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News from the

Scientific Committee on Antarctic Research

September/October 2017

In this issue:

[SCAR News](#)

SCAR seeks Executive Director, Deadline extended for POLAR2018 Abstracts, Procedure for proposal of a new SCAR Group, Call for nominations for 2018 SCAR Medals, Glacial Seismology Training School, Report on IAG/SCAR-SERCE Workshop on Glacial Isostatic Adjustment, Update from the SCAR Secretariat, Final Circular available for 1st International ANTPAS Workshop, SCAR 2017 Fellowship awards announced, 4th Snow Science Winter School open for applications, Next Meeting for AAA SRP Announced, Remote Sensing workshop reports state of knowledge on wildlife response to UAV/RPAS, CLIVAR/CIIC/SCAR Southern Ocean Region Panel activities, Marine Ecosystem MEASO18 Call for Abstracts, 2017 SCAR Visiting Professors announced, Biological Processes in Antarctic Ecosystems, AnT-ERA and IASC Marine WG Side Meeting, Fjord Ecosystems and Climate Change, SCAR Vice-President Karin Lochte awarded German Federal Cross of Merit, Obituaries: Prof Charles Bentley and Dr Carlos Alberto Rinaldi, SCAR Report from the ATCM (Bulletin 198), Prof Helen Fricker named AGU Fellow, "The Year That Made Antarctica"

[Get to Know SCAR](#)

Operational Meteorology in the Antarctic (OpMet) Expert Group
Reference Antarctic Data for Environmental Research (READER) - SCAR Data Products

[Featured Member Country](#)

Republic of Korea

[Research Highlights](#)

SCAR Groups combine to predict outcomes for life on the Southern Ocean seafloor in a warming future climate, Blue ice core reveals 2.7 million years of climate history, Understanding the barriers to women in Antarctic research

[Community News and Updates](#)

IASC Fellowship 2018: Call for Applications, APECS announces 2017-2018 leadership, Two poles, one mission: Joint Arctic/Antarctic conference promotes responsible polar tourism, New Executive Secretary takes office at the Treaty Secretariat, WGMS Glacier App v2 launched, Expert reviewers sought for IPCC

Special Report on Global Warming, COMNAP's AGM and Recipients of Chairman's Medal 2017, Workshop on Antarctic Ecosystem Research following Ice Shelf Collapse, Resource Available: International Arctic Observations Assessment Framework

[Upcoming Events](#)

SCAR News

[Deadline extended for POLAR2018 Abstracts to November 12th](#)

The deadline for submission of abstracts to the [POLAR2018](#) meeting has been extended until **6pm CET on November 12th 2017**.

This will be the only deadline extension, abstracts can be submitted at <http://www.polar2018.org/abstracts>.

POLAR2018 is a joint meeting of SCAR and the [International Arctic Science Committee](#) (IASC) and will be hosted by [WSL Institute for Snow and Avalanche Research SLF](#) in Davos, Switzerland.

The goal of POLAR2018 is...



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[Procedure for the proposal of a new SCAR Group](#)

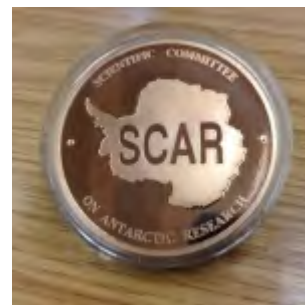
The work of SCAR in achieving its mission is carried out by its many and varied groups, including its specialized subsidiary Expert and Action groups. There are currently over 30 such groups, established by the main Science Groups, or in some cases by the Executive Committee, which are working over a limited timeframe to address specific research topics of interest to the community. The work of these groups advances understanding of all aspects of the Antarctic region and may result in seminal...



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[Call for nominations for 2018 SCAR Medals](#)

Peer recognition is a way of rewarding and highlighting those who exemplify the best of the Antarctic community and serve as models for the next generation. To provide this recognition within the Antarctic research community, SCAR created the Medal for Excellence in Antarctic Research and the Medal for International Coordination, which were first awarded in 2006. At the SCAR Delegates Meeting in 2016, a new medal was approved, the Medal for Education and Communication, which will be awarded for...



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[SCAR seeks Executive Director](#)

SCAR is seeking to appoint an Executive Director. The successful candidate will play a leading role in the development of SCAR. Job Details Job title: Executive Director Job reference: SCAR 2017/1611ED Date posted: 24 October 2017 Application closing date: 29 November 2017 Location: Cambridge, UK Salary: The starting salary will be from £57,764 up to £73,015 (ED Band)



depending on qualifications and experience Package: Flexible...

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[Glacial Seismology Training School](#)

A training school focused on exploring glacial seismology was held from 11-17 June 2017 on the campus of Colorado State University, Fort Collins, Colorado, USA. The program included lectures and practical exercises aimed at current and emergent seismological studies of glacial dynamics, structure, seismogenic processes, and seismic observables. Students participated in exercises utilizing freely available seismological software and data, and had the opportunity to spend one-on-one time with leading...



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[Report on IAG/SCAR-SERCE Workshop on Glacial Isostatic Adjustment and Elastic Deformation Reykjavik, 5-7th September 2017](#)

Around 80 scientists, from a diverse range of backgrounds, gathered in the highly relevant location of Reykjavik to present and discuss the latest research on modelling and measuring the mass balance of the Earth's glaciers and ice caps and associated solid Earth deformation. The 3-day meeting was divided into keynote talks, presentations of new research findings from scientists at all career stages, a lively poster session, and dedicated discussion time. The meeting ended with a half-day excursion...



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[Update from the SCAR Secretariat](#)

As the Antarctic field season is getting underway, we thought it might be a good time to provide a little update on some of the 'behind the scenes' activities of the SCAR Secretariat.

Over the past few months, a lot of work has gone into streamlining various processes in hopes of us being able to more efficiently help support SCAR's activities. This has involved things like the creation of the SCAR Membership Guide, a quick overview of all of SCAR's groups and committees, development of...



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[Final Circular available for 1st International ANTPAS Workshop](#)

The final circular has been issued for the 1st International Workshop on Antarctic Permafrost, Periglacial Processes and Soils (ANTPAS), taking place in Varese, Italy on 4-5 October 2017. The title of the workshop is "From an Expert Group to a Research Program" and aims to be the starting point for a tentative new SCAR multidisciplinary research programme focusing on a holistic approach to the changing Antarctic permafrost systems.

The workshop will mainly focus on the main SCAR Horizon Scan...



[Read more...](#)

[SCAR 2017 Fellowship awards announced](#)

The Scientific Committee on Antarctic Research (SCAR) is pleased to announce the 2017 Fellowship awardees.

This year, a total of 38 applications were received for the Fellowships, which are for up to US\$15,000 each. Six SCAR Fellowships will be awarded in this round, thanks to the generous support of an extra Fellowship by India. The details for each of this years Fellows are listed below:

Leena Riekkola from the University of Auckland, New Zealand, who will visit ...



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[4th Snow Science Winter School open for applications](#)



The 4th Snow Science Winter School takes place at Col du Lautaret, France, from 11 to 17 February 2018. The course is again co-sponsored by the [Snow in Antarctica \(SnowAnt\) group](#).

The school will cover: State-of-the-art snow measurement techniques (measurement of specific surface area by reflection and spectroscopy, near-infrared photography and high-resolution penetrometry and microtomography); Understanding the physical processes responsible for the evolution of the snowpack; Understanding...

[Read more...](#)

[Next Meeting for Astronomy and Astrophysics from Antarctica Group Announced](#)

The next meeting of the SCAR Astronomy and Astrophysics from Antarctica Scientific Research Programme will take place at [the Polar 2018 meeting](#) in Davos, Switzerland, on 15-26 June 2018.

[Visit the AAA section...](#)

[Remote Sensing workshop reports state of knowledge on wildlife response to UAV/RPAS](#)

A workshop on "Drones in Antarctic Biology" was held at the recent SCAR Biology Symposium 2017 in Leuven, Belgium, organised by the [SCAR Action Group on the Development of an Antarctic-wide remote sensing approach to monitor bird and animal populations \(SCAR Remote Sensing\)](#). The workshop report summarizes the current state-of-the-art of research and experience on the disturbance potential of Unmanned Aerial Vehicles/Remotely Piloted Aircraft System (UAV/RPAS) operations to Antarctic wildlife ...



[Read more...](#)

[CLIVAR/CLIC/SCAR Southern Ocean Region Panel activities to June 2017](#)

The CLIVAR/CLIC/SCAR Southern Ocean Region Panel (SORP) has been very active, with panel meetings in September 2016 alongside the CLIVAR Open Science Conference in Qingdao, China ([access the meeting report](#)



[here](#)) and jointly with the Year of Polar Prediction Southern Hemisphere workshop in June 2017 (report pending). Extensive participation in international research coordination and collaboration has occurred with several relevant programmes, including the Southern Ocean Observing System (SOOS),...



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[Marine Ecosystem Assessment for the Southern Ocean \(MEASO18\) Call for Abstracts](#)

The MEASO2018 Local Organising Committee warmly invites you to attend the MEASO International Conference and Policy Forum, to be held in Hobart, Australia from 9-13 April 2018.

Abstracts are invited on any of the five themes: Assessments of status and trends in habitats, species and ecosystems, and the causes of change. Responses of species to changing habitats, including ocean acidification, sea ice and temperature. Modelling and analytical methods to assess status and trends. Implementation...



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[2017 SCAR Visiting Professors announced](#)

SCAR is pleased to announce that the 2017 recipients of the SCAR Visiting Professor awards are Professor Yeadong Kim from South Korea, Dr Dermot Antoniades from Canada and Drs Xavier Crosta and Yves Cherel both from France. SCAR has been able to award extra Visiting Professorships in 2017 thanks to the kind support of India, Norway and Switzerland.

Prof Kim will visit the ITU Polar Research Center in Turkey. He aims to share his experience in the aspects of environmental protection and safety relevant...



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[Biological Processes in Antarctic Ecosystems](#)



Spring Course, Buenos Aires, Argentina, 23 - 29 September 2018 Call for applicants

By: Julian Gutt

Experienced scientists from the SCAR/AnT-ERA community will give a short course on conducting Antarctic and Southern Ocean biological and ecological research. This opportunity will focus on topics relevant to marine and terrestrial organisms. It is intended to complement formal university courses and encourage the participants of the course to pursue

Antarctic research.

Call for applicants: Graduate...

[Read more...](#)

[An AnT-ERA and IASC Marine WG Side Meeting](#)

Comparison of Antarctic and Arctic Ecosystems and their Functioning
Proposed side meeting during [Polar2018](#)

By: Julian Gutt

The SCAR Antarctic Thresholds - Ecosystem Resilience and Adaptation (AnT-ERA) research programme has been instrumental in developing a better understanding of biological responses to environmental



change and the functioning of Antarctic ecosystems. Somewhat in parallel, the Distributed Biological Observatory (DBO) in the Arctic has...

ART-EMA - IASC marine WG
Side Meeting

[Read more...](#)

[Fjord Ecosystems and Climate Change](#)



Announcement of Summer Field Course at Friday Harbor Laboratories, WA, USA, 15 July – 17 Aug 2018

Instructors: Craig R. Smith, University of Hawaii; Maria Vernet, Scripps Institution of Oceanography, Peter Winsor, University of Alaska Fairbanks, Martin Truffer, UAF; Brian Powell, University of Hawaii
This course, designed for graduate and advanced undergraduate students, will focus on fjord ecosystems, which are common coastal features from polar to temperate latitudes (~5000...

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[Congratulations to SCAR Vice-President Karin Lochte on receiving the German Federal Cross of Merit](#)

Prof. Dr. Karin Lochte was awarded the [Federal Cross of Merit](#) from the German government on August 16 in Berlin. With this honor Federal President Frank-Walter Steinmeier appreciated the outstanding professional and private work of Karin Lochte.

The decision was made on the proposal of the Federal Ministry of Education and Research saying that Lochte has shaped the national and international research on climate change and environmental protection in the polar regions and the North...

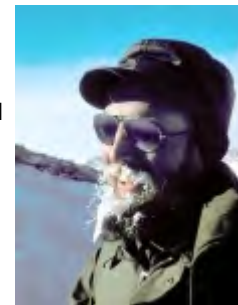


[Read more...](#)

[Obituary: Prof Charles Bentley \(1929-2017\)](#)

The death has been announced of Charles R Bentley, who died on 19 August in Oakland, California, USA, at the age of 87.

Bentley was a glaciologist and geophysicist who worked in Antarctica for six decades and dedicated much of his career to studying the Antarctic Ice Sheet and the continent beneath. In 1957, during the IGY (International Geophysical Year, 1957-58), he was a member of the first team to traverse the West Antarctic Ice Sheet in tracked vehicles, making detailed measurements...



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[SCAR Bulletin 198 published - SCAR Report from the ATCM](#)

The latest SCAR Bulletin is now published on the website. [Bulletin 198](#) contains the Report of the SCAR Delegation to ATCM XL and CEP XX in Beijing, China, 22 May – 01 June 2017. This was a particularly busy Treaty meeting for SCAR with eight Working Papers (five lead and three co-sponsored), eleven Information Papers (six lead and five co-sponsored) and two Background Papers submitted. All the submitted papers can be found on the ATCM 40 page in the Treaty Papers...



[Read more...](#)

[Obituary: Dr Carlos Alberto Rinaldi \(1930-2017\)](#)

Dr Carlos Alberto Rinaldi died in Bariloche, Argentina, on Monday August 14th at the age of 86.

Born in Buenos Aires on October 20th, 1930, he received his PhD in Natural Sciences (oriented to Geology) from the Buenos Aires University in 1964.

Between 1956 and 1971 he worked in the Comisión Nacional de Energía Atómica (CONEA) and from 1981 onwards carried out scientific research in the Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET). He was also full Professor in the...



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[Prof Helen Fricker named AGU Fellow](#)

Prof Helen Fricker was recently named as a Fellow of the [American Geophysical Union \(AGU\)](#). AGU fellows are recognised for their “[exceptional contributions to Earth and space sciences as valued by their peers and vetted by a committee of Fellows](#)”. The 2017 Fellows will be recognised in the Honors Tribute at the [2017 AGU Fall Meeting](#) in December.

Helen, a professor at the Scripps Institute of Oceanography, was awarded the [Tinker-Muse Prize](#) in...



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[The Year That Made Antarctica](#)

SCAR makes a small but significant appearance in the current special exhibition at the [Scott Polar Research Institute's Polar Museum](#). Named “The Year That Made Antarctica”, the exhibition is about the people and politics of the International Geophysical Year.

The world of the early 1950s was both optimistic and mistrustful. A peaceful Europe was rebuilding itself following the devastation of the Second World War, but interchange between East and West had been severely...



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Get to Know SCAR

[Operational Meteorology in the Antarctic \(OpMet\) Expert Group](#)

Over the past couple of years this group has concentrated on establishing links between other groups working in the same area of operational meteorology in Antarctica. The main links are to the Antarctic Meteorological Observation, Modeling, and Forecasting Workshop group which holds annual meeting in June or July and SCAR provides some funds to pay for accommodation for representatives from some countries to attend. Also a link between SCAR and the WMO EC-PORS (Panel of Experts on Polar Observations, Research and Services) where it is possible to carry out monitoring of the meteorological observations



that come from Antarctica via AnTON (Antarctic Observing Network) which helps to identify problems with

the data that is currently coming out from Antarctica, for more information see [the WMO's EC-PORS-4 Antarctic Observing System report for the WMO's EC-PORS fourth session](#).

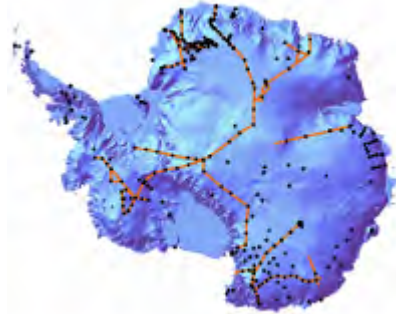
Establishing these links means that the groups are now working together better and we have seen an improvement in the quality and quantity of observations coming from Antarctica.

For further details see the [OpMet pages of the SCAR website](#) or visit the [OpMet website](#).

[REference Antarctic Data for Environmental Research \(READER\) - SCAR Data Products](#)

There are three components of READER:

- [MET-READER](#) providing surface and upper air mean climate data
- [ICE-READER](#) providing links to ice core data
- [OCEAN-READER](#) which holds oceanographic data



1) MET-READER

The MET-READER database contains monthly mean surface and upper air climatological data derived from the in-situ meteorological observations made at Antarctic stations with long-term records. The site also contains available metadata about changes of instrumentation and station location. Data are available on temperature, surface pressure, wind speed/direction and geopotential height. The web site is updated each month using data received over the WMO Global Telecommunications System.

2) ICE-READER

The ICE-READER project documents the availability and nature of ice core records collected from across the Antarctic continent. Interactive maps are available showing the locations of all the cores that have been collected as part of the International Trans-Antarctic Science Expedition and other initiatives. Where available, data are provided on the depth of the core, sampling frequency, time coverage, mean snow accumulation, chemical analysis and site elevation. In addition, links are provided to the ice coring groups that collected the cores and other relevant data archives.

3) OCEAN-READER

OCEAN-READER is a portal to oceanography data that may be of interest to those concerned with climate change at high southern latitudes. Its main focus is temperature, salinity and current data. It doesn't contain original oceanographic records, but provides links to many relevant oceanographic data centres and archives.

For further details on READER, please see [the READER page of the SCAR website](#).

SCAR Featured Member Country

[Featured Member Country: Korea](#)

Korea's interest in Antarctica first began in the late 1970s when it undertook exploratory krill surveys in the Antarctic Oceans. Ever since it joined the Antarctic Treaty as a consultative party in 1986, the Republic of Korea has strived to become a fully-fledged member of the Antarctic community. In July 1990, it was accredited as a full member of SCAR. Korea continues to be an active participant in various international organizations and fora, such as the [Antarctic Treaty Consultative Meetings...](#)



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Research Features

[SCAR Groups combine to predict outcomes for life on the Southern Ocean seafloor in a warming future climate](#)

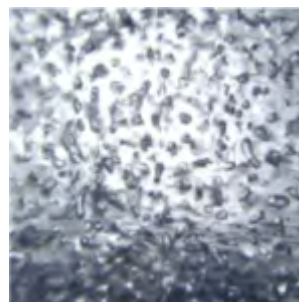
Leaders of the SCAR [State of the Antarctic Ecosystem \(AntECO\)](#) and [Antarctic Climate Change in the 21st Century \(AntCLIM21\)](#) Scientific Research Programmes (SRPs) are among the authors of a [recent article](#) in Nature Climate Change examining the impacts on species living on the Southern Ocean seafloor as the waters warm over the coming century. The results, based on 963 invertebrate species, highlight the regions and species that are most likely to respond significantly to the changing...



[Read more...](#)

[Blue ice core reveals 2.7 million years of climate history](#)

A [recent article](#) in Science has reported on the extraction of an Antarctic ice core which contains ice as much as 2.7 million years old. This breaks the record for oldest recorded recovered ice by an incredible 1.7 million years and allows greenhouse gases to be investigated from a time when the planet's cycles of ice ages were just beginning. The team behind the retrieval targeted "blue ice" which forms as ancient ice flows over ridges, rather than the usual ice core drilling...



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[Understanding the barriers to women in Antarctic research](#)

A [recent article](#) in Chemistry World has explored the historical context of the wide-scale exclusion of women from Antarctic research until the late 20th century. One of the issues identified was the narrative of masculine heroism created by the Heroic Age of exploration in Antarctica. This narrative inhibited the potential for women to be included in Antarctic research although the more modern framing of Antarctica as an arena of scientific endeavour is more helpful. The first woman...



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Community News and Updates

[IASC Fellowship 2018: Call for Applications](#)

The [International Arctic Science Committee \(IASC\)](#), in cooperation with the [Association of Polar Early Career Scientists \(APECS\)](#), invites Early Career Scientists (ECS) to apply for the IASC Fellowship Program 2018. The IASC Fellowship Program is meant to engage ECS in the work of the IASC Working Groups (WGs): Atmosphere, Cryosphere, Marine, Social & Human, and Terrestrial. Each year, one Fellow per WG is chosen. IASC Fellows are doctoral or postdoctoral researchers who actively participate...



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[APECS announces 2017-2018 leadership](#)

The [Association of Polar Early Career Scientists \(APECS\)](#) has recently announced its APECS Executive Committee for 2017-2018:

Jilda Caccavo (University of Padua, Italy)

Jean Holloway (University of Ottawa, Canada)

Hanne Nielsen (University of Tasmania, Australia)

Gabriela Roldán (University of Canterbury, New Zealand)

Alex Thornton (University of Alaska Fairbanks, United States)

Hanne Nielsen will be the new APECS President for 2017-2018 and commented:

"It is an honour to be elected as APECS..."



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[Two poles, one mission: Joint Arctic/Antarctic conference promotes responsible polar tourism](#)

On October 1-4, more than 90 representatives from the Arctic and Antarctic expedition cruise industry will gather in Iceland for the second AECO/IAATO Polar Field Staff Conference. The topic of the conference is evolution and new challenges in the polar tourism industry. The three-day conference programme includes sessions on growth management, technological developments, safety standards, operational development, citizen science and field staff qualification.

The Polar Field Staff Conference...



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[New Executive Secretary takes office at the Treaty Secretariat](#)

Mr Albert Lluberas from Uruguay succeeds Dr Manfred Reinke (Germany) as Executive Secretary of the Antarctic Treaty Secretariat for an initial four-year term. Mr Lluberas was appointed by Decision 6 (2017) of the Antarctic Treaty Consultative Meeting (ATCM), adopted by consensus by the 29 Consultative Parties to the Antarctic Treaty during the meeting in Beijing, China.

Before joining the Secretariat, Mr Lluberas was a National Representative with participation in the Antarctic Treaty system and...



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[wgms Glacier App version 2 launched](#)

During the [Glacier Science Week at EXPO 2017](#) in Astana, Kazakhstan, version 2.0 of the [wgms Glacier App](#) from the [World Glacier Monitoring Service \(WGMS\)](#) was officially launched.

The new version includes information on glacier special events such as reported floods, avalanches, or surge and calving dynamics. It allows the users to submit their glacier photographs, and it gives improved visibility of principal investigators and latest publications related...



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[Expert reviewers sought for IPCC Special Report on Global Warming of 1.5°C](#)

The [Intergovernmental Panel on Climate Change](#) (IPCC) is undertaking an Expert Review of the IPCC "[Special Report on Global Warming of 1.5°C](#)", an IPCC special report on the impacts of global warming of 1.5°C above pre-industrial levels and related global greenhouse gas emission pathways, in the context of strengthening the global response to the threat of climate change, sustainable development, and efforts to eradicate poverty. Therefore, it invites relevant experts...



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[Activities at COMNAP's Annual General Meeting](#)

The Annual General Meeting (AGM) of the Council of Managers of National Antarctic Programs (COMNAP) was held in Brno, Czech Republic from 31 July to 2 August 2017. It was one of the largest COMNAP gatherings held, with over 200 participants in the AGM, with the exhibitors, and with participants in the range of side meetings.

Members engaged in lively discussions and exchanged pre-season information for Antarctic research season 2017–2018. It was reported that significant progress was made on...



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[Workshop on Antarctic Ecosystem Research following Ice Shelf Collapse and Iceberg Calving Events](#)

The worldwide publicity surrounding the calving of A-68, the 5,800-km² iceberg shed in July from the Larsen C Ice Shelf, presents a unique and time-sensitive research opportunity. This event and other ice-shelf losses (e.g., from Larsen A and B, Wilkins, Wordie) are harbingers of warming effects along the Antarctic Peninsula in particular, and ultimately around all of Antarctica.

To address some of the issues surrounding ice shelves and their associated ecosystems in a warming world, **a workshop...**



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[Recipients of COMNAP Chairman's Medal 2017 Announced](#)

The [Council of Managers of National Antarctic Programs](#) (COMNAP) recently announced the recipients of the inaugural COMNAP Chairman's Medal. Patrice Godon, formerly of France's Institut Polaire Français Paul Emile Victor (IPEV), and Henry Valentine, formerly of South Africa's South African National Antarctic Program (SANAP), are the co-recipients of the 2017 award.

The COMNAP Medal is an award that was approved by COMNAP Members in 2016. The COMNAP Chair, upon successful...



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[Resource Available: International Arctic Observations Assessment Framework](#)

The [Sustaining Arctic Observing Networks \(SAON\)](#) and the [Institute for Defense Analyses Science and Technology Policy Institute \(STPI\)](#) announce the release of the International Arctic Observations Assessment Framework. The Framework was developed in January 2017 as STPI and SAON co-hosted a workshop, convening experts from international, state, and local governments; industry; academia; and non-governmental organizations to review and revise a framework for assessing the societal benefits...



[Read more...](#)

Upcoming Events

There are lots of activities being planned within the SCAR community. Below we list a few upcoming events. For the full list, as well as events from our partners of interest to the Antarctic Community, please [visit our Calendar of Events](#). If you have an event you would like added to our calendar, please [contact the SCAR Secretariat](#).

November 2017

[Workshop on Sea Ice - Structure Interaction](#)
[Antarctic Ecosystem Research following Ice Shelf Collapse and Iceberg Calving Events](#)
[8th Workshop on Sea Ice Modelling, Data Assimilation and Verification](#)

December 2017

[2017 AGU Fall Meeting](#)

January 2018

[Snow Measurement Field School](#)
[14th International Conference on the Physics and Chemistry of Ice](#)
[NSF Advanced Training Program in Antarctica for Early-Career Scientists](#)

February 2018

[1st Snow Microwave Radiative Transfer \(SMRT\) model training workshop](#)
[4th Snow Science Winter School](#)
[International Conference on Snow Hydrology \(SnowHydro18\)](#)
[Meteorology, Oceanography and Climate Science Conference AMOS-ICSHMO 2018](#)
[2018 Ocean Sciences Meeting](#)

March 2018

[Taking the Temperature of the Antarctic Continent - TACTical Workshop](#)
[27th International Polar Conference](#)
[International Symposium on the Cryosphere and Biosphere](#)

April 2018

[Polar Prediction School 2018](#)
[International Conference on Marine Ecosystem Assessment of the Southern Ocean](#)

June 2018

[5th International Summer School in Glaciology](#)
[5th European Conference On Permafrost \(EUCOP5\)](#)
[POLAR2018 - XXXV SCAR Meetings and SCAR/IASC Open Science Conference](#)

October 2018

[2nd Arctic Biodiversity Congress](#)

For more events, including those from our partners, [visit our Calendar of Events](#).

What's coming up...

Next month look for new website for the Tinker-Muse Prize, launch of Tinker-Muse Prize 2018 nominations, report of SCAR Executive Committee meeting and more...

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