At the Arctic Data Center (ADC), we're excited about what the rest of the fall season has in store! In the meantime, we'd like to take a moment to reflect on recent activities and accomplishments. To start, our landing page has received a facelift! When you visit *arcticdata.io*, you'll notice a refreshed layout and new features that improve on our previous design. This update is just one of many improvements we hope to make on our website to be more user-friendly and resourceful.

We also had the chance to review the feedback from those who participated in our **2024 Community Survey**. We share our reflections and insights in a new featured blog post. In addition, we recently supported 20 Arctic researchers during the **Cyber 2A** data science training workshop. Connecting with such a diverse group was a highlight, and it made us excited for our very own 2025 data science training workshops next. If you haven't applied for our Python-focused course yet, we encourage you to take a look at the application. Stay tuned for more updates from the ADC and read on to learn what else we've been up to!

Cyber 2A: AI for Arctic Research

This October, members of our team co-hosted the inaugural Cyber 2A: AI for Arctic Research workshop at the National Center for Ecological Analysis and Synthesis (NCEAS) in

Santa Barbara, CA. The workshop introduced Arctic researchers to foundational techniques in artificial intelligence (AI) and machine learning (ML) to support and advance their research. Over the course of the week-long workshop, 20 participants had the opportunity to learn about each other's work on topics ranging from sea ice and ice-sheet dynamics to permafrost thaw and more.

This workshop is the first of two coordinated by the Cyber 2A project to support Arctic community members in advancing their data science skills. Following its success, this team of collaborators are excited to see what the 2025 workshop will offer attendees. For more information about the project, visit the Cyber2A website.

Check out the course materials!

Arctic Data Center Data Science Workshop

April 7th - 11th, 2025

Last Chance to Apply to Scalable and Computationally Reproducible Approaches to Arctic Research Workshop

This *five day in-person workshop* will take place at NCEAS in Santa Barbara, CA. It will provide researchers with an introduction to advanced topics in computationally reproducible research in Python, including software and techniques for working with very large datasets. **Registration is set to close on November 15, 2024.**

Some topics expected to be cover:

- Scalable and remote computing
- Cloud computing concepts
- Docker environments
- Parallel processing and concurrency
- Large data transfer, data staging, data extraction
- I/O efficiency

Link to Registration

Should you have any questions or further inquiries about this opportunity, please reach out to our team via email at training@arcticdata.io or use the contact information at the bottom of this newsletter.

Upcoming Webinars by the Permafrost Discovery Gateway

Join us on **November 14**, for a Permafrost Discovery Gateway webinar featuring Gary Greenberg from the Alaska Map Company. This presentation will discuss how communities are using geospatial tools and datasets to address critical gaps and develop collaborative solutions for effective hazard planning and recovery. A second webinar will follow on **December 5**, featuring Sela Tahiry from the Environmental Protection Agency (EPA). Check out their [Stay Connected](#) page to learn more!
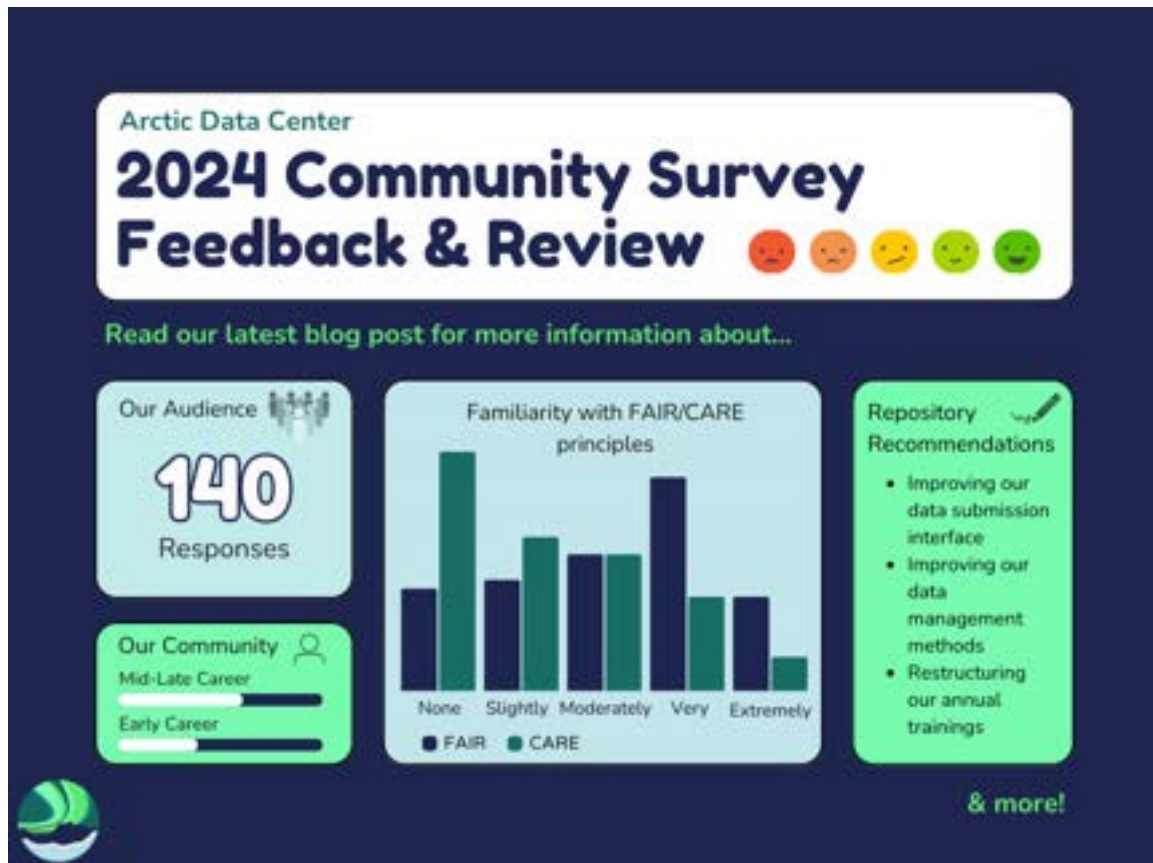

Meet the Arctic Researchers

Over the last few months, our outreach team has been showcasing the stories of Arctic researchers who have contributed their work on the repository. We have featured several researchers so far and plan to continue these highlights. Below are our two most recent features from our [Blog & News Items.](#)

New Dataset Discussing Aerosols in the Arctic with PhD Candidate Allison Welch

New Merged Datasets on Arctic Climate (MOSAiC Project) with Dr. David Clemens-Sewall

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[**Check out other dataset highlights**]
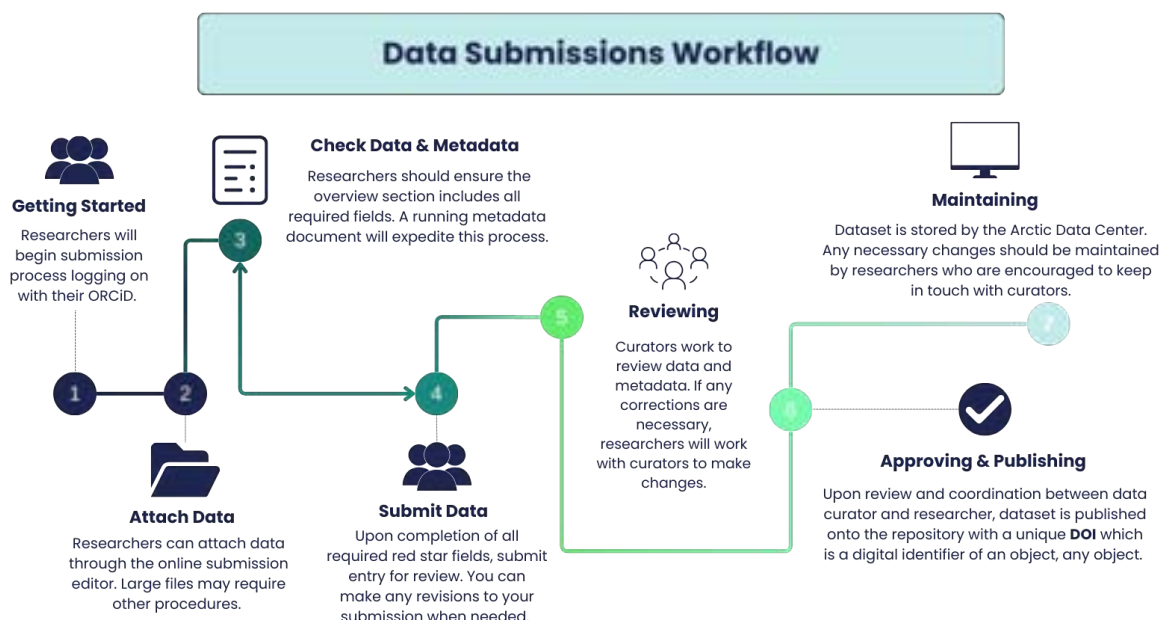
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Reflections from our 2024 Arctic Data Center Community Survey

We extend our sincere thanks to everyone who participated in our **2024 Community Survey**. Your detailed feedback is already helping us shape our priorities and goals for future operations. Launched in April 2024, this survey gathered input from 140 anonymous participants and aimed to identify areas for improvement in our data science training, opportunities, data curation, data management tools, and services.

Using these insights, we've created a blog post reflecting on the feedback received. We remain committed to empowering researchers to preserve and discover all NSF-funded Arctic research products through the ADC. If you weren't able to participate in the survey but have suggestions for us, please email: **info@arcticdata.io.**

Check out the blog

Resources to Watch For

Data Submissions Workflow

Getting Started
Researchers will begin submission process logging on with their ORCiD.

Check Data & Metadata
Researchers should ensure the overview section includes all required fields. A running metadata document will expedite this process.

Maintaining
Dataset is stored by the Arctic Data Center. Any necessary changes should be maintained by researchers who are encouraged to keep in touch with curators.

Reviewing
Curators work to review data and metadata. If any corrections are necessary, researchers will work with curators to make changes.

Attach Data
Researchers can attach data through the online submission editor. Large files may require other procedures.

Submit Data
Upon completion of all required red star fields, submit entry for review. You can make any revisions to your submission when needed.

Approving & Publishing
Upon review and coordination between data curator and researcher, dataset is published onto the repository with a unique **DOI** which is a digital identifier of an object, any object.

In September, we refreshed our data submission guidelines to provide clearer guidance for both new and returning data submitters, helping them navigate our processes and find answers to common questions. We created this infographic above to serve as a general workflow for submitting to the repository. We hope community members may find it helpful. For more details, visit our page.

November 4, 2024

CARE-ing for Arctic Data & Indigenous Data Sovereignty Series: Ethical Stewardship in Research

Nicole Greco and Angie Garcia, our Community Engagement & Outreach Coordinators, recently presented on ethical research practices and the **CARE principles** (Collective benefit, Authority to control, Responsibility, and Ethics) during the latest **IARPC Sea Ice, Permafrost, and Data Team**'s webinar. This webinar was the first in a series aimed at promoting the adoption of CARE principles in Arctic research data management and generating additional ideas for further advancement. Watch the full webinar on IARPC Collaborations YouTube channel!

Other Opportunities
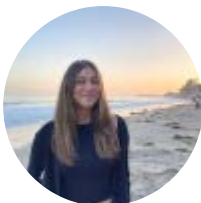
Job: IARPC Engagement Coordinator

The **Interagency Arctic Research Policy Committee (IARPC)** is seeking a self-motivated individual with an interest in community management and Arctic research for a remote position as IARPC's Engagement Coordinator. The Engagement Coordinator manages the IARPC Collaborations website, designs and implements communication and outreach strategies for a variety of key audiences and constituencies, and encourages participation and belonging in the IARPC Collaborations community space. Details are available at https://www.iarpccollaborations.org/jobs.html; application review begins **November 15**.

Polar Early Career World Summit

Applications are open for the Polar Early Career World Summit in Boulder, Colorado, USA, 22-24 March 2025. Apply by **November 19** and find out more info at http://pecws.org. All ECRs engaged with the Arctic, Antarctic, and wider cryosphere are welcome to apply to attend!

NNA-CO Learn & Connect: Scenario Storytelling

Dr. Katie Spellman will talk about scenario storytelling, an innovative model for citizen/community science developed as part of the Winterberry project on **November 18 at 10am AKT**. This model turns data into stories and pathways to action, engaging youth and the broader community. Register for the event at https://lp.constantcontactpage...

Best regards,
Angie Garcia, Community Engagement and Outreach Coordinator
✉ agarcia@nceas.ucsb.edu