

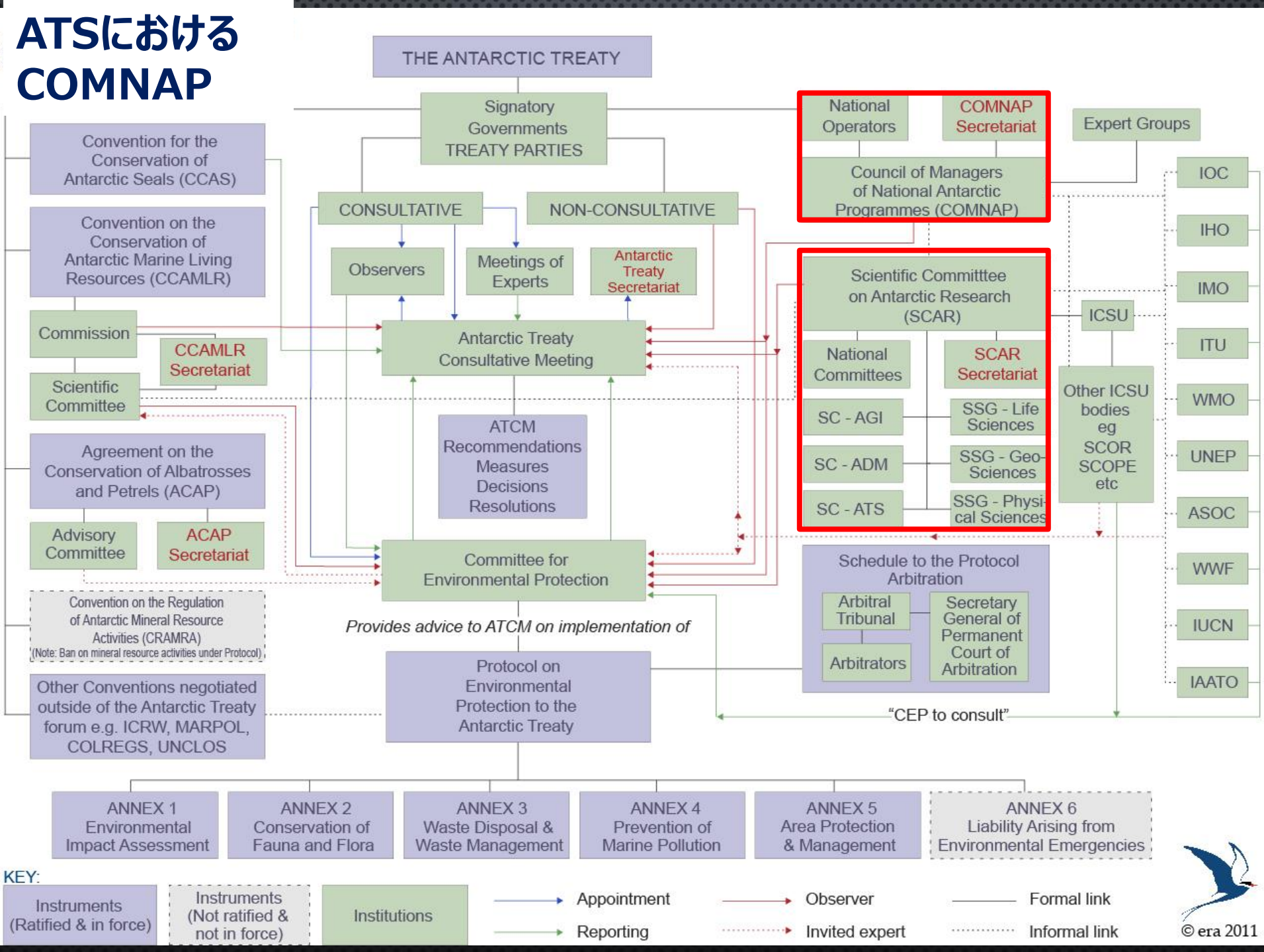
The Council of Managers of National Antarctic Programs (COMNAP) 「南極観測実施責任者評議会」の報告

南極観測センター 橋田 元



- COMNAPの組織と活動の概要
- 2018 AGM報告

ATSにおける COMNAP



COMNAP Constitution 04 July 2008

COMNAP Constitution

Adopted in Plenary Friday 04 July 2008

Preamble

Supporting Science

研究サポート

COMNAP憲章前文

What member **National Antarctic Programs** have in common is their **national responsibility to manage the support of scientific research** in the Antarctic Treaty Area.

Consistent with this, COMNAP's primary mission is **to develop and promote best practice in managing the support of scientific research** in the Antarctic.

Supporting the Antarctic Treaty System

南極条約体制サポート

COMNAP is committed to serve its role **in the Antarctic Treaty System** and **in the protection of the Antarctic environment** by providing **objective and practical, technical and nonpolitical advice** drawn from the National Antarctic Programs' pool of expertise

COMNAP憲章前文

COMNAP Origins

The Council of Managers of National Antarctic Programs (COMNAP) was formally created on 15 September 1988 to bring together the *Managers of National Antarctic Programs*, the officials responsible for carrying out national activity in the Antarctic on behalf of their governments all Parties to the Antarctic Treaty.

SCAR設営作業委員会⇒COMNAP傘下のSCALOPの流れを汲む

Until then, Managers of National Antarctic Programs only met informally on the margins of other meetings that they attended: meetings of the Scientific Committee on Antarctic Research (SCAR – a nongovernmental organisation), and Antarctic Treaty Consultative Meetings (ATCMs).

Some of their staff members were members of the *SCAR Working Group on Logistics*, which was then transformed into the *Standing Committee on Antarctic Logistics and Operations (SCALOP)* a group that had a special status as it was under the authority of both COMNAP and SCAR.

COMNAP maintains a special, complementary relationship with SCAR. The Executives of both organisations meet annually and both organisations attempt to coordinate their biannual Meetings so as to facilitate crossparticipation in both meetings.

COMNAP immediately started contributing positively to the Antarctic Treaty System and was very quickly formally recognised as a valuable member of the Treaty System. It was invited to provide a report to the ATCM as early as 1991 (XVI ATCM, Bonn, Germany, 0718 Oct 1991). XVI ATCM *recognised the important role of COMNAP in examining and solving practical problems relating to the implementation of scientific activities and their associated logistics* (refer XVI ATCM final report, paragraph 23). Since then, COMNAP has had the status of observer at ATCMs.

- 南極条約締約国のうち協議国はCOMNAPのメンバーとなり得る
- National Antarctic Program(NAP): 国が行う南極域における研究を実施する機関あるいはその研究計画
- Annual General Meeting(AGM): Managers of NAP(MNAP)が参加する年次総会 ※MNAP : 中村所長、DMNAP : 野木副所長
- 全会一致による決議
- 議長、副議長、執行員会、事務局

COMNAP Constitution

1 General

- Signatory to the AT => “National Antarctic Program” => Member of COMNAP
- NAP: The entity with national responsibility for managing the support of scientific research in the Antarctic Treaty Area on behalf of its government and in the spirit of the Antarctic Treaty.
- Annual General Meeting (AGM): The assembly of the “Managers of National Antarctic Programs” (MNAPs)
- Decision making at: The principle of consensus
- COMNAP Chair, one or more COMNAP Vice-Chairs, EXCOM, Secretariat

目的

- 環境保護において効果的な活動を実施するため、実践を発展の場
- 国際連携の調整と促進
- 情報交換の機会と精度の提供
- 南極条約体制への客観的、現実的、技術的、非政治的なアドバイスの提供を通して南極における研究サポートを実施

2 Purpose

The purpose of COMNAP is to develop and promote best practice in managing the support of scientific research in Antarctica, by

- Serving as a forum to develop practices that improve effectiveness of activities in an environmentally responsible manner;
- Facilitating and promoting international partnerships;
- Providing opportunities and systems for information exchange; and
- Providing the Antarctic Treaty System with objective and practical, technical and nonpolitical advice drawn from the National Antarctic Programs' pool of expertise.

現在の執行部

The COMNAP Executive Committee (**EXCOM**) elected officers are:

- **Kelly Falkner**, Chair, from the US National Science Foundation/USAP
- **Javed Beg** from National Center for Antarctic and Ocean Research/NCAOR India
- **John Guldahl** from Norwegian Polar Institute/NPI
- **Agnieszka Kruszevska** from the Polish National Antarctic Program/IBB PAS
- **Uwe Nixdorf** from Germany's Alfred Wegener Institute/AWI
- **Michel Rogan-Finnemore** Executive Secretary

南極条約締約国かつ環境保護議定書批准国のNAPがメンバーとなり得る

3 Membership

Membership of COMNAP: NAPs from nations whose governments are signatories to the Antarctic Treaty and have ratified its Protocol on Environmental Protection.

4 Secretariat

5 COMNAP Finances

6 Representation of COMNAP

7 Preamble and Rules of Procedure

8 Modification of this COMNAP Constitution

NAP Member:

30か国の加盟国

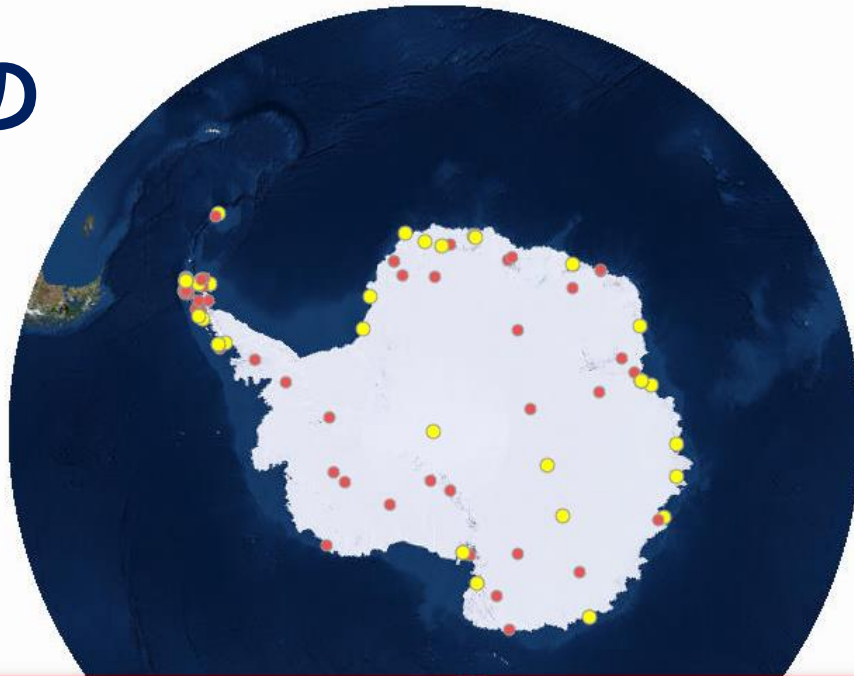
Argentina, Australia, Belarus, Belgium, Brazil, Bulgaria, Chile, China, Czech Republic, Ecuador, Finland, France, Germany, India, Italy, Japan, Republic of Korea, The Netherlands, New Zealand, Norway, Peru, Poland, Russian Federation, South Africa, Spain, Sweden, United Kingdom, Ukraine, Uruguay, United States

NAP Observer:

6か国のオブザーバー

Canada, Malaysia, Portugal, Switzerland, Turkey, Venezuela

COMNAPの 活動概要



COMNAP ANTARCTIC FACILITIES





COMNAP
Council of Managers of
National Antarctic Programs

ANTARCTIC STATION CATALOGUE

PRODUCTION

of Managers of National Antarctic Programs (COMNAP)

Association, formed in 1988, which brings together the national Antarctic programs and those organizations that are providing scientific support to the national Antarctic programs in the spirit of the Antarctic Treaty.

COMNAP's role is to provide a platform for the exchange of information and to develop practices that improve the management of the Antarctic environment.

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Version Date: August 2017

Scope of Antarctic Stations

FOREWORD

Providing information in relation to the capabilities of national Antarctic programmes is a significant responsibility, and one that all programmes take very seriously. It is also an obligation that places a burden on already busy national Antarctic programme staff, who must provide the information into multiple databases and systems and must ensure that the provision of data into each is done in a timely manner that addresses the needs for currency in the data.

The task is often complicated and time-consuming, since many of the databases ask for the same data to be input across multiple organisations, and some of the databases require specific expertise in order to contribute to them. For example, the air operations database in support of the COMNAP Antarctic Flight Information Manual (AFIM) requires that someone with in-depth knowledge of aviation infrastructure and operations be responsible for understanding AFIM data requirements and for providing the relevant data.

COMNAP, as the international association of the national Antarctic programmes from 30 Antarctic Treaty nations is in a good position to assist its members to ensure information on their programmes. In the past, COMNAP has tried to develop a one-off system that would respond to stakeholders' needs, but this approach proved impossible to achieve and to keep current. Now, with advances in technologies, and with the availability of off-the-shelf and open-source software packages, COMNAP has developed a database that supports a range of products and tools to exchange information amongst COMNAP members, with other Antarctic institutions, and with the general public. This catalogue of national Antarctic programmes' stations is one such tool.

I am very grateful to COMNAP Vice-Chair Dr Yves Frenot for bringing to COMNAP the opportunity to develop the catalogue and for working in his role as COMNAP Vice-Chair to provide oversight and ensure the project was delivered in a timely manner.

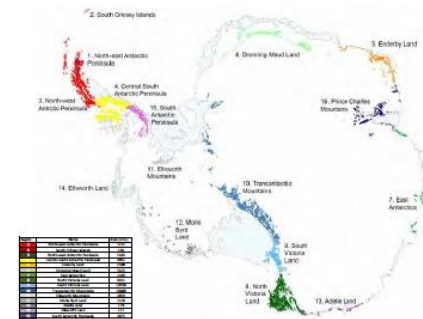
As the head of a national Antarctic programme, I personally understand the need for up-to-date information that is freely exchanged amongst our programmes. It assists us in our daily science support operations and in times of incidents and emergencies. I hope that COMNAP member national Antarctic programmes will continue to keep the information in the COMNAP database relevant and up-to-date to ensure that the products we are producing for the use of our stakeholders remain useful and accurate.

It is my pleasure to present to you the COMNAP station catalogue.

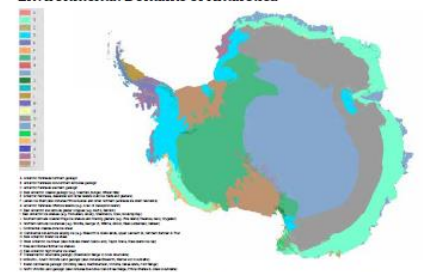
Kazuyuki Shirasaka

Professor Kazuyuki Shirasaka
NIPR Director-General
COMNAP Chairman

Antarctic Conservation Biogeographic Regions*



Environmental Domains of Antarctica*



*Source: Scott, D. and J. C. (2002) Antarctic Biogeography: evidence linking the Antarctic continent to the southern oceans. *Biological Conservation* 108, 1-10.
*Source: Scott, D. and J. C. (2002) Antarctic Biogeography: evidence linking the Antarctic continent to the southern oceans. *Biological Conservation* 108, 1-10.

Syowa National Institute of Polar Research

69°0'25.1"S 39°35'01.5"E

Type: Station

Operational period: Year-round

Location

Syowa station was established on East Ongul Island, Lützow-Holt Bay, on 29 January 1957.

Biodiversity and natural environment

Syowa station is located on East Ongul Island being separated by the Ongul Strait, which is approximately 4 km wide; the climate is comparatively moderate. The rock surface is exposed in the summer, revealing moss and lichen colonies.

History and facilities

Syowa station was built in 1957 in the International Geophysical Year; initially, cartographic, astronomical and gravity surveys were undertaken at the station. Now, a range of diverse research is carried out here and in the immediate vicinity of the station. Syowa is a year-round station with capacity for up to 130 people in the summer and a maximum of 42 people in winter.

General research and databases

Research undertaken at Syowa includes space and upper atmospheric, meteorology, geology, geosciences, biochemistry, polar engineering, and climate change studies. At present, National Institute of Polar Research (NIPR) and Syowa station are constantly networked via an internet satellite link, and the data from Syowa are directly transferred to NIPR through this network via a high-speed LAN in the station. The "Multipurpose Satellite Data Receiving System" at Syowa is operated by the Polar Data Centre (PDC), and data from various earth observation satellites are received and transferred to NIPR. The transferred data from Syowa are stored in the Polar Science Data Library System (POLARIS) in NIPR, and transferred to researchers in collaborating universities and institutes via the Science Information Network (SINET).

CLIMATE	
Climate zone	Coastal Antarctica
Humidity	Continuous
Mean annual wind speed (km/h)	6.7
Max wind speed (km/h)	
Dominant wind direction	
Sea ice Break Up	None
Snow-free period	None
Total annual precipitation (mm)	
Precipitation type	Snow
Mean annual temperature (°C)	-10.4
Mean temperature in February (°C)	-2.9
Mean temperature in July (°C)	-17.3
ENVIRONMENT	
Region	Continental Antarctica
Antarctic Environmental Domain: D - East Antarctic coastal geologic	
Antarctic Conservation Biogeographic Region: 6 Dronning Maud Land	
Altitude of facility (m)	25
Type of surface facility built on	Ice-free ground
Long-term monitoring	Yes
Waste management	Yes
Hazardous management	Yes
Fuel spill response capability	Yes



Photo: Syowa Station (NIPR)

Features in the facility area

Coast Lake, Low artificial light pollution, Low humidity, melt streams, Permanent snowpatches, Sea, Sea ice, Snow

Main science disciplines

Astrophysics, Atmospheric chemistry and physics, Climate change, Climatology, Ecology, Environmental sciences, Geocryology, Geodesy, Geology, Geomorphology, Geophysics, Glaciology, Human ecology, Isotopic chemistry, Limnology, Mapping, Marine biology, Medicine, Microbiology, Oceanography, Paleoclimatology, Pollution, Terrestrial biology

JAPAN

FACILITIES INFRASTRUCTURE	
Area under roof (m ²)	7480
Area scientific laboratories (m ²)	1330
Type of scientific laboratories: Biology, Chemistry, Geology, Geophysics	
Conference room (capacity)	
Logistic area (m ²)	6160
Number of beds	130
Showers	Yes
Laundry facilities	Yes
Power supply type	Fossil fuel, Renewable
Power supply (V)	
Power supply (hours per day)	100
Hydroponics facilities	Yes
Number of staff on station (peak/summer season)	120
Number of scientists on station (peak/summer season)	50
Number of staff on station (off peak/winter season)	30
Number of scientists on station (off peak/winter season)	10
Max number of personnel at a time (staff, scientists and others)	130
Scientific devices/Scientific equipment	
Scientific services possible:	
Long-term monitoring/observations:	
MEDICAL FACILITIES	
Area of medical facility (m ²)	100
Staff with basic medical training or doctor (Summer)	4
Staff with basic medical training or doctor (Winter)	2
Capability: Dental, Surgery	
Equipment: Anaesthesia, Biochemistry, Diagnostic ultrasound, Diagnostic X-ray, Laboratory diagnostics, Telemedicine	
Distance to hospital (km)	
Closest emergency facility in Antarctica (km)	
Closest emergency facility external (km)	
Medical research capabilities	Yes
Medical screening requirements	Yes
VEHICLES AT FACILITY	
Sea transportation: Rubber boats	
Land transportation: 4WD cars, snow vehicles, skidoo	
WORKSHOP FACILITIES	
Mechanical, Metal workshop, Wood workshop	
COMMUNICATIONS	
Computer, E-mail, Fax, Internet, Satellite phone, Telephone, VHF	
TRANSPORT AND FREIGHT	
Access	Air, Sea
Transport to facility: Airplane, Ship	
Number of airplanes	2
Length (m) of longest runway	1200
Width (m) of longest runway	50
Number of flights per year	5
Period of flight visits per year: January, February, November, December	
Helipad	Yes
Number of ship visits per year	1
Period of ship visits per year: January, February, December	
Ship landing facilities: None	

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Dismiss

Releases

Tags

Latest release

v3.0.1

a9ca75e

COMNAP Antarctic Facilities (v3.0.1)



herried released this 22 days ago · 2 commits to master since this release

Assets 2



Source code (zip)



Source code (tar.gz)

☐ Document Title

Description

[COMNAP RPA Handbook 27November2017](#)

COMNAP RPA Handbook, version 27 November 2017, which includes guidance on environmental aspects of RPA use in the Antarctic Treaty area.

[ATCM Guidelines for the Operation of Aircraft Near Concentrations of Birds in Antarctica \(2004\)](#)

These guidelines, nearly identical to corresponding guidelines developed by COMNAP, were adopted by the 2004 Antarctic Treaty Meeting through Resolution 2 (2004). These supersede any previous versions of the guidelines developed by COMNAP.

[ATCM Guidelines for Environmental Impact Assessment in Antarctica \(2005\)](#)

Updated version of original 1999 Guidelines

[COMNAP Practical Guidelines for Developing and Designing Environmental Monitoring Programmes in Antarctica \(January 2005\)](#)

COMNAP Practical Guidelines for Developing and Designing Environmental Monitoring Programmes in Antarctica (January 2005)

[ATCM Shipping Guidelines \(2004\)](#)

"Guidelines for Ships Operating in Arctic and Antarctic Ice-Covered Waters" adopted by ATCM XXVII through Decision 4 (2004). These are based on the guidelines proposed by COMNAP in its Working Paper 27/ATCM-WP009RevB. The Chair of ATCM XXVII forwarded these guidelines to IMO for its consideration. The text provided here is the original text of Decision 4 (2004), extracted from the final report of ATCM XXVII.

[ATCM Guidelines For Antarctic Protected Areas \(2000\)](#)

Guidelines for implementation of the framework for protected areas set forth in Article 3, Annex V of the Protocol on Environmental Protection to the Antarctic Treaty (Madrid Protocol)

[COMNAP Guidelines for Advance Exchange of Operational Information on Antarctic Activities \(revised 1999\)](#)

Note that the reporting procedure and formats included in these guidelines are not fully compatible with the more recent requirements of exchange of information as specified in recent Antarctic Treaty resolutions.

[COMNAP Visitors' Guide to the Antarctic \(1995\)](#)

COMNAP Visitors' Guide to the Antarctic (1995)

[COMNAP / SCAR Checklists for Supply Chain](#)

Checklists developed by COMNAP and SCAR as a result of the 2010 Workshop on non-native

Manuals and Handbooks

Publications

[Home](#)[Our Members](#)[Publications](#)[Projects](#)[Expert Groups](#)[Antarctic Information](#)[Contact](#)

<input type="checkbox"/> Document Title	Description
COMNAP Fuel Manual - V1.0 (01-April-2008)	The COMNAP Fuel Manual incorporates updates of the 4 fuel-related guidelines first published by COMNAP in 1992-1993, and replaces these guidelines. This manual, like the 4 original guidelines, is designed to assist National Antarctic Programs with: (1) preventing oil spills; (2) responding to a spill should one occur; and (3) sharing information about spills to help determine if, and where, there was a need to modify or improve fuel handling practices.
COMNAP-SCAR Antarctic Environmental Monitoring Handbook (June 2000)	COMNAP-SCAR Antarctic Environmental Monitoring Handbook (June 2000)
Waste Management in Antarctica (2007)	Proceedings of the 2006 workshop held by the COMNAP Antarctic Environmental Officers Network (AEON) on Monday 10 and Tuesday 11 July 2006. (Note: This file is 24MBs).

☐ Document Title Description

[Proceedings of the COMNAP Symposium 2016 Winter-Over Challenges \(PDF\)](#)

The Proceedings of the COMNAP Symposium 2016, Goa, India, "Winter-Over Challenges" (held 19 and 20 August 2016); Published as ISBN 978-0-473-38699-3.

[COMNAP Symposium 2014 Proceedings "Success Through International Co-operation" - PDF](#)

The Proceedings of the COMNAP Symposium 2014, Auckland, New Zealand, "Success Through International Co-operation" (held 25 August 2014); published as ISBN 978-0-473-31397-5.

[COMNAP Symposium 2012 Proceedings "Sustainable Solutions to Antarctic Challenges" - PDF](#)

The Proceedings of the COMNAP Symposium 2012, Portland, Oregon, USA, "Sustainable Solutions to Antarctic Challenges" (held 15 July 2012); published as ISBN 978-473-23259-7).

[COMNAP Symposium 2010 Proceedings "Responding to Change Through New Approaches" - PDF](#)

The Proceedings of the COMNAP Symposium 2010, Buenos Aires, Argentina, "Responding to Change Through New Approaches" (held 11 August 2010); published as ISSN 978-0-473-17888-8).

[COMNAP Symposium XI \(2004\) Proceedings](#)

This is the Proceedings from the COMNAP Symposium 2004 (Bremen, Germany).

[COMNAP Symposium X \(2002\) Proceedings](#)

This is the Proceedings from the COMNAP Symposium 2002 (Shanghai, China).

[COMNAP Symposium IX \(2000\) Proceedings](#)

This is the Proceedings from the COMNAP Symposium 2000 (Tokyo, Japan).

[COMNAP Symposium VII \(1996\) Proceedings](#)

This is the Proceedings from the COMNAP Symposium 1996 (Cambridge, United Kingdom).

[COMNAP Symposium VI \(1994\) Proceedings](#)

This is the Proceedings from the COMNAP Symposium 1994 (Rome, Italy).

[COMNAP Symposium V \(1992\) Proceedings](#)

This is the Proceedings from the COMNAP Symposium 1992 (San Carlos de Bariloche, Argentina).

[COMNAP Symposium IV \(1990\) Proceedings](#)

This is the Proceedings from the COMNAP Symposium 1990 (Sao Paulo, Brazil).



FINAL REPORT
Search and Rescue (SAR) Workshop III
Improving SAR Coordination and Response in the Antarctic



Convened by the Council of Managers of National Antarctic Programs (COMNAP)



Co-hosted by the Chilean Directorate General of the Maritime
Territory and Merchant Marine (DIRECTEMAR)
& the Instituto Antártico Chileno (INACH)



1 June (Wednesday) and 2 June (Thursday) 2016
MRCC Chile, Avenida Subida Cementerio 300, Playa Ancha
Valparaíso, Chile

COMNAP SAR Workshop IV

The 4th Search and Rescue (SAR) Workshop, will be held from 14-17 May 2019, in Wellington and Christchurch, New Zealand.



COMNAP
Council of Managers of
National Antarctic Programs

COMNAP Sea Ice Challenges Workshop

Hobart, Tasmania,
Australia
12–13 May 2015

WORKSHOP REPORT

Maps and Charts

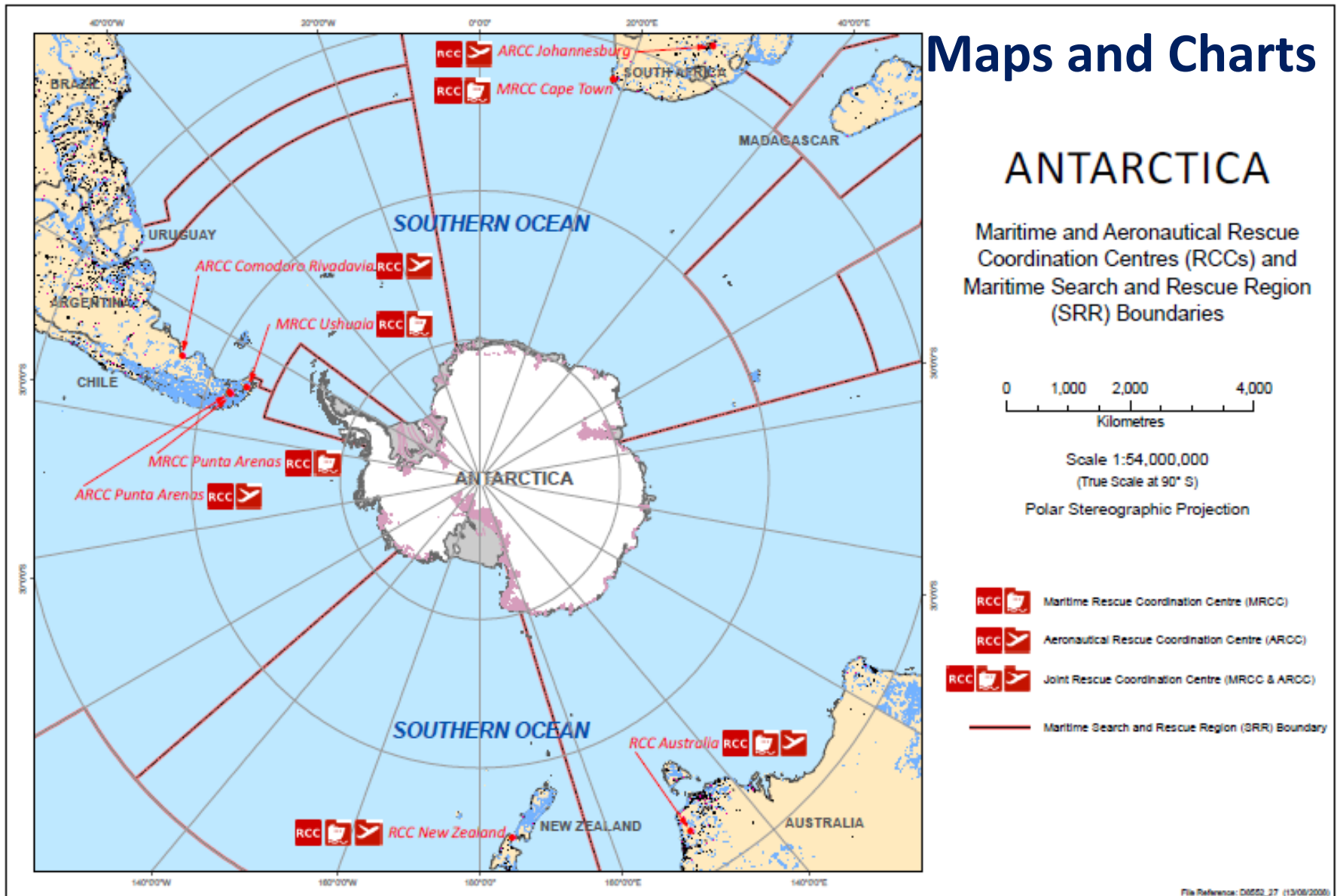
ANTARCTICA

Maritime and Aeronautical Rescue Coordination Centres (RCCs) and Maritime Search and Rescue Region (SRR) Boundaries

0 1,000 2,000 4,000
Kilometres

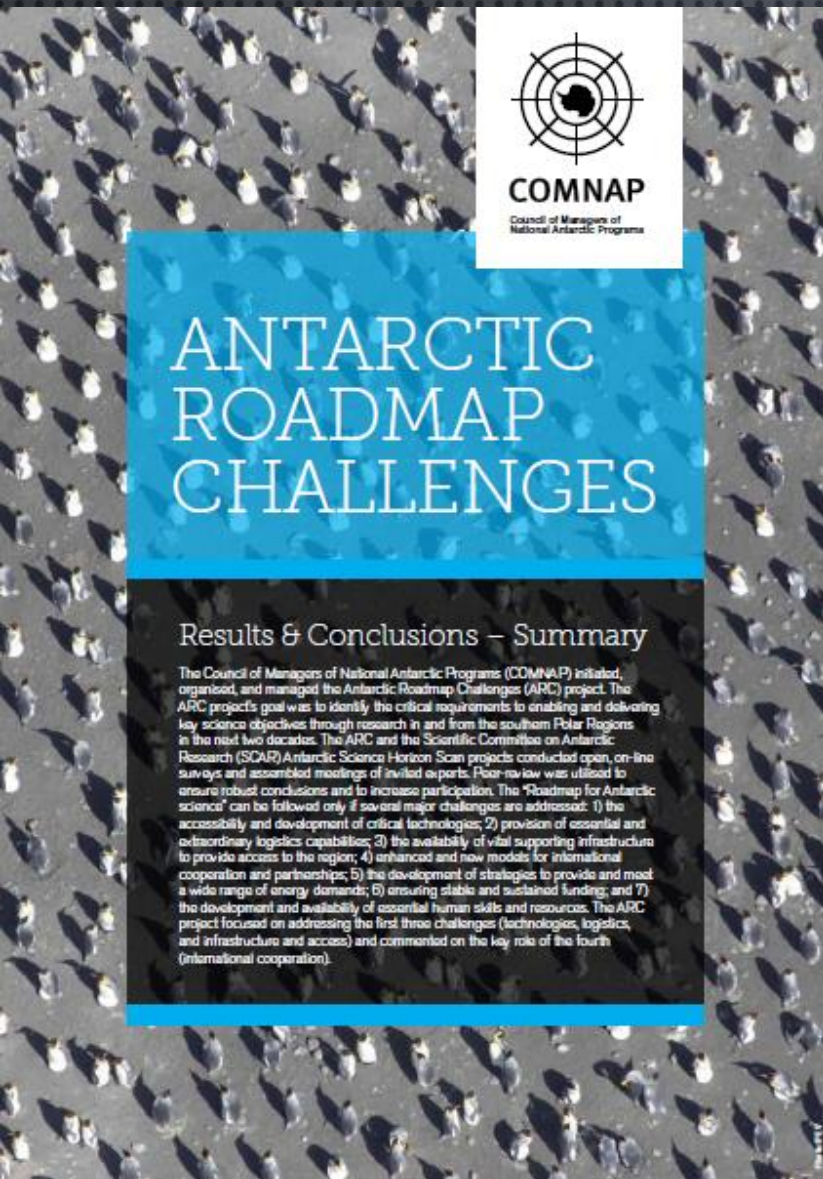
Scale 1:54,000,000
(True Scale at 90° S)

Polar Stereographic Projection



Antarctic Roadmap Challenge

SCAR Horizon Scanを具体的に 移すための設営的課題の抽出



“CROSS-CUTTING” TECHNOLOGIES

- Interoperable & autonomous
- Advanced data analysis and computational capabilities
- Enhanced satellite remote sensing capabilities
- Improved coupled Earth System Models
- “clean” and “in situ” sampling capabilities
- ground-truth for remote and autonomous sensing arrays

“SCIENCE TOPIC-SPECIFIC” TECHNOLOGIES

- Antarctic Atmosphere and Global Connections
- The Ice Sheet and Sea Level
- The Dynamic Earth Beneath Antarctic Ice
- Life on the Precipice
- Near-Earth Space and Beyond – Eyes on the Sky
- Human Presence in Antarctica
- Access, Infrastructure and Logistics
- The Costs
- International Collaboration

Antarctic Telecommunication Operator's Manual (ATOM)

COMNAP : Facilities | ATOM

Antarctic Telecommunication Operator's Manual (ATOM)
National Antarctic facility operated by National Antarctic Programs



MAY-07-2018 9:33 PM

Station	Telephone and Fax	Email, TELEX, and Radio
Argentina (13 Facilities)		
Belgrano II 77° 52.4333' S 34° 37.6667' W	0810 333 01 10 +54 11 437 347 59 +54 11 437 347 56 (Fax) +881 632 671 526 (Iridium)	basebelgranodos@yahoo.com.ar jefebelgrano@yahoo.com.ar sanidadbelgrano@yahoo.com.ar VHF CH 16 (156.800 MHz) VHF 156.375 MHz VHF (Land Mobiles) VHF VHF 156.375 MHz VHF Marine VHF 118.1 MHz Air VHF Normally keep watch on HF 11440 - 14402, 5 kHz and VHF 16 HF HF 4490 - 7980 kHz HF LTA 115 UHF 860 MHz

COMNAP Antarctic Gateway Cities Oil Spill Response Readiness

Version: 7 February 2014

Following COMNAP's survey of Antarctic national programmes oil spill response planning and readiness, a subsequent task was confirmed at COMNAP 2012 in Portland. This was to carry out a survey of Southern Hemisphere Antarctic Gateway Cities and Ports readiness and contingency to deploy oil spill response equipment to Antarctica in the event of a large marine oil spill, potentially. The project managers were Veronica Vlasich (Argentina) and Lou Sanson (New Zealand). Below are the results to date of this continuing survey.

Capetown, South Africa

Antarctic Flight Information Manual (AFIM)

Version: 17-02

Released: 08 December 2017



Produced by the Council of Managers of National Antarctic Programs (COMNAP)

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Expert Groups (Topics) 2018-2019

- Air Operations
- Advancing Critical Technologies
- Environment
- Joint Expert Group on Human Biology and Medicine (JEGHBM)
- Safety
- Science Facilitation
- Marine Platforms
- Education, Outreach & Training

第30回COMNAP AGM(年次総会)

- 期 日 : 2018年6月11日～6月14日
- 会 場 : The Garmisch-Partenkirchen Congress Centre
ドイツ・ガーミッシュ＝パルテンキルヒェン ホスト:AWI
- 参加者 : 中村所長、橋田（南極観測センター・副センター長）、
樋口（南極観測センター・設営グループマネージャー）



1. 総会

- 29か国出席（欠席：エクアドル）
- オブザーバー国(カナダ、ポルトガル、マレーシア、スイス、トルコ、欠席：ベネズエラ)
- 専門オブザーバー機関

Scientific Committee on Antarctic Research (SCAR)

Antarctic Treaty Secretariat

Committee for Environmental Protection (CEP)

International Association of Antarctica Tour Operators (IAATO)

the Southern Ocean Observing System (SOOS)

the Year of Polar Prediction (YOPP)

- サイドイベント出展企業等

※登録者数は過去最多となる200名以上



	COMNAP AGM XXX & COMNAP Symposium, Garmisch, Germany						
	Day 0	Day 1 AGM	Day 2 AGM	Day 3 AGM	Day 4 Symposium		
10 Apr 2018	Sunday 10 June	Monday 11 June	Tuesday 12 June	Wednesday 13 June	Thursday 14 June	Friday 15 June	
0800-0900		AGM Registration Desk open for pick-up of name badges			COMNAP Symposium		
0900-0930		AGM Plenary Session (includes keynote speaker, Rick van Stille on "plastic")	AGM Plenary Session	AGM "Geographical Break-out" sessions (in parallel) & opportunity for multi-lateral and bi-lateral meetings			
0930-1000							
1000-1030							
1030-1100						Coffee break	Coffee break
1100-1130	COMNAP EXCOM Meeting	AGM Regional break-out group sessions (in parallel) A) Larsemann Hills Management Group and B) Ross Sea Region	AGM Plenary Session	AGM Plenary Session (to continue until business completed) All or some of this session will be Member's Only			
1130-1200							
1200-1230							
1230-1300		Lunch break	Lunch break	(Planned close of AGM 1330hrs, but may change due to workload/progress)			
1300-1330							
1330-1400	Transportation by rack railway and cable car to Zugspitze	AGM Regional break-out group sessions (in parallel) C) East Antarctica and D) Peninsula	AGM Topical break-out sessions (in parallel) A) Safety & Medical-focussed discussion on harassment; telemedicine update and B) Environment-Reducing Emissions				
1400-1430							
1430-1500							
1500-1530							
1530-1600		Coffee break	Coffee break				
1600-1630	17:00hrs Welcome event/Icebreaker reception begins Venue: Zugspitze	AGM Regional break-out group sessions (in parallel) E) Dronning Maud Land and F) Peninsula	AGM Topical break-out sessions (in parallel) C) Marine platforms/science facilitation and D) Environment-Plastics			Note: Transportation by rack to Garmisch is at 1600hrs, for anyone from the COMNAP AGM or Symposium. Bus spaces are limited please pre-register your interest. If you require a transfer as part of the AGM pre-registration process, there will be a cost per person for the bus transfer. The bus will arrive to Garmisch Gisele at approximately 2000hrs/19hrs.	
1630-1700							
1700-1730							
1730-1800							
1800			Buses depart for transfer to AGM Dinner ¹ at 18:00hrs				
Evening			18:30-22:00hrs AGM Dinner Venue: Rössenwee				
Notes:	For the Welcome event/Icebreaker reception, it is a short rail journey and then cable car ride up to the venue. Therefore it is recommended delegates should begin to make their way at 1545. This will allow for the time at the top of the mountain before the event/reception begins. The return is also by the cable car at 1800hrs. So, at the end of the event/reception, there will be a wait to embark onto the cable cars. Plan accordingly.		For the "flexible platform" session, NAPS are encouraged to bring with them posters which describe their vessel/vessel capability, especially for new vessels planned, currently under construction or recently completed. For the dinner, all AGM delegates & partners welcome. Please ensure any dietary requirements are made known to our hosts at time of registration on Day 1. Transportation to and from the venue will be by bus.				



1. 総会

- 定例議事：前回（第29回年次総会）報告書の採択、議長報告、事務局報告、ATCM/CEP、SCAR報告
- プロジェクト等の報告。船舶および航空機の現在地と航跡が確認できる新システム“COMNAP Asset Tracking System (CATS)”、ATOM、AFIM
- 招待講演： Erik van Sebille（ユトレヒト大学）“Our plastic ocean: sources, pathways and distribution of marine plastic litter around Antarctica”
- 中期計画、2017/18決算、2018/19予算を承認
- 副議長選出
- 次回（第31回年次総会）開催地の決定。ブルガリア南極研究所がホストし、2019年7月29日～8月1日にブルガリア・プロヴディフ
- 2020年はSCAR/OSCと合わせてホバートで開催
- **2021年には日本が引き続き意向表明し異論はなかった。**



2. 地域別グループ分科会 (観測支援の向上と国際協力)

- 東南極、DML、ラルスマンヒルズ
- ロス海、半島

3. 専門家グループ分科会

- 環境専科家グループ
- 安全専門家グループ：ハラスメント
- 遠隔医療専門家グループ
- 海洋研究・プラットフォーム専門家グループ



4. “Facilitation of Internationally Collaborative Antarctic Science” シンポジウム

- セッション1：IPICS and the “Hunt for the oldest ice”
- セッション2：Innovative technologies & Pre-planning
- セッション3：Learning from and building upon experiences; Strengthening regional alliances and partnerships
- セッション4：Role of traversing, ships, aircraft and infrastructure support