



Agenda Item: 7.2

Person Responsible:

A Terauds

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## XXXV SCAR Delegates Meeting Davos, Switzerland, 25-26 June 2018

## SCAR Standing Committee on the Antarctic Treaty System

### **Report Author**

Aleks Terauds (Australia)

### Summary of activities and other important matters from 2016-18

Since the last Delegates Meeting, the SCAR Standing Committee on the Antarctic Treaty System (SC-ATS) continued to focus on the provision of advice to the Antarctic Treaty System and engaged in a range of international activities that enhanced SCAR's reputation as a provider of independent and scientific advice and as a leader in Antarctic science. These activities have included active participation in two CEP/ATCM meetings; the development and support of two major international workshops; maintaining an active and influential role in the Antarctic Environments Portal; and direct involvement in a diverse range of research projects.

SC-ATS continues to energetically pursue the development of new policy-relevant advice through active engagement with international scientists and policy makers. To help achieve this, SC-ATS is continually working on developing ideas to underpin future international workshops, including an important SCAR/CEP initiative to facilitate the further development of an Antarctic protected area system.

#### Recommendations

That the SCAR Executive Committee (ExCom) and SCAR Delegates recognize the active involvement of SCAR in the ATCM, CEP and CCAMLR, and associated meetings, and note the high regard in which SCAR, and the advice that it provides, is held by the Antarctic Treaty Consultative Parties.

That the SCAR Delegates approve the below funding request, to allow SC-ATS to continue this active engagement with international scientists, policy makers, and the bodies of the Antarctic Treaty System.

### Summary Budget 2017 to 2020

	2017	2018	2019	2020
	Spent	Allocated	Request	Request
(US\$)	\$53,000	\$25,000	\$25,000	\$25,000





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## **Progress and Plans**

### **Activity Summary**

SC-ATS continued to focus on the provision of advice to the Antarctic Treaty System from 2016-2018. SC-ATS coordinated SCAR's involvement in 21 submissions to ATCM XL-CEP XX in Beijing, May 2017. Two of these submissions were endorsed by the CEP and subsequently adopted by the ATCP by means of Resolution. At this meeting, SCAR was congratulated for exploring new formats for presenting annual submissions, and was encouraged to continue to present submissions in a similarly accessible form at future meetings. The SCAR Lecture was a resounding success, resulting in agreement by the ATCPs to move it on the Agenda to Day 1 of future meetings. Following this meeting SCAR made a number of commitments to future meetings, and was involved in seven submissions to ATCM XLI – CEPXXI (2018). These included SCAR's Environmental Code of Conduct for Terrestrial Scientific Research and in conjunction with a range of co-proponents, a proposal to convene a joint SCAR/CEP workshop on further developing the Antarctic protected area system. Due to the truncated nature of the 2018 meeting, and following discussion with the CEP Chair and other interested Parties, SCAR postponed the submission of several other planned submissions until 2019.

SC-ATS was actively involved in the development, support and participation of two international workshops since the last Delegates Meeting: i) Antarctic Conservation and Biodiversity: Addressing the Monaco Assessment (July 2017) and Priority Threat Management of Terrestrial Antarctica (July 2017). These workshops brought together globally leading international scientists (including members of SC-ATS), policy makers and managers from around the world, to work together on outputs that will contribute directly to policy advice for the Antarctic Treaty System. SC-ATS has also coordinated the SCAR Review of Anthropogenic Sound in the Southern Ocean, and has made significant progress in the last 12 months.

Two new members joined SC-ATS in 2018 – Dr. Cassandra Brooks from the University of Colorado Boulder and Dr. George Watters from the US National Oceanic and Atmospheric Administration. Kevin Hughes, who was elected as a CEP vice-chair in 2017, stood down from SC-ATS in early 2018.

#### **Major Outcomes**

1. Antarctic Treaty Consultative Parties (ATCP) adopt the SCAR Code of Conduct for the Exploration and Research of Subglacial Aquatic Environments by means of Resolution - Co-ordinated by SC-ATS and involving experts from across the SCAR community and other interested parties, including the Council of Managers of National Antarctic Programs, this Code of Conduct was submitted to CEP XX in 2017. Following endorsement of this Code of Conduct by the CEP the ATCM accepted the CEP's advice, and adopted Resolution B (2017) encouraging the use and dissemination of this code.





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- 2. ATCP adopt the update on the Antarctic Conservation Biogeographic Regions by means of Resolution - Led by SC-ATS Chief Officer Aleks Terauds, this revision and update of the Antarctic Conservation Biogeographic Regions (ACBRs) was submitted by SCAR, Australia and New Zealand to CEP XX in 2017. The CEP acknowledged the importance of continuing to update the ACBR spatial framework and endorsed the revised ACBRs. Accepting the CEP's advice, the ATCP adopted Resolution C (2017).
- 3. Improved engagement with the Commission on the Conservation of Antarctic Marine Living Resources- Four members of SCAR (three from SC-ATS) attended the SC-CAMLR Meeting in Hobart in October 2016 and two representatives attended the 2017 meeting. At these meetings SCAR presented its Annual Reports in a new format, focusing on priority areas of interest to CCAMLR. These priority areas were chosen based on recommendations from CCAMLR Working Group Meetings and discussions with Mark Belchier (current Chair of the Scientific Committee) and the new format was acknowledged as a success. SC-ATS has maintained a close liaison with key SC-CAMLR representatives over the last two years, resulting in improved and more effective engagement between the two groups. At the request of the CCAMLR Review Panel, SC-ATS provided detailed feedback to the 2017 CCAMLR Performance Review and he importance of SCAR advice and its engagement with CCAMLR was explicitly noted in this review, which was delivered to the 2017 meeting
- 4. Completion of Stage 1 and 2 of SCAR Review of Anthropogenic Noise in the Southern Ocean - SC-ATS has coordinated the preparation of a review of anthropogenic noise impacts in the Southern Ocean, as requested by the CEP. and as made considerable progress in the last 12 months. A comprehensive literature review has been completed, an expert panel convened and consulted. and input from a variety of sources considered. These inputs have been combined in a draft Background Paper that will continue to be revised and refined until final submission to ATCM XLII - CEP XXII in 2019. An Information Paper detailing progress was submitted to CEP XXI.
- 5. Publication of results from the First Monaco Assessment Antarctica and the Strategic Plan for Biodiversity - In March 2017, Antarctica and the Strategic Plan for Biodiversity was published in the prestigious journal PLoS Biology<sup>1</sup>. This scientific paper was the culmination of the Monaco Assessment Workshop held in 2015 (co-funded by SC-ATS) and provides a comprehensive assessment of Antarctic biodiversity in the context of the Strategic Plan for Biodiversity 2011-2020. This paper, and the associated submission to CEP XX (WP13), generated significant discussion among Parties. There was a clear and explicit recognition of the value of this work from several Members of the CEP, and SCAR was encouraged to bring further updates to future meetings.

<sup>&</sup>lt;sup>1</sup> Chown SL, Brooks CM, Terauds A, ... & McGeoch MA (2017) Antarctica and the strategic plan for biodiversity. PLoS Biology 15:e2001656 (see below for full citation).





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## **Major Products**

<b>ATCM</b>	ATCM XL - CEP XX (2017) submissions				
Item	Title	Proponents			
WP 25	Antarctic Environments Portal	NZ, Australia, Japan,			
		Norway, USA, SCAR			
IP 14	Antarctic Environments Portal: Content Management Plan	NZ, Australia, Japan,			
		Norway, USA, SCAR			
IP 35	The Scientific Committee on Antarctic Research Annual Report	SCAR			
	2016-2017 to Antarctic Treaty Consultative Meeting XL				
IP 80	Antarctic Climate Change and the Environment – 2017 Update	SCAR			
IP 69	Mapping SCAR affiliated research to the CEPs Climate				
	Change Response Work Programme (CCRWP)	SCAR			
WP 17	SCAR's Code of Conduct for the Exploration and Research of	SCAR			
	Subglacial Aquatic Environments				
WP 18	SCAR's Environmental Code of Conduct for Terrestrial	SCAR			
	Scientific Field Research in Antarctica				
WP 29	Proposed update to the Antarctic Conservation Biogeographic	Australia, NZ, SCAR			
	Regions (CEP) and the associated				
IP 15	Antarctic biogeography revisited: updating the Antarctic	Australia, NZ, SCAR			
	Conservation Biogeographic Regions				
IP 166	Systematic Conservation Plan for the Antarctic Peninsula	SCAR, IAATO			
WP 13	Antarctica and the Strategic Plan for Biodiversity 2011 to 2020 (CEP, ATCM)	SCAR, Monaco, Belgium			
WP 20	State of Knowledge of Wildlife Responses to Remotely Piloted	SCAR			
	Aircraft Systems (RPAS)				
BP 1	Best Practice for Minimizing Remotely Piloted Aircraft System	SCAR			
	Disturbance to Wildlife in Biological Field Research				
IP 68	Update on activities of the Southern Ocean Observing System	SCAR			
IP 81	Report of Oceanites, Inc	SCAR			
IP 24	Future Challenges in Southern Ocean Ecology Research:	Portugal, SCAR			
	another outcome of the 1st SCAR Horizon Scan				
IP 117	The Antarctic Observing Network (AntON) to facilitate weather	WMO, SCAR			
	and climate information: an update				
WP 4	Future Antarctic Science Challenges, which summarised	SCAR			
	SCAR's Strategic Plan 2017-2022				
WP 15	The SCAR Antarctic Science Horizon Scan & the COMNAP	COMNAP, SCAR			
	Antarctic Roadmap Challenges projects				
IP 161	What does the United Nations Paris Climate Agreement mean	SCAR			
	for Antarctica?				
BP 20	The SCAR Lecture: What does the United Nations Paris	SCAR			
	Climate Agreement mean for Antarctica?				

ATCM	ATCM XLI – CEP XXI (2018) submissions				
Type	Title	Proponents			
WP	SCAR's Environmental Code of Conduct for Terrestrial Scientific Field Research in Antarctica	SCAR			
WP	Proposal for a joint SCAR/CEP workshop on further developing the Antarctic protected area system	SCAR, Argentina, Australia, Belgium, Chile, China, Czech Republic, France,			





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		Germany, Japan, New Zealand, Norway, Russian Federation, United Kingdom, United States
IP	Anthropogenic Noise in the Southern Ocean: an Update	SCAR
IP	The Scientific Committee on Antarctic Research Annual Report 2017-2018 to Antarctic Treaty Consultative Meeting XL	SCAR
IP	Update on activities of the Southern Ocean Observing System (SOOS)	SCAR
IP	Antarctic Environments Portal: Progress Report	NZ, SCAR
IP	A New World Meteorological Organization-Scientific Committee on Antarctic Research Joint Fellowship Program	WMO, SCAR

CCAM	CCAMLR submissions					
Type	Title	Proponents				
BP	The Scientific Committee on Antarctic Research (SCAR) Annual Report 2015/16	SCAR				
BP	Southern Ocean Observing System (SOOS) Implementation Plan 2015–2020.	SCAR, SCOR				
BP	The Scientific Committee on Antarctic Research (SCAR) Annual Report 2016/17	SCAR				
BP	Antarctic Climate Change and the Environment – 2017 Update	SCAR				

ACAP Submissions					
Type	Title Proponents				
WP	State of Knowledge of Wildlife Responses to Remotely Piloted	SCAR			
	Aircraft Systems (RPAS)				

### Peer reviewed publications (SC-ATS authorship – direct policy relevance)

- Terauds A & Lee JR (2016) Antarctic biogeography revisited: updating the Antarctic conservation biogeographic regions. *Diversity and Distributions* 22:836-840
- Chown SL, Brooks CM, Terauds A, Le Bohec C, van Klaveren-Impagliazzo C, Whittington JD, Butchart SH, Coetzee BW, Collen B, Convey P, Gaston KJ, Gilbert N, Gill M, Hoft R, Johnston S, Kennicutt MC, 2nd, Kriesell HJ, Le Maho Y, Lynch HJ, Palomares M, Puig-Marco R, Stoett P & McGeoch MA (2017) Antarctica and the strategic plan for biodiversity. *PLoS Biology* 15:e2001656.
- Lee JR, Raymond B, Bracegirdle TJ, Chades I, Fuller RA, Shaw JD & Terauds A (2017) Climate change drives expansion of Antarctic ice-free habitat. *Nature* 54:49-54
- Hughes KA, Constable A, Frenot Y, López-Martínez J, McIvor E, Njåstad B, Terauds A, Liggett D, Roldan G, Wilmotte A & Xavier JC (2018) Antarctic environmental protection: Strengthening the links between science and governance. *Environmental Science & Policy* 83:86-95.





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### **Major Impacts**

- Improved environmental outcomes for Antarctica The endorsement and adoption of the SCAR Codes of Conduct at recent ATCM meetings, and associated translation into the four treaty languages, has enabled much wider dissemination of clear guidance for Antarctic researchers and others undertaking Antarctic activities.
- 2. Increasing recognition of SCAR as a key provider of scientific advice to the Antarctic Treaty System - SC-ATS continues to provide SCAR with the foundation to deliver objective, sound and independent scientific advice to the Antarctic Treaty System. This advice continues to drive policy responses and decision making across the Antarctic Treaty System, and its importance is explicitly acknowledged at these meetings.
- 3. Improved understanding of current and future state of Antarctic conservation The publication of Antarctica and the Strategic Plan for Biodiversity provides important global context for the current state and trajectory of Antarctic biodiversity and its conservation. This publication and the associated findings have instigated important discussion within the Antarctic Treaty System and enabled Antarctica to be included in global assessments of biodiversity conservation.
- 4. Increased awareness and understanding of the potential impacts of Remotely Piloted Aircraft Systems (RPAS) in Antarctica SC-ATS provided a comprehensive review on the current state of knowledge on wildlife impacts to CEP XX in 2017. This review stimulated discussion on this issue and served as an important starting point for future discussion in the 2017-18 intersessional period. SC-ATS continues to engage with Parties and provide input on this issue.

#### **Future Plans**

**Provision of scientific advice to the Antarctic Treaty System -** SC-ATS will continue to maintain its focus on the development and delivery of objective, independent and scientifically rigorous advice to the Antarctic Treaty System, with a focus on the CEP and CCAMLR. Given the truncated nature of the 2018 ATCM-CEP, SC-ATS has carried over a number of existing commitments to 2019:

- Ocean Acidification Report
- Review of Anthropogenic Underwater Noise in the Southern Ocean
- Code of Conduct for Use of Animals in Scientific Research
- Report on Antarctic Conservation and Geoheritage

In addition, SC-ATS is working on a number of new submissions to next year's meetings, including:

- Results of the international workshops held in 2017
- Release of the revised SCAR Antarctic Terrestrial Biodiversity Database (in conjunction with SC-ADM )
- A snapshot of Antarctic terrestrial biodiversity protection

Other potential submissions of high policy-relevance are currently under discussion and likely to be finalized in the next 6 months.





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International collaborations - SCAR, with a host of other co-proponents has submitted a proposal to convene a joint SCAR/CEP Workshop on further developing the Antarctic protected area system. At the time of writing, this submission had yet to be considered by the CEP, but should this workshop go ahead as planned, SC-ATS will play a key role in organizing and participating in the meeting and will also provide funding support. Other workshops, including a Red-listing of Antarctic Species Workshop, are also currently under consideration for the next two years.

SC-ATS members will also attend the SCAR Open Science Conference to keep abreast of current research and potential policy relevant emerging issues, interact with other SCAR groups (and attend their meetings where possible) and promote the role of SC-ATS and the opportunities for researchers within the SCAR community to contribute to SC-ATS submissions.

### Other key areas

- Continue to actively improve engagement with CCAMLR
- Maintain editorial oversight of the Antarctic Environments Portal

## **Budget**

### Planned use of funds for 2018 to 2020

Year (YYYY)	Purpose/Activity	Amount (in USD)	Contact Name	Contact Email
2020	Red-listing of Antarctic Species Workshop	\$15,000	Aleks Terauds	
2020	SC-ATS Related Travel	\$5,000	Aleks Terauds	
2020	ECR Research Assistant/intern to support SC-ATS initiatives	\$5,000	Aleks Terauds	
2019	Joint SCAR/CEP Protected Area Workshop	\$15,000	Aleks Terauds	ale
2019	SC-ATS Related Travel	\$5,000	Aleks Terauds	ks.te
2019	ECR Research Assistant/Intern to support SC-ATS initiatives	\$5,000	Aleks Terauds	raud
2018	SCAR ATCM Lunch	\$10,000	Aleks Terauds	s@
2018	Facilitation of discussions between SC-ATS and new SCAR SRP proponents (travel)	\$2,000	Aleks Terauds	aleks.terauds@gmail.com
2018	Targeted expert assistance (Anthropogenic Marine Noise)	\$2,000	Aleks Terauds	lom l
2018	ECR Research Assistant /Intern to assist with SC-ATS initiative	\$5,000	Aleks Terauds	
2018	SC-ATS Related Travel (Terauds to OSC and Delegates Meeting)	\$4,000	Aleks Terauds	
2018	SC-ATS Related Travel (CCAMLR Spatial Planning Workshop)	\$2,000	Aleks Terauds	





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### Briefly describe what the funds will be used for and the desired results

The funds will be used to support:

- 1) **International workshops** principally through travel assistance for key participants, venue hire, facilitator costs, and preparatory material that will deliver directly into submissions to the CEP and/or CCAMLR.
- 2) SC-ATS related travel airfares, accommodation and meals for SC-ATS members to attend the SCAR Open Science Conferences, the Chief Officer to attend SCAR Delegates Meeting, and also travel to relevant SCAR, CEP, CCAMLR or other ATS related meetings to facilitate the development and provision of policy advice.
- 3) Research assistance or internships on specific SC-ATS initiatives. These will be developed, in conjunction with SCAR ExCom, on a case by case basis where there are not enough resources or expertise within SC-ATS to carry out the necessary work to underpin SC-ATS submissions to the ATS. The level and complexity of CEP requests to SCAR are placing increasing and unsustainable pressure on the (volunteer) SC-ATS resources. These short term (3 months) contracts for ECRs will also provide the opportunity for early career researchers to gain exposure to SC-ATS and the provision of scientific advice the ATS.
- 4) Targeted expert assistance. Very occasionally, high level expert advice or assistance is required to respond to a CEP request. The underwater noise review is a good example, where the necessary resources did not exist within SC-ATS, or the volunteer SCAR community, to respond adequately and appropriately to a requests from the CEP. Such contracts will only be undertaken following approval by SCAR ExCom.
- 5) SC-ATS will contribute to a one-off SCAR event during the 2018 ATCM-CEP. This lunchtime event will highlight and showcase SCARs role in the provision of advice to the ATS over the last 60 years, and provide an opportunity for Members to discuss science questions of interest to the CEP.
- 6) Facilitate discussions between SC-ATS and new SCAR SRP proponents. This budget item is to facilitate face to face meetings (primarily through travel support) between SC-ATS members and leaders of the new SRP Planning Groups following the formation of these groups in June 2018.

## Percentage of the budget to be used for support of early career researchers

2018: 15% 2019: 25% 2020: 25%

Percentage of the budget to be used for support of scientists from countries with developing Antarctic programmes

2018: 0 2019: 10% 2020: 10%





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## Linkages

### Direct support from outside organisations

Note: the below table also includes in-kind support as this represented a significant contribution to these workshops, without which they would be unlikely to proceed.

Activity	Funder	Туре	Amount
Monaco II workshop Principality of		Direct funding	€ 40,000
	Monaco		
Monaco II workshop	Monash University	In-kind	\$US12,000
PTM Workshop	CSIRO	In-kind	\$US 10,000
PTM workshop	Sustainable	In-kind	\$US 4,000
	Consulting		
Anthropogenic	Alfred Wegener	Direct funding	~\$US 15,000
Underwater Noise	Institute		(pending, tbc)
Review			·

Note the above does not include in-kind contribution of the Australian Antarctic Division through Terauds' time, to these and other SC-ATS activities, calculated conservatively to be \$US 25,000 per annum.

### **Major collaborations**

#### Within SCAR

SC-ATS liaised closely with the following groups in preparation of submissions for the ATCM, CEP and CCAMLR:

- 1. Life Sciences Standing Group (Codes of Conduct, wildlife disturbance, RPAS impacts, underwater noise review)
- 2. Geosciences Standing Group (Codes of Conduct, Geoheritage report)
- 3. Physical Sciences Scientific Group (Codes of Conduct, Lee et al. 2017)
- 4. Expert Group on Birds and Marine Mammals (Codes of Conduct, wildlife disturbance, RPAS impacts, underwater noise review)
- 5. SRP State of the Antarctic Ecosystem (CCWRP mapping research)
- 6. Expert Group on Antarctic Climate Change and the Environment (ACCE Update, CCRWP mapping research)
- 7. Humanities and Social Science Expert Group (CCRWP mapping research)
- 8. SRP Antarctic Climate Change and the 21<sup>st</sup> Century (Lee et al 2017)
- 9. Remote Sensing Group (RPAS impacts)

#### **Outside SCAR**

- 1. Principality of Monaco (co-funder of workshop)
- 2. Monash University (co-funder of workshop)
- 3. CSIRO Australia (co-funder of workshop)





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## **Outreach and Capacity Building**

- 1. Chief Officer Terauds has been active in presenting, to a diverse range of audiences, on how scientists can influence policy through their research, including highlighting the role of SC-ATS in this process. These presentation have included large conferences (in plenary) and also to smaller groups.
- 2. Terauds has been invited and attended two APECS workshops (Oceania 2017, MEASO 2018) where he has presented, sat on Q&A panels and interacted directly with Antarctic ECRS.
- 3. SC-ATS has worked on improving its communication with policy makers, and the success of this has been acknowledged at the most recent CCAMLR and CEP meetings.
- 4. SC-ATS involves early career research in its initiatives whenever possible to assist with capacity building.

### **SCAR Fellowship Reviewers**

First Name	Last Name	E-mail	Principal Expertise
Aleks	Terauds	aleks.terauds@gmail.com	Terrestrial ecology, invasive species, quantitative modelling, climate change impacts on biodiversity
Akinora	Takahashi	atak@nipr.ac.jp	Marine birds and mammals
Yan	Ropert- Coudert	docyaounde@gmail.com	Marine Birds and Mammals, marine ecology, ecophysiology, bio-logging and biotelemetry, MPA.
Tom	Bracegirdle	tjbra@bas.ac.uk	Antarctic meteorology and climatology
Daniela	Liggett	daniela.liggett@canterbury.ac.nz	Social sciences
Marcelo	Reguero	regui@fcnym.unlp.edu.ar	Geosciences, Paleontology





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## **Membership**

Role	First Name	Last Name	Affiliation	Country	Email	Date Started	Date Term is to End
Chief Officer	Aleks	Terauds	AAD	Australia	aleks.terauds@gmail.c om	2014	2020
Physical Sciences Group Representa tive	Thomas	Bracegirdle	BAS	UK	tjbra@bas.ac.uk	2016	2020
	Cassandra	Brooks	University Colorado Boulder	USA		2018	2022
SCAR- CCAMLR Liaison	Mark	Hindell	University of Tasmania	Australia	Mark.Hindell@utas.ed u.au	2008	2018
	Daniela	Liggett	University of Canterbury	NZ	daniela.liggett@canter bury.ac.nz	2014	2018
SCADM Representa tive	Anton	Van de Putte	RBINS	Belgium	antonarctica@gmail.co m	2016	2020
Geoscience s Group Representa tive	Marcelo	Reguero	IAA	Argentina	regui@fcnym.unlp.edu .ar	2016	2020
Life Sciences Group and EGBAMM Representa tive	Yan	Ropert- Coudert	CNRS	France	docyaounde@gmail.co m	2014	2018
	Akinori	Takahashi	NIPR	Japan	atak@nipr.ac.jp	2014	2018
	George	Watters	NOAA	USA	george.watters@noaa.	2018	2022
	Chandrika	Nath	Secretariat	UK	chandrika@scar.org	2018	-

SC-ATS membership consists of prescribed members (e.g. representatives of the Scientific Groups, SCADM and EGBAMM) and members specifically chosen for their relevant expertise. Terms for members are usually for four years, with a possible second four year term. Currently three members' first terms are due to end in 2018, and discussions are underway with these members regarding the extension of their term. One members' (Mark Hindell) second term will come to an end at the completion of the Davos meeting. Kevin Hughes (previous SC-ATS Deputy Chief Officer) stood down at the beginning of 2018 to focus another commitments. Replacements for Mark and Kevin are currently being considered. At the request of SCAR ExCom (2017), Aleks Terauds agreed to stay on as Chief Officer until 2020.





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**Requests to the Secretariat** 

None