



Scientific Committee
on Antarctic Research

https://www.scar.org/index.php?option=com_content&view=article&id=990&Itemid=1231

The Scientific Committee on Antarctic Research (SCAR) is an inter-disciplinary committee of the International Council for Science (ICSU), and was created in 1958.

SCAR is charged with initiating, developing and coordinating high quality international scientific research in the Antarctic region (including the Southern Ocean), and on the role of the Antarctic region in the Earth system.

SCAR provides objective and independent scientific advice to the Antarctic Treaty Consultative Meetings and other organizations such as the UNFCCC and IPCC on issues of science and conservation affecting the management of Antarctica and the Southern Ocean and on the role of the Antarctic region in the Earth system.



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Well-Developed Programmes

Initial-Stage Programmes:

At this level, countries are still growing their national programmes and developing resources needed for sustained activities. The goal of this category is to become a well-developed programme over time.

Associate Members

Poland

Sweden

- Delegate: Dr Magnus Friberg - Vetenskapsrådet (Swedish Research Council), [email](#)
- Alternate Delegate: to be confirmed
- National Committee: Swedish Research Council, [email](#); website: www.vr.se

[National Reports on SCAR activities - Sweden](#)

Switzerland



Scientific Committee
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Union Members:

International Astronomical Union – IAU

International Geographical Union - IGU

International Union for Quaternary Research - INQUA

International Union of Biological Sciences - IUBS

International Union of Geodesy and Geophysics - IUGG

International Union of Geological Sciences - IUGS

International Union of Physiological Sciences – IUPS

International Union of Pure and Applied Chemistry - IUPAC

Union Radio Scientifique International - URSI



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Elected Categories and National Contributions for 2015, 2016 and 2017

Category	Contribution	No. of Members (2017)	Total	In 2015, 2016 (2017):
A	\$27,500	2 (2)	\$55,000	Russia, USA
B	\$21,200	10 (11)	\$212,000	Argentina, Australia, France, Germany, India, Italy, Japan, Republic of Korea, the Netherlands (changed to B in 2017), Spain, UK
C	\$17,100	6 (5)	\$102,600	Brazil, China, New Zealand, Norway, South Africa
D	\$12,400	13 (12)	\$161,200	Belgium, Bulgaria, Canada, Chile, Ecuador, Finland, Malaysia, Peru, Poland, Sweden , Switzerland, Uruguay
E	\$5,000	8 (13)	\$40,000	Austria (joined 2017), Colombia (joined 2017), Czech Republic, Denmark, Iran, Monaco, Pakistan, Portugal, Romania, Thailand (joined 2017), Turkey (joined 2017), Ukraine (changed to E in 2017), Venezuela
Total:		39 (43)	\$570,800 (2017, \$587,500)	

Standing Scientific Groups (SSG)



Geosciences

[Read More](#)



Life Sciences

[Read More](#)



Physical Sciences

[Read More](#)



Social Sciences
and Humanities

[Read More](#)

Aktiviteter som spänner över SSGs:



Scientific Research
Programmes

[Read More](#)



Horizon Scan

[Read More](#)



Data & Databases

[Read More](#)



SCAR Library

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THE HORIZON SCAN



6 högst prioriterade frågorna:

Define the global reach of the Antarctic atmosphere and Southern Ocean.

Understand how, where and why ice sheets lose mass.

Reveal Antarctica's history.

Learn how Antarctic life evolved and survived.

Observe space and the Universe.

Recognize and mitigate human influences.



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Life Sciences Activities within SCAR coordinate research focused on:

Understanding the impact of past, current and predicted environmental change on biodiversity and the consequences for adaptation and function.

Determining the effects of cold, darkness, isolation and pathogens on the health and welfare of scientists and support staff in the Antarctic.

Through multidisciplinary collaborations, understanding the complexities of the Antarctic environment and predicting the consequences of change.



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https://www.scar.org/index.php?option=com_content&view=article&id=54&Itemid=105

Life Sciences Scientific Research Programmes:

AntEco - State of the Antarctic Ecosystem

Ant-ERA - Antarctic Thresholds - Ecosystem Resilience and Adaptation



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https://www.scar.org/index.php?option=com_content&view=article&id=54&Itemid=105

Life Sciences Action and Expert Groups:

Antarctic Near-shore and Terrestrial Observing System – **ANTOS** - Expert Group

Biogeochemical Exchange Processes at the Sea-Ice Interfaces – **BEPSII** - Action Group

Expert Group on Antarctic Biodiversity Informatics – **EG-ABI** - Expert Group

Expert Group on Birds and Marine Mammals – **EGBAMM** - Expert Group

Integrated Science for the Sub-Antarctic – **ISSA** - Action Group

Joint Expert Group on Human Biology and Medicine – **JEGHBM** - Expert Group

Remote Sensing of Birds and Animals - **Remote Sensing** - Action Group

Southern Ocean Acidification – **Acidification** - Action Group

Southern Ocean Continuous Plankton Recorder Database – **SO-CPR** - Expert Group

Integrating Climate and Ecosystem Dynamics in the Southern Ocean – **ICED** - international

multidisciplinary programme

ANTOS (Nearshore and Terrestrial Observing System)

<http://www.scar.org/ssg/life-sciences/antos>

ANTOS fokus ligger på:

- Biologi
- Långtidsmätningar, ANTOS har ett 100 mårs perspektiv

Problem som identifierats är:

- Både kort och långsiktig finansiering av projektet

Målgrupp:

- Science community
- Policy makers
- National Antarctic managers

ANTOS har support från fyra SSG vilket är ovanligt,
hemvisten för projektet är Life Science gruppen

ANTOS (Nearshore and Terrestrial Observing System)

<http://www.scar.org/ssg/life-sciences/antos>

Slutsats:

ANTOS går in i en ny fas i och med att projektet nu uppgraderats till Expert grupp. Mycket arbete kvarstår då ingen information om vilka parametrar som skall mätas och hur nätverket av mätstationer skall se ut och byggas upp. Man har startat med att etablera servern och databasen

Troligen kommer detta att bli ett dyrt projekt för de länder som ansluter sig, frågan är om det är ett realistiskt projekt som kommer att kunna leverera?

ANTOS (Nearshore and Terrestrial Observing System)

<http://www.scar.org/ssg/life-sciences/antos>

FRÅGA: vill Sverige vara med i styrgruppen eller arbetsgrupper inom ANTOS

FRÅGA: skall Sverige försöka få till ett SCAR Nordenskjöld stipendium, detta skulle stärka SCAR men även Sverige som Polarforskningsnation

Thinker Muse Prize, <http://www.museprize.org/>
Visiting Professor
Fellowship Scheme



**Research programmes
(långsiktiga samarbetsarenor)**



**Action groups
Expert groups**



Ny 2016:

FORUM FOR RESEARCH INTO ICE SHELF PROCESSES (FRISP)



ABOUT

[Read More](#)



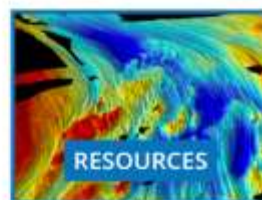
NEWS

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MEMBERS

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RESOURCES

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The Forum for Research into Ice Shelf Processes (FRISP) was first developed by SCAR in 1983, with a specific geographical focus on the Filchner-Ronne Ice Shelf. It later broadened its scope to the whole of Antarctica and Greenland. In 2016, it was confirmed as an Expert Group under the SCAR Physical Sciences Group to focus on the glaciological, oceanic and atmospheric processes governing the behaviour of ice shelves that are key to the ice sheet contribution to sea level change.

The 30th FRISP workshop took place in October 2016 in Gothenburg, Sweden. The 31st will be held in June 2017 in Bergen, Norway.

This Expert Group is distinct from and complementary to the existing [ISMASS Expert Group](#) in that FRISP concentrates on the processes controlling ice shelf behaviour, whereas ISMASS is broadly concerned with the ice sheet contribution to sea level rise. The scientific focus of FRISP naturally puts its activities at the interface between those of ISMASS, SORP and SOOS, while complementing the efforts of MISOMIP, and the FRISP Steering Committee includes representatives from the Steering Committees of those groups. Establishment of further links with other relevant SCAR groups, such as ASPeCt and AntClim21 will also be explored.

Sea Ice Prediction Network South (SIPN South): Koordinatorat experiment i Södra Isgavet, målsättning Feb 2018. Jämföra olika modeller, kommer att lägga mycket resurser på validering.

Del av YOPP

Mer info:

<https://www.scar.org/community/1548-sipn-south-call>

http://www.elic.ucl.ac.be/users/fmasson/SIPNSouth_2018_call.pdf



17 November 2017

CALL FOR CONTRIBUTIONS

Summer 2018 sea ice prediction experiment

Submission deadline: December 15th, 2017

Overview and objectives

The Sea Ice Prediction Network South (SIPN South) is pleased to invite contributors to participate to the first coordinated sea ice prediction experiment in the Southern Ocean. SIPN South is an international project endorsed by the Year of Polar Prediction (YOPP). Its goal is to make an initial assessment of the ability of forecasting systems to predict circumpolar-average, regional-average, and local Antarctic sea ice conditions, with a focus on the summer season. More information on the project can be found at <http://apps3.awi.de/YPP/pdf/stream/106>.

This document outlines the protocol for the summer 2018 experiment and how groups can contribute. All groups are invited to participate regardless of the approach they follow.

The #GreatAntarcticClimateHack
October 9-12, 2017
Scripps Institution of
Oceanography Forum, La Jolla, CA!

[Click here for more information.](#)

The goals of AntClim²¹ are to deliver improved regional predictions of key elements of the Antarctic atmosphere, ocean and cryosphere for the next 20 to 200 years and to understand the responses of the physical and biological systems to natural and anthropogenic forcing factors. A primary form of data that we see being used by AntClim²¹ are the global coupled atmosphere-ocean model runs that form the basis of the Fifth Assessment Report (AR5) of the Intergovernmental Panel on Climate Change (IPCC).



Report on SCAR geosciences 2017

Thomas Mörs, NRM, Stockholm



1) SCAR geo delegates meeting 2017

No SCAR/OSC (Open Science Conference).

No SCAR/ISAES (International Symposium on Antarctic Earth Sciences).

=> no meeting of SCAR geo delegates in 2017.

2) Other SCAR activities related to geosciences in 2017

GIANT (Geodetic observations on bedrock in Antarctica):

- a) International Workshop “Airborne Geodesy and Geophysics with Focus on Polar Applications”, in Dresden, Germany, 19-21 April.**
- b) International Workshop "Glacial Isostatic Adjustment and Elastic Deformation", in Reykjavik, Iceland, 5-7 September.**

SCAR EXCOM (Executive Committee):

- a) Meeting in Brno, Czech Republic, 31 July – 2 August.**
- b) SSG-Geosciences 2016-2017 Report (includes reports of 6 expert and 4 action groups) published.**

**ANTOS (Antarctic Near-Shore and Terrestrial Observation System) Survey:
Deadline 30 September 2017; see report by Michael Axelsson.**

ANTPAS (Antarctic Permafrost, Soils and periglacial Environment):

1st International Workshop “From an Expert Group to a Research Program” in Varese, Italy, 4-5 October.

SCAR-Chile:

IX CONGRESO LATINOAMERICANO DE CIENCIA ANTÁRTICA 2017 in Punta Arenas, Chile, 4-6 October.

ANTVolc:

Workshop on Antarctic Volcanism in Barcelona, Spain, 22-24 November.

3) Other conferences related to geosciences in 2017

DGP (Deutsche Gesellschaft für Polarforschung):

**"Geology and Geophysics of the Polar Regions", Frankfurt, Germany, 18-19 May
(I attended this meeting).**

Important outcome:

Application in progress for a long Polarstern cruise from Capetown to Prydz Bay and Wilkes Land (and back 😊) in 2021, with the opportunity to conduct land-based field work.

4) Future SCAR activities related to geosciences:

POLAR2018 (www.polar2018.org) in Davos, Switzerland:

15 - 18 June 2018 SCAR and IASC/ASSW Business & Satellite Meetings.

19 - 23 June 2018 SCAR/IASC Open Science Conference, including the COMNAP Plenary Symposium.

24 - 26 June 2018 SCAR Delegates Meeting & 2018 Arctic Observing Summit.

XIII SCAR/ISAES (International Symposium on Antarctic Earth Sciences) 2019 in Incheon, South Korea, organized by KOPRI.



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Links:

SCAR, <http://www.scar.org/>

SCAR and Open Science conference, <https://www.scar.org/upcoming-events/year.listevents/2017/11/20/->

Horizon Scan, <https://www.scar.org/library/scar-publications/horizon-scan/>

Antarctic treaty, <http://disarmament.un.org/treaties/t/antarctic/text>

Biogeographic Atlas, <http://atlas.biodiversity.aq/>