



**UNDERSTANDING THE IMPACT OF A CHANGING
ARCTIC ON NORTHERN HEMISPHERE WEATHER AND
CLIMATE**

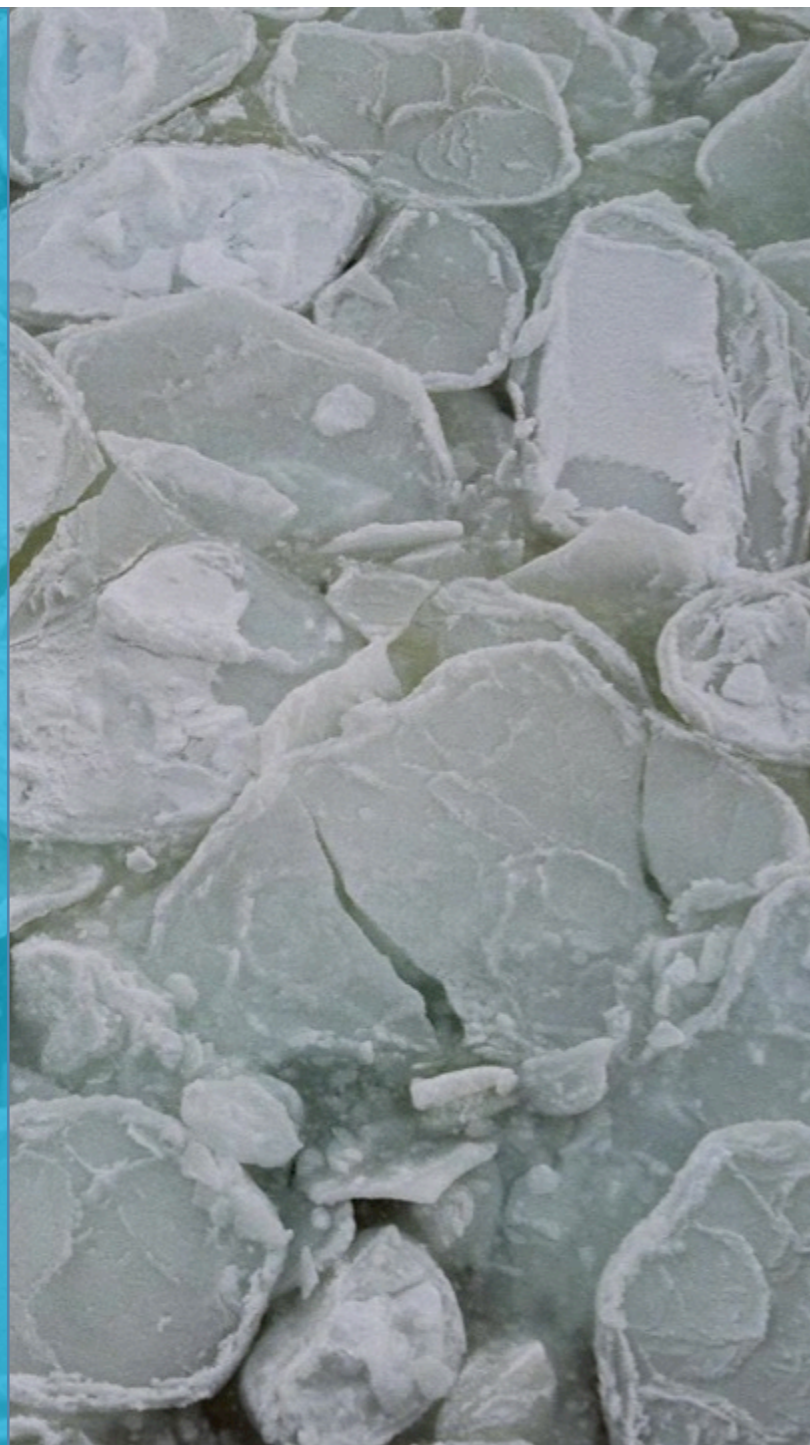
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PROJECT SUMMARY

Blue-Action aims to:

- improve our understanding of the impact of a changing Arctic on Northern Hemisphere weather and climate;
- improve the safety & wellbeing of people in the Arctic and across the Northern Hemisphere;
- reduce the risks associated with Arctic operations and resource exploitation; and,
- support evidence-based decision-making by policymakers worldwide.

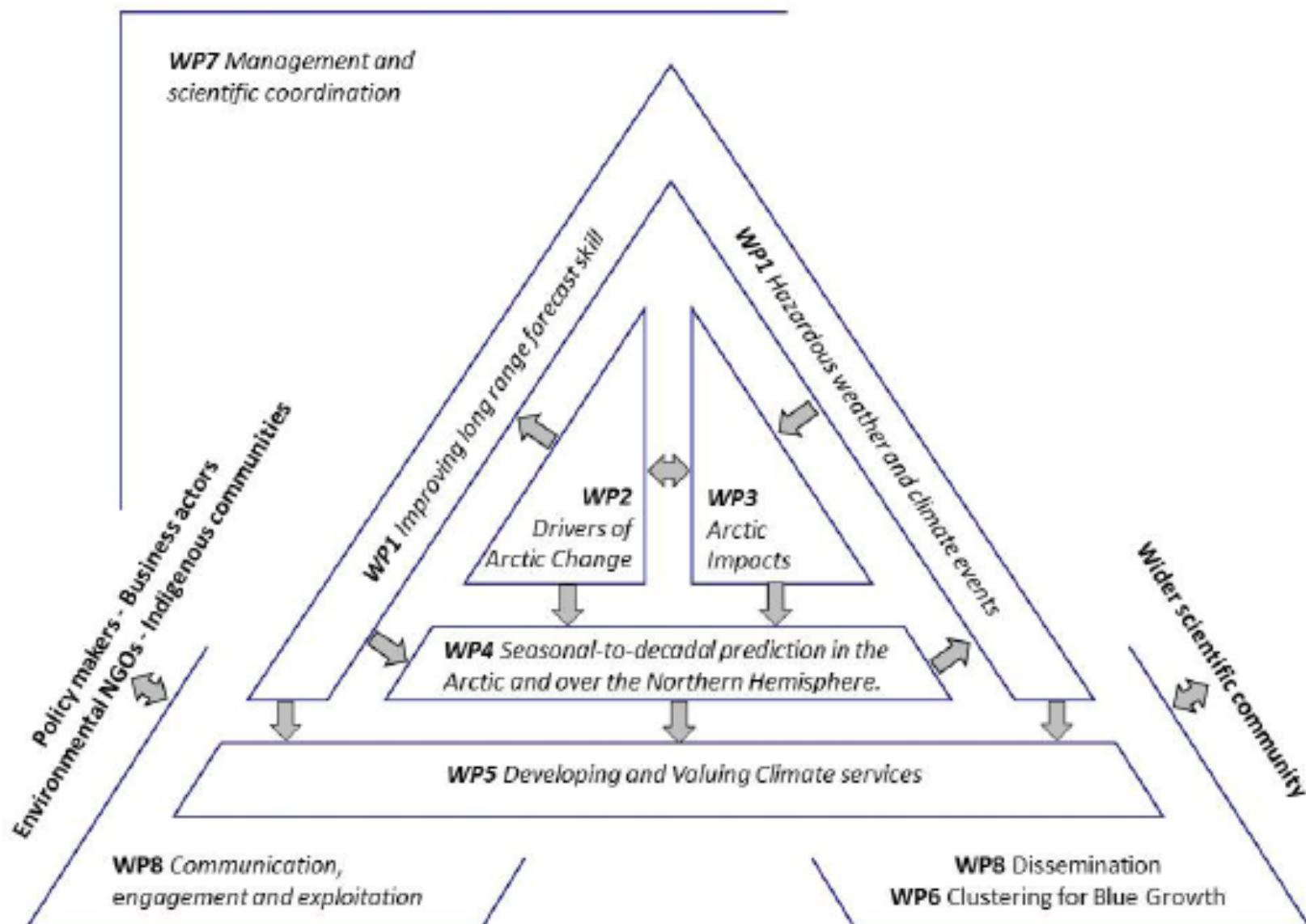


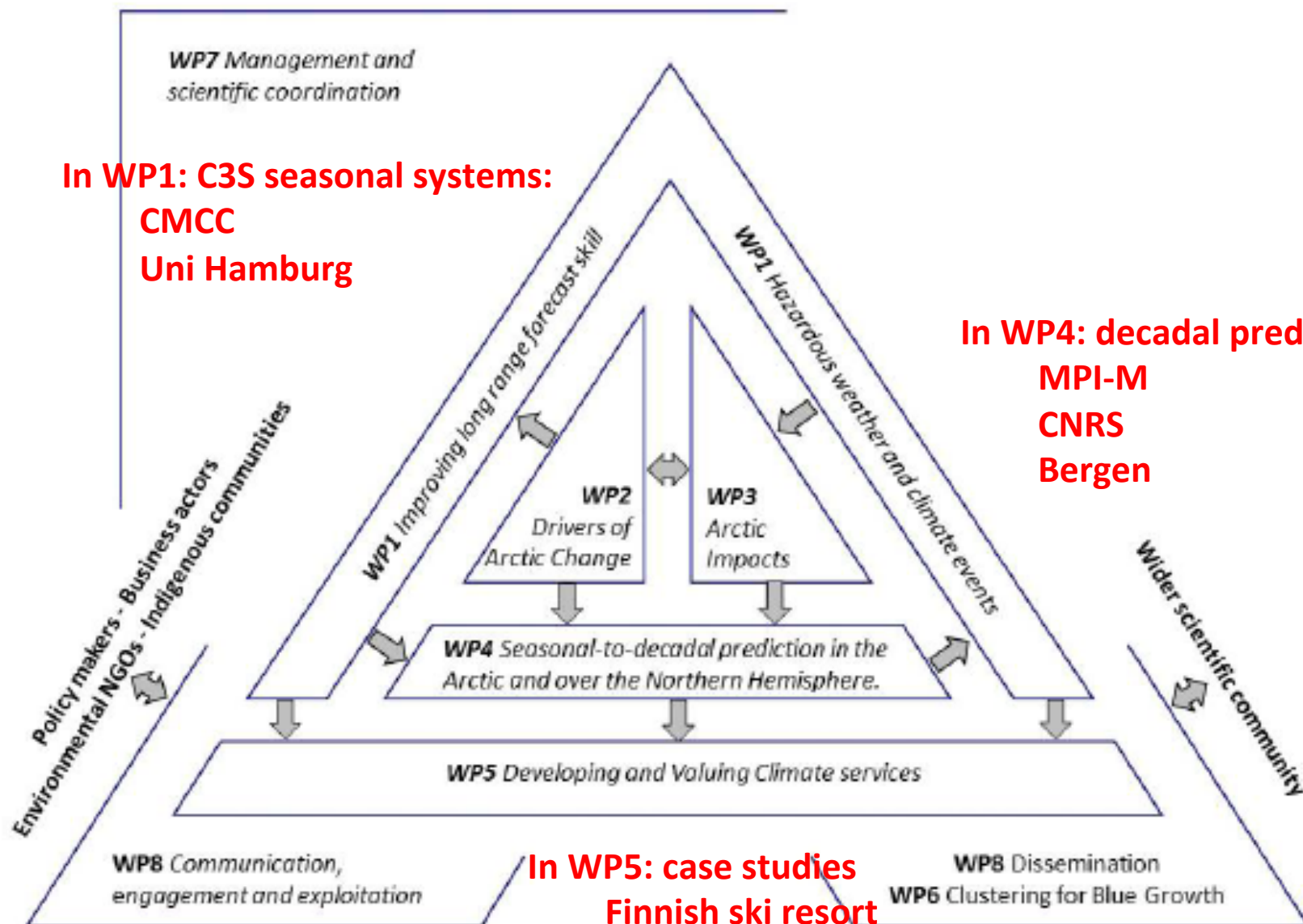


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Blue-Action brings together experts from over 40 organisations in 17 countries across 3 continents to:

- Develop new methods to characterise climate conditions where hazardous weather system forms across the Northern Hemisphere and establish their link to Arctic climate change.
- Deliver an improved representation of Arctic warming and its impact on atmosphere and ocean circulation.
- Enable robust and reliable forecasting to deliver better predictions at sub-seasonal to decadal scales.





WP1

Johanna Baehr

UHAM

Jens H. Christensen

DMI/NBI

WP2

Karin M. H. Larsen

HAV

Gerard McCarthy

NERC/NOC

WP3

Yongqi Gao

NERSC

Guillaume Gastineau

CNRS

WP4

Daniela Matei

MPI

Noel Keenlyside

UiB

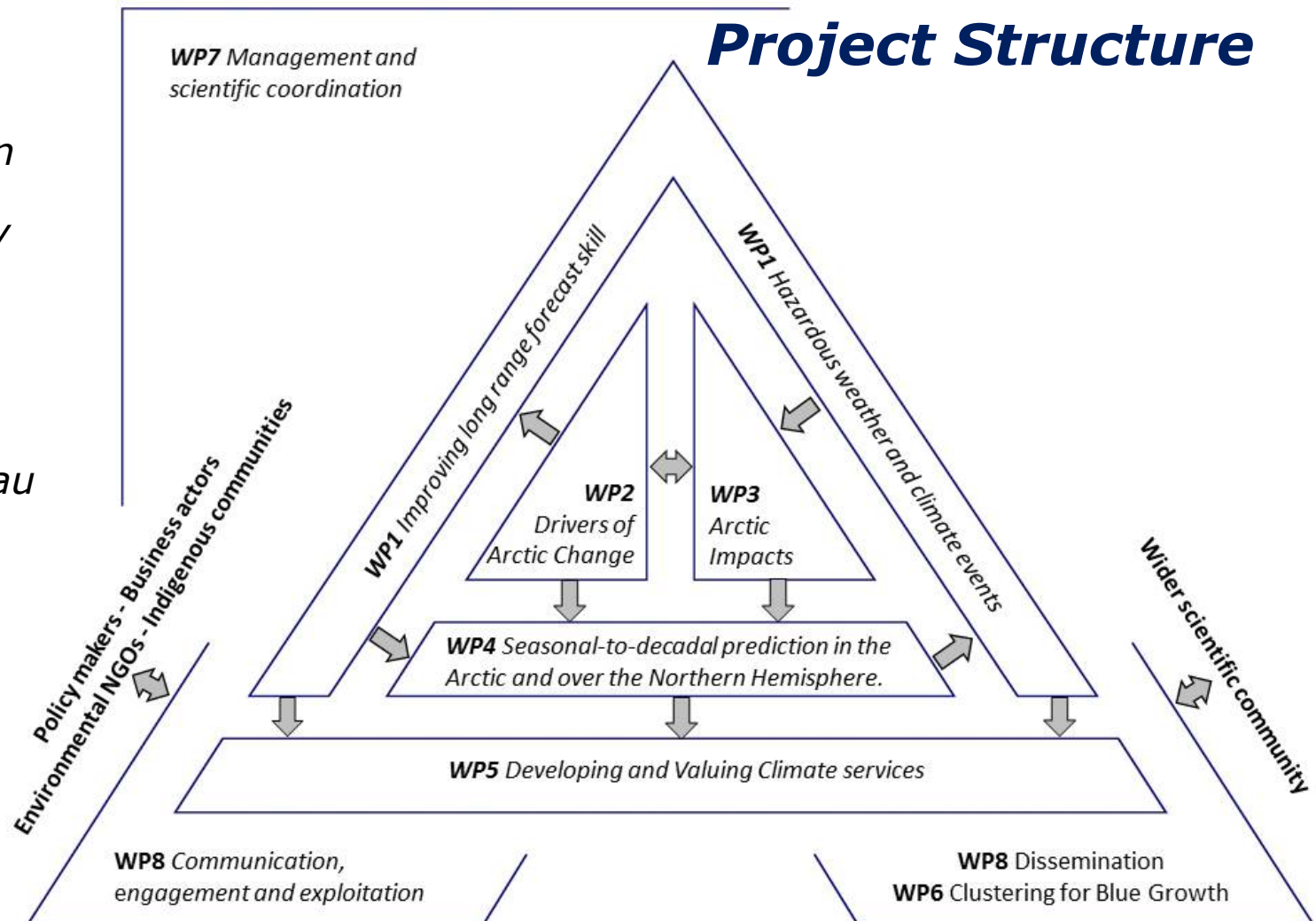
WP5

Mark Payne

DTU-Aqua

Kathrin Keil

IASS





Blue-Action aims to work with:

- **Researchers and projects** focussing on Arctic and northern hemisphere observational monitoring, climate modelling, forecasting, and climate services.
- **Governments and policymakers** in need of weather and climate information for evidence-based decision-making.
- **NGOs, public sector bodies, and community organisations** interested in extreme weather events, climate services, forecasting, and climate change.
- **Businesses or industries** who rely on seasonal to decadal climate predictions, risk estimates of extreme weather and climate events, or who would like to work with Blue-Action to co-develop climate services and tools.



- Project coordinators:

- **Steffen Olsen**, Danish Meteorological Institute, smo@dmu.dk
- **Daniela Matei**, Max Plank Institute for Meteorology, daniela.matei@mpimet.mpg.de

- Project office:

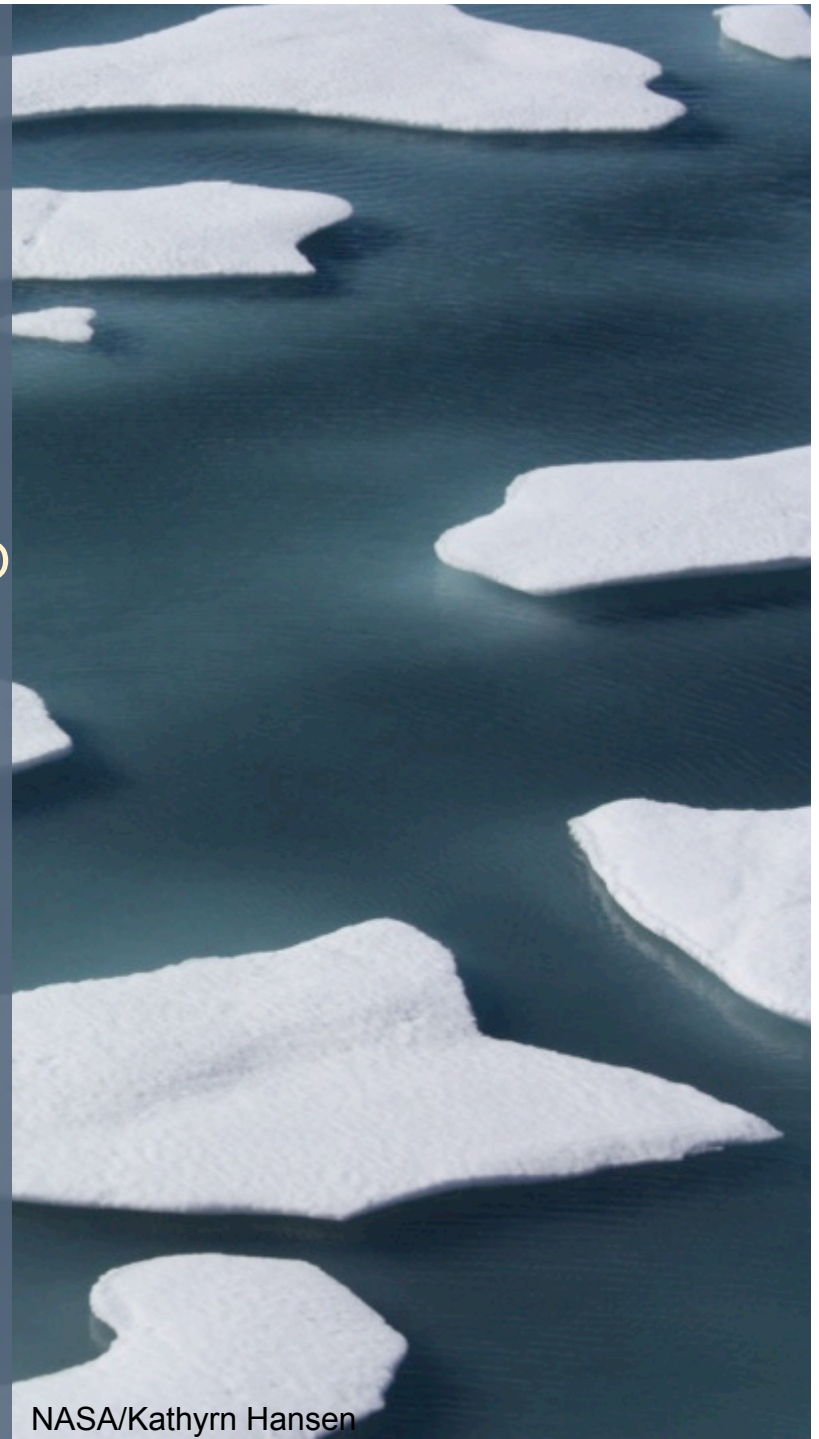
- **Chiara Bearzotti**, Danish Meteorological Institute, chb@dmu.dk

- Communication, Dissemination, Engagement, and Exploitation Officer:

- **Raeanne Miller**, SRSL, Raeanne.Miller@sams.ac.uk

Blue-Action will also:

- Embed scientific developments and improved model capability within international programmes through organisations including Copernicus C3S, WCRP, IPCC (AR6), JPI Climate and WMO (YOPP & PPP).
- Co-design a series of case studies with organisations and industries that rely on accurate weather and climate forecasting, to apply new modelling techniques to cutting-edge climate services.
- Communicate new insights, results, and messages – as well as data, model improvements and storylines – to a community of stakeholders for whom understanding climate change and associated environmental trends and risks is imperative.



NASA/Kathryn Hansen

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WHY BLUE-ACTION?

Faced with a changing climate, businesses, policymakers, and local communities need to access reliable weather and climate information to safeguard human health, wellbeing, economic growth, and environmental sustainability.

