st</sup> Century (AntClim21).

#### *4.3.5 Past Antarctic Ice Sheet Dynamics (PAIS) (WP 14)*

The co-Chair C Escutia will report on progress and plans for the SRP Past Antarctic Ice Sheet Dynamics (PAIS).

#### *4.3.6 Solid Earth Responses and Influences on Cryospheric Evolution (SERCE) (WP 15)*

The Chair T Wilson will report on progress and plans for the SRP Solid Earth Responses and Influences on Cryospheric Evolution (SERCE).

**Delegates will discuss the progress of the SRPs and decide what changes, if any, need to be made to future plans.**

**The Finance Committee will be instructed to devise a biennial budget (total allocation only) in support of SRP financial requests.**

### **4.4 Other Science Topics:**

#### *4.4.1 The Social Sciences Action Group (WP 16)*

Y-D Kim will report on progress with the Social Sciences Action Group (SSAG).

**Delegates will be asked to note progress and consider recommendations.**

#### *4.4.2 The History Expert Group (WP 17)*

Y-D Kim will report on progress with the SCAR History Group (HG).

**Delegates will be asked to note progress and consider recommendations.**

#### *4.4.3 The Southern Ocean Observing System (SOOS) (WP 18)*

L Newman will report on progress with the Southern Ocean Observing System (SOOS). SOOS' mission is to establish a multidisciplinary observing system to deliver the sustained observations of the Southern Ocean.

The SOOS is sponsored by SCAR and SCOR and currently endorsed by POGO and the WCRP projects CLIVAR and CliC.

**Delegates will be asked to note progress and consider recommendations.**

#### *4.4.4 The Southern Ocean Acidification report (WP19)*

M Sparrow will report on the plans for publication and launch of the SCAR Ocean Acidification Report.

**Delegates will be asked to note progress and consider recommendations.**

#### *4.4.5 Review of SCAR co-sponsored groups and activities (WP 20)*

Y-D Kim will report on the review of SCAR co-sponsored groups and activities, including recommendations.

**Delegates will be asked to note progress and consider recommendations.**

*4.4.6 The International Polar Partnership Initiative (WP 21)*

V Rachold will report on the International Polar Partnership Initiative.

**Delegates will be asked to note progress and consider recommendations.**

*4.4.7 The Year of Polar Prediction 2017-2019*

P Reid will briefly report on the WMO Year of Polar Prediction (<http://polarprediction.net>.)

**Delegates will be asked to note progress and consider recommendations.**

*4.4.8 Other WMO Activities (IP 13)*

The WMO Observer, S Pendlebury, will give Delegates a brief overview of other WMO polar activities of relevance to SCAR, including the Polar Space Task Group and the Global Integrated Polar Prediction System.

**Delegates are asked to note the synergies between the work of WMO in the Antarctic region and that of SCAR and to consider ways in which the two organisations may partner in a mutually beneficial way.**

*4.4.9 The ICSU Unions and SCAR*

J López-Martínez will report on interactions with the ICSU Unions and give those Unions present the opportunity to highlight any possible areas of future cooperation with SCAR.

**The Finance committee will be asked to devise a budget in concert with the Delegates decisions on budget requests within this agenda.**

## **5. Data and Information: Highlights, Progress and Plans**

SCAR V-P Y-D Kim will lead this item.

**5.1 The Standing Committee on Antarctic Data Management (SCADM) (WP 22)**

M Sparrow will report on progress and plans with SCADM.

**5.2 The Standing Committee on Antarctic Geographic Information (SCAGI) (WP 23)**

M Sparrow will report on progress and plans with SCAGI.

**5.3 SCAR Products (IP 1)**

M Sparrow will update Delegates on progress with the SCAR Products.

**Delegates will be asked to consider recommendations and budget requests from SCADM and SCAGI.**

## **6. Partnerships: Highlights, Progress and Plans**

J López-Martínez will chair this item.

**6.1 SCAR Partnerships (COMNAP, IASC, APECS, WCRP etc.) (IP 2)**

M Sparrow will briefly discuss partnerships with other organisations. V Rachold (IASC) will highlight the International Conferences on Arctic Research Planning (<http://icarp.arcticportal.org>) and its relation to the Horizon Scan activity.

**6.2 SCAR MoUs and other agreements (IP 3)**

M Sparrow will update the SCAR Delegates on SCAR MoUs and other agreements, including discussions on agreements with the European Polar Board and AFOPS.

**Delegates will be asked to note progress and provide feedback as appropriate.**

## **7. SCAR and Policy Advice**

J López-Martínez will chair this item.

**7.1 Report of the Standing Committee on the ATS, including interactions with the Treaty, the Antarctic Conservation in the 21<sup>st</sup> Century Initiative and CCAMLR (WP 24)**

The Chair, S Chown, will report on progress with SCATS, interactions with the Treaty, and on the Antarctic Conservation in the 21<sup>st</sup> Century Initiative.

**Delegates will be asked to note the progress by SCATS and approve any membership changes requested. In particular it should be noted that S Chown's term as Chief Officer comes to an end and he will be replaced by A Terauds.**

**Delegates will be asked to consider recommendations and budget requests under this agenda item.**

#### **7.2 Advice to other bodies, such as the IPCC**

M Sparrow will comment on interactions with other policy bodies such as the IPCC and UNFCCC.

**The Finance committee will be asked to devise a budget in concert with the Delegates decisions on budget requests within this agenda.**

## **8. Capacity Building, Education and Training: Progress and Plans**

V-P K Lochte will chair this agenda item.

### **8.1 The SCAR Fellowship Programme (IP 4)**

The SCAR Executive Officer, R Badhe, will report on the selection of the 2013/14 SCAR/COMNAP Fellows.

### **8.2 The Visiting Professor Scheme (IP 5)**

R Badhe will report on the selection of the 2013/14 Visiting Professors.

**Delegates are asked to note progress and urge National Committees to provide additional financial support for the Fellowship and Visiting Professor Programmes.**

### **8.3 The Martha T Muse Prize (IP 6)**

The Executive Officer, R Badhe, will report on the Martha T Muse Prize and interactions with the Tinker Foundation.

**Delegates are asked to note progress and that 20% of the EO's and AA's time are paid for by the Tinker Foundation to administer the Prize.**

### **8.4 Capacity Building, Education and Training including future plans (WP 25)**

K Lochte will report on progress with SCAR CBET activities.

**Delegates will be asked to consider recommendations and budget requests under this agenda item.**

## **9. Communications: Progress and Plans**

K Lochte will chair this agenda item.

### **9.1 The SCAR Website (IP7)**

M Sparrow will report on progress with the new SCAR Website.

### **9.2 Other Communications activities (Climate Communications, Social Networking, publications, SCAR Newsletter etc.) (IP 7)**

M Sparrow will report on this item.

### **9.3 The role of SCAR National Committees**

J López-Martínez will chair a discussion on the role of SCAR National Committees within SCAR.

**Delegates will be asked to consider recommendations and budget requests under this agenda item.**

## **10. Major Meetings**

J López-Martínez will chair this agenda item.

### **10.1 Plans for SCAR 2016 Meetings in Malaysia (IP 8)**

The Malaysian Delegate, A Abu Samaha, will report on progress and plans for the 2016 SCAR meetings.

### **10.2 The SCAR 2018 Meetings (IP 9)**

J López-Martínez will lead discussions on bids to host the 2018 SCAR Meetings

### **10.3 Other major Meetings (IP 10)**

M Sparrow will report on any other major meetings e.g. ISAES 2015.

**The Finance committee will be asked to devise a budget in concert with the Delegates decisions on budget requests within this agenda.**

## **11. SCAR Business (CLOSED to all Observers)**

J López-Martínez will chair this agenda item.

### **11.1 SCAR Organisation: A possible review of the structure of SCAR (WP 26)**

J López-Martínez will lead a discussion on a possible review of the SCAR Structure.

**Delegates are asked to consider if a review of the SCAR structure is necessary and if so the format of such a review. Delegates are also asked to note that SCAR will undergo a review by ICSU starting at the end of 2014.**

### **11.2 The next SCAR Strategic Plan 2017-2022 (WP 27)**

J López-Martínez will lead a discussion on the plans for the next SCAR Strategic Plan 2017-2022.

**Delegates are asked to comment as appropriate, including how the outcomes of the Horizon Scan and any reviews should influence the process.**

### **11.3 Secretariat and EXCOM Reports (IPs 11,12)**

J López-Martínez will briefly comment on the Secretariat and EXCOM reports.

**Delegates are asked to comment as appropriate.**

## **12. Finance (CLOSED to all Observers)**

V-P B Storey will chair this agenda item and give a quick update on finance matters (WP 28)

### **12.1 Financial Statements for 2012, 2013 (WP 29, 30)**

B Storey will present these items with the assistance of R Badhe, the SCAR Executive Officer.

**Delegates are asked to approve the 2012 and 2013 statements.**

### **12.2 Revised Budget for 2014 (WP 31)**

B Storey will present this item with the assistance of R Badhe, the SCAR Executive Officer.

**Delegates are invited to approve revisions to the 2014 budget.**

### **12.3 Revised Budget for 2015 (WP 32)**

B Storey will present these items with the assistance of R Badhe, the SCAR Executive Officer.

**Delegates are invited to approve revisions to the 2015 budget.**

### **12.4 Budget for 2016 (WP 33)**

B Storey will present these items with the assistance of R Badhe, the SCAR Executive Officer.

**Delegates are invited to approve the 2016 budget.**

### **12.5 The SCAR Development Council (IP 13)**

M Sparrow will present progress with regards to the SCAR Development Council on behalf of the Chair, P Convey.

**Delegates are asked to note progress.**

### **12.6 Allocation of funds from Prince Albert Foundation's Prix Biodiversité (WP 34)**

M Sparrow will ask the Delegates to approve a plan to allocate the €40,000 awarded to SCAR



form the Prince Albert Foundation's Prix Biodiversité, based on feedback already received from the Delegates and SCAR Chief Officers.

**Delegates are asked to approve a plan to allocate the prize money from the Prince Albert Foundation's Prix Biodiversité**

***12.7 Any other Finance Matters***

B Storey will give the opportunity for Delegates to raise any additional finance matters.

**13. Other Business**

***13.1 Any other business***

J López-Martínez will ask if there is any other business.

**14. Closure of the meeting**

The SCAR President, J López-Martínez, will close the meeting.

## WP03: List of Documents

*In the interests of efficiency, papers are classified as either Working Papers (WP), which are essential for the conduct of business, or Information Papers (IP).*

### Working Papers

<b><i>Paper No.</i></b>	<b><i>Agenda Item</i></b>	<b><i>Document Title</i></b>	<b><i>Responsible</i></b>
WP 1	1.2	Agenda	Mike S
WP 2	1.2	Annotated Agenda	Mike S
WP 3	1.2	List of Documents	Mike S
WP 4	1.2	Timetable	Mike S
WP5a	2.1	Application of the Czech Republic for Associate Membership of SCAR	Rosemary N
WP5b	2.1	Application of the Islamic Republic of Iran for Associate Membership of SCAR	Rosemary N
WP 6	4.1	The SCAR Horizon Scan	Chuck K
WP 7	4.2.1	Report of SSG Physical Sciences - Appendix: ICED Report	David B
WP 8	4.2.2	Report of SSG Life Sciences	Graham H
WP 9	4.2.3	Report of SSG Geosciences	Berry L
WP 10	4.3.1	Report on AAA, including review	John S
WP 11	4.3.2	Report on AntEco	Aleks T
WP 12	4.3.3	Report on AnT-ERA	Julian G
WP 13	4.3.4	Report on AntClim21	Nancy B
WP 14	4.3.5	Report on PAIS	Carlota E
WP 15	4.3.6	Report on SERCE	Terry W
WP 16	4.4.1	Report from the SCAR Social Sciences Group	Daniela L
WP 17	4.4.2	Report from the SCAR History Group	Conny L
WP 18	4.4.3	The Southern Ocean Observing System	Louise N, Mike S
WP 19	4.4.4	The Southern Ocean Acidification Report	Mike S, Richard B
WP 20	4.4.5	Review of SCAR co-sponsored groups and activities	Y-D Kim, Mike S
WP 21	4.4.6	The International Polar Partnership Initiative	Vladimir R, Volker R, Mike S
WP 22	5.1	Report on SCADM	Taco de Bruin
WP 23	5.2	Report on SCAGI	Adrian F
WP 24	7.1	Report from SC-ATS, including report to the Treaty	Steven C, Mike S
WP 25	8.4	Capacity Building, Education and Training	Karin L, R Badhe
WP 26	11.1	A possible SCAR Review	Jeronimo L-M, Mike S

WP 27	11.2	The next SCAR Strategic Plan 2017-2022	Jeronimo L-M, Mike S
WP 28	12	Finance Update	Renuka B, Mike S, Bryan S
WP 29 a,b	12.1	Finance Statement for 2012 (Summary and Full)	Renuka B, Bryan S
WP 30 a,b	12.1	Finance Statement for 2013 (Summary and Full)	Renuka B, Bryan S
WP 31	12.2	Revised Budget for 2014	Renuka B, Bryan S
WP 32	12.3	Revised Budget for 2015	Renuka B, Bryan S
WP 33	12.4	Draft Budget for 2016	Renuka B, Bryan S
WP 34	12.6	Allocation of funds from Prix Biodiversité	Mike S, R Badhe, Bryan S

### Information Papers

<b><i>Paper No.</i></b>	<b><i>Agenda Item</i></b>	<b><i>Document Title</i></b>	<b><i>Responsible</i></b>
IP 1	5.3	The SCAR Products	Mike S
IP 2	6.1	Report on Partnerships	Mike S
IP 3	6.2	SCAR MoUs and other agreements	Mike S
IP 4	8.1	The SCAR/COMNAP Fellowship Scheme	Renuka B
IP 5	8.2	The SCAR Visiting Professor Scheme	Renuka B
IP 6	8.3	The Martha T Muse Prize	Renuka B
IP 7	9.2	Communication Activities	Mike S ,Renuka B,
IP 8	10.1	Plans for SCAR 2016	Azizan A S
IP 9	10.2	Bids to host SCAR 2018	
IP 10	10.3	Plans for ISAES 2015	Naresh C P
IP 11	11.3	EXCOM 2013 Report	Mike S, Jeronimo L-M
IP 12	11.3	Secretariat Report	Mike S
IP 13	4.4.7	WMO activities of interest to SCAR	Steve P, Mike S
IP 14	13	The new Brazilian Scientific Action Plan	Jefferson S

## WP04: Meeting Timetable

**Note that all sessions of the meeting will be held in plenary**

### Sunday 31<sup>st</sup> August

1700-1800

**SCAR EXCOM Meeting** (University of Auckland, Room TBC)  
(Note SCAR-COMNAP EXCOM meeting will take place at 5pm on August 24<sup>th</sup>  
in SkyCity, SCAR Secretariat Room, Parnell Room)

1800–1930

**Ice Breaker Reception** (Old Government House, University of Auckland)

### Monday 1<sup>st</sup> September

<b>0845-0900</b>	<b>1. Opening Business (chair J López-Martínez)</b>	
	1.1 Welcome (J López-Martínez and P Gluckman )	
	1.2 Adoption of the Agenda and Timetable (M Sparrow)	WPs 1,2,3,4
<b>0900-1010</b>	<b>2. Membership (chair J López-Martínez)</b>	<b>CLOSED TO ASSOCIATE MEMBERS AND OBSERVERS</b>
	2.1a Application from Czech Republic for Associate Membership of SCAR (Czech representative)	WP 5a
	2.1b Application from Islamic Republic of Iran for Associate Membership of SCAR (Iranian representative)	WP 5b
	2.2 Possible future applications for SCAR Membership (M Sparrow)	
<b>1010-1030</b>	<b>3. Elections (chair J López-Martínez)</b>	<b>CLOSED TO OBSERVERS</b>
	3.1 Notification of elections of two Vice-Presidents (M Sparrow)	
	3.2 Appointment of Standing Finance Committee (B Storey)	
<b>1030-1100</b>	<b>Coffee/Tea</b>	<b>(OBSERVERS AND ASSOCIATE MEMBERS TO REJOIN MEETING)</b>

<b>1100-1230</b>	<b>4. Science (chair Y-D Kim)</b>	
	4.1 The SCAR Horizon Scan (M C Kennicutt II)	WP 6
	4.2 SCAR SSGs: Highlights, Progress and Plans	
	4.2.1 Report of SSG Physical Sciences (D H Bromwich)	WP 7
	4.2.2 Report of SSG Life Sciences (G Hosie)	WP 8
	4.2.3 Report of SSG Geosciences (J Galindo Zaldivar)	WP 9
<b>1230–1400</b>	<b>Lunch</b>	
<b>1400-1530</b>	4.3 SCAR Scientific Research Programmes	
	4.3.1 Astronomy and Astrophysics from Antarctica (AAA), including external review (J Storey)	WP 10
	4.3.2 State of the Antarctic Ecosystem (AntEco) (A Terauds)	WP 11
	4.3.3 Antarctic Thresholds – Ecosystem Resilience and Adaptation (AnT-ERA) (J Xavier)	WP 12
	4.3.4 Antarctic Climate Change in the 21 <sup>st</sup> Century (AntClim21) (D H Bromwich)	WP 13
<b>1530–1600</b>	<b>Break</b>	
<b>1600-1640</b>	4.3 SCAR Scientific Research Programmes (cont.)	
	4.3.5 Past Antarctic Ice Sheet Dynamics (PAIS) (C Escutia)	WP 14
	4.3.6 Solid Earth Responses and Influences on Cryospheric Evolution (SERCE) (T Wilson)	WP 15
<b>1640-1730</b>	4.4 Other Science Topics	
	4.4.1 The Social Sciences Action Group (Y-D Kim)	WP 16
	4.4.2 The History Expert Group (Y-D Kim)	WP 17
	4.4.3 The Southern Ocean Observing System (L Newman)	WP 18
	4.4.4 The Southern Ocean Acidification report (M Sparrow)	WP 19
<b>2000-</b>	<b>Joint SCAR EXCOM – ICSU EXCOM Dinner (Vivace Restaurant)</b>	

**Tuesday 2 September**

<b>0845-1030</b>	4.4 Other Science Topics (cont.) (Chair Y-D Kim)	
	4.4.5 Review of SCAR co-sponsored groups and activities (Y-D Kim)	WP 20
	4.4.6 The International Polar Partnership Initiative (V Rachold)	WP 21
	4.4.7 The Year of Polar Prediction 2017-2019 (P Reid)	
	4.4.8 Other WMO Activities (S Pendlebury)	IP 13
	4.4.9 The ICSU Unions and SCAR (J López-Martínez)	
<b>1030-1100</b>	<b>Coffee/Tea</b>	
<b>1100-1200</b>	<b>5. Data and Information: Highlights, Progress and Plans (chair Y-D Kim)</b>	
	5.1 The Standing Committee on Antarctic Data Management (SCADM) (M Sparrow)	WP 22
	5.2 The Standing Committee on Antarctic Geographic Information (SCAGI) (M Sparrow)	WP 23
	5.3 SCAR Products (M Sparrow)	IP 1
<b>1200-1230</b>	<b>6. Partnerships: Highlights, Progress and Plans</b>	
	6.1 SCAR Partnerships (COMNAP, IASC, APECS, WCRP etc.) (M Sparrow & V Rachold)	IP 2
	6.2 SCAR MoUs and other agreements (M Sparrow)	IP 3
<b>1230-1400</b>	<b>Lunch</b>	
<b>1400-1500</b>	<b>7. SCAR and Policy Advice (chair J López-Martínez)</b>	
	7.1 Report of the Standing Committee on the ATS, including interactions with the Treaty, the Antarctic Conservation in the 21st Century Initiative and CCAMLR (S Chown)	WP 24
	7.2 Advice to other bodies, such as the IPCC (M Sparrow)	
<b>1500-1530</b>	<b>8. Capacity Building, Education and Training: Progress and Plans (chair K Lochte)</b>	
	8.1 The SCAR Fellowship Programme (R Badhe)	IP 4

	8.2 The Visiting Professor Scheme (R Badhe)	IP 5
<b>1530–1600</b>	<b>Break</b>	
<b>1600-1645</b>	<b>8. Capacity Building, Education and Training: Progress and Plans (chair K Lochte) cont.</b>	
	8.3 The Martha T Muse Prize (R Badhe)	IP 6
	8.4 Capacity Building, Education and Training including future plans (K Lochte)	WP 25
<b>1645-1730</b>	<b>9. Communications: Progress and Plans (chair K Lochte)</b>	
	9.1 The SCAR Website (M Sparrow)	
	9.2 Other Communications activities (Climate Communications, Social Networking, publications, SCAR Newsletter etc.) (M Sparrow)	IP 7
	9.3 The role of SCAR National Committees (J López-Martínez)	
<b>1900</b>	<b>Delegates Dinner at the “Top of the Town” Pullman Hotel, Auckland</b>	

### **Wednesday 3 September**

<b>0900-0945</b>	<b>10. Major Meetings (chair J López-Martínez)</b>	
	10.1 Plans for SCAR 2016 Meetings in Malaysia (A Abu Samaha)	IP 8
	10.2 The SCAR 2018 Meetings (J López-Martínez)	IP 9
	10.3 Other major Meetings, including ISAES 2015 (M Sparrow)	IP 10
<b>0945-1030</b>	<b>11. SCAR Business (chair J López-Martínez)</b>	<b>CLOSED TO OBSERVERS</b>
	11.1 SCAR Organisation: A possible review of the structure of SCAR (J López-Martínez)	WP 26
<b>1030-1100</b>	<b>Coffee/Tea</b>	
<b>1100-1230</b>	<b>11. SCAR Business cont. (chair J López-Martínez)</b>	<b>CLOSED TO OBSERVERS</b>
	11.2 The next SCAR Strategic Plan 2017-2022 (J López-Martínez)	WP 27
	11.3 Secretariat and EXCOM Reports (J López-Martínez)	IPs 11,12

<b>1230–1400</b>	<b>Lunch</b>	
<b>1400-1530</b>	Elections	<b>CLOSED TO OBSERVERS</b>
<b>1530–1600</b>	<b>Break</b>	
<b>1600-1730</b>	<b>12. Finance (chair B Storey)</b>	<b>CLOSED TO OBSERVERS</b>
	Introduction (B Storey)	WP 28
	12.1 Financial Statements for 2012, 2013 (B Storey)	WPs 29,30
	12.2 Revised Budget for 2014 (B Storey)	WP 31
	12.3 Revised Budget for 2015 (B Storey)	WP 32
	12.4 Budget for 2016 (B Storey)	WP 33
	12.5 The SCAR Development Council (M Sparrow)	IP 13
	12.6 Allocation of funds from Prince Albert Foundation's Prix Biodiversité (M Sparrow)	WP 34
	12.7 Any other Finance Matters (B Storey)	
<b>1730-1745</b>	<b>13. Other Business (chair J López-Martínez)</b>	
	13.1 Any other business (J López-Martínez)	
<b>1745</b>	<b>14. Closure of the Meeting (J López-Martínez)</b>	
<b>1745-1800</b>	Brief meeting of the new EXCOM (J López-Martínez)	



## **WP05a: Application of the Czech Republic for Associate Membership**

**Authors:** Czech authorities

**Important Issues or Factors:** From the SCAR Rules of Procedure:

*Applications for Associate Membership:*

- 1.3.1 *are usually expected to precede application for full membership; and*
- 1.3.2 *shall be accompanied by a statement of what the applicant hopes to contribute to and/or gain from the Charity.*

**Recommendations/Actions and Justification:** Delegates are requested to consider the Czech application for Associate Membership of SCAR.

**Budget Implications:** \$5,000 annual membership fee for Associate Membership.

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## **WP05b: Application of the Islamic Republic of Iran for Associate Membership**

**Authors:** Iranian authorities

**Important Issues or Factors:** From the SCAR Rules of Procedure:

*Applications for Associate Membership:*

- 1.3.1 *are usually expected to precede application for full membership; and*
- 1.3.2 *shall be accompanied by a statement of what the applicant hopes to contribute to and/or gain from the Charity.*

**Recommendations/Actions and Justification:** Delegates are requested to consider the Iranian application for Associate Membership of SCAR.

**Budget Implications:** \$5,000 annual membership fee for Associate Membership.

## **WP07: SCAR Standing Scientific Group on Physical Sciences**

**Authors:** David Bromwich (CO), Maurizio Candidi (Deputy CO), and Steven Colwell (Secretary)

### **Introduction/ Background:**

Clouds and Aerosols AG is rallying the community to conduct cloud measurement campaigns. Environmental Contamination (ECA) AG is changing direction to establish an Antarctic Monitoring and Assessment Program. Ocean Acidification AG is finalizing its report and presenting the results in many international forums. Remote Sensing AG is exploring the best ways to collect penguin (and other seabirds and seals) abundance data using remote sensing methods. The ATHENA EG is winding up its activities. GRAPE EG is initiating DemoGRAPE project to provide an empirical assessment of the delay and of the corruption induced by the ionosphere on satellite signals in the Polar Regions. ICED EG has been very active in promoting research on Southern Ocean ecosystems. The ICESTAR EG has been mostly inactive. IPICS EG is promoting ice coring campaigns. ISMASS EG is facilitating research on ice sheet mass balance. Operational Meteorology EG works to improve weather forecasts for Antarctica. ASPECT devotes its energies to elucidating the role of sea ice in the climate system. ITASE provides an umbrella for traverse and shallow coring activities conducted by many countries and is planning follow-on activities.

### **Important Issues or Factors:**

A new observing system is being proposed “Antarctic Near-Shore and Terrestrial Observing System (ANTOS)”. This is a cross-disciplinary project involving all three SSGs. It will be established and supported by an EG/AG nominally reporting through SSG-LS.

### **Recommendations/Actions and Justification:**

ATHENA EG is nearing the end of its activities so should be disbanded. ICESTAR EG should be disbanded because the group has been inactive for several years. ASPECT should become an EG because it does not have a definite home within the SCAR structure at present. It has an expected long lifetime that fits with an EG designation. ICED EG (joint with Life Sciences) should become a co-sponsored activity of SCAR. This fits better with its change of direction.

### **Expected Benefits/Outcomes:**

If ICESTAR is disbanded, the solar terrestrial physics community will need some other representation venue under SSG-PS. ASPECT represents sea ice activities in SCAR and sea ice is a very important part of the climate system in high southern latitudes. Becoming an EG should enhance their profile within the research community. Disbanding the ICED EG should revitalize this activity.

### **Partners:**

ANTOS will involve all SSGs, and work with the new SRPs, plus SOOS, CEP, CCAMLR and national Antarctic programs.

### **Budget Implications:**

Current estimated budget requests for 2015 and 2016 from existing subsidiary groups are similar to those for the last two years. ANTOS involves all SSGs and the COs of the SSGs are discussing funding arrangements. Consideration will also be given to implementing the SCAR Horizon Scan recommendations.

## **WP08: SCAR Standing Scientific Group on Life Sciences**

**Authors:** G. Hosie (CO), M. Shepanek (Deputy-CO), Y. Ropert-Coudert (Secretary) B. Danis, B. Raymond, M. Hindell, , K. Takahashi, J. Ayton, E.Kohlberg, S. Pillon, R. Bellerby, H-U. Peters, D. Bergstrom

### **Introduction/ Background:**

EG-ABI continues to build on the legacy of SCAR-MarBIN and CAML with the enhanced Antarctic Biodiversity facility biodiversity.aq. It is developing a dynamic online version of the Biogeographic Atlas of the Southern Ocean (dBASO) and Microbial Antarctic Resource System (mARS), a dedicated facility for microbial diversity data and metadata. EG-BAMM has been strengthening links with EG-ABI, APECS and the new Remote Sensing AG. BAMM and Remote Sensing will increase our capacity to monitor bird and mammal populations and species by using satellites to count animals. The new Retrospective Analysis of Antarctic Tracking database (RAATD) is a joint SCAR/CCAMLR project that will contribute significantly to conservation planning and management. EG-CPR continues to expand the SO-CPR Survey with South Africa, France and Brazil now involved. Korea, India, China and Peru are developing their programmes. Analysis CPR database shows significant increases in zooplankton abundance and shifts in species dominance in the eastern Antarctic Sector. The SCAR-COMNAP JEGHBM has enhanced tele-medicine and tele-health as a high priority, as well as applied research facilitating international collaboration and policy. The Ocean Acidification AG plans to release its report in early 2015, with preliminary results presented at the OSC in Auckland. SSG-LS shares five groups with SSG-PS. Reports for ICED, ATHENA and ECA are contained in the SSG-PS WP07 report.

### **Important Issues or Factors:**

A new observing system is being proposed “Antarctic Near-Shore and Terrestrial Observing System (ANTOS)”. This is a cross-disciplinary project involving all three SSGs. It will be established and supported by an EG/AG nominally reporting through SSG-LS. The full proposal is attached.

### **Recommendations/Actions and Justification:**

Approve the establishment of the ANTOS project and the creation of an EG/AG to oversee its development and implementation. ANTOS will provide an observing system for the terrestrial and near shore regions, complementing SOOS, thus giving enhanced observational system for the Antarctic continent and surrounding waters.

### **Expected Benefits/Outcomes:**

ANTOS working with SOOS will provide a more complete understanding of changes occurring in the Antarctic region, not just from the ocean environment.

### **Partners:**

ANTOS will involve all SSGs, and work with the new SRPs, plus SOOS, CEP, CCAMLR and national Antarctic programmes.

### **Budget Implications:**

Current estimated budget requests for 2015 and 2016 from existing subsidiary groups are similar for the last two years. ANTOS involves all SSGs and the COs of the SSGs are discussing funding arrangements.

## WP09: SCAR Standing Scientific Group on Geosciences

**Authors:** W. Berry Lyons, Jesús Galindo-Zaldivar, Naresh C. Pant

### **Introduction/ Background:**

GS continues to play a role in SCAR science both at the disciplinary and multidisciplinary level. GS scientists from many nations are involved and take leadership roles in two of SCAR's ongoing SRPs: Past Antarctic Ice Sheet dynamics (PAIS) and Solid Earth Response and Influence on Cryosphere Evolution (SERCE). Our interdisciplinary activities include in the Expert Group (GNSS Research and Application for Polar Environment) GRAPE. Demo GRAPE, an initiative of GRAPE, will begin within the next months involving new contributions from South Africa and Brazil to the original program. ADMAP continues to be a productive program as a special issue of the journal *Tectonophysics* comprised sixteen papers updating ADMAP's contributions to geomagnetic studies of the Antarctic regions. ANTPAS also continues to produce important scientific results including an overview of permafrost conditions in the Antarctic Peninsula and an inventory of paleoclimatic records from the McMurdo Dry Valleys. A special issue of the journal *Geomorphology* is currently being prepared for publication. New activities include the development of a Geo-Heritage group that will aid in helping to develop criteria for the protection of special geological features in the Antarctic. The XII International Symposium on Antarctic Earth Sciences (ISAES) is currently being planned for the summer of 2015 in Goa, India. Proceedings of the symposium are likely to be published by the Geological Society of London in their Special Publication Series.

### **Important Issues or Factors:**

A new observing system is being proposed "Antarctic Near-Shore and Terrestrial Observing Systems" –ANTOS. This is an interdisciplinary program that will involve all three SSGs.

Wider recognition of sites of geological significance in Antarctica can be achieved by development of a geo-conservation register, to promote and recognize intrinsically valuable geological and geomorphological sites. This is being attempted within the SSG-GS group and it has got a boost with the recognition of Stornes Peninsula as an ASPA of geological significance.

### **Recommendations/Actions and Justification:**

- 1) Approve the establishment of the ANTOS program and the creation of an EC/AG to oversee its development, implementation and its interdisciplinary nature.
- 2) We ask for 20,000 USD towards travel support (as projected in our last report) for the XII ISAES.

### **Expected Benefits/Outcomes:**

- 1) ANTOS will help provide a more precise and accurate understanding of environmental changes taking place in the near-shore regions and the terrestrial landscape of Antarctica.
- 2) Support for travel funds for ISAES will provide more access for international attendance at the meeting in 2015.

### **Partners:**

Regarding ANTOS, please see report of LS-SSG for potential partners.

### **Budget Implications:**

Current budget needs are expected to be similar for the existing scientific groups within GS-SSC. Funding arrangements for ANTOS will be discussed among the other SSCs. As noted above 20,000 USD are needed to help subsidize travel to the ISAES meeting in Goa, India in 2015.

## **WP10: Astronomy & Astrophysics from Antarctica (AAA)**

**Authors:** J.W.V. Storey

**Introduction/ Background:** Broadly stated, the objectives of Astronomy & Astrophysics from Antarctica (AAA) are to coordinate astronomical activities in Antarctica in a way that ensures the best possible outcomes from international investment in Antarctic astronomy, and maximizes the opportunities for productive interaction with other disciplines.

The SCAR AAA SRP Planning Group was proposed at the Hobart XXIX SCAR in 2006. Creation of the AAA SRP was approved at the Moscow XXX SCAR Delegates meeting in 2008. AAA held its first formal meeting as a Scientific Research Program in August 2010 in Buenos Aires, followed by a kick-off meeting in Sydney in June 2011. Further major meetings have followed in Portland (2012) and Siena (2013).

**Important Issues or Factors:** At this stage, AAA is functioning well, as outlined in the Annual Report to delegates. There have been no significant problems.

**Recommendations/Actions and Justification:** AAA has submitted its Annual Report to external review this year. We request that a continuation of the AAA program be approved for another four years.

**Expected Benefits/Outcomes:** Based on the recommendations of the external reviews, AAA plans to place a greater emphasis in future on outreach and education, both to the general community and to SCAR member countries with less developed astronomical programs.

**Partners:** No formal partners, although the International Astronomical Union (IAU) is a Union Member of SCAR.

**Budget Implications:** Continuing funding is requested at the approved level.

# WP11: State of the Antarctic Ecosystem (AntEco)

**Authors:** Aleks Terauds, Don Cowan, Jan Strugnell, AntEco Steering Group.

## **Introduction/ Background:**

The Scientific Research Programme - AntEco (State of the Antarctic Ecosystem) has a focus on understanding and clarifying the processes driving patterns of biodiversity in all environments across the Antarctic, sub-Antarctic and Southern Ocean regions. The programme prioritises applied research and aims to provide scientific knowledge on biodiversity that can also be used for conservation and management.

## **Important Issues or Factors:**

Since its formal inception in 2013, AntEco has focused on building and extending research networks, facilitating research that is aligned with the research priorities of the programme, and publishing research findings. Members have not only published papers in high quality journals, but also ensured that findings are disseminated widely, through conference symposia, media and popular articles. Publications in high quality journals continue to be a priority, and we are currently on track to exceed the ambitious targets set out in the Implementation Plan. One of the primary goals of AntEco is to foster collaboration between scientists, institutions and countries. To this end, AntEco has provided several letters of support for a number of large-scale multinational research proposals, at least one of which has recently been approved. As a group, we have invested considerable time and resources into the 2014 SCAR OSC, with three workshops and a diverse range of sessions, all of which were very well subscribed.

Over the next two years, AntEco will not only continue to support new research, but also focus on the delivery of advice to stakeholders, in particular to the ATCM through the CEP.

## **Recommendations/Actions and Justification:**

Given the substantial progress made in its first year, and the momentum that is building in the AntEco research community, we recommend that the Delegates (1) note and approve of AntEco actions to date, and (2) continue to support AntEco at current levels for the next two years.

## **Expected Benefits/Outcomes:**

Continuing support will allow the number and quality of important publications to continue, will ensure outreach delivery, facilitate advice to stakeholders and enhance SCAR's profile and reputation.

## **Partners:**

All outputs to date involve partners and collaborators both within and external to SCAR. So far these groups include SC-ATS, EG-BI, AnT-ERA, CAML, and a range of institutional research partners. Cross-disciplinary and cross-group collaborations will continue to be a driving theme in AntEco supported research.

## **Budget Implications:**

To achieve the objectives and goals over the next two year period, we request that funding is maintained at \$US20 000 per year.

## **WP12: Antarctic Thresholds - Ecosystem Resilience and Adaptation (AnT-ERA)**

**Authors:** J. Gutt and members of the Steering Committee

### **Introduction/ Background:**

The first half of 2013 was devoted to a preparatory phase. As a consequence, AnT-ERA's launch in July 2013 was easy and smooth. During a constituent session at the SCAR Biology Symposium the Steering Committee (SC) prepared a first phase documentation of AnT-ERA projects and accomplishments and presented these to the SCAR biology community. The discussion was dominated by the key research aims, outreach, support for scientific work and early career scientists as well as cooperation with other international and national programs.

### **Important Issues or Factors:**

Because the preparatory phase was intensive and included the development of an implementation plan and outreach activities, the start of AnT-ERA has, thus, been straightforward. This success was based on the composition of the SC, which comprises early career and experienced scientists as well as representatives from all continents, who are well integrated in a broad variety of AnT-ERA's research fields and other international and national programs. The smooth start of AnT-ERA also benefitted from the experience of some members with committee work such as in predecessor programs (EBA, EVOLANTA, RISC, EASIZ).

### **Recommendations/Actions and Justification:**

AnT-ERA represents a large community of active scientists focusing on biological processes in the Antarctic, which are most probably affected by climate change. Promoting the understanding of thresholds and ecosystems responses to it is therefore urgent and important. The quality of the research projects benefits from intensive exchange of ideas and experiences for which SCAR provides the best and broadest platform. We request support in the coordination, dissemination and exchange of information by SCAR beyond financial support, especially by the representatives of national programs, SCAR's LSSG and secretariat, who can shape considerably the success of this new biology program, since AnT-ERA lives not only from the work of the SC but also from contributions from the AnT-ERA community. In particular, assistance with the development and contributions to AnT-ERA's webpage under the umbrella of the SCAR webpage, as this will become an important tool for the exchange of information.

### **Expected Benefits/Outcomes:**

As the main focus of AnT-ERA is science, our major output will be high quality scientific publications, promoting the integration of early career scientists, emerging national programs and interdisciplinary as well as international cooperation.

### **Partners:**

The best cooperation at the SCAR level exists already with AntClim21 and AntEco. Nine months after the start of these programs success is foreseeable. However, at this stage, it is too early to provide concrete evidence. Relationships with others, e.g. CCAML are under development.

### **Budget Implications:**

The success of AnT-ERA is based around actions that do not require extra funds and those that demand the monetary help of SCAR. The coordination of research projects, including newly emerging programs can be best implemented by having the experts meet. Such joint workshops as well as facilitating participations of early career scientists in various SCAR and non-SCAR workshops depend on future funding.

## **WP14: Past Antarctic Ice Sheet Dynamics (PAIS)**

**Authors:** C. Escutia, R. DeConto, K. Gohl, R. Larter, R. Powell, L. De Santis, M. Bentley

### **Introduction/ Background:**

The overarching goal of PAIS is to improve confidence in predictions of ice sheet and sea level response to future climate change and ocean warming. For this, PAIS aims to improve understanding of the sensitivity of East, West, and Antarctic Peninsula Ice Sheets to a broad range of climatic and oceanic conditions. Study intervals span a range of timescales, including past “greenhouse” climates warmer than today, and times of more recent warming and ice sheet retreat during glacial terminations. The PAIS research philosophy is based on data-data and data-model integration and intercomparison, and the development of “ice-to-abys” data transects, extending from the ice sheet interior to the deep sea. The data-transect concept will link ice core, ice sheet-proximal, offshore, and far-field records of past ice sheet behaviour and sea level, yielding an unprecedented view of past changes in ice sheet geometry, volume, and ice sheet-ocean interactions. These integrated data sets will enable robust testing of a new generation of coupled Glacial Isostatic Adjustment-Ice Sheet-Atmosphere-Ocean models that include new reconstructions of past and present ice bed topography and bathymetry. PAIS will accomplish its objectives by: 1) facilitating the planning of new data-acquisition missions using emerging technologies; 2) encouraging data sharing and integration of spatially targeted transect data with modelling studies; and 3) initiating/expanding cross linkages among Antarctic research communities.

### **Important Issues or Factors:**

PAIS continent-to-abys transects build on ongoing and planned projects and therefore guarantee continuous deliverables.

### **Recommendations/Actions and Justification:**

Support for PAIS plans for the remaining life of the Programme and input from EXCOM on PAIS plans based on the SCAR Strategic Plan and the Horizon Scan outcomes.

### **Expected Benefits/Outcomes:**

Publications and science relevant to large international programmes/initiatives and policy makers, enhancement of SCAR profile.

### **Partners:**

ANDRILL, IODP, ICDP, AntECO, APECS, IGBP-PAGES, IPICS, ISMASS, SCADM, SCERCE, SHALDRIL and other SCAR Expert and Action Groups.

### **Budget Implications:**

Request for confirmation of SCAR science programme funding at current level until the internal progress review.



# WP15: Solid Earth Response and influence on Cryospheric Evolution (SERCE)

**Authors:** Terry J Wilson

## **Introduction/ Background:**

The Solid Earth Response and influence on Cryospheric Evolution (SERCE) SRP targets new understanding of solid earth – cryosphere interactions at a crucial time in earth history when global change is driving variations in mass balance of the polar ice sheets. SERCE promotes integration of new earth science data sets into modeling of ice mass balance, ice dynamics, and solid earth responses to mass change.

## **Important Issues or Factors:**

- Successful Activities have been completed, including AGU/EGU thematic sessions, 2 SCAR OSC thematic sessions, and an international science symposium.
- Postponement of ‘training school’ from 2014 to 2015, carry over of funds required
- Planned activities requiring support in 2015-16

## **Recommendations/Actions and Justification:**

- Approval of budget requests, including carry over, to implement programme plans
- Seek recommendations for partnerships with other international/national organizations pursuing geodynamic and cryospheric research overlapping with SERCE objectives

## **Expected Benefits/Outcomes:**

- Partnerships between SCAR-SERCE and other organizations effectively leverage the scope and impact of science and outreach activities
- Science infrastructure, capacity, data sharing and collaboration facilitated through SERCE activities

## **Partners:**

SERCE has engaged, or seeks, international partners to leverage each activity. Partners that have been identified are:

- International Lithosphere Programme, Upper Mantle Dynamics and Quaternary Climate in Cratonic Areas (DynaQlim) and new group
- International Association of Geodesy
- EGU Training School funding scheme
- U.S. National Science Foundation (training schools)
- ISMASS
- CLIC
- APECS

## **Budget Implications:**

Carry over of Funding of \$19,780 allocated in 2014; \$23,000 for 2015 and \$25,000 for 2016 are requested to support SERCE activities.

## WP16: Report of the SCAR Social Sciences Action Group

**Authors:** D. Liggett, J.F Salazar, E. Leane, K. Bastmeijer, S. Chaturvedi, A.D. Hemmings, M. Lamers, J. O'Reilly, G. Steel, E. Stewart and other members of the steering group.

**Introduction/Background:** Increasingly, Antarctic institutions and stakeholders acknowledge the costs and benefits of human activities in Antarctica not merely from an economic perspective but also from environmental, social and cultural points of view. The coverage (in the media and in policy discussions) of the many aspects of human endeavour in the Antarctic asks policy-makers, educators, scientists and the wider public to weigh multiple costs and benefits (that is to say, values) against one another. Understanding the extent and nature of the values that human beings place on the Antarctic has large-scale and very serious implications for human engagement with and activity in the region in the future and significant public-relations implications in relation to the wider social acceptability of even traditional forms of Antarctic activity.

**Important Issues or Factors:** Social scientists and humanities researchers have the expertise and tools to lead an academic assessment of Antarctic values and other questions linked to human presence in the Antarctic or its cultural, political, social and behavioural dimensions. The Social Sciences AG (hereon "the group") was established to carry out research targeted at understanding the range of values underpinning human engagement with Antarctica. As shown in this report (including its appendices), this research effort has progressed considerably. At the same time, as a result of this research, it has become clear that continued research into Antarctic values needs to be cognisant of broader considerations around human presence in Antarctica. A concomitant broadening of the humanities and social sciences research agenda within SCAR promises considerable benefits in the long run, especially with regard to understanding human behaviour, impacts, influence and decision-making in an Antarctic context and developing alternative strategies for environmental management.

**Recommendations/Actions and Justification:** We request that the group be designated Expert Group status to maintain and expand the momentum established through the Antarctic values research project and to incorporate and coordinate a greater breadth of existing and new Antarctic social sciences and humanities projects, and potential collaborators, under its umbrella.

**Expected Benefits/Outcomes:** The group will continue to raise the profile of SCAR in the public realm and in social science and humanities research communities by demonstrating that SCAR supports multi-disciplinary research efforts outside the realm of the natural sciences. Social sciences and humanities enquiries and analyses through this group will also help SCAR to better ground its scientific advice in a thorough understanding of the drivers of human engagement with the Antarctic. Finally, a range of academic publications resulting from this research effort will bolster SCAR's scholarly record in the social sciences and humanities.

**Partners:** The group collaborates with the SCAR History EG, as highlighted by a joint SCAR History and Social Sciences workshop (Cambridge, UK, 1-5 July 2013) and a joint session at the SCAR OSC 2014.

**Budget Implications:** The group requests the standard operating budget for SCAR Expert Groups (\$5000 per year).

## WP17: History Expert Group

**Authors:** Cornelia Lüdecke

### **Introduction/ Background:**

The Expert Group was founded as an Action Group in 2004. Since the first workshop in Germany in 2005 the Group has flourished and membership of the Expert Group has steadily increased, as has the geographical and disciplinary diversity of the participants. The Group's meetings continue to serve as a valuable discussion space for junior and senior members alike. Meetings have been held across four continents (Africa, Europe, North America, South America), permitting the core group of academic historians to be joined by local researchers who would likely not otherwise have joined the Group. The SCAR Expert Group provides a unique and irreplaceable site for scholars to exchange ideas and develop historical research related to the Antarctic. Collaborative research projects undertaken by some of the group members demonstrate the group's dynamism.

### **Important Issues or Factors:**

The History EG and the Social Sciences AG organized a first joint workshop on „The past, present and future of human connections to the Antarctic“ at the British Antarctic Survey in Cambridge (UK) from 1-5 July 2013. 52 participants from 16 countries presented the results of their recent research in 39 oral papers. The workshop was very successful and both groups shared their ideas during the discussions, which unveiled a remarkable overlap in historical and social aspects of Antarctic research. In the end the participants suggested to continue with these joint workshops.

Additionally, Cornelia Lüdecke represented the History EG at the SCAR Antarctic and Southern Ocean Horizon Scan from 20-23 April 2014 in Queenstown (New Zealand).

### **Recommendations/Actions and Justification:**

We wish to continue the SCAR History Expert Group in its current form and to continue our collaboration with Social Sciences Action Group.

### **Expected Benefits/Outcomes:**

The current high level of publications by Group members will continue, both individually and through collective forums such as special journal issues and a planned edited volume on “Antarctica – A Continent for the Humanities”, edited by three members of the History Expert Group.

### **Partners:**

The SCAR Social Sciences Action Group as well as the history group of the International Arctic Science Committee (IASC).

### **Budget Implications:**

US\$ 5.000 as support of the next SCAR History Expert Group's conference in Tromsø, Norway, in 2015 for travel support for PhD students and scholars of low income.

## WP18: The Southern Ocean Observing System (SOOS)

**Authors:** Louise Newman, Oscar Schofield, Anna Wåhlin, Andrew Constable, Sebastiaan Swart

**Introduction/ Background:** The Southern Ocean influences climate, sea level, biogeochemical cycles and biological productivity on a global scale. Many of the most difficult and pressing issues faced by society—how to mitigate and adapt to climate change and sea-level rise, how to manage the effects of ocean acidification, and how best to conserve marine resources and biodiversity—cannot be addressed effectively without improved understanding of Southern Ocean processes and feedbacks and their sensitivity to change. The most urgent research challenges in the Southern Ocean often span traditionally separate scientific disciplines. SOOS provides the sustained, integrated, multi-disciplinary observations required to meet these challenges.

### **Important Issues or Factors:**

- 1) In 2014, SOOS elected a new Co-Chair (Anna Wåhlin, Sweden) to replace Mike Meredith (UK), and also elected two Vice-Chairs (Sebastiaan Swart (S. Africa), Andrew Constable (Australia)).
- 2) The governance and structure of SOOS, and role of the Scientific Steering Committee (SSC) will be modified to support greater implementation capabilities
- 3) The International Project Office (hosted by the Institute for Marine and Antarctic Studies, University of Tasmania, (IMAS UTas) Australia) only has funding secured for another 2 years. Discussions are taking place to ensure continuation of this support. Currently, only New Zealand and Australia provide support for the IPO. SOOS will need to secure greater international support for the IPO to justify continuation of hosting.
- 4) The 2015 SSC meeting will take place in Hobart, Australia, hosted by IMAS UTas. Date and level of host support TBA.
- 5) SOOS will be holding its inaugural Open Science Conference (OSC) alongside the SSC meeting in Hobart in 2015. It is intended that this event will be fully international and will highlight past, current and planned SOOS-related activities (strategic and field). Funding for this conference will be sought through a number of avenues.

### **Recommendations/Actions and Justification:**

- 1) SCAR provides financial support for the annual SSC meeting. This support is imperative to ensure participation of all of the international SSC members. SOOS greatly appreciates the support provided by SCAR, and requests that this support is continued for 2015.
- 2) Although planning is at the early stages, SCAR will be invited to sponsor the planned SOOS OSC. SOOS requests that the delegates consider the merit of such sponsorship.

### **Expected Benefits/Outcomes:**

- 1) Continuation of the support for the SSC meeting will ensure participation by all SSC members, which is imperative for planning and implementation of SOOS objectives.
- 2) SCAR sponsorship of the SOOS OSC is likely to either be used to provide travel support for participants, or will be used to reduce the running cost of the conference so that registration fees can be kept to a minimum.

### **Partners:**

- 1) SCOR provides 10,000 USD towards the annual SOOS SSC meeting. Discussions will be had with the 2015 SSC meeting host, IMAS, regarding a level of host support for this meeting.
- 2) Additional sponsorship and support for the SOOS OSC will be sought over the coming year.

### **Budget Implications:**

- 1) 10,000 USD are requested to support the 2014 SSC meeting.
- 2) SOOS cannot suggest a level of sponsorship for the SOOS OSC at this time. The decision to hold an OSC was made only 1 week ago and time is required to develop a budget for the conference. It is expected that the SOOS Executive Officer will communicate with the SCAR Secretariat on this matter in the coming months.

## WP19: The Southern Ocean Acidification Report

**Authors:** R Bellerby, M Sparrow (plus various for actual Acidification Report)

**Introduction/ Background:**

SCAR formed an AG to write a high-profile report on Ocean Acidification in the Southern Ocean.

**Important Issues or Factors:**

Publication of the report has been moved to 1st June 2015 to coincide with the next Antarctic Treaty Meeting.

**Expected Benefits/Outcomes:**

This report will be the definitive report on ocean acidification in the Southern Ocean. It should be recognised that this report will have impact beyond SCAR, in particular with the Antarctic Treaty.

**Budget Implications:**

A total of \$10,000 was approved from various different budget lines.

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## WP20: Review of SCAR Co-sponsored groups and activities

**Authors:** YD Kim, M Sparrow

**Introduction/ Background:** Noting that SCAR now co-sponsors groups and activities jointly with other organisations, the SCAR Executive decided to carry out an internal review of these co-sponsorships to:

1. Ensure that such co-sponsorships are of benefit both to SCAR and to the groups/activities themselves and make recommendations on a case by case basis as to how such co-sponsorships could be improved
2. Come up with recommendations as to how such groups/activities are best handled within the current SCAR structure

**Recommendations/Actions and Justification:** Delegates are asked to review the recommendations with regards to the different co-sponsored groups and discuss/approve as appropriate.

**Expected Benefits/Outcomes:** A more consistent framework for SCAR co-sponsored activities

**Partners:** Various

## **WP21: Concept – International Polar Partnership Initiative (IPPI)**

**Authors:** V Ryabinin, M Sparrow

**Introduction/ Background:** In order to facilitate the concept of an International Polar Partnership Initiative (IPII) a Concept Note Steering Group was formed from representatives of AMAP, APECS, EPB-ESF, IASC, IASSA, ICSU, IOC, SCAR, WMO, UoA and UNEP. The Executive Director represented SCAR, but included the rest of the Executive Committee in the discussions.

**Recommendations/Actions and Justification:** Delegates are requested to note progress and comment as appropriate

**Expected Benefits/Outcomes:** If approved the IPII could result in improved coordination between organisations and more efficient use of resources. It should be noted that this is a 'top-down' initiative and buy-in from the Antarctic Community at least is still a challenge.

**Partners:** AMAP, APECS, EPB-ESF, IASC, IASSA, ICSU, IOC, WMO, UoA and UNEP...

**Budget Implications:** No funds requested as yet

## WP22: Standing Committee on Antarctic Data Management (SCADM)

**Authors:** Taco De Bruin (Chief Officer), Anton Van de Putte, Robert Arko (Co-Deputy Chief Officers)

**Introduction/ Background:** The Standing Committee on Antarctic Data Management (SC-ADM) helps facilitate co-operation between scientists and nations with regard to scientific data. It guides the development of the Antarctic Data Directory System and advises SCAR and SCAR-members on data issues. The SCADM Terms of References are:

- Promotion of Antarctic data management
- Providing guidance to the Antarctic Master Directory host
- Establishing Antarctic data management policies and priorities

### **Important Issues or Factors:**

- **More National Antarctic Data Centres (NADCs) needed to preserve invaluable Antarctic data**  
SCAR has 37 Members and Associate Members. Yet, only some 15 (Associate) Members have established or designated a data centre or a national point of contact for Antarctic data, even though the ATCM called upon nations to establish a National Antarctic Data Centre (NADC) back in 1998. As a result very valuable Antarctic data run the risk of being lost forever.  
SCADM is working on a targeted approach to include those countries not yet represented in SCADM and to help those countries in developing the required infrastructure for Antarctic data management.
- **Encouraging scientists to submit metadata to the Antarctic Master Directory**  
The Antarctic Master Directory (AMD) forms the cornerstone of the SCAR Antarctic Data Directory System (ADDS). The AMD is the central directory system containing all Antarctic data set descriptions gathered by NADCs. It is the largest directory of Antarctic data set descriptions in the world and forms the basis for data management and data preservation for SCAR and at the national and Antarctic programme level.  
It is important that SCAR projects, national Antarctic programmes and international projects require scientists to submit metadata to the Antarctic Master Directory.

### **Recommendations/Actions and Justification:**

- Delegates from the countries not yet represented in SCADM are kindly requested to help SCADM contact the proper authorities (national Antarctic research programmes, funding agencies, etc.) within their countries or national Antarctic program and to assist in identifying data centres in their respective countries who can take on the role of National Antarctic or Polar Data Centre.
- Delegates are kindly requested to assist SCADM in making submission of metadata to the AMD a requirement for that SCAR projects, national Antarctic programmes and international projects

### **Expected Benefits/Outcomes:**

Better preservation of Antarctic data, for future generations of scientists and for society to use.

### **Partners:**

SCAGI, WDS, all SCAR SSGs, SCs, EG-ABI (Expert Group on Antarctic Biodiversity Informatics), etc.

### **Budget Implications:**

\$5000 a year for SCADM, to organize the annual meetings and to support SCADM members in attending these meetings.

# WP23: Standing Committee on Antarctic Geographic Information (SCAGI)

**Authors:** Adrian Fox and Jean-Yves Pirlot, SCAGI co-Chief Officers

## **Introduction/ Background:**

All work in Antarctica relies on a consistent geographic framework, and the main function of the Standing Committee on Antarctic Geographic Information (SCAGI) is to manage and improve the geographic framework not only for Antarctic scientific research but also for other activities including operations, environmental management and tourism. SCAGI continues to deliver, and actively develop, a range of Geographic Information products through its various projects. These products include: the [SCAR Composite Gazetteer of Antarctica](#), the [SCAR Antarctic Digital Database](#), and the [SCAR Map Catalogue](#). The usage statistics included in the report below show that these are active products that are used and valued by the Antarctic community.

SCAGI integrates topographic and names information received from national Antarctic programmes into the SCAR ADD and SCAR Composite Gazetteer of Antarctica. In keeping with Article III.1.c of the Treaty that Scientific observations and results from Antarctica shall be exchanged and made freely available, SCAGI promotes an open standards approach to support free and unrestricted data access and develops the respective specifications.

## **Important Issues or Factors:**

Most of the effort in SCAGI comes from a few committed members. To ensure maximum effectiveness for SCAR, SCAGI is focusing its limited resources on delivering the three main SCAR-SCAGI products: Composite Gazetteer of Antarctica (CGA), Antarctic Digital Database (ADD), SCAR Map Catalogue (MapCat).

The SCAR products can only be as good as the data that are in them. It is critical for the continued relevance and utility of the SCAR-SCAGI products that SCAR members contribute all new maps, topographic data, and place-names information to the ADD, MapCat and CGA in a timely manner.

The SCAR Composite Gazetteer of Antarctica is a key product for SCAGI that is widely used by the Antarctic community (see usage statistics below). It has for many years been managed by Roberto Cervellati and Chiara Ramorino, of the Italian National Antarctic Research Programme (PNRA). Both Cervellati and Ramorino have done outstanding work on the CGA, but are both now retired and wish to step back from this role. PNRA Italy have stated that they are able to continue to manage the CGA and have nominated Prof Carlo Baroni, University of Pisa as the successor. The SCAGI group would like to thank PNRA for the continuing support for the CGA.

## **Recommendations/Actions and Justification:**

Delegates should ensure that they are familiar with the work that SCAGI does and encourage their national representatives to become involved with and contribute all new data to SCAGI products. Delegates should ensure that retiring national representatives are replaced with a successor national representative and that the SCAGI co-Chairs are informed of this change.

## **Expected Benefits/Outcomes:**

Wider engagement by the Antarctic community would help SCAGI to continue to develop, and deliver effectively, reliable relevant Geographic Information Services to the Antarctic science and operations communities. Maintaining the position of SCAR as the source of Geographic Information Services such as the ADD and CGA supports the SCAR Strategic Plan objective of an international leadership role for SCAR.

## **Partners:**

SCADM, SCAR member countries, other organizations with an interest in Antarctic geographic Information such as COMNAP, CCAMLR, Antarctic Treaty System, IHO, NASA, Google.

## **Budget Implications:**

For the SCAR CGA and SCAR ADD to be improved, it requires that, either SCAGI members take on the necessary work or the work is outsourced. Continuation of \$4k a year allocation.



## **WP 24: Report of the SCAR Delegation to CEP XVII and XXXVII ATCM in Brasilia, Brazil, 28 April – 7 May 2014**

**Authors:** M. Sparrow, S. Chown, J. López-Martínez, K. Hughes, A. Terauds

### **Introduction/ Background:**

SCAR provides objective and independent scientific advice to the Antarctic Treaty Consultative Meetings and other organizations on issues affecting the conservation and management of Antarctica.

### **Important Issues or Factors:**

SCAR provided one Working Paper (WP), six Information Papers (IPs) and two Background Papers (BP). Several of them were submitted jointly with other Parties, Observers and Experts. It also provided input to intersessional groups such as the contact group on climate change and focussed effort on the Environments Portal, led by New Zealand. The SCAR Lecture, given by Carlota Escutia-Dotti was on "Back to the Future: Past Antarctic Climates, Ice Sheet History & Their Relevance for Understanding Future Trends".

### **Agreements:**

The following agreements were made (either during the meeting itself or in previous discussions):

- SCAR will continue to play an active role in supporting the Environments Portal project and developing and reviewing the content of the Portal
- SCAR to continue to provide updates to its ACCE report and to engage with other bodies, such as the UNFCCC, as funds allow
- SCAR and COMNAP to produce a report (or reports) on the utility and risks of UAV operation in the Antarctic.
- SCAR to present a report on the results of the SCAR Science Horizon Scan
- SCAR to consider identification of outstanding geological features and requirements for their protection
- SCAR will present its report on Southern Ocean Acidification to the Treaty
- SCAR will participate in discussions on a possible workshop on Education and Outreach activities to be held in association with ATCM XXXVII in Bulgaria 2015.
- SCAR agreed to include coastal camping as part of its consideration of appropriate approach distances from wildlife.
- The ATCM decided to invite SCAR to give a lecture on scientific issues relevant to ATCM XXXVIII

### **Budget Implications:**

\$20k per year for SC-ATS. Funds are also budgeted so the SCAR Delegation can attend the Antarctic Treaty Meetings.

## WP26: A possible SCAR Review

**Authors:** J. López-Martínez and EXCOM

**Introduction/ Background:** The current SCAR structure and Rules of Procedure are those approved following the major SCAR review in 2004. The restructuring has been a major success. However, in light of the last years' experience and considering the SCAR current context and perspectives, it is timely to evaluate if possible improvements can or should be made.

**Important Issues or Factors:** Over the years the practice has been to adapt some aspects of the procedures to be more efficient both from a time and cost viewpoint (e.g. to hold SCAR Delegates Meetings immediately after the Business meetings and OSC). It should be analyzed if the evolution and perspectives of SCAR and its subsidiary bodies, SRPs and other initiatives recommend changes in the structure and rules of procedure. The view of the aforementioned groups is particularly relevant for this discussion. To conduct this exercise in parallel to the preparation of the new SCAR Strategic Plan 2017-2022 would facilitate synergies and coordination.

**Recommendations/Actions and Justification:** Delegates are asked to discuss/approve as appropriate if an ad hoc group to examine the SCAR structure and Rules of Procedure should be established and to decide its terms of reference.

**Expected Benefits/Outcomes:** This review would contribute to ensuring that SCAR is an efficient organization that is in a position to adapt to new circumstances. The ad hoc group jointly with the EXCOM would present to the SCAR Delegates a proposal of possible changes in the structure and Rules of Procedure to be discussed/approved in the XXXIV SCAR Meeting (Malaysia, August 2016).

**Partners:** Proposed composition of the ad hoc group: SCAR president, two vice-presidents, Executive Director, Chairs of the three SSGs, Chairs of two of the Standing Committees, Chairs of two of the SRPs.

**Budget Implications:** To reduce travels and cost, most of the job of the ad hoc group would be done by e-mail and teleconference. The discussion of this issue with the EXCOM will be during the spring 2015 EXCOM Meeting, in which all the members of the ad hoc group will participate. Before the EXCOM meeting there will be a teleconference meeting of the ad hoc group in which those members available (and having easier/cheaper journeys) will meet in Cambridge (this would have a cost to be considered).

## WP27: The next SCAR Strategic Plan 2017-2022

**Authors:** J. López-Martínez, M. Sparrow and EXCOM

**Introduction/ Background:** The current SCAR Strategic Plan 2011-2016 ends in late 2016. The preparation of a new Strategic Plan for the period 2017-2022 should start in the coming months, to allow preparation and adequate discussion that culminates finally in a document to be presented to the SCAR Delegates in August 2016 at the XXXIV SCAR Meeting in Malaysia, and finally with the new Strategic Plan in place by the end of 2016.

**Important Issues or Factors:** This paper outlines a procedure for the preparation of the new Strategic Plan 2017-2022. It is not about its content, which will be prepared, discussed and adopted after a broad consultation and discussion process. To reduce costs, it is proposed that apart from several broad consultations during the process, an in-depth discussion about the new Strategic Plan should be held with the 2015 EXCOM Meeting, with participation of the Strategic Plan Team (SPT), which would be composed of all the EXCOM Members, SSGs and SCs Chief Officers, SRPs Chairs and the SCAR Secretariat.

**Recommendations/Actions and Justification:** Delegates are asked to review the initial ideas for the preparation of the new Strategic Plan and discuss/approve as appropriate.

**Expected Benefits/Outcomes:** The Strategic Plan will be a forward-looking vision of what SCAR should do to achieve its mission. It will provide an internal and external overview of SCAR and will be a framework and guide to conduct SCAR activities in the 2017-2012 period.

**Partners:** Various

**Budget Implications:** If the proposed preliminary timetable and procedure is adopted, an additional day during the 2015 EXCOM Meeting (tentatively in late spring 2015 in Tromsø, Norway) would be needed to discuss this issue, including some additional participants. A second meeting in early 2016 should also be considered, depending on the outcomes of the 2015 discussions. To reduce travels and costs, this meeting would be in Cambridge with physical participation of those SPT members available (and having easier/cheaper journeys), and teleconference connection with the others.

## WP28: Finance Strategy - Update

**Authors:** M Sparrow, R Badhe, B Storey, J Lopez-Martinez

**Introduction/ Background:** This paper briefly summarises progress with aspects of the SCAR finances of most concern to SCAR Delegates.

**Important Issues or Factors:** The percentage of funds spent on Science has increased significantly since 2010 (from an average of 33% to 40%), Science Advice has remained level as has spending on Capacity Building. Salaries and associated costs have come down (34% to 30%). External fund raising is continuing to be successful and a Development Council has been formed. The Secretariat continue to explore ways in which to reduce costs.

**Recommendations/Actions and Justification:** SCAR Delegates to note progress and comment/ make suggestions as appropriate.

## WP29: 2012 Financial Statement (Summary)

### INCOME:

➤	Membership Fees and Other Income <sup>1</sup> :	506,734\$
➤	External Income (encumbrances) <sup>2</sup> :	321,992\$

**TOTAL SCAR INCOME:** **828,725\$**

### EXPENDITURE:

➤	Scientific Activities:	224,618\$
➤	Scientific Advice:	48,934\$
➤	Capacity Building, Education and Training:	47,466\$
➤	Routine Business Meetings:	23,864\$
➤	Publications:	86\$
➤	Administrative expenses:	
○	Salaries and staff costs	181,677\$
○	Bank charges and Loss on exchange rate	8,336\$
○	Other Admin expenses	48,109\$

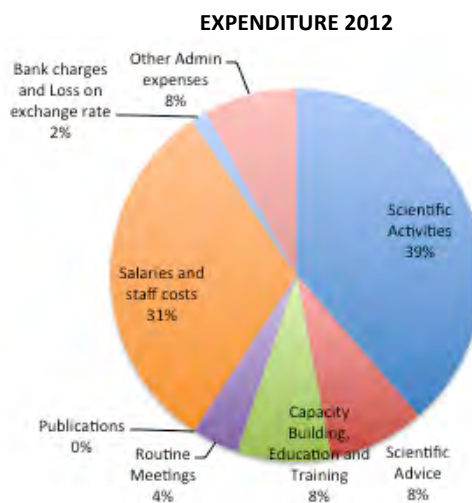
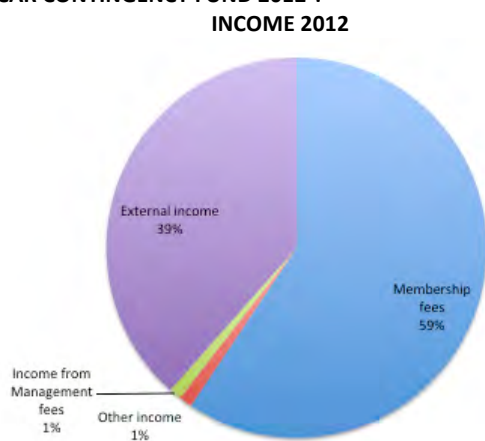
**TOTAL EXPENDITURE:** **583,089\$**

Opening balance 1 Jan 2012:		551,621\$
➤	Actual Income – Expenditure:	245,636\$
➤	Less encumbrances (external income):	321,992\$
Closing Balance 31 Dec 2012:		475,266\$

Which consists of:

<b>FUNDS CARRIED FORWARD TO 2013<sup>3</sup>:</b>	<b>58,555\$</b>
<b>LESS CREDITOR, ADD DEBTOR<sup>4</sup>:</b>	<b>2,827\$</b>
<b>SCAR RESERVE 2012<sup>5</sup>:</b>	<b>281,298\$</b>

### SCAR CONTINGENCY FUND 2012<sup>6</sup>:



1 All money in SCAR bank a/cs on 1.1.2012, except external restricted funds, which are accounted for separately

2 Note that since SCAR is now receiving income from several sources but earmarked for specific projects (e.g. Martha Muse Prize, SCAR MarBIN - so called encumbrances or External Income) these have been separated from income that is available for SCAR to allocate.

3 Unspent funds (carried forward to 2013 with agreement of EXCOM were EBA, Ocean acidification, SC-ATS, Visiting Professor, SCAR website).

4 Reflecting balance of Creditors - EUR 5000 due to IACS for ISMASS (\$6,425) and Debtors EUR 7200 (\$9,252) due from GBIF.

5 SCAR Reserve is a fund to cover routine meetings and admin expenses for a full year (not exchange rate losses). It has been calculated as (Routine meetings + Administrative expenses)+10%. The Administrative expenses do not include losses due to exchange rate fluctuations.

6 The Contingency fund is the additional funds left to SCAR after committed funds and the Reserve have been taken into account. These funds may be used for one-off expenses or investments with EXCOM/Delegates approval.

## WP30: 2013 Financial Statement (Summary)

### INCOME:

➤	Membership Fees and Other Income <sup>7</sup> :	557,396\$
➤	External Income (encumbrances) <sup>8</sup> :	590,249\$

**TOTAL SCAR INCOME: 1,147,645\$**

### EXPENDITURE:

➤	Scientific Activities:	161,466 \$
➤	Scientific Advice:	20,717\$
➤	Capacity Building, Education and Training:	66,193\$
➤	Routine Business Meetings:	21,198\$
➤	Publications:	1,122\$
➤	Administrative expenses:	
○	Salaries and staff costs	164,758\$
○	Bank charges and Loss on exchange rate	12,005\$
○	Other Admin expenses	65,054\$

**TOTAL EXPENDITURE: 512,270\$**

Opening balance 1 Jan 2013:		475,267\$
➤	Actual Income – Expenditure:	635,375\$
➤	Less encumbrances (external income):	590,249\$
Closing Balance 31 Dec 2013:		520,393\$

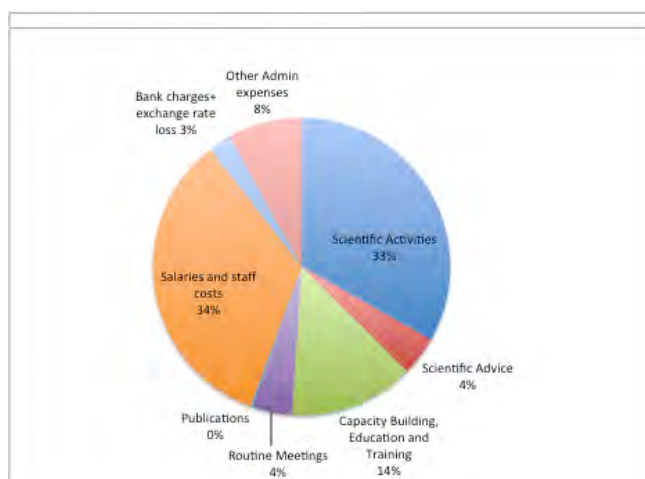
Which includes:

<b>FUNDS CARRIED FORWARD TO 2014<sup>9</sup>:</b>		<b>192,166\$</b>
<b>LESS CREDITOR, ADD DEBTOR:</b>		<b>3,625\$</b>
<b>SCAR RESERVE 2013<sup>10</sup>:</b>		<b>279,625\$</b>
<b>SCAR CONTINGENCY FUND 2013<sup>11</sup>:</b>		<b>44,977\$</b>

**INCOME 2013**



**EXPENDITURE 2013**



<sup>7</sup> All money in SCAR bank a/cs on 1.1.2013, except external restricted funds, which are accounted for separately

<sup>8</sup> Note that since SCAR is now receiving income from several sources but earmarked for specific projects (so called encumbrances or External Income) these have been separated from income that is available for SCAR to allocate.

<sup>9</sup> Unspent funds (carry forward of funds from 2013 to 2014 is allowed).

<sup>10</sup> SCAR Reserve is a fund to cover routine meetings and admin expenses for a full year (not exchange rate losses). It has been calculated as (Routine meetings + Administrative expenses)+10%. The Administrative expenses do not include losses due to exchange rate fluctuations.

<sup>11</sup> The Contingency fund is the additional funds left to SCAR after committed funds and the Reserve have been taken into account. These funds may be used for one-off expenses or investments with EXCOM/Delegates approval.

## **WP34: Allocation of funds from the Prince Albert II of Monaco Foundation (Prix Biodiversité)**

**Authors:** Mike Sparrow, Jerónimo López-Martínez, Bryan Storey, Karin Lochte, Renuka Badhe

### **Introduction/ Background:**

In September 2014, SCAR was awarded the Prince Albert II of Monaco Foundation's 2013 Prix Biodiversité (<http://www.fpa2.com/actualite-425-annee-2013-trimestre-3.html>). The Prize was awarded in recognition of SCAR's contribution to science and its work to improve our understanding of the environment. The Prize came with a monetary award of 40,000 Euros.

In January SCAR National Delegates and Chief Officers were asked by email for ideas as to how the funds should be spent. These have been summarized in this paper.

### **Recommendations/Actions and Justification:**

The SCAR Delegates are requested to review, to suggest new ideas or, if they agree, to approve using the funds from the Prix Biodiversité (40,000 Euros or ~US\$55,000) to award a Prince Albert II Fellowship (in addition to the normal SCAR/COMNAP Fellowships) every year, while exploring mechanisms for continuing this scheme into the future.

## IP01: The SCAR Products

**Authors:** M Sparrow

**Introduction/ Background:** For the benefit of SCAR scientists and the wider community (including the Committee for Environmental Protection), SCAR provides several products that support the work of SCAR scientists but are also made widely available to others. These products provide scientific information in a form that is useful to scientists and others, for example providing meteorological data (Met-READER) or biodiversity data (e.g. biodiversity.aq) in a more easily usable format or providing access to information on bathymetry in the Southern Ocean (IBCSO).

**Important Issues or Factors:** Highlights since the last Delegates' Meeting include the production of IBCSO Version 1.0, publication of BEDMAP 2 and amalgamation of SCAR MarBIN and ANTABIF into Biodiversity.aq

**Partners:** SCAR products rely on national efforts to lead with the SCAR Products. Some Products are joint with other organisations e.g. IBCSO is SCAR, IODC and the IHO

**Budget Implications:** Some Products receive support from the SSGs

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## IP02: Partnerships

**Authors:** M. Sparrow

**Introduction/ Background:** In pursuit of its Vision and Mission, SCAR often forms partnerships as an efficient means to achieve its goals and objectives. SCAR's partners include other ICSU bodies, entities of the Antarctic Treaty System, organizations with a polar focus, and organizations with a polar interest. The types of partnerships SCAR form vary considerably since each is tailored to best accomplish the shared objectives. In some instances, formal co-sponsorship of an activity is warranted entailing shared responsibility for programme management and resourcing. SCAR is always open to, and looking for ways, to strengthen existing partnerships and establish new ones.

This paper summarises recent developments with regards to SCAR partnerships. The SCAR Delegates are asked to comment as appropriate.

**Partners:** APECS, IASC, IACS, COMNAP, CCAMLR, ICSU, SCOR, WCRP, PEI, EPB, WMO etc.

**Budget Implications:** Co-sponsorship does involve some budgetary commitments. This is \$3000 for CliC (as previous) and \$4000 for other co-sponsorships such as CLIVAR/CliC/SCAR Southern Ocean Implementation Panel, IPICS and ICED. The SOOS SSC is also jointly co-sponsored with SCOR to the sum of \$8,000 (all 2014 figures). SCAR often supports APECS activities through its CBET budget line. Note that Co-sponsorships are being reviewed under item 4.4.5 (WP 20).



## IP03: SCAR MoUs and other agreements

**Authors:** M Sparrow, J López-Martínez, Y-D Kim

### **Introduction/ Background:**

In pursuit of its Vision and Mission, SCAR often forms partnerships as an efficient means to achieve its goals and objectives (see IP 2). In some instances, a formal agreement is signed as a means to outline the mutual benefits of such a partnership.

### **Important Issues or Factors:**

In 2013 several agreements were renewed during the IASC Council meeting in Poland and signed on behalf of SCAR by the SCAR President: (a) Renewal of the Letter of Agreement between SCAR, IASC and IACS, (b) Renewal of the Memorandum of Understanding between APECS, IASC and SCAR (c) Renewal the Memorandum of Understanding between CliC, IASC and SCAR.

In 2014, again during the IASC Council Meeting (this time in Finland), a new Memorandum of Understanding between the European Polar Board, IASC and SCAR was signed (again by the President) and the Memorandum of Understanding between the International Permafrost Association, IASC and SCAR was renewed.

MoUs and other agreements can now be viewed from the new SCAR website at:

<http://www.scar.org/partnerships/agreements>

### **Recommendations/Actions and Justification:**

Initial discussions on a possible MoU or other agreement between SCAR and the Asian Forum on Polar Sciences (AFOPS) have been held by the SCAR EXCOM and within AFOPS. Delegates are invited to propose other agreements, noting that such agreements should be seen to encourage mutually beneficial active partnerships.

**Partners:** IASC, APECS, IACS, CliC, IGS, EPB, IPA and others...

**Budget Implications:** N/A

## IP06: Martha T Muse Prize for Science and Policy in Antarctica

**Authors:** R. Badhe

### **Relevant URLs or references to other reports**

<http://www.museprize.org/>

<http://www.tinker.org/content/martha-t-muse-prize>

**Introduction/ Background:** The Martha T. Muse Prize for Science and Policy in Antarctica is a prestigious US\$100,000 unrestricted award presented to an early or mid stage career researcher in the fields of Antarctic science or policy. The award recognizes and honours individuals with the potential for sustained and significant contribution that enhance the understanding and/or preservation of Antarctica. The Prize is a legacy of the International Polar Year 2007-2008. It is administered by the Scientific Committee on Antarctic Research (SCAR) and awarded by the Tinker Foundation. The Selection Committee for the Prize consists of six members of the Antarctic Community representing as highly respected and diverse backgrounds (geopolitically, by discipline and by gender) as possible.

**Important Issues or Factors:** Established in 2009, the Muse Prize has gained global recognition within the Antarctic and general science community. Prize recipients have had international representation with winners from South Africa (2009), USA (2010), Portugal (2011), Australia (2012), UK (2013) and New Zealand (2014).

**Recommendations/Actions and Justification** In 2013, funding was confirmed for years, 2014-18 inclusive, with a total funding of USD >1 million (for 2014-18). The Tinker Foundation also sponsored a Colloquium of the first 5 winners, in association with the Horizon Scan, in Queenstown, New Zealand in April.

**Expected Benefits/Outcomes:** The contribution of the Muse Prize towards honoring early and mid career leaders in Antarctic science and policy is in line with SCAR's aims. The SCAR mission is to "be the leading non-governmental, international facilitator and advocate of research in and from the Antarctic region, to provide objective and authoritative scientific advice to the Antarctic Treaty and others, and to bring emerging issues to the attention of policy makers". The Muse Prize allows SCAR to contribute towards its mission by meeting strategic plan aims to: i) encourage excellence in Antarctic and Southern Ocean research, II) developing the capacity of early career scientists, and III) identify evolving issues and emerging frontiers in Antarctic science.

**Partners:** the Tinker Foundation

**Budget Implications:** The Muse Prize pays a Management fees to SCAR (USD 8,739) and for salaries of EO and AA (USD 14,797), a total of USD 23,536 for 2014.

## **IP07: Communication Activities**

**Authors:** M Sparrow, R Badhe, E Griffin

### **Introduction/ Background:**

SCAR increases the visibility of the organization and its activities through Communication. SCAR develops cooperation with partners; mobilizes resources; effectively links the Secretariat staff with SCAR's Executive Committee, scientific activities, and other organizations; ensures that all SCAR members are aware of opportunities to participate in SCAR; and establishes SCAR as the preferred source of scientific information for policy makers, scientists and journalists looking for information with respect to scientific issues in the Antarctic and Southern Ocean region.

### **Important Issues or Factors:**

The new SCAR website is now live. This has been a major undertaking and the Secretariat will continue to expand the website over the coming months.

### **Expected Benefits/Outcomes:**

Increased visibility for SCAR, and dissemination of information in a range of matters, in order to create maximum impact.

### **Partners:**

National Antarctic Organisations' PR groups, other international organisations such as COMNAP, IASC, Science Media Center, etc.

### **Budget Implications:**

A standard publication budget of around \$2000; additional requests are made as required.

## **IP08: Plans for SCAR 2016**

**at KLCC, Kuala Lumpur, Malaysia, 19-31 August 2016**

**Authors:** Prof. Dr. Azizan Abu Samah

**Introduction/ Background:** The National Antarctic Research Centre of Malaysia on behalf of the Ministry of Science, Technology, & Innovation, Malaysia is given the honor to hold the SCAR 2016 OSC and Delegates Meeting at the XXXII SCAR Meeting in Portland, Oregon, USA.

**Important Issues or Factors:** We are glad to inform the delegates that the progress of planning is going well and would like to welcome the SCAR community to the XXXIV SCAR Meeting in Kuala Lumpur, Malaysia.

**Recommendations/Actions and Justification:** We hope the delegates can assist in promoting this event among our SCAR community to make this a success.

**Expected Benefits/Outcomes:** This will be the first time the SCAR OSC will be held in Asia and we hope that there will be a stronger Asian presence in Kuala Lumpur.

**Partners:** Malaysian Ministry of Science, Technology, & Innovation (MOSTI), Sultan Mizan Antarctic Research Foundation (YPASM), National Antarctic Research Centre (NARC), University of Malaya (UM)

**Budget Implications:** some

## **IP10: Plans for ISAES 2015** **(12th International Symposium on Antarctic Earth Sciences)**

**Authors:** Naresh Pant

### **Introduction/ Background:**

Preparations for holding the XII International Symposium on Antarctic Earth Sciences 2015 (XII ISAES-2105) in Goa, India are in full swing. The symposium is being hosted by the National Centre for Antarctic and Ocean Research (NCAOR), Goa. The Scientific Programme Committee has been constituted while the Local Organization Committee has also held its first meetings.

### **Important Issues or Factors:**

The following progress has been achieved:

The dates for the symposium have been finalized from 13-17<sup>th</sup> July 2015. The venue has been finalized and the XII ISAES-2105 will be held at Merriott Hotel Goa. The morning plenary sessions on each day will be followed by three concurrent sessions. A webpage <http://isaes2015.ncaor.gov.in/> is functional where preliminary registrations can be made.

The following broad themes have been listed, though session proposals from all geoscience-related fields are invited.

Broad Themes suggested for XII ISAES 2015 include:

- (i) Transition from persistent to dynamic ice sheet: evidence from ocean sediments
- (ii) Comparative evolution of WAIS and EAIS during the Neogene
- (iii) Antarctica and the supercontinent evolution
- (iv) Cryosphere evolution in the Himalayas - Global versus Regional forcings
- (v) Flight of continents and vertebrate evolution
- (vi) Large Igneous Provinces (LIP) in Gondwanaland
- (vii) Connections between the southern continents
- (viii) Southern ocean processes
- (ix) Interactions between the solid earth and the cryosphere
- (x) Climate, Palaeoclimate and Antarctica

Submission of session proposals has begun from 1<sup>st</sup> August 2014.

It has also been decided that the management of the symposium will be through a professional conference organizing company. Vendors for this have been shortlisted and the selection process is expected to be completed within August 2014.

Short presentations will be made by the Dr. S. Rajan (Director, NCAOR), highlighting the progress regarding XII ISAES 2015, at the Plenary SSG meeting (24<sup>th</sup> August 2014) as well as at the SCAR OSC in Auckland.

## IP12: Secretariat Report

**Authors:** M Sparrow

**Introduction/ Background:** The permanent Secretariat of SCAR consists of Dr Mike Sparrow (SCAR Executive Director), Dr Renuka Badhe (SCAR Executive Officer) and Mrs Rosemary Nash (SCAR Admin Assistant – 50% time). A part time (40%), temporary (to November 2014) was employed using external funds to free up time for the EO to work on the Horizon Scan activity.

**Important Issues or Factors:** With less than 2.5 permanent staff the Secretariat has a very high workload. It is telling that when people visit the Secretariat for the first time they tend to expect a much larger workforce. The Secretariat major activities include preparation for EXCOM/Delegates meetings, the Open Science Conferences, and the Treaty as well as, to a lesser extent, meetings such as COMNAP, CCAMLR etc. For the EO running the Martha T Muse Prize as well as the Finances, and Capacity Building activities such as the SCAR medals, Fellowships, Visiting Professorships are also time consuming as is the reporting for all grants undertaken. In 2013/14, these were the Muse Prize (Tinker Foundation), SCARMarBIN/COSMOS grant, Climate Communications grants, GBIF and ISMASS (ICSU and others). Between Oct 2012 and July 2013 (before the project officer was employed) a significant portion of EO working time was also spent on the Horizon Scan activities. It should be noted that a significant amount of the Secretariat's time is taken up with dealing with routine matters such as managing day to day finances, replying to queries and other communication activities as well as dealing with matters as they arise. Time management assists in this regard, but the time spent with such activities should not be underestimated.

A large fraction of the AA's time was spent on the new SCAR website, which has been a major task over the last year.

## IP13: WMO-led developments in Meteorological (and related) Polar Observations, Research and Services

**Authors:** Steve Pendlebury, Mike Sparrow ...

**Introduction/ Background:** It is a policy of the World Meteorological Organization (WMO) that meteorological (and related) services, such as Antarctic weather forecasting, should be underpinned by methodologies which are based on “solid” research and development. SCAR’s mission is understood to be the leading, independent, non-governmental facilitator, coordinator, and advocate of excellence in Antarctic and Southern Ocean science and research. It is appropriate therefore, that WMO and SCAR work together to facilitate the delivery of effective Antarctic- focused meteorological and related services designed to mitigate “real-time” risks to human operations in the Antarctic, and to mitigate risks to the Antarctic environment resulting from human-induced climate change. SCAR’s role in this partnership would, of course, be based on its capacity for fostering and delivering excellent Antarctic-related science: WMO’s role is to guide and assist its relevant Member States in developing and delivering the services themselves in an effective and efficient manner. To this end WMO has established its Executive Council panel of experts on Polar Observations, Research, and Services (EC-PORS) – SCAR has been a very welcome contributor to recent meetings of EC-PORS.

**Important Issues or Factors:** WMO, through EC-PORS (and others), is championing key initiatives aimed at supporting the above service delivery - these include: a Global Integrated Polar Prediction System (GIPPS) informed by, among other things, a Polar Prediction Project (PPP) and a Polar Climate Predictability Initiative (PCPI). Exceedingly important to each of these are meteorological (and related) observations, whether obtained through the Antarctic Observations Network (AntON), or via the Global Cryosphere Watch (GCW), or space-based.

**Recommendations/Actions and Justification:** Building on the participation of SCAR at recent meetings of EC-PORS, Delegates are invited to note the Antarctic-related work of WMO. Moreover, WMO would warmly welcome SCAR engagement, guidance, and participation in WMO’s Antarctic science-related initiatives, especially those outlined above.

**Expected Benefits/Outcomes:** It is expected that SCAR’s involvement, as sketched above, would lead to more accurate and effective meteorological and related services aimed at mitigating risks to the Antarctic environment and to Antarctic operations.

**Partners:** There is a strong focus within WMO/EC-PORS in maintaining engagement, not only within the WMO system, but with the broader global services, operations, and research communities. A summary of *some* of the potential partners (in addition to SCAR) in the development of science-based Antarctic service delivery includes:

- Antarctic Treaty Consultative Meeting (ATCM); Council of Managers of National Antarctic Programs (COMNAP); and the International Association of Antarctic Tourist Operators (IAATO);
- Programmes such as World Weather Research Programme (WWRP) and the World Climate Research Programme (WCRP);
- WMO technical commissions, such as the Joint WMO/Intergovernmental Oceanographic Commission (IOC) Technical Commission for Oceanography and Marine Meteorology (JCOMM) Expert Team on Sea Ice (JCOMM-ETSI);
- The International Ice Charting Working Group (IICWG);
- International operational numerical weather prediction (NWP) centres such as the European Centre for Medium-range Weather Forecasting (ECMWF) along with the NWP centres of WMO Members states;
- The Antarctic Meteorological Observation Modeling Forecasting Workshop (AMOMFW) community;
- International research centres such as the Byrd Polar Research Center.

**Budget Implications:** At this early stage in the SCAR-WMO partnership, no specific call on the SCAR bottom line is envisaged. No doubt as the partnership matures there may be opportunities for focused and budgeted science campaigns aimed at informing [the scientific development of Antarctic meteorological and related services](#).