



Nansen Environmental and Remote Sensing Center

In Science since 1986

About Us

The Nansen Center is based in Bergen, Norway and is an **independent non-profit research foundation** conducting basic and applied environmental and climate research.

- We focus our research on the **high latitudes and the Arctic**.
- We are **funded** by research councils, space agencies, national and international governmental agencies and industry.
- We are an **internationally diverse** foundation, with 70 employees coming from 25 countries.
- We **cooperate globally** in a number of international research projects.
- We also **co-founded five international Nansen Centers**: in Russia, India, Bangladesh, South Africa, and China.

Contact information:

The Nansen Center
Thormøhlens Gate 47
5006 Bergen, Norway

☎ +47 55 20 58 00
✉ admin@nersc.no
🌐 nersc.no

Find all our publications at nersc.no/publications





Our Research

The priorities are to **advance the understanding and predictive skill of the Earth System**, notably regarding the dominating processes and interactions, the leading dynamics, and the major variability.

In particular, NERSC focuses on **interdisciplinary ocean, sea ice and atmospheric sciences** in the high latitudes and the Arctic Ocean, at regional to climate scales.

This is conducted through **integrated analyses, use of remote sensing, in-situ based observations in synergy with numerical models and data assimilation.**

Our Main Research Areas

- Climate Processes, Variability and Change
- Ocean Modelling, Data Assimilation and Forecasting
- Arctic and Marine Remote Sensing Studies
- Socio-economic Impact of Global Change



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Selection of major ongoing projects and collaborations we are involved in

Copernicus, 2015 – 2021



Purpose: The Arctic Monitoring Forecast Centre in the Copernicus Marine Environment Monitoring Service (CMEMS) is delivering up-to-date forecasts and reanalyses for the Arctic Ocean, including sea ice and biogeochemical variables.

INTAROS, 2016 – 2021



Purpose: To develop an efficient integrated Arctic Observation System by extending, improving and unifying existing and evolving systems in different regions of the Arctic.

Blue-Action, 2016 – 2021



Purpose: The NERSC-led project work investigates the potential effects of changes in the ocean and atmosphere from Arctic warming, on lower latitudes, through state-of-the-art ocean, atmosphere or coupled models.

CAATEX, 2018 – 2022



Purpose: The primary objective in CAATEX is to use acoustic thermometry to estimate the heat content of the Arctic Ocean to benchmark how warm the Arctic Ocean is and to improve our understanding of uncertainties in ocean heat content estimates from climate models.

The Nansen Legacy, 2018 – 2023



Purpose: The Nansen Legacy is a joint effort by Arctic scientists from across Norway to provide integrated scientific knowledge on the rapidly changing marine climate and ecosystem in the northern Barents Sea and adjacent Arctic Basin.

ARKTALAS, 2019 – 2021



Purpose: The Arktalas project aims to advance the insight and quantitative understanding of interactive processes between sea ice, ocean and the atmosphere, and their mutual feedback in the high latitude seas and Arctic Ocean.