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## ***News from the***

# **Scientific Committee on Antarctic Research**

## **June 2017**

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## **SCAR News**

## [Requests for Video clips of Antarctic fieldwork for SCAR Biology symposium](#)

Do you have a great clip (about 2-3 minutes) that shows the fieldwork you do in the Antarctic and the biodiversity you can find there?



In order to make the upcoming [XIIIth SCAR Biology symposium](#), July 10-14, a bit more interesting the organisers are gathering clips that will be shown during the conference. They are looking for high resolution clips of at least high definition resolution (1920 × 1080). If you have suitable clips you are happy to share please get in touch with [Anton van de Putte](#).

Please include the following information: Copyright holder (person, institute); Expedition: e.g. SO-AntEco, ACE, etc.; Location of the clip; What is seen on the clip (Ice station, benthic communities, etc.); Any restrictions on the use. If you do not provide any it will be assumed the material can be shared (but always mentioning the copyright holder); If you send a clip, make sure you have the rights to distribute the clip.

## [ISMASS Workshop addresses impact of ice sheets if global warming is limited to 1.5°C](#)

*-Contributed by Frank Pattyn*

An [Ice Sheet Mass Balance and Sea Level](#) (ISMASS) workshop was organized in Brussels from 11-13 January 2017 with the purpose of preparing a review paper on the contribution of Greenland and Antarctic ice sheets to future sea level under a 1.5 degree warmer climate (in line with the [Paris agreement](#)).



Discussions at the meeting led to the conclusion that the review paper would address the following: Forcing (non-linearities, SMB, circulation changes, feedbacks, ...), Advances in understanding processes - uncertainties since [IPCC Assessment Report 5](#) (calving, GIA, basal processes, ...), Expected centennial response for Greenland and Antarctica, and Expected long-term response (including commitment). The resulting review paper is planned to feed into the [IPCC Special Report on 1.5 degrees](#).

Participants at the meeting were Frank Pattyn (organizer), Lionel Favier, Gael Durand, Catherine Ritz (co-organizer and chair of ISMASS), Xavier Fettweis, Edward Hanna, Michiel van den Broeke, Heiko Goelzer, Xylar Asay-Davis, Alexander Robinson, Tony Payne, Helene Seroussi and Sophie Nowicki. Rob DeConto joined by Skype.

## [Antarctic Sea Ice Processes & Climate \(ASPeCt\) meeting looks to increase linkages with other sea ice research groups](#)

The SCAR [Antarctic Sea-ice Processes and Climate](#) (ASPeCt) Expert Group, co-sponsored by the [Climate and Cryosphere project](#) (CliC), met in Wellington, NZ in February this year and had the main goal of increasing coordination with other groups conducting sea ice related research in the Antarctic region. The group mainly focussed on increasing linkages with ongoing and emerging initiatives such as the SCOR Working Group for Measuring Essential Climate Variables in Sea Ice (ECV-Ice), the Year of Polar Prediction-Southern Hemisphere, and the CLIVAR/CliC/SCAR Southern Ocean Region Panel (SORP).



Technical discussions also focussed on the development of standardised equipment for Fast Ice measurements and the goal of extending (automated) standardised fast-ice instrumentation to include underway, ship-based (and possible plane/airframe-based) sensor packages to complete in situ sea-ice observatories. ASPeCt also fills an important observation role in establishing technical standards in the World Meteorological Organisation's Global Cryosphere Watch programme.

## [Update and future plans from the Biogeochemical Exchange processes at Sea Ice Interfaces Action group](#)

The SCAR [Biogeochemical Exchange processes at Sea Ice Interfaces](#) (BEPSII) Action Group held a 3-day workshop in April 2017, joined by the new Scientific Committee on Oceanic Research (SCOR) Working Group (#152) on Measuring Essential Climate Variables in Sea Ice (ECV-Ice) (SCOR) Working Group (#152) on Measuring Essential Climate Variables in Sea Ice (ECV-Ice). Twenty-seven scientists gathered in La Jolla, California to discuss the results of the past year's activities, plan upcoming activities, and to present scientific talks and posters.



Scientific Highlights included the gathering of large-scale databases of sea ice biogeochemical parameters; the presentation of new optical sensors for sea ice; the mapping of chlorophyll on a sea ice floe using an ROV, as well as memorable discussions on whether nitrate in sea ice are intra-cellular or concealed in biofilms. Some of BEPSII's major upcoming activities planned for the coming 3 years include: method intercalibration experiments, advising the upcoming Arctic field campaign [MOSAIC](#), and sea ice model intercomparisons.

**Read More**

## [Going deeper in Antarctica with SCAR's Fellowships](#)

In a recent interview with [\\*Research Professional](#), SCAR's Executive Director, Jenny Baeseman answers questions from Gretchen Ransow about SCAR's mission and the benefits of the [SCAR Fellowships](#) as well as a few tips and tricks for those interested in applying. [Download the article here](#), or if your Institution has a subscription to the magazine, you can find it through the [Research Professional website](#).



*This article was first published in \*Research Professional's Funding Insight service. For more information on \*Research Professional [click here](#).*

## [Deadline approaching for 2017 SCAR Fellowship applications](#)

There are just over two weeks remaining to the deadline for applications for the [2017 SCAR Fellowship Scheme](#). The deadline for applications is **1 July 2017**.

Fellowships enable early-career researchers to join a project team from another country, opening up new opportunities and often creating partnerships that last for many years and over many Antarctic field seasons. Fellows may be awarded up to US\$15,000 each and, this year, up to five are being offered by SCAR. Normally we award 4 a year, but thanks to the generous contribution from India, we can offer 5 this year.



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## [Spanish language Fellowships writing webinar recording available](#)

A recording of the [SCAR-COMNAP-APECS Spanish language Fellowships application writing webinar](#) hosted in March is now available from the [SCAR Fellowships Mentoring page](#).

Writing about research can be difficult, writing in your second (or third) language poses yet another set of challenges. So building on the success of the [first webinar](#) that was in English, [SCAR](#), [COMNAP](#) and [APECS](#) partnered again to hold a [similar training webinar](#) in March 2017, but this time in Spanish. This webinar aimed to provide additional tips and tricks for writing applications in English for Spanish speakers.



We had 46 participants joining the webinar, with lots of good advice from a highly qualified and experienced panel, and a wide range of questions from the participants.

**Read More**

## [Education meets science: Bringing polar research into the classroom, 3rd PEI Workshop summary](#)

- contributed by Matteo Cattadori, Patricia Azinhaga and José Xavier

The 3rd Polar Educators International (PEI) Workshop was held in Rovereto (Italy) from 11-14 July and brought together a total of 76 teachers, scientists and high school students from 12 countries worldwide, including [2 participants from Brazil and India](#) (the only participants from South America and Asia) supported by SCAR.



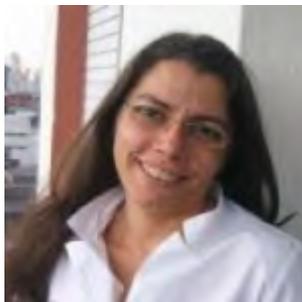
The program included 10 keynote research presentations and 6 keynote education and outreach presentations and laboratories. Other slots of the program were devoted to the presentation and sharing of experiences by participants through snap talks and two poster and hands-on sessions. The whole workshop was streamed online live through the website of the association ([www.polareducators.org](http://www.polareducators.org)), all the recordings as well as the workshop materials are [available online](#).

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## [SCAR CBET funds Asian and South American participants at the 2017 Polar Educators International Workshop](#)

For the recent [Polar Educators International Workshop in Rovereto, Italy](#), SCAR Capacity Building Education and Training (CBET) funds provided support for the attendance of Anant Pande from India and Silvia Dotta from Brazil, the only Asian and South American participants at the workshop.

Anant reports that he benefited from the interactive environment of the workshop and the ability to discuss his work with polar educators from around the world. He notes "The outreach methods were immensely helpful to design my own activities in the Indian context with a focus on training the teachers themselves". [PEI 2017 Workshop Report – Anant Pande](#)



Silvia also noted the benefits of being able to share her experiences with colleagues from different countries and was able to share some results of her research in polar science popularization in Brazilian elementary schools. Her research group ([INTERA](#)) has already started translating some of the class activities shared at the workshop to Portuguese. [PEI 2017 Workshop Report – Silvia Dotta](#)

The full versions of their reports from the Workshop are attached below. Presentations and videos from the workshop are available [here](#).

## [Abstract deadline extension for Workshop on GIA and Elastic Deformation](#)

The abstract deadline for the [International Workshop on Glacial Isostatic Adjustment and Elastic Deformation](#), to be held September 5-7, 2017, at Grand Hotel Reykjavik, has now been extended until **Friday June 16**. Abstracts must be submitted following the [website instructions](#).



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## [Report Available from the Fourth Session of the Global Cryosphere Watch Steering Group](#)

The [Fourth Session](#) of the [Global Cryosphere Watch](#) (GCW) Steering Group (GSG) took place from 16 to 19 January 2017. It was hosted by the British Antarctic Survey (BAS) and Steven Colwell, Chair of SCAR's [Operational Meteorology in the Antarctic](#) (OpMet) Expert Group in Cambridge, United Kingdom. The meeting reviewed the progress on the implementation of GCW, and towards its operationalization by 2020.



Reports of progress since the 3rd session of the Steering Group in December 2015 were presented by the Working Group Chairs and Team Leads. The participants examined the interaction with partners and identified actions for furthering these engagements in a more structured manner, and in the context of the [WMO Integrated Global Observing System](#) (WIGOS) framework. The final report from the session can be downloaded [here](#).

SCAR is represented on the steering committee by Executive Director Jenny Baeseman who presented an update on various SCAR activities as well as potential areas for further collaboration. SCAR sponsored a reception for the participants at the Scott Polar Research Institute in the Polar Museum.

**Read More**

## [ATCM XL SCAR Lecture: What does the United Nations Paris Climate Agreement mean for Antarctica? by Tim Naish](#)

At the recent Antarctic Treaty Meeting in Beijing China, Dr. Tim Naish gave [the SCAR Lecture](#). He summarized what the world agreed to in Paris, then briefly examined the relationship between the Antarctic Treaty System SCAR and the United Nations Framework Convention on Climate Change. He moved on to talk about the consequences for Antarctica and the Southern Ocean of 2°C of global warming based on the latest international science, much of which has been conducted under the auspices of SCAR's strategic research programmes.

Download the presentation:



Dr. Tim Naish's presentation entitled, "[What does the United Nations Paris Climate Agreement mean for Antarctica?](#)" given at the ATCM XL, Beijing, China, 2017, accompanied by the [text of the speech](#) and the [ATCM XL Background paper BP020: The SCAR Lecture: What does the United Nations Paris Climate Agreement mean for Antarctica?](#)

## Get to Know SCAR

### [Expert Group on Antarctic Biodiversity Informatics \(EG-ABI\)](#)

Biodiversity informatics is the application of [informatics](#) techniques to biodiversity information for improved management, presentation, discovery, exploration and analysis outcomes. It is generally focused on computationally-intensive aspects of biodiversity science and information processing, including architectures and systems, analysis and modelling methods, and human-computer interfaces. There is clearly a close relationship between informatics, data management, and biodiversity science, and so the EG-ABI group collaborates closely with a range of other groups and initiatives, including:

- the [SCAR Standing Committee on Antarctic Data Management](#)
- the [Southern Ocean Observing System](#)
- SCAR research programs including [AnT-ERA](#), [AntEco](#), and [ANTOS](#)
- the [Antarctic Environments Portal](#)

EG-ABI was created during the SCAR Life Sciences Standing Scientific Group meeting at the SCAR Open Science Conference in Portland Oregon, in July 2012. Its purpose is to foster the application and development of biodiversity informatics in the SCAR community, and it does this by coordinating and participating in a [range of projects](#) across the SCAR biodiversity science portfolio.

### [Southern Ocean Diet and Energetics Database](#)

Information related to diet and energy flow is fundamental to a diverse range of Antarctic and Southern Ocean biological and ecosystem studies. EG-ABI is collating a centralised database of such information to assist the scientific community in this work. It will include data related to diet and energy flow from conventional (e.g. gut content) and modern (e.g. molecular) studies, stable isotopes, fatty acids, and energetic content. It will be a product of the SCAR community and open for all to



participate in and use.

- Access the [Southern Ocean Diet and Energetics Database](#).

The database is a product of the [Expert Group on Antarctic Biodiversity Informatics \(EG-ABI\)](#).

## **Southern Ocean Continuous Plankton Recorder (SO-CPR)**

Antarctic plankton are expected to be particularly sensitive and vulnerable to climate change, both because of changes in ocean temperatures and by changing sea ice patterns. Increased UV levels, ocean acidification, invasive plankton species, pollution and harvesting impacts are also potential major threats. The synergistic effect of these threats working in combination is currently not known. Any change in the plankton are expected to have cascading effects through the rest of the food chain, as well as potentially altering the role of the plankton in the global climate system.

The SCAR Southern Ocean Continuous Plankton Recorder (SO-CPR) Survey was established in 1991 by the Australian Antarctic Division to map the spatial-temporal patterns of plankton biodiversity and use the sensitivity of plankton to environmental change as early warning indicators of the health of the Southern Ocean. It also contributes to or can serve as a reference for other observational/monitoring programmes such as the Southern Ocean Observing System (SOOS), Southern Ocean Sentinel (SOS), CCAMLR Ecosystem Monitoring Program (C-EMP), and the Integrating Climate and Ecosystem Dynamics (ICED) program.

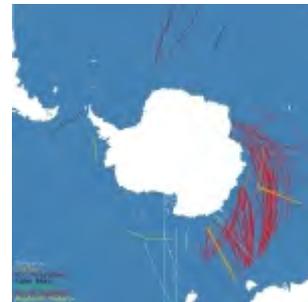
At the 2016 SCAR Delegates Meeting it was approved that the EG-CPR transitions to the SO-CPR Database Expert Group (SO-CPR), to focus on the Quality Assurance and Quality Control (QA/QC) of the data and to maintain the highest methodological standards in CPR sampling and taxonomic methodology across the SO-CPR Survey laboratories.

See also the [SO-CPR website](#).

## **Continuous Plankton Recorder Database**

The Australian Antarctic Division hosts the SO-CPR database. From their website linked below it is possible to:

- View the metadata record describing the Southern Ocean Continuous Zooplankton Records [AADC-00099] database.
- Search Tow Records by date, coverage
- Access the full tow list sorted by season and voyage. There are links to view the sample locations for a tow within the Australian Antarctic sector.
- Access a list of observed species with links to a distribution map within the Australian Antarctic sector.



For access to the data see the [SO-CPR website](#).

# **SCAR Featured Member Country - Belgium**

## **Belgium**

Belgium has a long history with Antarctica. Commander Adrien de Gerlache set sail to Antarctica with the Belgica in 1897 for what became the first recorded wintering in the Antarctic. On board was a multinational crew, amongst whom the explorer-to-become Roald Amundsen and the later-to-become infamous dr Frederick Cook were the most renowned. Moreover, the winter expedition gave rise to the first detailed observational measurements in meteorology and biology, thanks to the scientific efforts by Antoni Dobrowolski, Henryk Arctowski and Emil Racovita. Many Belgian place names in the Antarctic Peninsula witness of this heroic effort.



During the IGY in 1957, it was de Gaston de Gerlache who followed in his father's footsteps to respond amongst several other countries to the call to establish a research station in Antarctica. He constructed the Roi Baudouin Station on an ice shelf in Dronning Maud Land, Antarctica. The station itself remained operational until 1967; the last expeditions being a joint Belgian-Dutch endeavour. Due to this long-term involvement in Antarctica, Belgium signed the Antarctic Treaty in 1959 and was amongst the 12 countries that initiated the Scientific Committee on Antarctic Research in 1958. In 1982 the [Commission for the Conservation of Antarctic Marine Living Resources \(CCAMLR\)](#) was established with the objective of conserving Antarctic marine life. Again Belgium was among the original signatories.

[Read More](#)

## Research Features

### [Explaining the prospects for a West Antarctic Ice Sheet collapse](#)

The 2016 SCAR Weypecht Lecturer, Prof Christina Hulbe, has recently published a [Perspectives article in Science](#) on the current understanding around the likelihood of a collapse in the West Antarctica Ice Sheet (WAIS) and its implications.



Despite the extensive observations gathered since the vulnerability of the WAIS was first identified 40 years ago, model projections of the future rate of change can vary by a factor of ten. It is clear that in order to be able to plan for future climate scenarios, and potential sea level rises, the uncertainties in projections needs to be reduced. Christina identifies areas where both observations and modelling need to be improved to address these issues.

Christina Hulbe, "[Is ice sheet collapse in West Antarctica unstoppable?](#)", Science 356, 6341, 2017. DOI: 10.1126/science.aam9728

### [New volcanoes identified under the West Antarctic Ice Sheet](#)

A team from the [School of Geosciences, University of Edinburgh](#), has identified 138 volcanoes, 91 of which were newly identified, under the West Antarctic Ice Sheet (WAIS). Improving our understanding of subglacial volcanic activity across the province is important both for helping to constrain how volcanism and rifting may have influenced ice-sheet growth and decay over previous glacial cycles, and in light of concerns over whether enhanced geo- thermal heat fluxes and subglacial melting may contribute to instability of the WAIS.



The WAIS overlies the ice-covered West Antarctic Rift System for which we have limited knowledge of volcanic activity and extent. The team used ice-sheet bed-elevation data, mainly from the [BEDMAP-2](#) digital elevation model (a [SCAR Product](#)), to locate individual conical edifices protruding upwards into the ice across West Antarctica. They used aeromagnetic, aerogravity, satellite imagery and databases of confirmed volcanoes to support their interpretation. The overall result constitutes a first inventory of West Antarctica's subglacial volcanism. The volcanoes are especially concentrated and orientated along the >3000 km central axis of the West Antarctic Rift System.

Maximillian Van Wyk de Vries, Robert G. Bingham & Andrew S. Hein, [A new volcanic province: an inventory of subglacial volcanoes in West Antarctica](#), from Exploration of Subsurface Antarctica: Uncovering Past Changes and Modern Processes. Geological Society, London, Special Publications, 461 (2017). DOI: 10.1144/SP461.7

### [A retrospective review of the impact of extended darkness on overwinterers in Antarctica prior to 2003](#)

A recent retrospective review of the effect of extended periods of daylight and darkness on those living at the [British Antarctic Survey](#) operated [Halley Research Station](#) prior to 2003 has been published. Living for extended periods in Antarctica exposes base personnel to extremes of daylength (photoperiod) and temperature. Photoperiod is the major time cue



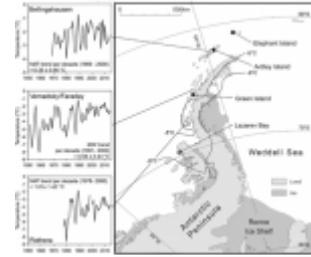
governing the timing of seasonal events such as reproduction in many species and when overwintering a strong seasonal and circadian(24hr) time cue is absent. Sleep, alertness and waking performance are critically dependent on optimum circadian phase.

The results were based on a series of studies regarding human seasonal and circadian status, and the effects of light treatment, in the small overwintering, isolated community, living in the same conditions for many months at Halley, prior to 2003. Little evidence was found of Seasonal Affective Disorder (SAD), or change in duration of melatonin production with season, however the timing of the melatonin rhythm itself was altered. The findings provide groundwork for dealing with the impact of the changes to photoperiod.

Josephine Arendt, Benita Middleton, [Human seasonal and circadian studies in Antarctica \(Halley, 75°S\)](#), General and Comparative Endocrinology, 2017. DOI: 10.1016/j.ygcen.2017.05.010

## [Researchers find recent rapid warming leads to a greener Antarctica](#)

In a [recent publication](#) by Amesbury et al. it has been found that biological activity at three sites on the Antarctic Peninsula has increased significantly in the last 50 years. The results, based on moss growth measurements dating back 150 years, indicate a response to recent climate change, identified through temperature records at the sites.



The authors suggest fundamental and widespread changes can be expected in the Antarctic terrestrial biosphere, with future warming leading to an Antarctic greening which would parallel that observed in the Arctic.

Matthew J. Amesbury, Thomas P. Roland, Jessica Royles, Dominic A. Hodgson, Peter Convey, Howard Griffiths, Dan J. Charman, ["Widespread Biological Response to Rapid Warming on the Antarctic Peninsula"](#), Current Biology, 27, 2017. DOI: 10.1016/j.cub.2017.04.034

## Educational Resources

### [Video: A Little Story About Climate Change](#)

[The three-minute story of 800,000 years of climate change with a sting in the tail](#)

-Ben Henley and Nerilie Abram, Source: [The Conversation](#)

"There are those who say the climate has always changed, and that carbon dioxide levels have always fluctuated. That's true. But it's also true that since the industrial revolution, CO<sub>2</sub> levels in the atmosphere have climbed to levels that are unprecedented over hundreds of millennia. So here's a short video we made, to put recent climate change and carbon dioxide emissions into the context of the past 800,000 years."



### [Video: Take Aim on Climate Change](#)

An upbeat invitation to "Take AIM at Climate Change" - with "AIM" standing for Adapt, Innovate, Mitigate. The lyrics are based on the latest science (in 2009) of Earth's changing climate, with the music a mix of rap and pop. Four verses connect changes in the Arctic and Antarctic to conditions around the planet, with choruses encouraging long-term thinking, and individual and community action. Optimistic, forward-thinking, but now's the time to act. "Yes we can!" take AIM at climate change. Download the video or audio versions at [TakeAIMatClimateChange.org](#) to iPods or iPhones, and share with friends. This video was produced by the [Polar Poloosa Project during the International Polar Year](#). An oldie, but a goodie.



### [Video: Cruise Cruise Baby](#)

Life as a marine biologist, based on five years of monthly cruises in the Gulf of Maine, set to "Ice Ice Baby". Lyrics and video by [Chris](#)



[Manning](#). Another oldie, but a goodie!



## Community News and Updates

### [Polar Prediction School 2018: First Call for Applications](#)

The EU Horizon 2020-funded [APPLICATE](#) project, in cooperation with the World Meteorological Organisation's Polar Prediction Project (PPP) in occasion of the [Year of Polar Prediction \(YOPP\)](#), the [Association of Polar Early Career Scientists \(APECS\)](#) and other partners are organising the second Polar Prediction School 2018 on weather and climate prediction in the polar regions from 17 - 27 April 2018 at Abisko Scientific Research Station in Sweden.



This school, for early career scientists, will include a combination of polar weather and climate theory lectures with exercises on modelling and field meteorology techniques as well as soft skill training. Each of these components forms a crucial pillar of the prediction problem, and the motivation for combining these is to provide participants with a complete overview of the components required to understand and predict polar weather.

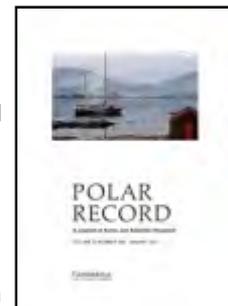
The Polar Prediction School 2018 will be open to 30 early career researchers (focus on advanced graduate students, PhD students, and postdoctoral researchers) from around the world. An international set of instructors will be teaching the sessions. As during the [first Polar Prediction School](#) in 2016, classes will be held at the Abisko Scientific Research Station, in Sweden, where the instructional facilities are conveniently located in an environment well suited to Arctic observations.

More information and how to apply can be found on the [Polar Prediction School 2018 website](#). Application deadline is 15 September 2017.

### [Call for Papers: Polar Record Special Issue on Education, Outreach, and Engagement](#)

The Editors have announced a call for papers for a special issue of Polar Record. This special issue of [Polar Record](#) will be dedicated to education, outreach, and engagement related to polar research and will help to draw scholarly attention to this aspect of polar research. **Submission deadline: 31 January 2018.**

The special issue will be published in conjunction with the tenth anniversary of the International Polar Year 2007-2008. That International Polar Year led to an upwelling of education, outreach and communication (EOC) initiatives across the polar research community. At the 2016 Scientific Committee on Antarctic Research (SCAR) conference in Kuala Lumpur, the Humanities and Social Science Expert Group identified science communication as a research priority.

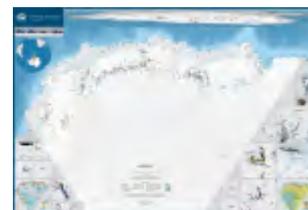


**Read More**

### [New map of Dronning Maud Land available](#)

The [Norwegian Polar Institute](#) (NPI) has recently published a new map of Dronning Maud Land at scale 1:2,500,000 and of physical size 100x70 cm.

The map can be downloaded as a PDF for free, or purchased from the NPI directly. For more info and downloads, please visit [NPI Topographic maps of Antarctica](#).



## [Several new publications available from the WCRP Climate and Cryosphere Project](#)

The [World Climate Research Programme \(WCRP\) Climate and Cryosphere \(CliC\)](#) project has released its latest newsletter, available [here](#).

Highlights include the 2016 CliC Annual Report, the meeting report from the 13th session of CliC's Scientific Steering Group and the 2017-2022 CliC Action Plan.

**Read More**



## [IAATO Appoints New Executive Director, Dr Damon Stanwell-Smith](#)

The [International Association of Antarctica Tour Operators \(IAATO\)](#) has announced the appointment of Dr Damon Stanwell-Smith as Executive Director.

Damon will lead the Secretariat and work with IAATO's Executive Committee to ensure the association is functioning according to its mission of safe, environmentally responsible private-sector travel to Antarctica.

Damon began his career as a marine biologist, gaining a PhD with the [British Antarctic Survey](#). Before heading programmes at the [United Nations Environment World Conservation Monitoring Centre \(UNEP-WCMC\)](#), he has been a project manager and consultant for several multi-national organisations and commercial operators, including expedition leading in the polar tourism sector. He also has extensive practical experience as a commercial diver and contractor with an emphasis on monitoring and research.



Terry Shaller, Chair of IAATO's Executive Committee said: "We are delighted to confirm Damon as Executive Director. He brings to the job a broad range of experience in commercial innovation, leadership and strategic planning that has involved a wide array of stakeholders and is set against a backdrop of environmental protection. Damon's knowledge and skills will mesh very well with IAATO's diverse group of committed operators."

Dr Stanwell-Smith succeeds Dr Kim Crosbie who will step down on June 1, after 12 years with the association. IAATO thanked Kim for her outstanding contributions and wished her all the best with future endeavours.

## [IX Latin American Congress on Antarctic Science](#)

The IX Congreso Latinoamericano de Ciencia Antártica / IX Latin American Congress on Antarctic Science will be held in the city of Punta Arenas, Chile, from October 4-6th, 2017.

The Congress is an opportunity to connect the growing community of Latin American polar scientists with researchers and potential collaborators from different regions of the world, and to provide a forum for sharing the latest results of research conducted in the White Continent. For this gathering, the city of Punta Arenas was chosen because it is one of the main gateways for the National Antarctic Programs to Antarctica, and the starting point for many expeditions from the "heroic age".



The CLCA2017 will comprise 3 different activities:

1. Pre-congress Workshops (October 2-3, 2017)
2. IX Latin American Congress on Antarctic Science:
  - Oral and poster presentations,
  - Keynote speeches,
  - Thematic symposia,

- APECS meeting.
- 3. Post-congress fieldtrip.

The abstract submission deadline is **20 June 2017**, and Early Bird registration ends on **30 June 2017**. Students must prove their status by copying their university's regular student certificate.

For registration, payment and upload of extended abstracts, please visit [the Congress website](#). For additional questions, please contact [the Congress Secretariat](#).

## [Postgraduate Certificate in Antarctic Studies](#)

The Postgraduate Certificate in Antarctic Studies (PCAS) is a 14-week, in-depth, multi-disciplinary programme of study that critically examines contemporary scientific, environmental, social and political debates focused on Antarctica and the Southern Ocean.

Jointly developed by the University of Canterbury and Antarctica New Zealand, this unique summer programme is the only programme in the world to take students to experience life in the Antarctic – at Scott Base, New Zealand's station on Ross Island, and at a field campsite on the Ross Ice Shelf. The 10-day visit to Antarctica is supported by Antarctica New Zealand, and participants undertake a mix of analytical and interpretive field projects and environmental monitoring projects in the vicinity of Scott Base.



The programme provides a unique Antarctic experience that is valuable for:

- Future Antarctic researchers;
- Employees and managers within National Antarctic Programmes;
- Employees within government agencies involved in Antarctic policy or environmental management;
- School teachers and university lecturers; and
- Antarctic enthusiasts.

The programme can be used as part of a Master's Degree. While the University of Canterbury does not offer scholarships for PCAS, financial support may be available for participants from National Antarctic Programmes and through external funding bodies.

Please note that applications for PCAS close on **1 August 2017**.

For further details, please visit [the PCAS website](#).

## Upcoming Events

***Don't forget to submit your abstracts for the 1st SCAR Antarctic Permafrost, Periglacial Processes and Soils (ANTPAS) Workshop in October!***

### June 2017

- [Year of Polar Predictions \(YOPP\) Special Session](#)
- [SOOS Scientific Steering Committee Meeting](#)
- [2017 Glacial Seismology Training School](#)
- [Forum for Research into Ice Shelf Processes \(FRISP\) Workshop](#)
- [27th International Ocean and Polar Engineering Conference](#)
- [12th Workshop on Antarctic Meteorology and Climate](#)
- [Year of Polar Prediction in the Southern Hemisphere \(YOPP-SH\) Meeting](#)
- [Southern Ocean Regional Panel \(SORP\) Meeting](#)

### July 2017

- [2nd Asian Conference on Permafrost \(ACOP2017\)](#)
- [2017 HASSEG/History Groups Biennial Conference](#)

[Workshop on Priority Threat Management for Antarctica](#)  
[SCAR Biology Symposium](#)  
[Conference on Regional Sea-level Changes and Coastal Impacts](#)  
[Climate Impacts on Glaciers and Biosphere in Fuego-Patagonia / Antarctica](#)  
[SCAR Astronomy & Astrophysics from Antarctica \(AAA\) Meeting 2017](#)

### **August 2017**

[Polar High Performance Computing \(HPC\) Workshop-Hackathon](#)  
[2017 Polar Geospatial Center Boot Camp](#)  
[GLIMS \(Global Land Ice Measurements from Space\) Workshop](#)  
[Polar Science Communication Workshop](#)  
[The future of biogeochemical cycling in the polar regions \(session at Goldschmidt Conference\)](#)  
[Polar Ice, Polar Climate, Polar Change: Remote sensing and modeling advances in understanding the cryosphere](#)  
[XXXII International Union of Radio Science \(URSI\) General Assembly & Scientific Symposium](#)  
[GEOTRACES Summer School](#)

### **September 2017**

[International Association of Geodesy/SCAR SERCE Workshop on "Glacial isostatic adjustment and elastic deformation"](#)  
[2nd World Symposium on Climate Change Adaptation \(WSCCA- 2017\)](#)  
[7th International Conference on Polar & Alpine Microbiology](#)  
[Past Antarctic Ice Sheet Dynamics \(PAIS\) Conference 2017](#)  
[International workshop on multi-scale sea ice characteristics and behaviour](#)  
[The cryosphere and its interactions with meteorology and the climate system at EMS 2017](#)  
[Summer School on Ice Sheets and Glaciers in the Climate System](#)  
[Workshop on Cryosphere and Hydrosphere for Global Change Studies](#)  
[2nd Workshop on Modelling Meltwater in Snow and Firn](#)  
[Ice Core Analysis and Techniques \(\\*ICAT\\*\) PhD school](#)

### **October 2017**

[IX Congreso Latinoamericano de Ciencia Antártica / IX Latin American Congress on Antarctic Science](#)  
[1st International ANTPAS Workshop on Antarctic permafrost, periglacial processes and soils](#)  
[CODATA 2017 Conference, "Global Challenges and Data-Driven Science"](#)  
[2017 West Antarctic Ice Sheet Workshop](#)  
[The #GreatAntarcticClimateHack](#)  
[Workshop on improved satellite retrievals of sea-ice concentration and sea-ice thickness for climate applications](#)  
[Polar-CORDEX Meeting](#)  
[32nd ICSU General Assembly](#)

### **November 2017**

[8th Workshop on Sea Ice Modelling, Data Assimilation and Verification](#)

### **January 2018**

[NSF Advanced Training Program in Antarctica for Early-Career Scientists](#)

### **February 2018**

[2018 Ocean Sciences Meeting](#)

### **March 2018**

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

### **April 2018**

[International Conference on Marine Ecosystem Assessment for the Southern Ocean](#)

[Polar Prediction School 2018](#)

**June 2018**

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

**October 2018**

[2nd Arctic Biodiversity Congress](#)

**September 2019**

[OceanObs'19](#)

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