

BLUE ACTION

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



WHY BLUE-ACTION?

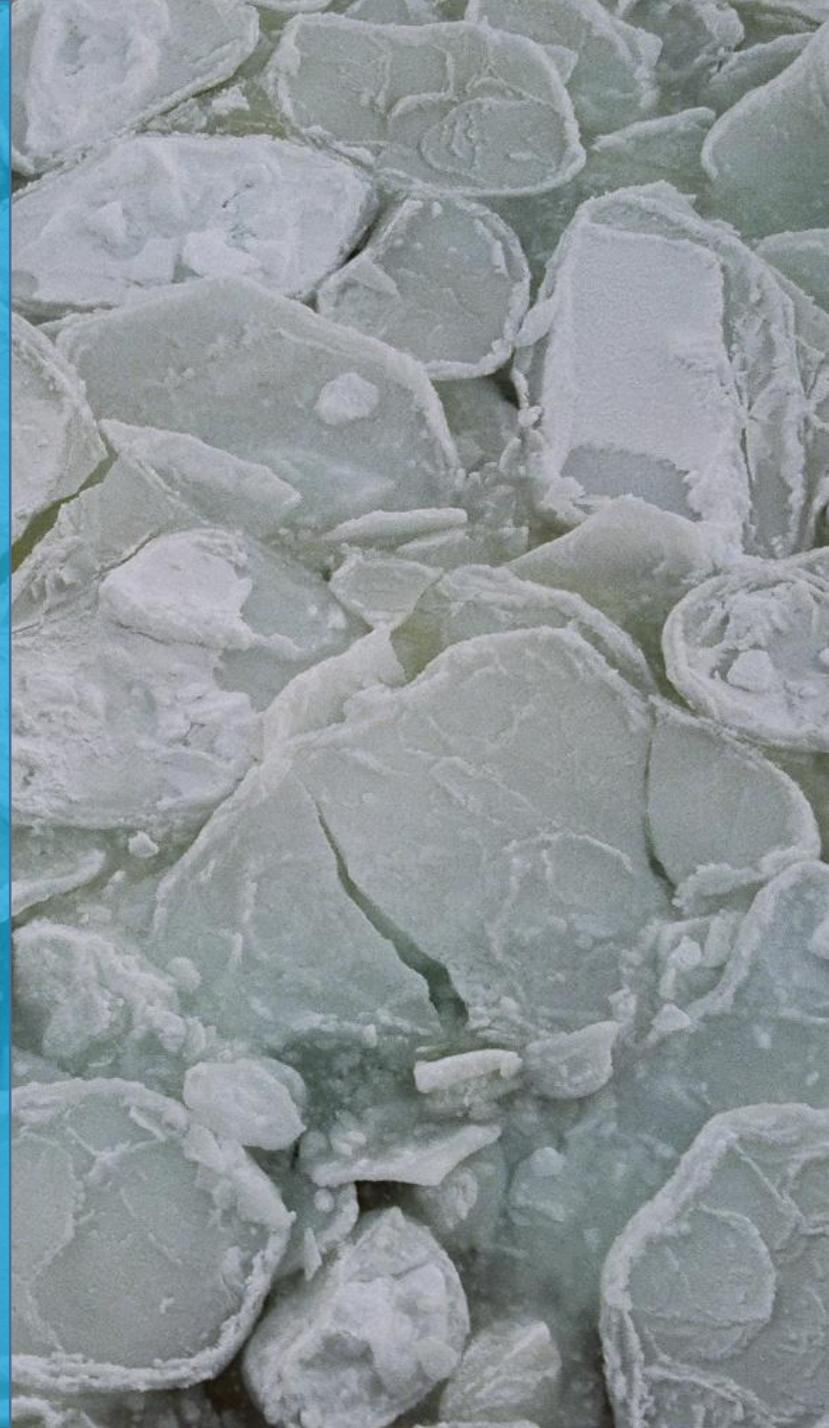
Faced with a changing climate, businesses, policymakers, and local communities need to access reliable weather and climate information to safeguard human health, wellbeing, economic growth, and environmental sustainability.



PROJECT SUMMARY

In response, 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.





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.

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.



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.

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- A sunset over a mountain range with a blue-tinted foreground. The sky is a gradient of orange and yellow, transitioning to a deep blue at the top. The mountains are silhouetted against the bright sky. The foreground is a dark blue, possibly representing water or a low-lying landscape.
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