The Arctic Data Center

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CSCCE Community Profile

Information submitted by Erin McLean
Community Engagement & Outreach Coordinator

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COMMUNITY OVERVIEW

The Arctic Data Center was created in 2016 through funding from the U.S. National Science Foundation (NSF) as a place for researchers from around the world who are working in the Arctic to efficiently share, discover, access, and interpret complex data about the Arctic with less effort. Based out of the National Center for Ecological Analysis and Synthesis, roughly 350 active members interact with the community via the support team for submitting datasets, through the training / outreach team for data science training, at occasional in-person conferences, and online with the community's growing Twitter presence.

- DATA SCIENCE
- INTERDISCIPLINARY
- KNOWLEDGE GENERATION
- OUTREACH AND EXTERNAL COMMUNICATION
- INFRASTRUCTURE DEVELOPMENT
- PROFESSIONAL DEVELOPMENT
- SKILLS DEVELOPMENT
- ACADEMIA-POLICY INTERFACE

- Website: arcticdata.io

COMMUNITY BASICS

350 core members
with a broader group of 5000

These numbers are an estimate

Mostly online with some in-person events

International

Open

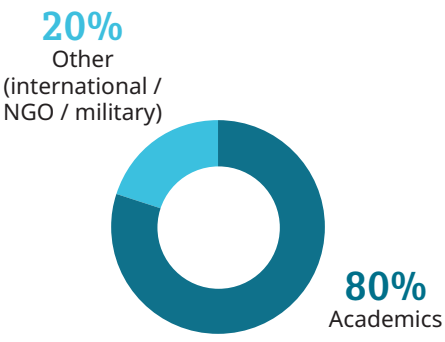
Infrastructure organization

COMMUNITY STRUCTURE

Community Management

Community management is provided by 1 FTE **Community Engagement and Outreach Coordinator** and 0.5 FTE **Co-PI / Director of Learning and Outreach** (total 1.1 to 1.9 FTEs). Additionally, a **data fellow** assists on projects.

Members



Community Configuration

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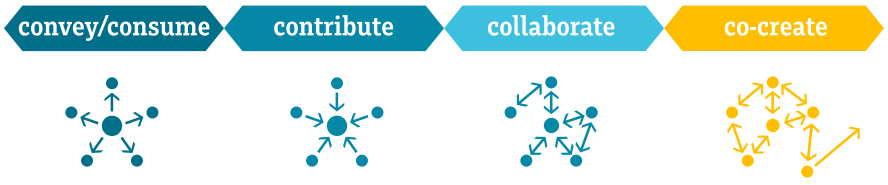
PROGRAMMING

The CSCCE Community Participation Model describes four modes of member engagement that can occur within a community: CONVEY/CONSUME, CONTRIBUTE, COLLABORATE, and CO-CREATE. All modes may be present at once, with some members interacting in multiple modes - or a community may have member engagement that falls into only some of the modes described. The model enables the mapping of community member behaviors to programming and other infrastructural support that the community manager, convening organization, or funder may provide to the community. For more information, see the CSCCE community participation model.

IN THIS COMMUNITY

Online activities include data submissions / asking questions about data submission, trainings, and workshops. Offline activities include workshops, conferences, and trainings.



- newsletters
- Twitter
- website

- leading a webinar
- asking questions
- contributing code

OUTPUTS & EVALUATION

Success looks like more researchers depositing data, especially from historically underrepresented disciplines like the social sciences, and more users downloading, reusing, and citing the data in new papers or synthesis work.

Evaluation and Reporting

- External evaluator
- Reports for leadership or funders

Opportunities

- Launch new program
- Create formal champion program

Challenges

- Low member activity

Successes over the last year

- **Productivity** – co-creating community outputs
- **Engagement** – in-person and online events
- **Engagement** – increased activity of members
- **Recognition** – members see value
- **Recognition** – awards/articles/ invitations

Online In-person

COMMUNITY TOOLBOX

Communications

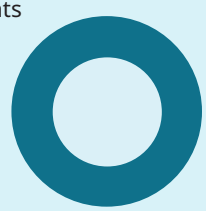
Email
Slack
Blog
Twitter
Zoom
GitHub

Productivity

R
RStudio
Google Drive
Google Analytics

FUNDING

100%
Grants



Funding Streams

- 100% Grant (National Science Foundation Office of Polar Programs)

Members can apply for **fully funded training events online or in-person** *through the Arctic Data Center.*