



International  
Science Council

**Paper No: 13    Agenda item: 3.2**  
SCAR Standing                      SCADM  
Committee  
Person                      Johnathan Kool  
Responsible:

**SCAR Executive Committee Meeting 2023**  
**Trieste, Italy, 15-16 September 2023**

**Standing Committee on Antarctic Data**  
**Management (SCADM)**  
**2022-23 Report**

**Report Authors**

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**Summary**

SCADM's principal focus during 2023 has been planning and preparation for Polar Data Forum V, a major biennial meeting to bring together data management professionals from both Arctic and Antarctic data communities (also including SOOS). A previous Polar Data Forum was the catalyst for developing SCAR's new data policy (a major milestone for 2022).

A significant aspect of Polar Data Forum V is the development of a Polar Vessel Data workshop to improve the interoperability of data collected from a broad range of polar watercraft (icebreakers, small vessels etc.). The Australian Antarctic Division and the British Antarctic Survey will be sharing lessons learned during the commissioning of their new polar vessels. Beyond SCADM, invitations have been sent out to COMNAP, the Rolling Deck to Repository team (R2R), Eurocean, the International Research Ship Operators Forum, and ARICE (the Arctic Research Icebreaker Consortium).

SCADM is also commencing the development of guidelines (documentation) to support developing National Antarctic Data Centre programs, and to identify best practice. SCADM will be working with the newly established South African Polar Research Infrastructure platform (SAPRI) and the South African Environmental Observation Network (SAEON) as an initial test case.

In addition, SCADM members have been involved in advising and testing a prototype for a polar federated search tool as part of the POLDER pilot project initiated by the International Technology Office of the World Data System (WDS-ITO).

## Standing Committee updates since 2022 Delegates Meeting

### What has been achieved?

Date	Activity
2023	Planning and preparation for Polar Data Forum V (October 2023)
Ongoing	Regular monthly meetings and engagement, including country reports

### What lies ahead?

Date	Activity
Oct. 23-27, 2023	Participation and representation at International Data Week – Salzburg, Austria
Oct. 30-Nov. 3, 2023	Polar Data Forum V (biennial) – Cambridge, UK – Tokyo, Japan
Dec. 11-15, 2023	International Symposium on Data Science (DSWS-2023)
Ongoing	Developing best-practice data management guideline documents (“how-tos” for scientists and developing National Antarctic Data Centres

## Budget

### Changes to planned use of funds for 2023 and 2024

Year (YYYY)	Purpose/Activity	Amount (in USD)	Contact Name	Contact Email
2023	Joint support with Arctic Data Committee for Polar Data Forum V (includes international workshop on data interoperability for data from polar vessels)	\$12,000	Johnathan Kool	<a href="mailto:Johnathan.kool@aad.gov.au">Johnathan.kool@aad.gov.au</a>
<b>Total</b>		<b>\$12,000</b>		

## Membership

### Changes to SC Leadership since 2022 Delegates Meeting report

None.

### SCAR Fellowship Reviewers

First Name	Last Name	E-mail	Principal Expertise
Anton	Van de Putte	antonarctica@gmail.com	Biodiversity data management
Johnathan	Kool	johnathan.kool@aad.gov.au	Conservation planning, mapping, data management

## Additional information

### Outreach, communication and capacity-building activities

As part of the outreach for Polar Data forum V, we have reached out to members of COMNAP, R2R, Eurocean, and ARICE regarding collective participation as part of the Polar Vessel Data workshop.

Several SCADM members are active within the UN Decade of Ocean Science for Sustainable Development 2021-2030 (UN Ocean Decade), most notably in the Southern Ocean Task Force (<https://www.sodecade.org/>). This Task Force has developed the Southern Ocean Action Plan (<https://www.sodecade.org/action-plan/southern-ocean-action-plan/>). From this, the SO TF successfully submitted a proposal for the establishment of a Decade Collaborative Centre for the Southern Ocean Region (DCC-SOR), which will be hosted and coordinated by the SCAR Secretariat.

### Notable Papers

Frémand, A. C., et al.: Antarctic Bedmap data: Findable, Accessible, Interoperable, and Reusable (FAIR) sharing of 60 years of ice bed, surface, and thickness data, Earth Syst. Sci. Data, 15, 2695–2710, <https://doi.org/10.5194/essd-15-2695-2023>, 2023.

### Major Impacts

SCADM continues to have strong community engagement and provides a forum for National Antarctic Data Centres to share information regarding data management best practices.

Continued delivery of Antarctic data collections through the Antarctic Metadata Directory.

### Direct support from outside organisations received for your activities

- The Arctic Data Committee has committed a minimum of €6000 towards hosting Polar Data Forum V.
- NASA provides ongoing in-kind support for hosting the Antarctic Metadata directory
- The World Data System has provided support in developing a schema.org-based data access portal.
- The Indian National Polar Data Center has offered to host the schema.org-based data access portal.

### Major collaborations your Committee has with other SCAR groups and with organisations/groups beyond SCAR

#### Within SCAR

1. Petra ten Hoopen is the liaison between SCADM and SOOS, and Johnathan Kool, Anne Treasure, and Taco de Bruin are members of the SOOS Data Management Subcommittee;
2. Anton Van de Putte is the liaison between SCADM and the Life Sciences Group;

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3. Johnathan Kool is a member of the AGATA (Antarctic Geospace and ATmosphere reseArch) advisory board;
4. Frank Nitsche is the SCADM liaison to the INSTANT Scientific Research Program. and a member of the Antarctic Seismic Data Library System (SDLS) and the International Bathymetry Chart of the Southern Ocean (IBSO) Expert group;
5. Anton Van de Putte and Taco de Bruin are members of the UN Ocean Decade Southern Ocean Task Force.

### **Outside SCAR**

1. The group is currently engaged with the Arctic Data Committee (contacts: Chantelle Verhey, Jan Rene Larsen);
2. Johnathan Kool is collaborating with Masaki Kanao and Japan's Research Organization of Information and Systems (ROIS) in organizing the International Symposium on Data Science 2023;
3. Taco de Bruin is member of the Data Coordination Group (DCG) of the UN Ocean Decade, as well as past co-chair of IODE 2019-2023.

### **Updates for your group's SCAR web page**

None at present.