2022 Polar Symposium

Priorities from the Poles

Dr Renuka Badhe,

Executive Secretary, European Polar Board

Why go to the ends of the earth for science?

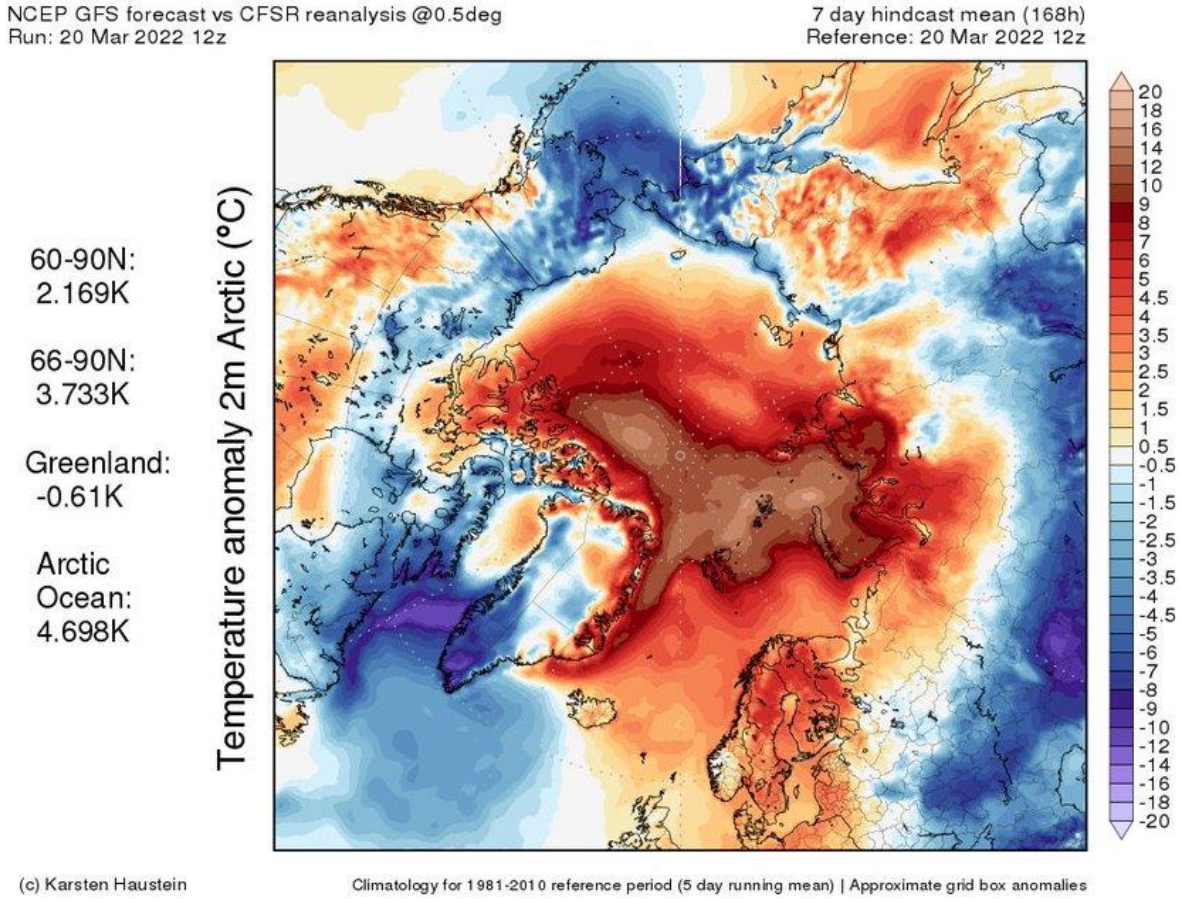

The past seven years have been the seven warmest on record.
WORLD METEOROLOGICAL ORGANIZATION

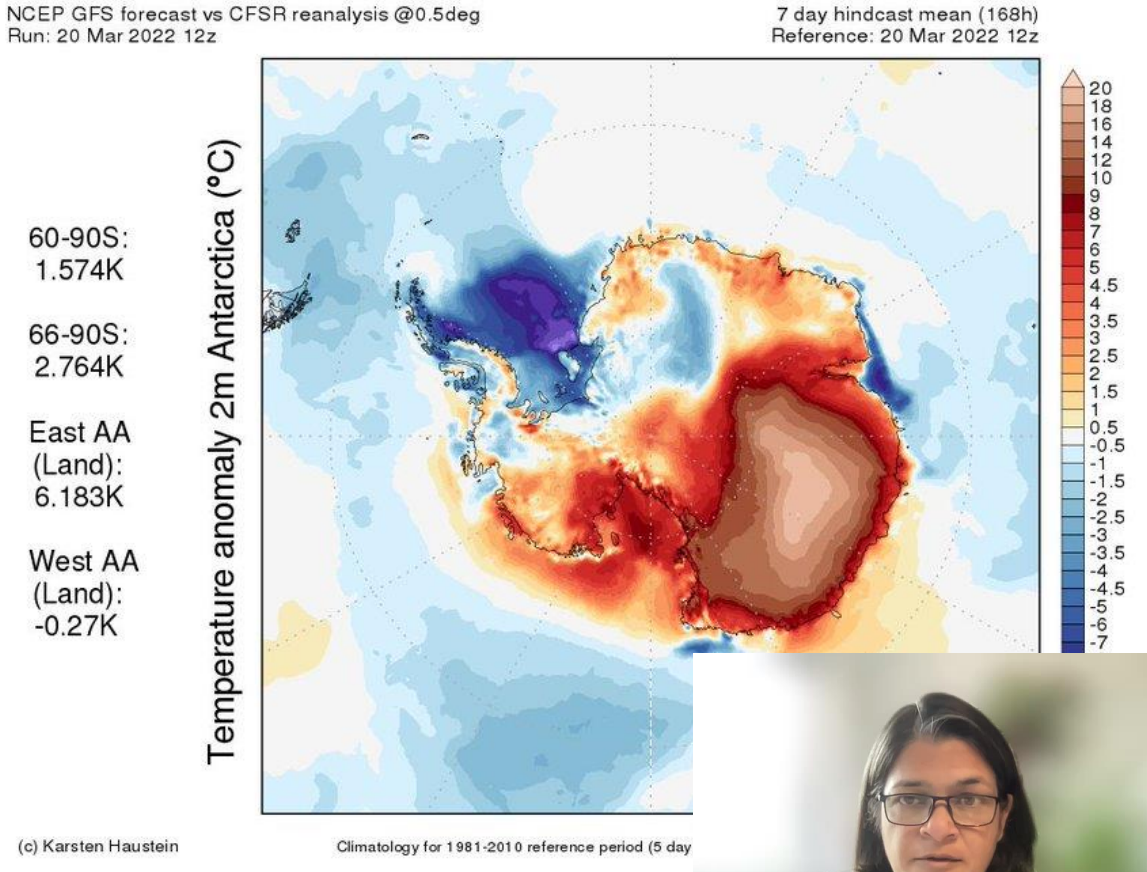
WORLD METEOROLOGICAL ORGANIZATION

WMO recognizes a new Arctic temperature record

38°C (100.4°F)
Verkhoyansk
20 June 2020

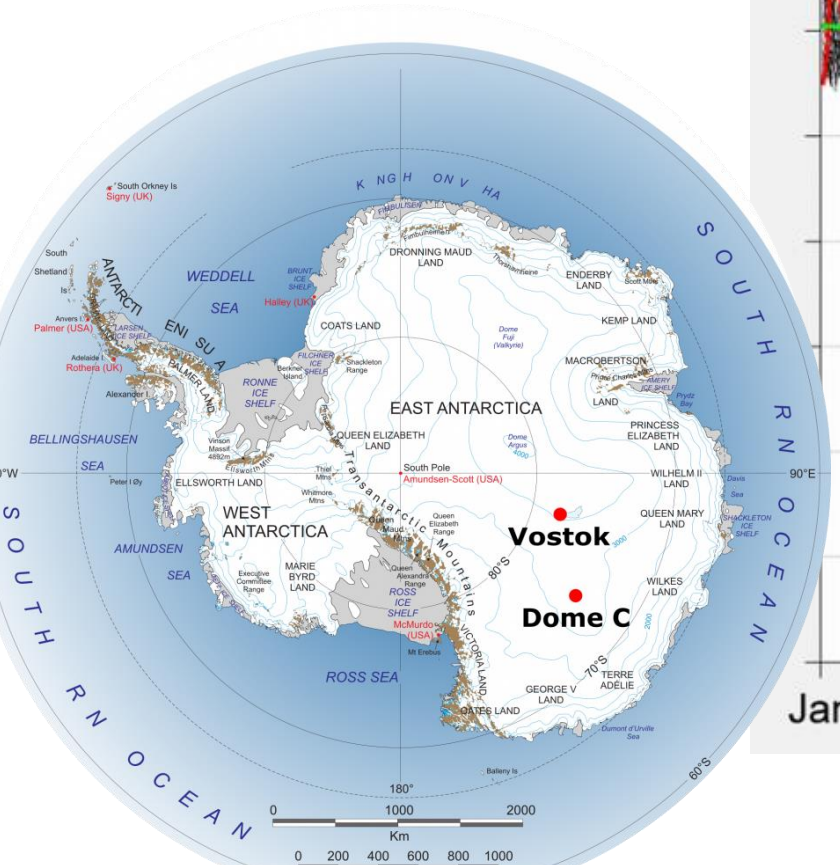
Exceedingly large temperature anomalies at both poles (March 2022)

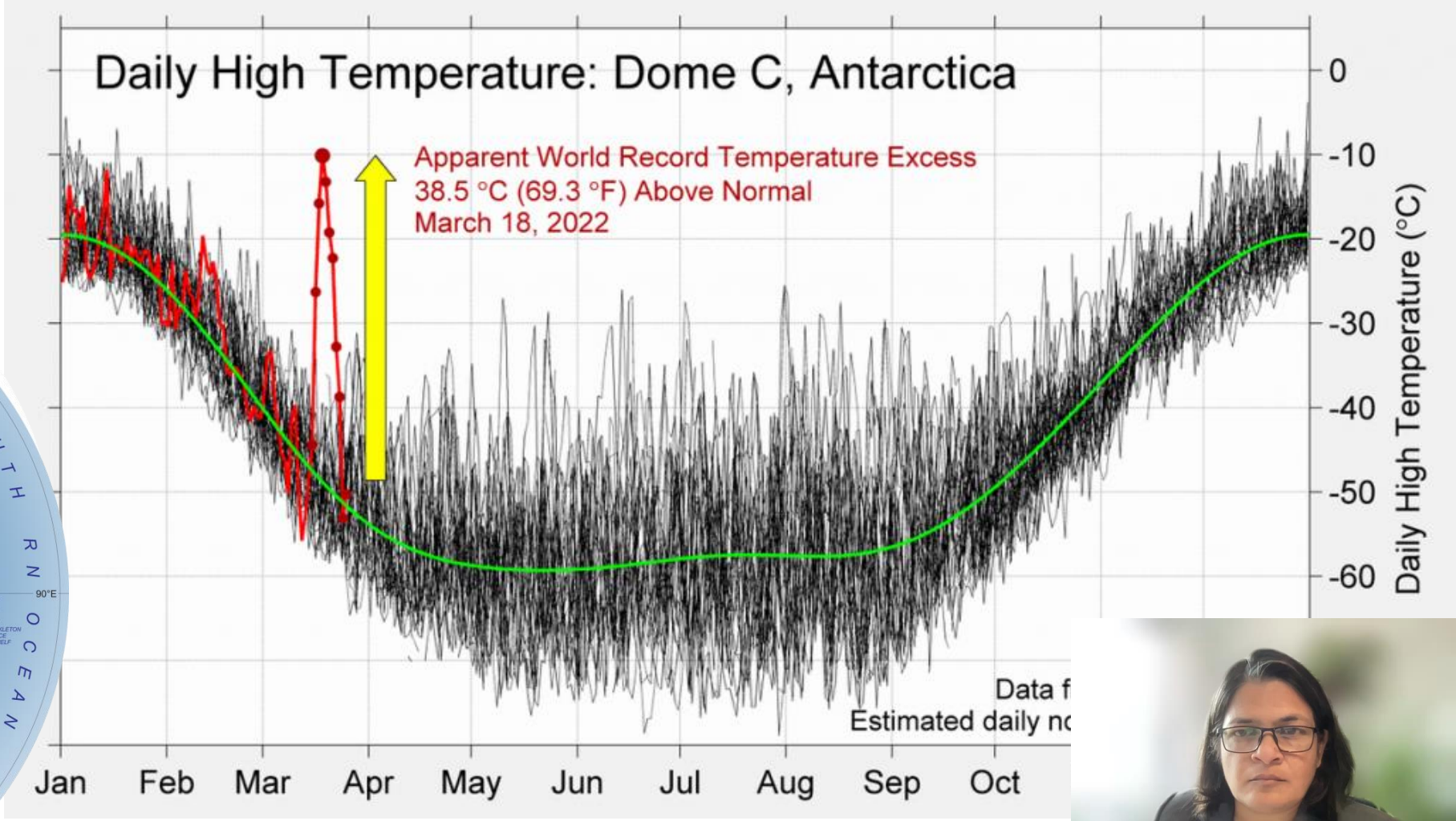




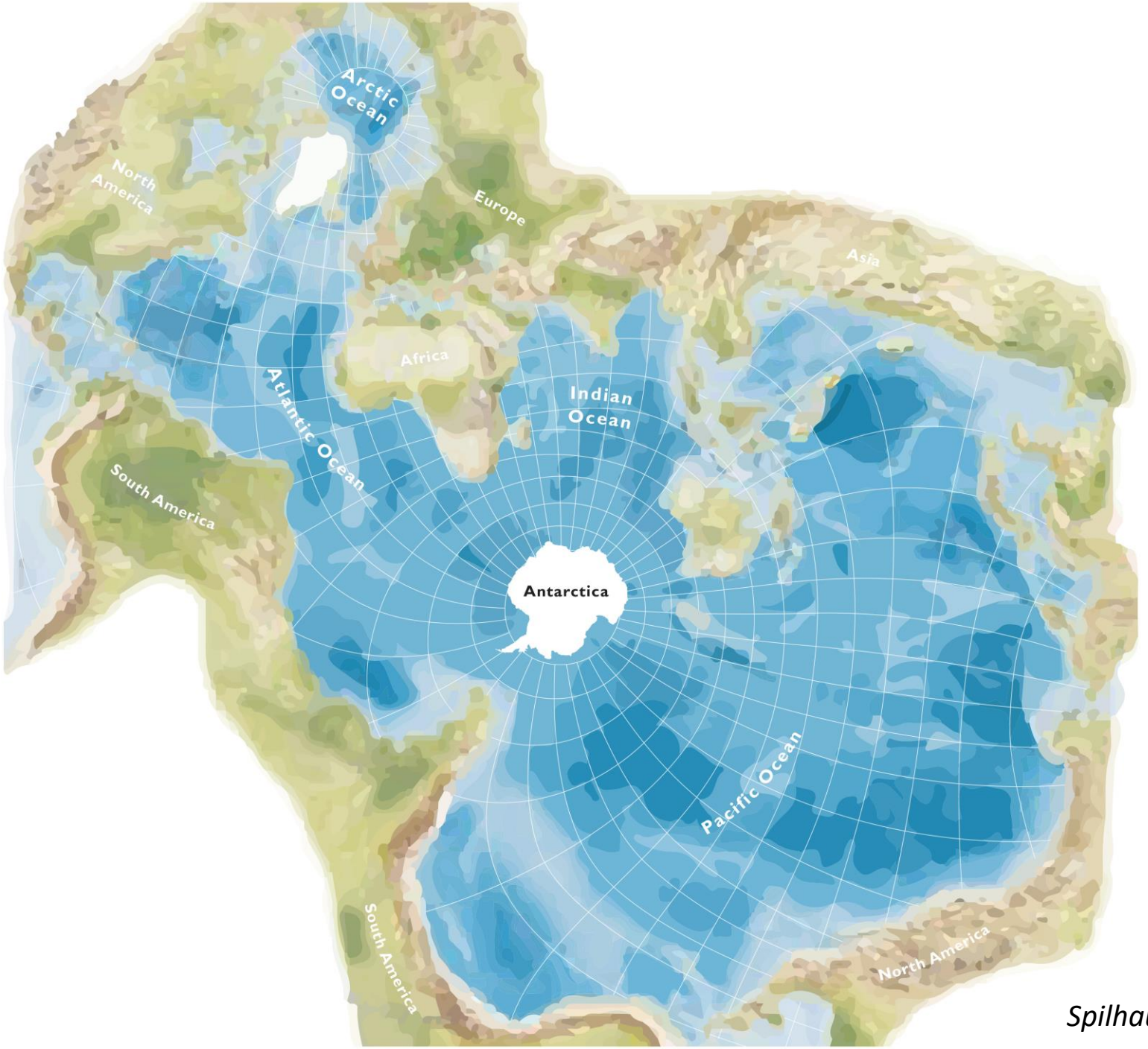
Credit: http://karstenhaustein.com/climate, Za

Exceedingly large temperature anomalies at both poles (March 2022)

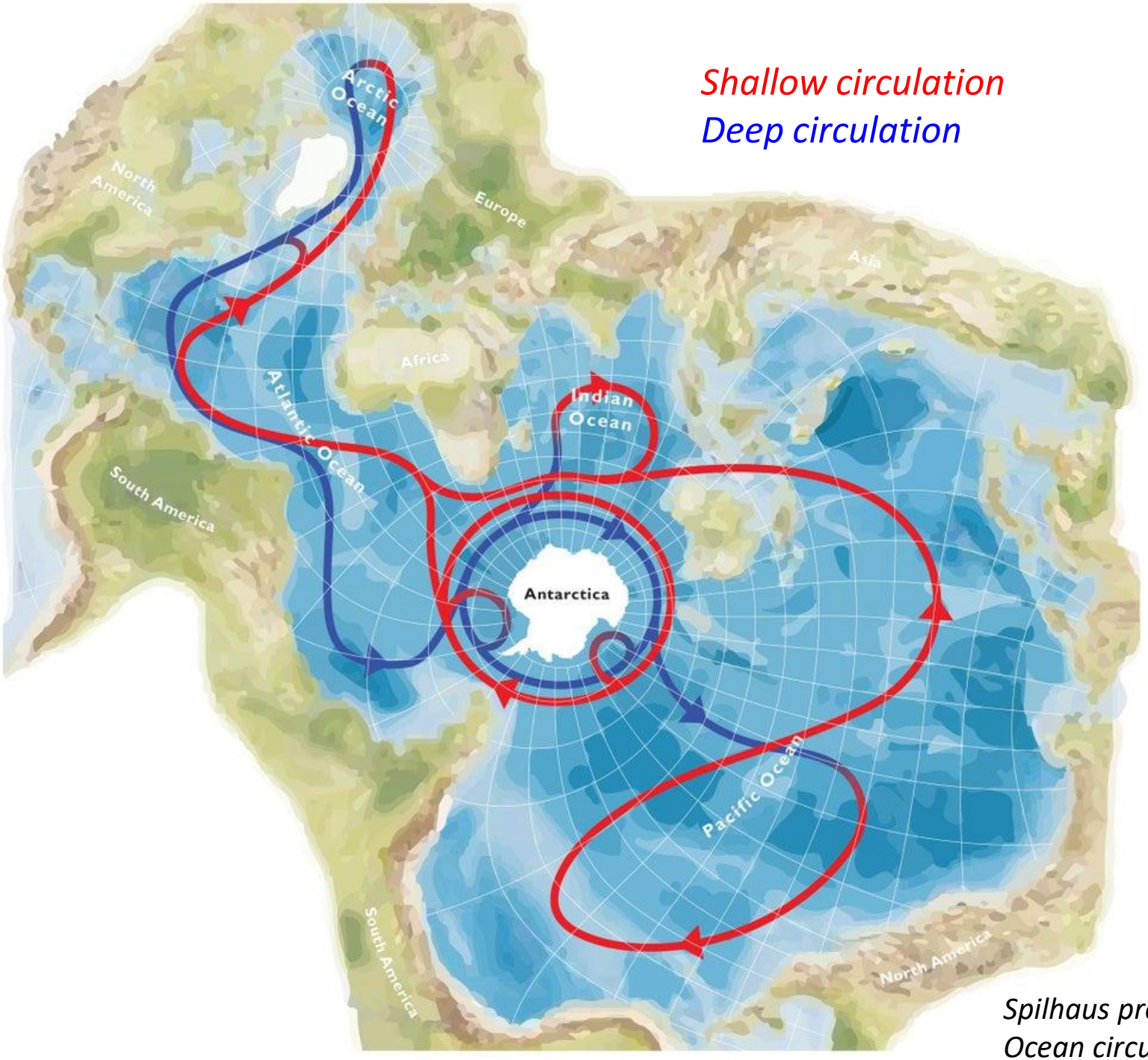




“What happens at the poles does not stay at the poles”



Spilhaus pro



Spilhaus projecti
Ocean circulatio

“What happens at the poles does not stay at the poles”

AMS American Meteorological Society | Journals

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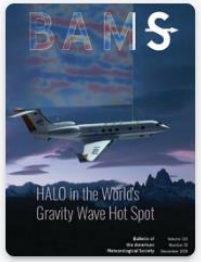

Bulletin of the American Meteorological Society

Volume 96: Issue 11

Sections

Polar Lower-Latitude Linkages and Their Role in Weather and Climate Prediction

Thomas Jung[1], Francisco Doblas-Reyes[2], Helge Goessling[3], Virginie Guemas[4], Cecilia Bitz[5], Carlo Buontempo[6], Rodrigo Caballero[7], Jakobson[8], Johann Jungclaus[9], Michael Karcher[10], Torben Koe[11], Daniela Matei[12], James Overland[13], Thomas Spengler[14], and S. Yang[15]

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Current Climate Change Reports (2018) 4:223–237
https://doi.org/10.1007/s40641-018-0106-1

ARCTIC CLIMATE CHANGE (M SERREZE, SECTION EDITOR)

Societal Impacts of a Rapidly Changing Arctic

Kathrin Stephen [1]

European Commission | CORDIS EU research results

English EN

HOME RESULTS PACKS RESEARCH*EU MAGAZINES PODCASTS & NEWS PROJECTS & RESULTS ABOUT US

News

DE EN ES FR IT PL

Melting Greenland ice sheet will lead to higher sea level rise than previously predicted

New research has shown that the Greenland ice sheet will
than scientists had thought, pushing rising sea levels from

CLIMATE CHANGE AND ENVIRONMENT

SCIENTIFIC ADVANCES

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Coastal Risk Screening Tool

An interactive map showing areas threatened by sea level rise and coastal flooding. Combining the most advanced global model of coastal elevations with the latest projections for future flood levels.

CHOOSE MAP WATCH TUTORIAL

Coastal Risk Screening Tool

CLIMATE CENTRAL

COASTAL RISK SCREENING TOOL

THREATS FROM ANTARCTIC ICE LOSS

Explore how much land different amounts of Antarctic ice loss could put below the tideline. Map reflects local effects that vary from the global average.

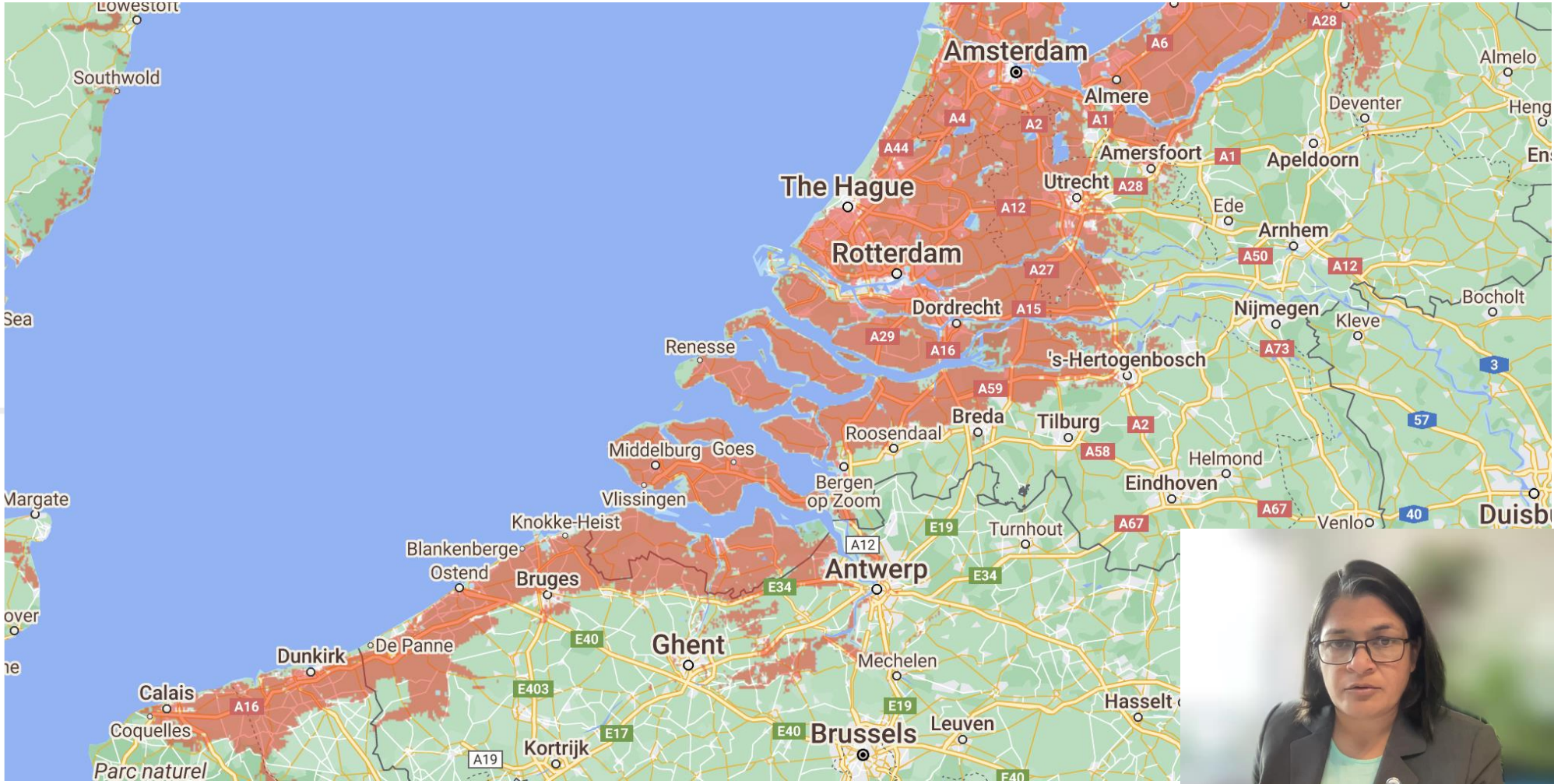
DETAILS AND LIMITATIONS

ICE SHEET

- (●) Antarctica
- ( ) Greenland

CONTRIBUTION TO AVG GLOBAL SEA LEVEL

1.0 m



WORLD METEOROLOGICAL ORGANIZATION

2021 2030 United Nations Decade of Ocean Science for Sustainable Development

GCW Global Cryosphere Watch

UN Decade of Ocean Science for Sustainable Development

ALL-ATLANTIC OCEAN RESEARCH ALLIANCE

Creating an Atlantic Ocean Community by Implementing the Galway and Belém Statements

Scientific Committee on Antarctic Research

CONFERENCE ON ANTARCTICA | CONFERENCIA DE LA ANTARTIDA

CONFERENCE DE l'ANTARCTIQUE | КОНФЕРЕНЦИЯ ПО АНТАРКТИКЕ

WASHINGTON, D.C. - OCTOBER 15, 1959

CCAMLR

Commission for the Conservation of Antarctic Marine

IASC

3rd ARCTIC SCIENCE MINISTERIAL

ARCTIC COUNCIL

IASSA
INTERNATIONAL ARCTIC SOCIAL SCIENCES ASSOCIATION

Arcti
Indigenous

European Organisations

esa

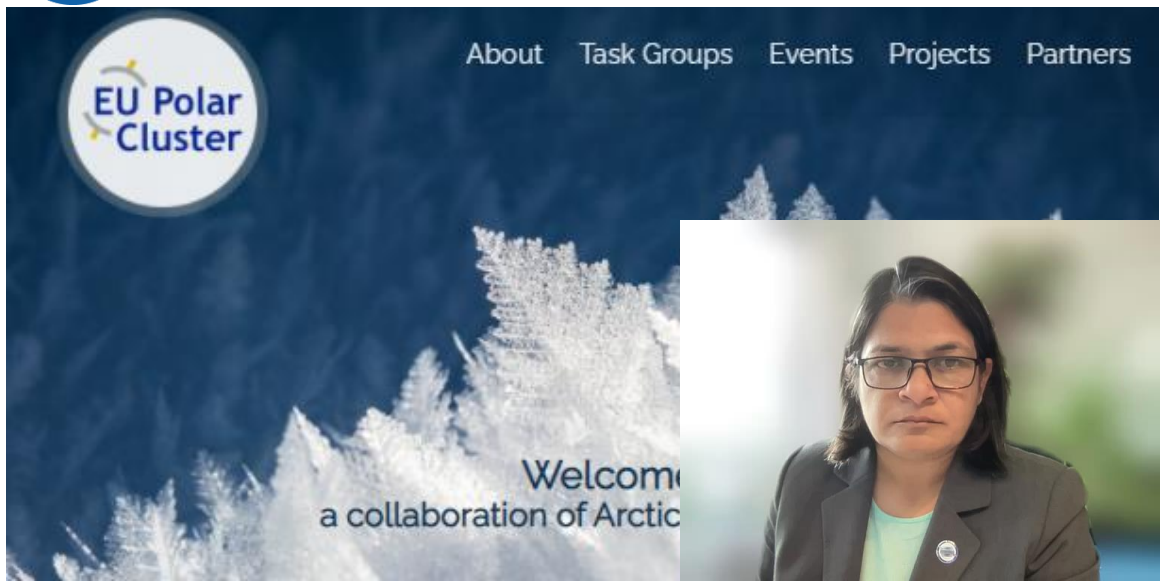
European Union

THE EU'S ARCTIC POLICY

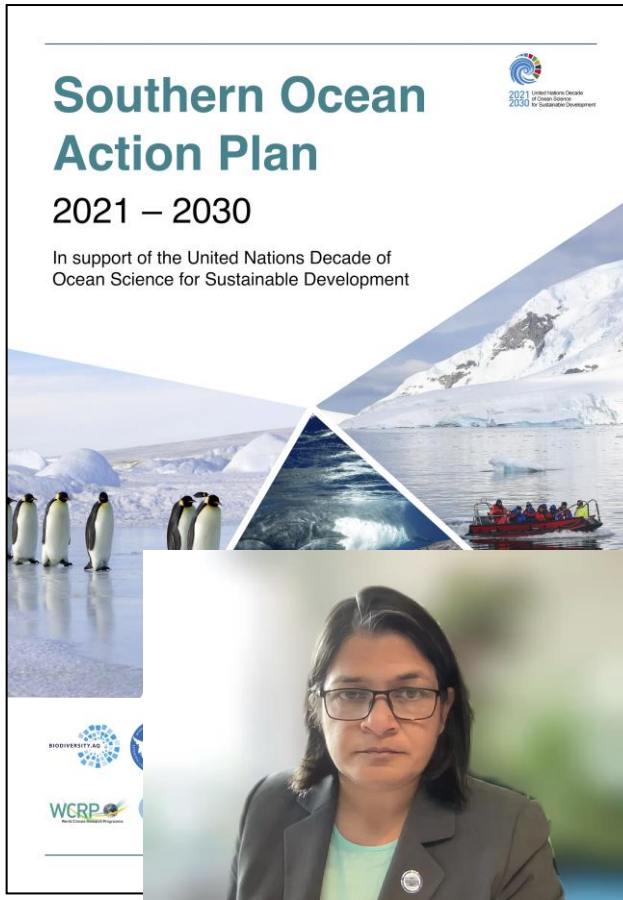
A SAFE, STABLE, SUSTAINABLE, PEACEFUL AND PROSPEROUS ARCTIC

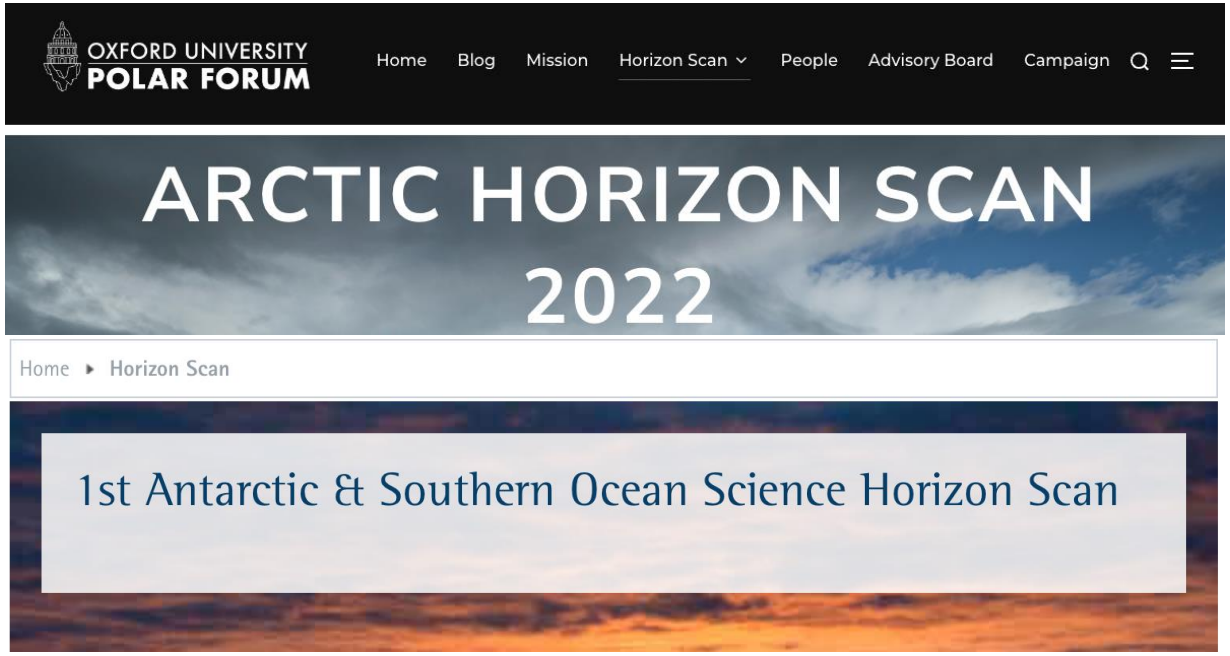
European Polar Board

EU-PolarNet

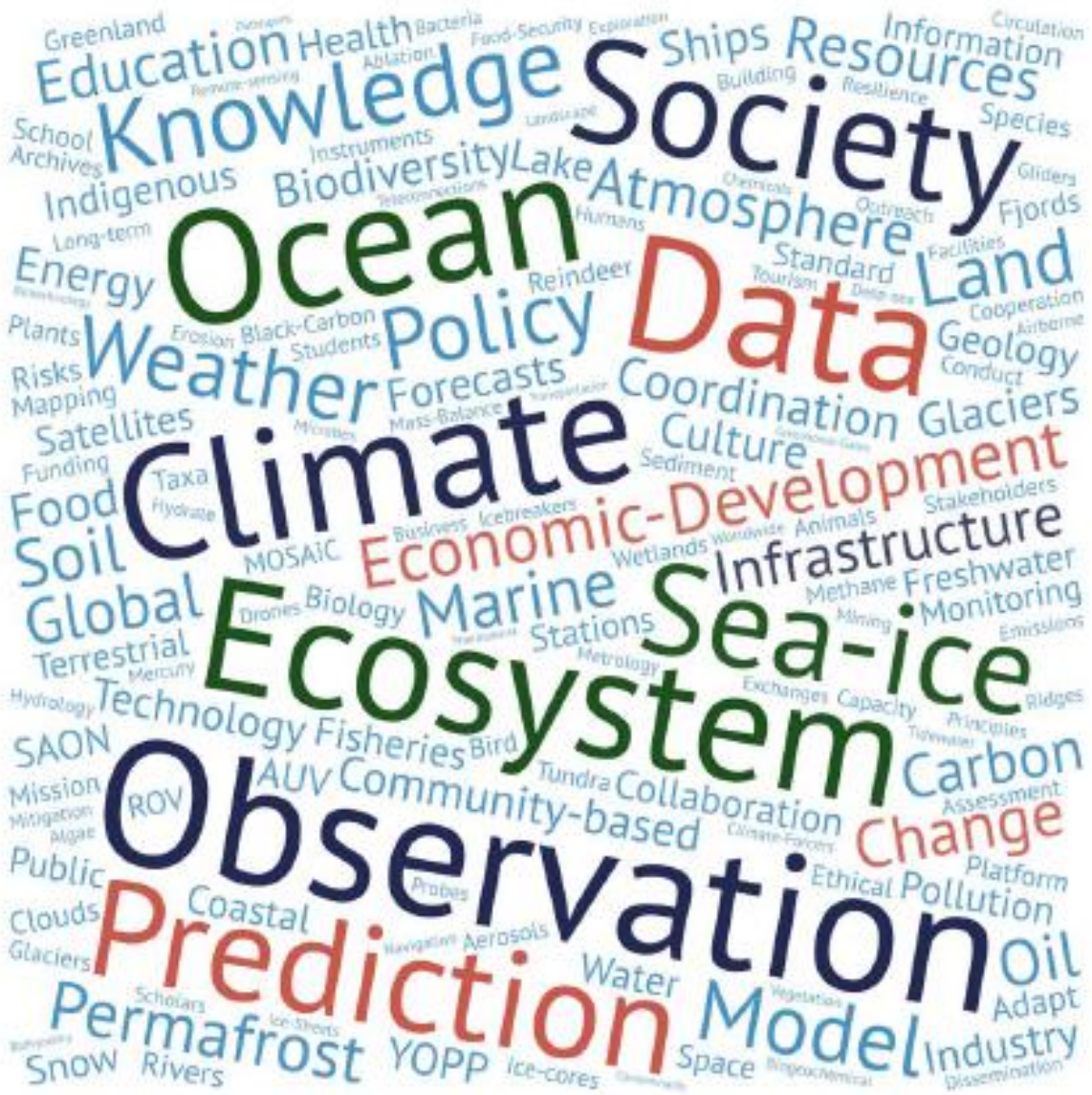


Scientific Prioritisation activities





Scientific Prioritisation activities



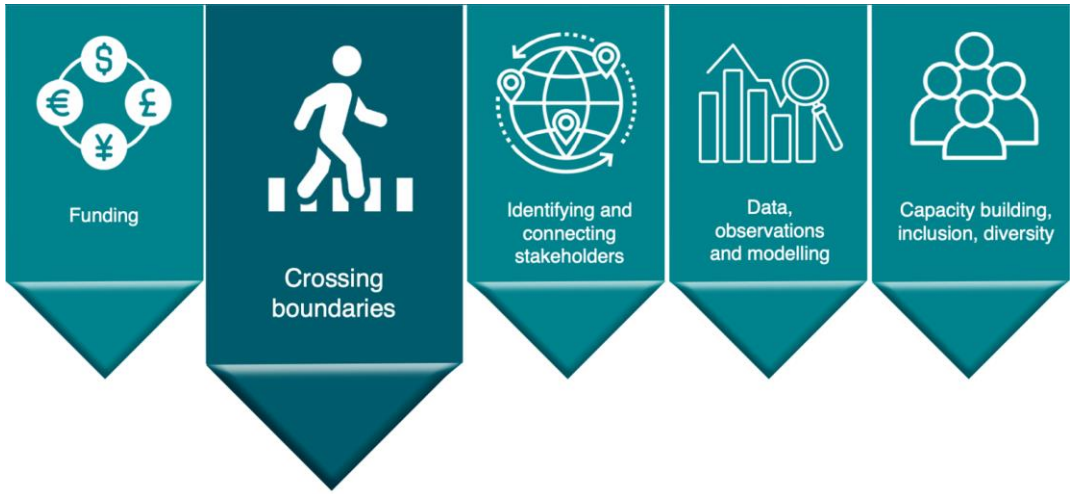
Cross cutting needs

Cross cutting needs - Funding

- Sustained & long-term investment
- Diversity of funding
- Time-scales of funding
- One-time vs Sustained
- Funding for infrastructure and logistics AND funding for science

Cross cutting needs – Crossing Boundaries

- Blurring national and regional borders
- Linking disciplines
- Co-designing global polar research priorities

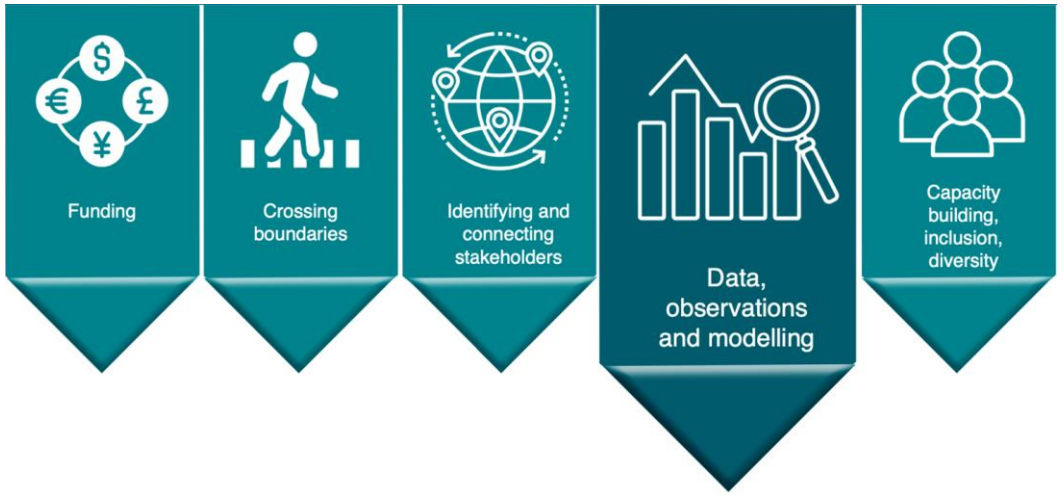


Cross cutting needs – Connecting Stakeholders

- Improving dialogue at the science-policy interface
- Ensuring societal needs are reflected and addressed through research
- Linking research, industry, infrastructure and logistics

Cross cutting needs – Data and Observations

- Improving spatial and temporal coverage
- Ensuring data and information fully utilised
- Long term sustainability of observatories and data stewardship



Cross cutting needs – Capacity Building, Inclusion and Diversity

- Ensuring diversity of voices at the table, at all stages
- Capacity building in infrastructure as well as science
- Improving technology for better access (e.g. open access)

Messages to carry with you:

- Highlight relevance & importance of the Polar regions in a global context
- Strengthen links between all stakeholders
- Tighten knowledge and data gaps
- Secure funding, short and long term
- Cross disciplinary boundaries
- Build capacity in infrastructure
- Ensure diverse voices are heard

THANK YOU