

Scientific Committee on Antarctic Research

www.scar.org



SCAR'S AIM

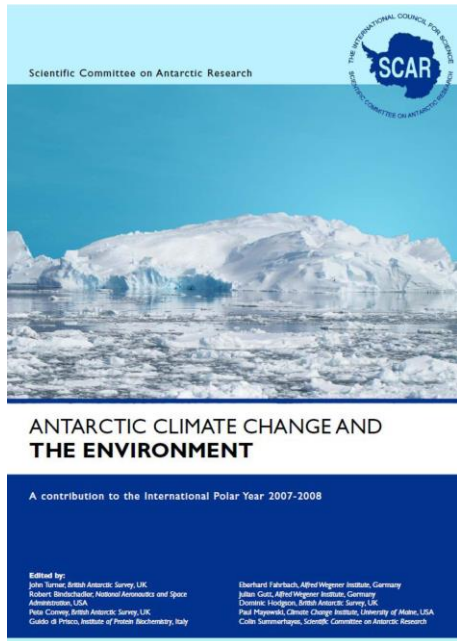
To be an engaged, active, forward-looking organisation that **promotes, facilitates and delivers scientific excellence** and evidence based **policy advice** on globally significant issues in and about Antarctica.



Antarctic Climate Change and the Environment

Began in 2009 through SCAR's Expert Group on ACCE and provided annual updates to the annual ATCM including **2013 Executive Summary update**

Decadal synopsis presented to the ATCM XLIV in 2022, leading to a full-day session in ATCM XLV, in June 2023.



ACCE (2009)



ACCE Decadal Update (2022)



ATCM Helsinki 2023



Menu

Orpo's Governn

[suomi](#) | [svenska](#) | English

Helsinki Antarctic meeting culminates in agreement on climate declaration

Ministry for Foreign Affairs

14.6.2023 15.08 | Published in English on 14.6.2023 at 15.10 NEWS ITEM

The nearly two-week long Antarctic Treaty Consultative Meeting (ATCM) in Helsinki ended successfully last week. It brought more than 400 Antarctic experts from 56 countries and key global climate and environmental organisations to Helsinki. The meeting had a constructive atmosphere, and global tensions were mostly overlooked. However, no agreement was reached on new consultative members.

“*Highlighting that in 2022, the ATCM welcomed the report of the Scientific Committee on Antarctic Research (SCAR) on [Antarctic Climate Change and the Environment: A Decadal Synopsis and Recommendations for Action](#) (ACCE), and adopted Resolution 4 (2022) and Decision 4 (2022) on the subject, including welcoming SCAR’s advice that urgent action is required to prevent irreversible changes to the Antarctic environment and consequential implications for the planet;*”



June 2023



More than 60 experts from 41 institutions and 14 countries attended the annual meetings of the [Scientific Committee on Antarctic Research/Climate and Cryosphere Sea ice Working Group](#) and the [Arctic Sea Ice Working Group](#)



Scientific Research Programmes

2012 - 2020

Antarctic Climate Change in the 21st Century (AntCLIM²¹)

State of the Antarctic Ecosystem (AntECO)

Antarctic Thresholds – Ecosystem Resilience and Adaptation (AntERA)

Past Antarctic Ice Sheets (PAIS)

Solid Earth Responses and influence on Cryospheric Evolution (SERCE)



Scientific Research Programmes

2021 - 2028

INStabilities and thresholds in ANTarctica (**INSTANT**)

Aims to quantify the Antarctic ice sheets contribution to past and future sea level rise

Integrated Science to Inform Antarctic and Southern Ocean Conservation (**Ant-ICON**)

Research to drive and inform international decision-making and policy change

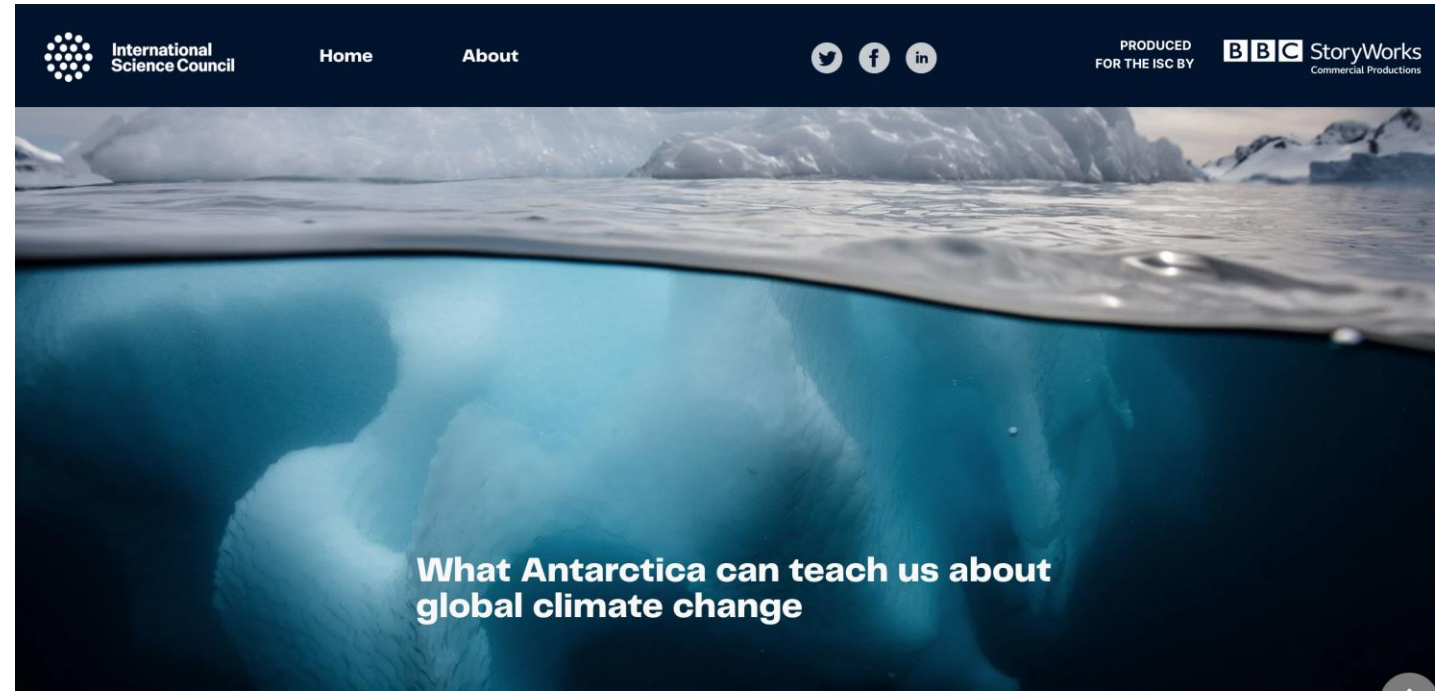
Near-term Variability and Prediction of the Antarctic Climate System (**AntCLIM^{Now}**)

Prediction of near-term conditions in the Antarctic climate system



2021 Unlocking Science series

Explores the work of our overarching current and past Scientific Research Programmes PAIS, SERCE and INSTANT.



Article received 902.2k impressions and 20.5k engagements, second highest of all articles in series



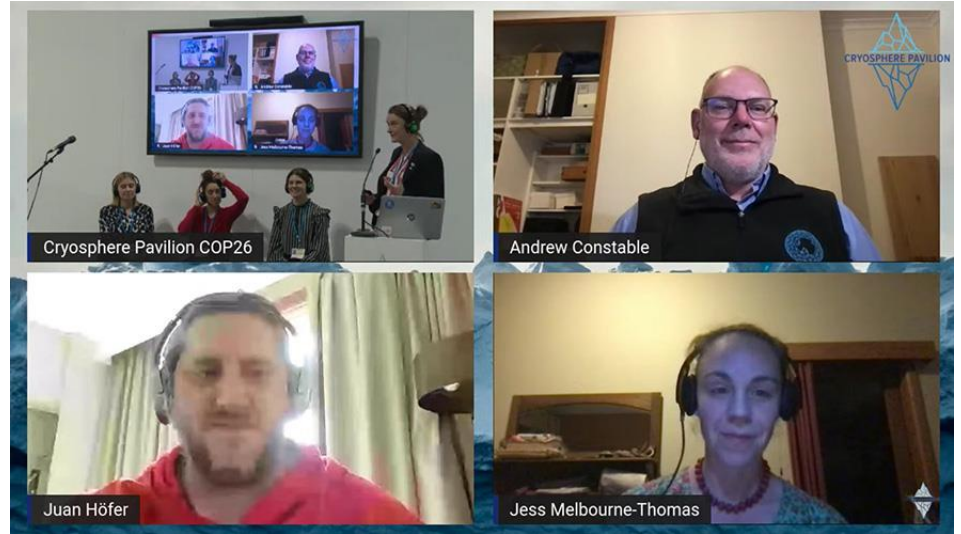
UNFCCC COP26 – Glasgow 2021



COP26 Cryosphere Pavilion



Antarctica and Overshoot Scenarios: Risks of Irreversible Sea-level Rise



Antarctic Marine Ecosystems Under Pressure: Protection Needs Action Locally and Globally



UNFCCC COP27 – Sharm El Sheikh 2022



COP27 Cryosphere Pavilion



Antarctica and Paris Goals: Risks of Massive Sea-level Rise



Southern Ocean Ecosystems: Need for Augmented Understanding, Research Efforts and Protection





COP28
UAE

**Cryosphere Pavilion coordinated by
International Climate Cryosphere Initiative (www.iccinet.org)
Livestream available**

December 8th – Polar Oceans

11:30 Antarctic and Southern Ocean Ecosystems Under Severe Threat from Climate Change

Official side event

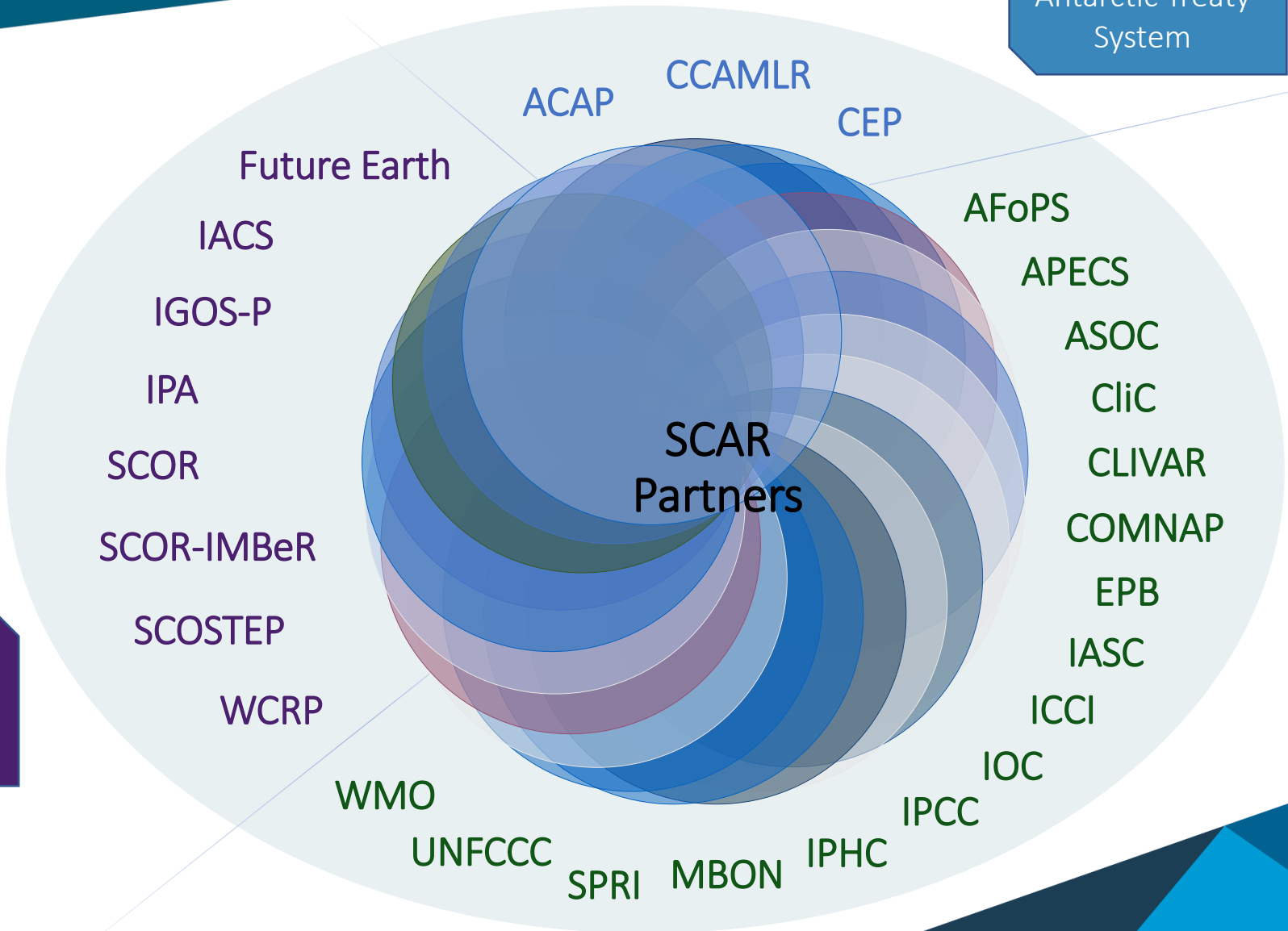
Sunday December 10th, 1130 -1300

Adaptation with Loss and Damage: Facing Sea-level Rise and Mountain Freshwater Losses Above 1.5°C



Partnerships

Elements of the Antarctic Treaty System



International Organisations and Programmes

Scientific Bodies of the International Science Council



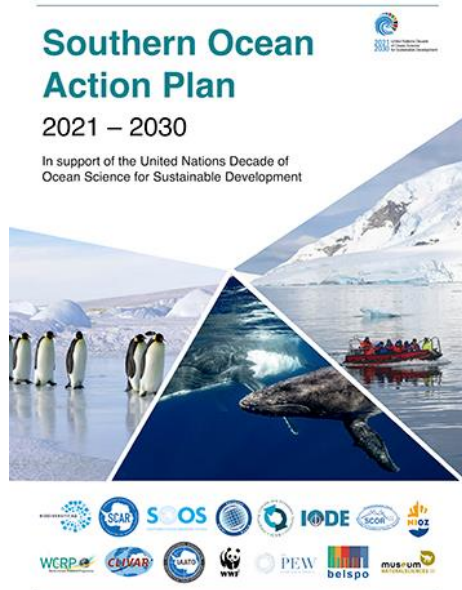
UN Decade of Ocean Science



2021
2030 United Nations Decade
of Ocean Science
for Sustainable Development

World Oceans Day, 8th June 2023 – Approval for SCAR as a Decade Collaborative Center for the Southern Ocean Region (DCC-SOR)

SCAR continues to work with partners coordinating the Southern Ocean Task Force (www.sodecade.org) as an Advisory Board for the DCC-SOR.



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Email info@scar.org with any questions or to sign up to the SCAR mailing list

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www.scar.org

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