

SCAR (The Scientific Committee
on Antarctic Research)報告
followed by
AFoPS(Asian Forum for Polar
Sciences)報告

中村卓司

(SCAR日本代表、AFoPS日本代表)

SCAR (南極研究科学委員会) 旧ロゴ と 新ロゴ



ICSU と ISSC が統合して ISC に。

ICSU: 国際科学会議 (International Council for Science)

ISSC: 国際社会科学評議会 (International Social Science Council)

ISC: 国際学術会議 (International Science Council)

- The International Science Council currently has 141 Member Organizations, 39 Member Unions and Associations and 29 Affiliated Members.

SCAR(南極研究科学委員会)

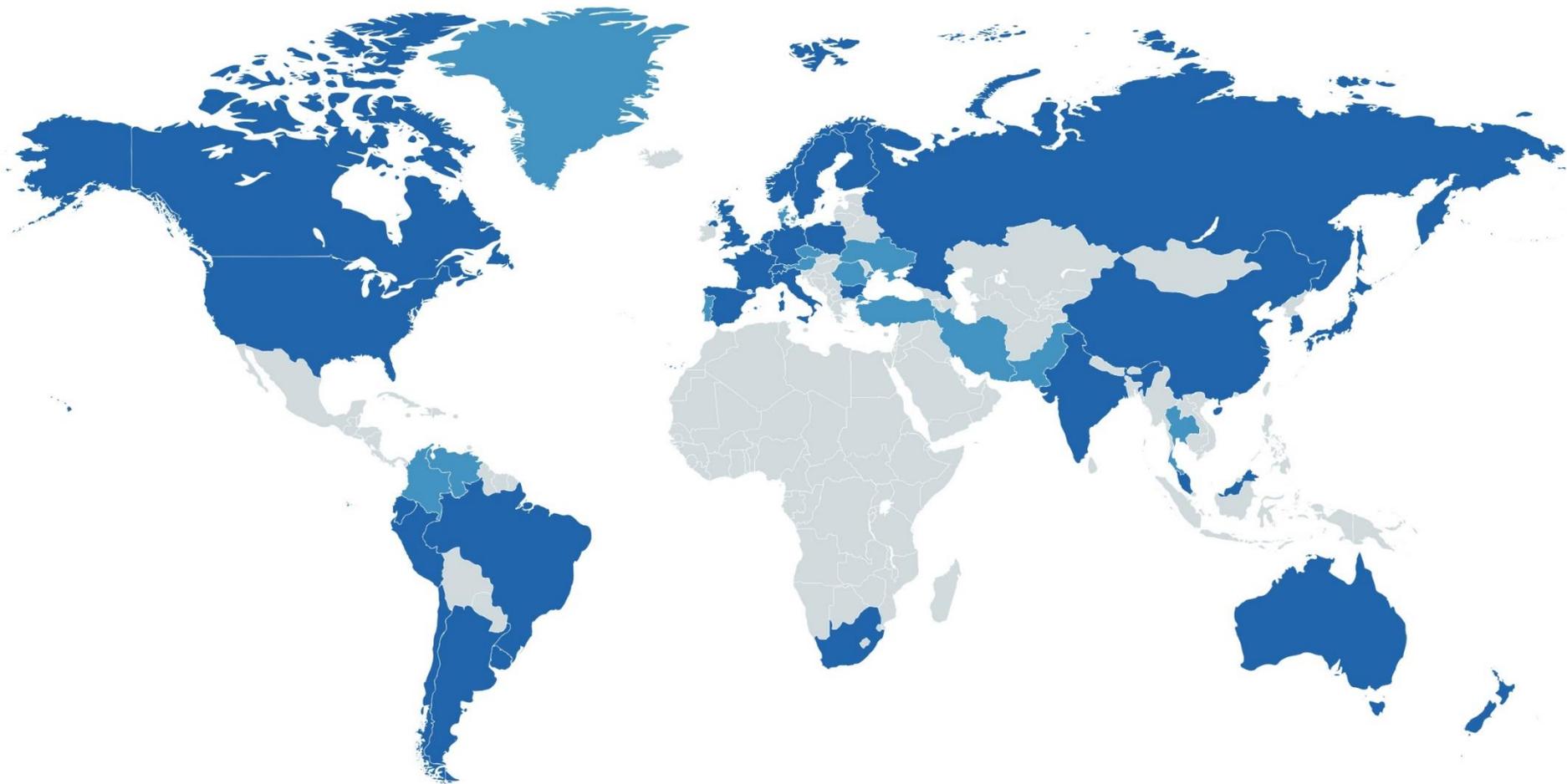
- ICSU (ISC)の学際組織(Interdisciplinary Body)。
 - C.f. 他の学際組織 COSPAR, SCOSTEP
 - IUGG, IAU, IUGS、 URSIなどは連合(union: 計31ある)
 - ICSUメンバー国は、121カ国。
 - IASCは、準会員(Associate)。
- SCARのメンバー国
 - 43 + 1 = 44 カ国 (2018にベラルーシがAssociate member加盟)
 - 31 + 2 = 33カ国が正式加盟国(Full member)
 - ウクライナが復活(2018)。ポルトガルが正式加盟国(2018)。
- SCARのメンバーユニオン
 - 9つの連合(Union)

International Astronomical Union (IAU), International Geographical Union (IGU), International Union for Quaternary Research (INQUA), International Union of Biological Sciences (IUBS), International Union of Geodesy and Geophysics (IUGG), International Union of Geological Sciences (IUGS), International Union of Physiological Sciences (IUPS), International Union of Pure and Applied Chemistry (IUPAC) and Union Radio Scientifique International (URSI).

Interdisciplinary bodies under ICSU

	Interdisciplinary Body	Established	Sponsors
<u>COSPAR</u>	Committee On SPACe Research	1958	ICSU
<u>CODATA</u>	COMmittee on DATA for Science and Technology	1966	ICSU
<u>DIVERSITAS</u>	An International Programme of Biodiversity Science	1991	ICSU, IUBS, SCOPE, UNESCO
<u>FUTURE EARTH</u>	Research for Global Sustainability	2011	ICSU, ISSC, Belmont Forum, UNU, UNEP
<u>GCOS</u>	Global Climate Observing System	1992	ICSU, IOC, UNEP WMO
<u>GOOS</u>	Global Ocean Observing System	1993	ICSU, IOC, UNEP, WMO
<u>GTOS</u>	Global Terrestrial Observing System	1996	FAO, ICSU, UNEP, UNESCO, WMO
<u>HEALTH & WELLBEING</u>	Health and Wellbeing in the Changing Urban Environment: a Systems Analysis Approach	2011	ICSU
<u>IGBP</u>	International Geosphere-Biosphere Programme	1986	ICSU
<u>IHDP</u>	International Human Dimensions Programme on Global Environmental Change	1996	ICSU, ISSC, UNU
<u>INASP</u>	International Network for the Availability of Scientific Publications	1992	ICSU
<u>IRDR</u>	Integrated Research on Disaster Risk	2008	ICSU, ISSC, UN ISDR
<u>IUCAF</u>	Scientific Committee on Frequency Allocations for Radio Astronomy and Space Science	1960	IAU, COSPAR, URSI
<u>PECS</u>	Programme on Ecosystem Change and Society	2008	ICSU, UNESCO
<u>SCAR</u>	Scientific Committee on Antarctic Research	1958	ICSU
<u>SCOR</u>	Scientific Committee on Oceanic Research	1957	ICSU
<u>SCOSTEP</u>	Scientific Committee On Solar-TERrestrial Physics	1966	ICSU
<u>WCRP</u>	World Climate Research Programme	1980	ICSU, WMO, IOC
<u>WDS</u>	World Data System	2008	ICSU

SCAR 加盟国



POLAR2018でのSCAR

- ・ 6月15 – 18日 各種ビジネスミーティング (Action Groups, Expert Groups, Standing Committees, Science Groups)
- ・ 6月19 – 23日 SCAR/Open Science Conference
- ・ 6月25 – 26日 SCAR代表者会議

New SCAR ExCom members after 2018

President



Prof Steven Chown

Monash University
Australia

[profile](#)

[email](#)



Dr Gary Wilson

- Vice President for Administration

University of Otago
New Zealand

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Vice Presidents



Prof Jefferson Cardia Simões

- Vice President for Finance

Universidade Federal do Rio Grande do Sul
Brazil

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Dr M Ravichandran

- Vice President for Capacity Building

National Centre for Antarctic and Ocean Research (NCAOR)
India

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Dr Catherine Ritz

- Vice President for Science

Université Grenoble Alpes
France

[profile](#)



Executive Director

Dr Chandrika Nath

SCAR Secretariat

[profile](#)

[email](#)

SCARの組織

- the Science Groups (SGs),
 - GeoScience, Life Science, Physical Science
- Scientific Research Programmes (SRPs),
- Expert Groups,
- Action Groups,
- Advisory Groups and
- groups co-sponsored with other organisations.

Science Research Programmes (SRPs) (1)



Astronomy and Astrophysics from Antarctica - AAA

This Scientific Research Programme aims to coordinate astronomical activities in Antarctica in a way that ensures the best possible outcomes from international investment in Antarctic astronomy, and maximizes the opportunities for productive interaction with other disciplines.



Antarctic Climate Change in the 21st Century - AntClim21

This Scientific Research Programme aims to deliver improved regional projections of key elements of the Antarctic atmosphere, ocean and cryosphere for the next 20 to 200 years, and to understand the responses of the physical and biological systems (through multi-disciplinary collaboration) to natural and anthropogenic climate drivers.



State of the Antarctic Ecosystem - AntEco

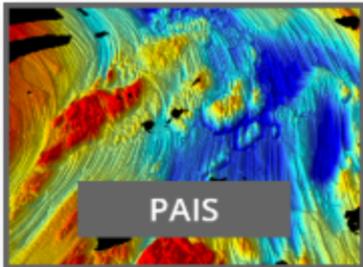
This Scientific Research Programme aims to increase the scientific knowledge of biodiversity, from genes to ecosystems that, coupled with increased knowledge of species biology, can be used for the conservation and management of Antarctic ecosystems.

Science Research Programmes (SRPs) (2)



Antarctic Thresholds - Ecosystem Resilience and Adaptation - AnT-ERA

This Scientific Research Programme aims to provide a platform for the exchange of knowledge and for the support of research on biological processes at ecological time scales especially related to environmental change.



Past Antarctic Ice Sheet Dynamics - PAIS

This Scientific Research Programme aims to improve understanding of the sensitivity of East, West, and Antarctic Peninsula Ice Sheets to a broad range of climatic and oceanic conditions and to improve confidence in predictions of ice sheet and sea level response to future climate change and ocean warming.



Solid Earth Responses and influences on Cryospheric Evolution - SERCE

This Scientific Research Programme aims to advance understanding of the interactions between the solid earth and the cryosphere to better constrain ice mass balance, ice dynamics and sea level change in a warming world.

Science Group 設置の提案 2 件

従来の 3 つの Science Group

- GeoScience Group
- Life Science Group
- Physical Science Group

新規提案

- **Astro Sciences**
 - Astronomy & Astrophysics from Antarctica (AAA) SRP(Science Research Program)からの昇格提案。
- **Humanity and Social Sciences**
 - 2つのExpert Group (History, Humanity and Social Science)を統合した昇格提案。

代表者会議での2日間の議論の末

- Astronomy & Astrophysics from Antarctica (AAA) は、ExCom直下のSRPとなる。
- Humanity and Social Sciencesは、Standing Committeeとなる。
- 両者とも2年間でReviewして、Science Group設置の可否を審議。
- Science Group設置のProcedureを明文化する。

Physical Science Group 会合報告(6/18)

- 8つのExpert Group (IPICS (氷床コア), ISMASS(氷床質量収支と海水準), SORP(南大洋), ASPeCt(海氷), FRISP(棚氷), OpMet(気象), GRAPE(GNSS), ANTOS(沿岸陸上)の報告、ACCE Advisory Group報告、2つのSRP(Scientific Research Programme: AntClim21, AAA(南極天文))の報告、4つのAction Group(ACA, SnowAnt, Remote Sensing, PACT)の報告があった。また、Action Group TATEは組織再編の提案があった。
- 新たにExpert Group1件 (EOA)、Action Group 3件 (ANGWIN, AntArchitecture, ImPACT)の設置提案があり、4件ともAction Groupとして提案を認めることとした。
- 一方、Expert Group GRAPE(極域でのGNSS研究と応用)から新たなSRPであるRESOURCE(Radio Sciences Research on AntarctiC AtmospherE)の2020年の設置提案があった。

その他の事項

- SCAR 60周年（1958年設立）で記念行事が開催された。
- SCAR 2022年総会は、インドで開催。
- （SCAR 2020年は、ホバート（豪））
- 13th International Symposium on Antarctic Earth Science (ISAES 2019) が2019年7月インチョン（韓）で開催。

AFoPS (Asian Forum for Polar Sciences)

2004年に設置。

メンバーは、日、中、韓、インド、マレーシア、タイ
オブザーバー、ベトナム、フィリピン、インドネシア、スリランカ

毎年、AGM(Annual General Meeting)を開催。国際会議時に
Special Meeting開催。



AFoPS Terms of Reference よ り

- General

Asian Forum for Polar Sciences (AFOPS) is a non-governmental organization established to encourage and facilitate cooperation for the advance of polar sciences among countries in the Asian region.

- Objectives

Recognizing the value of scientific research in the Polar Regions for the benefit of mankind, Recognizing the importance of international cooperation in the Polar Regions and the need to work closely with other national operators, and Aiming to serve the common interests in polar sciences and logistics,

- Member countries will work together:

- 2.1 To provide a foundation for cooperative research activities
- 2.2 To present Asian achievements toward international polar communities
- 2.3 To encourage more Asian countries' involvements in polar sciences

Updates

- 今年のSpecial Meetingは、Davos/Polar 2018で開催された。
- 今年のAGMは、10月10-12日にXiamen (厦門) で開催。
- Host Countryは2年毎に交代。現在、中国が2年目。2019-2020は、日本となる。
- 従って、2019年に立川、2020年は別都市で開催？