



## Hello 2026!

As another year drew to a close, the Arctic Data Center team is taking a moment to reflect on the progress, successes, and collaborations that shaped our work over the past 12 months.

We're so thankful for our researchers and community who share a passion for openly accessible, reproducible Arctic science and look forward to continuing our work in the new year!

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[New Blog Post](#)

### Arctic Data Center Yearly Wrapup

In this annual recap, we highlight key metrics from our growing community, share how we've adapted to evolving community needs, and showcase updates to our website and cyberinfrastructure.

[Read Yearly Wrapup](#)



The National Science Foundation Office of Polar Programs (NSF OPP) mandates that metadata, full datasets, and derived data products be made available in a long-term and publicly accessible archive.

To meet these requirements, the Arctic Data Center was established with NSF funding, serving as the archive specifically for the Arctic Sciences Sector (AGC) data and metadata. **NSF Dear Colleague Letter E22100** outlines specific requirements from the Office of Polar Programs.

[Who Must Submit](#) [Organizing Your Data](#) [What is a Data Package](#) [File Guidelines](#)  
[Tabular & Spatial Data](#) [Software](#) [Large Data Packages](#) [The Submission Process](#)  
[Identification Guidelines](#) [Licensing and Data Distribution](#) [Publication](#) [Submission Tools](#)

**Who Must Submit?**  
The principal investigator from any NSF OPP funded project is required to submit and publish all relevant metadata and data onto a publicly accessible archive.

Data from ARC-supported scientific research should be deposited in long-term and publicly available archives appropriate for the specific type of data collected by default, the NSF-supported Arctic Data Center (arcticdata.ucar.edu) is recommended. Arctic Data Center, a service of the National Oceanic and Atmospheric Administration, is a member of the National Data Program for the Sciences, which is a part of the National Science Foundation.

## Updated Resource

### Data Submission Guidelines

Interested in learning more about the Arctic Data Center data submission process? Check out our [updated guidelines](#) here!

[Explore More Here](#)

# Partner News & Opportunities

Welcome to the Atlas of Community-Based Monitoring in a Changing Arctic. Arctic communities are actively involved with observing social and environmental change; this atlas was designed to showcase the many community-based monitoring (CBM) and Indigenous Knowledge (IK) initiatives across the circumpolar region.

[Join the atlas now!](#)

ELOKA (Exchange for Local Observations and Knowledge of the Arctic) is pleased to announce that the Atlas of Community-Based Monitoring and Indigenous Knowledge in a Changing Arctic has been updated with 100 new entries, and a refreshed interface! They collaborated with ICC Canada (Inuit Circumpolar Council) on this update and are thrilled to showcase even more community-based monitoring projects across the Arctic. The purpose of the CBM Atlas is to highlight the scope and diversity of these projects, support collaboration among projects, and raise visibility for funders and researchers. Take a look and explore the atlas!

[Explore Atlas Here](#)



## New Paper Releases

### [Development of a moored radium in situ sampler to measure annual time series](#)

This study introduces an autonomous sampler that produced the first year-round time series of radium isotopes in the Arctic Ocean, revealing strong seasonal inputs of shelf- and river-derived materials that are missed by summer-only surveys. The data from this study are archived at the Arctic Data Center at <https://doi.org/10.18739/A28C9...>.

[Read Article](#)

### [Greenland supraglacial catchment consolidation by streams breaching drainage divides](#)

This study shows that supraglacial drainage basins on the Greenland Ice Sheet change dramatically from year to year, as snow-filled relic channels reroute meltwater, consolidate catchments, and switch moulin on and off. The processed data from the roving GNSS survey are archived via the Arctic Data Center at <https://doi.org/10.18739/A2DR2...>.

[Read Article](#)

### [River ice controls permafrost bank erosion across an Arctic delta](#)

This study uses a numerical model and field observations from Alaska's Canning River delta to show that river ice strongly controls permafrost bank erosion, with ice-rich banks eroding up to several meters per year and ice-free models underestimating erosion. The pebble count data from this study are archived at the Arctic Data Center at <https://doi.org/10.18739/A2H41...>

[Read Article](#)

## **Modeling of Internal Tides in the Kara Gates Strait, Arctic Ocean: Characteristics and Energetics**

This study uses a high-resolution model to show that internal tides and lee waves in the Kara Gates Strait strongly influence tidal mixing and heat transport between the Barents and Kara Seas, with a newly identified major energy source along the slope of Vaygach Island. Tidal gauge observations are available from the Arctic Data Center at <https://arcticdata.io/catalog/...>

[Read Article](#)

## **Effective Elastic Parameters for In Situ, Drifting Sea Ice Under Natural Forcing Conditions at Kilometer Scales**

This study combines in-ice stress measurements and radar-derived strain observations to estimate the effective elastic properties of kilometer-scale, naturally forced sea ice in the Beaufort Sea, providing rare in situ constraints on sea ice deformation under real conditions. Sea ice mass balance (SIMB) buoy data used in atmospheric correction of GPRI interferograms is available from the Arctic Data Center

at <https://arcticdata.io/catalog/view/doi:10.18739/A2B27PS9J>

[Read Article](#)

## **The Influence of Wave Events on Open Water Suspended Sediment Fluxes on the Alaskan Beaufort Sea Shelf: A Numerical Modeling Study**

This modeling study shows that waves strongly enhance sediment resuspension and drive net westward suspended sediment transport on the inner Beaufort Sea shelf during the open-water season. In situ CTD data are available on the Arctic Data Center at <https://arcticdata.io/catalog/view/doi:10.18739/A2TB0XX48>.

[Read Article](#)

# Other Opportunities

## PhD Opportunities

- 2 year postdoc at University of Liverpool—remote sensing of icebergs  
(<https://tinyurl.com/2jjcmea9>)
- AWI, Bremerhaven, Germany—Insights into Arctic Ocean Stratigraphy and Paleoceanography from Cosmogenic and Radiogenic Nuclides  
([https://jobs.awi.de/Vacancies/...](https://jobs.awi.de/Vacancies/))
- Delft University of Technology (The Netherlands)—ocean circulation and climate models  
(<https://careers.tudelft.nl/job...>)

## Postdoc Opportunities

- 2 year postdoc at University of Liverpool—remote sensing of icebergs  
(<https://tinyurl.com/2jjcmea9>)

## Conferences and Workshops

- Juneau Icefield Science & Logistics Collaboration Workshop, March 16-20, 2026  
([https://climatechange.umaine.edu...](https://climatechange.umaine.edu/))
- Global Glacier Modeling Workshop at the University Centre Obergurgl (Austria), August 24-28, 2026. (<https://oggm.org/2025/12/08/10...>)
- 29th Alpine Glaciological Meeting in Milan, Italy, February 26-27, 2026.  
(<https://shorturl.at/9f64l>)
- Eastern and Western Snow Conference in Denver CO, May 12-15, 2026  
(<http://www.easternsnow.org/>)

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