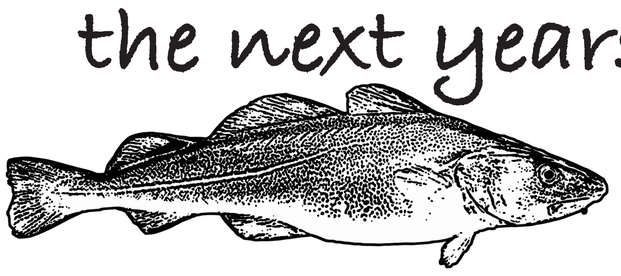
Kunnskapsdepartementet | The Research Council of Norway

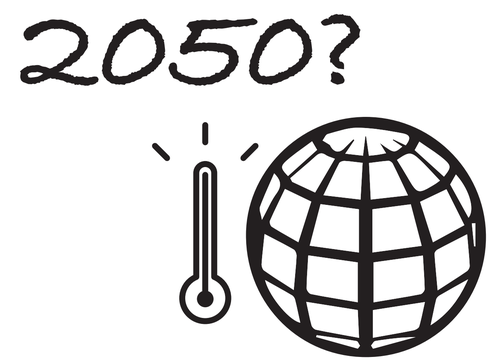
# the Nansen LEGACY

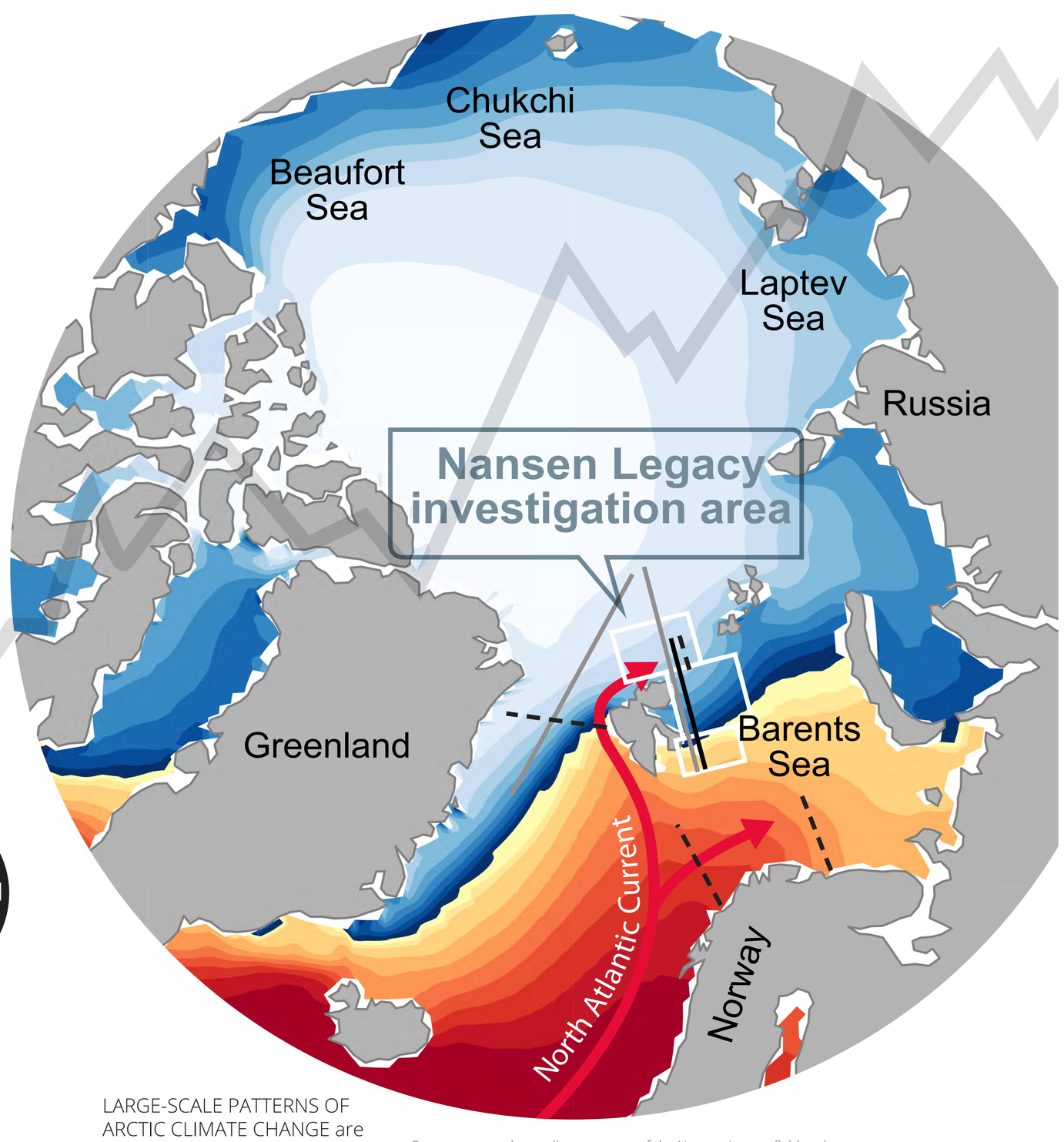
# A joint Norwegian Arctic research project

Providing holistic, cross-disciplinary scientific knowledge on the climate and ecosystem of the Northern Barents Sea, addressing the past, present and future.


The NANSEN LEGACY investigates the climate induced ecosystem changes, and exploits prognostic mechanisms governing the weather, climate and ecosystem of the northern Barents Sea on scales from days to decades.




*Focus areas and sampling transects of the Nansen Legacy fieldwork.*

*Transects run across gradients in the physical, chemical and biological environment, and across the main ocean currents connecting the Barents Sea with the Nordic Seas and the Arctic Ocean.*

*Black solid lines: transects sampled annually and in every season; grey lines: extended transect into the Arctic Ocean with exit through the Fram Strait; black boxes: focus areas for process studies; dashed lines: existing transects covered annually by Norwegian monitoring programs; black crosses: Nansen Legacy moorings.*

*Illustration: M. Årthun, University of Bergen*

“The Nansen Legacy is an Earth system science project, where basic research responds to strategic white papers, and is rooted in stake-holder’s needs”

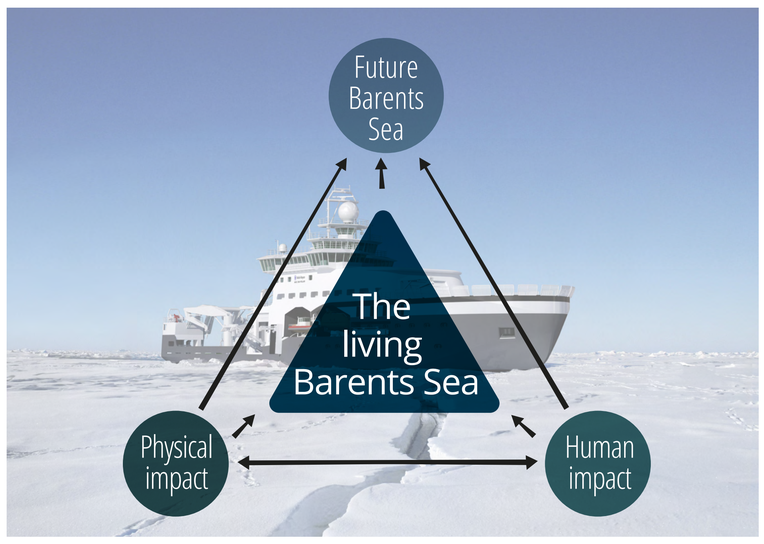
*Prof. Marit Reigstad (PI)*

LARGE-SCALE PATTERNS OF ARCTIC CLIMATE CHANGE are prominent in the northern Barents Sea, where warm Atlantic water meets the Arctic sea ice.

The Nansen Legacy provides region-specific knowledge for the urgently needed understanding of Pan-Arctic functions and connections.

The NANSEN LEGACY (2018 – 2023) CONSTITUTES the Norwegian Arctic marine research platform that unites national competence across 10 institutes and 200 scientists, providing a collaborative partner internationally.

The NANSEN LEGACY TEAM is interdisciplinary including physical, chemical, and biological oceanographers, as well as marine technologists and geologists. Data are collected with help of the new Norwegian research icebreaker RV Kronprins Haakon during >300 days at sea, covering all seasons.




*The four research foci of the Nansen Legacy. Physical and human impacts on the living Barents Sea will determine the state of the future Barents Sea.*
*(Illustration: Tor Eldevik, Rudi Caeyers)*

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