

https://arcticdata.io

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the Arctic Data Center

NSF Award #1546024



Kathryn Meyer

Arctic Data Center Data Science Training January 14-18, 2019 1



the Arctic Data Center, NSF Standards & Policies









Features and Services

- Data Archive
- Portal for data discovery
- Tools & Infrastructure
 - Data and metadata submission
 - Provenance features
 - Replication features
 - Metadata quality check
- Support Services
- Training & Outreach
- Data Rescue

















M. Jones



Baker-Yeboah



Budden



Casey



Dozier



Schildhauer



Walker



C. Jones



Mecum



Clark



Goldstein



Li



Mullen



Chong

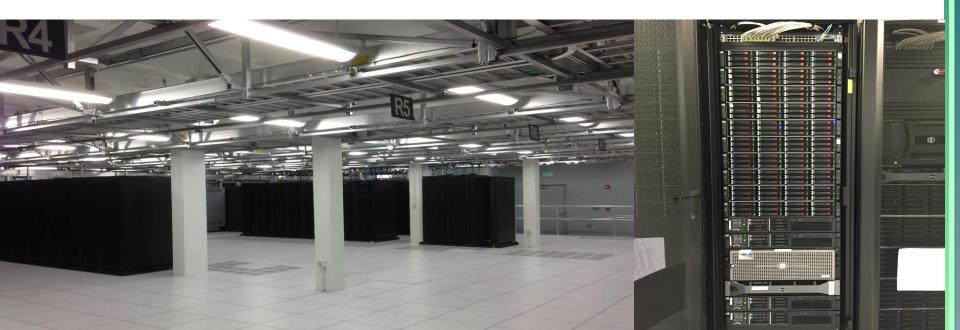


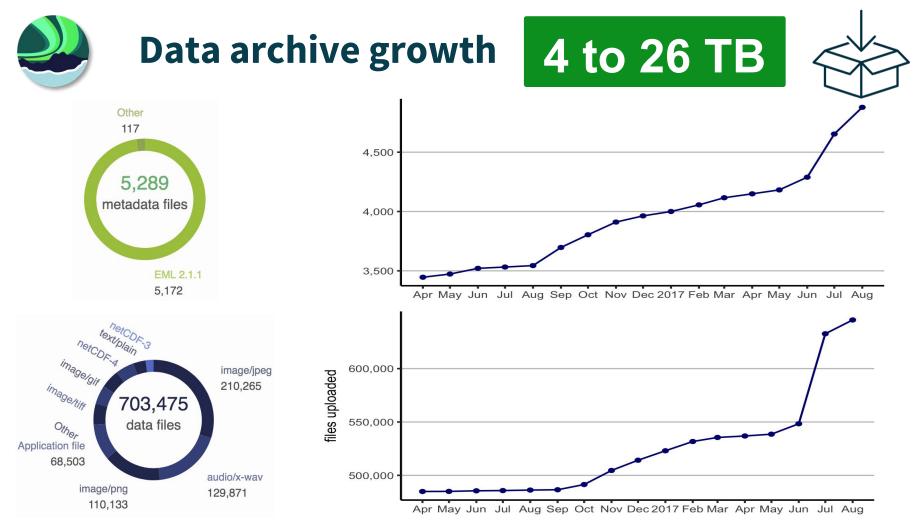
Meyer

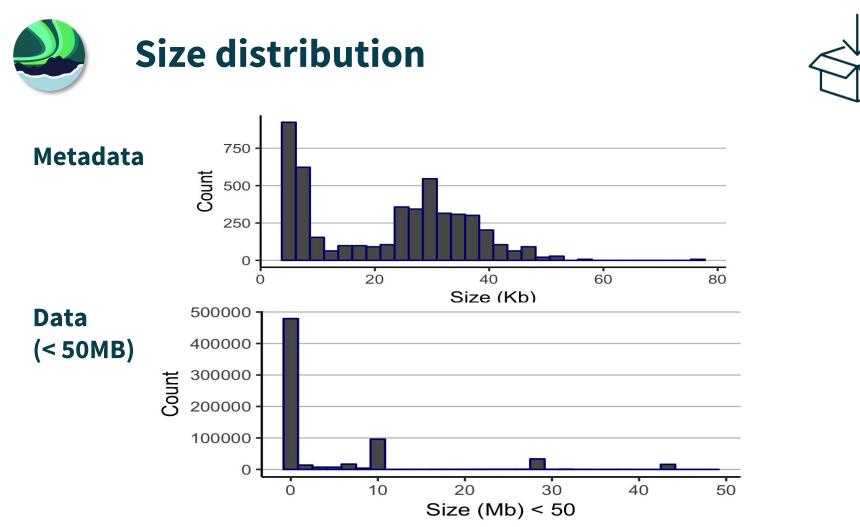














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Pan-Arctic Data



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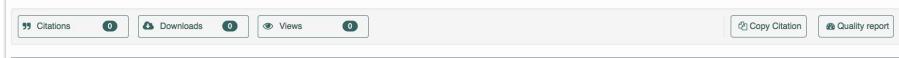


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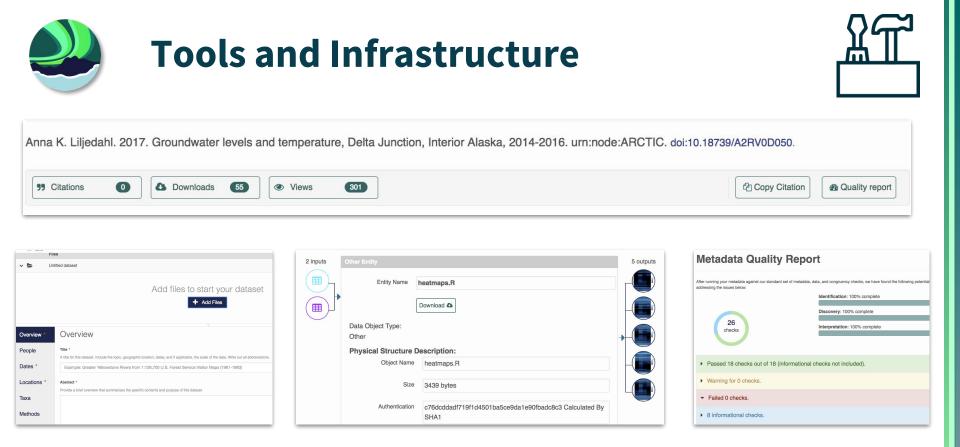




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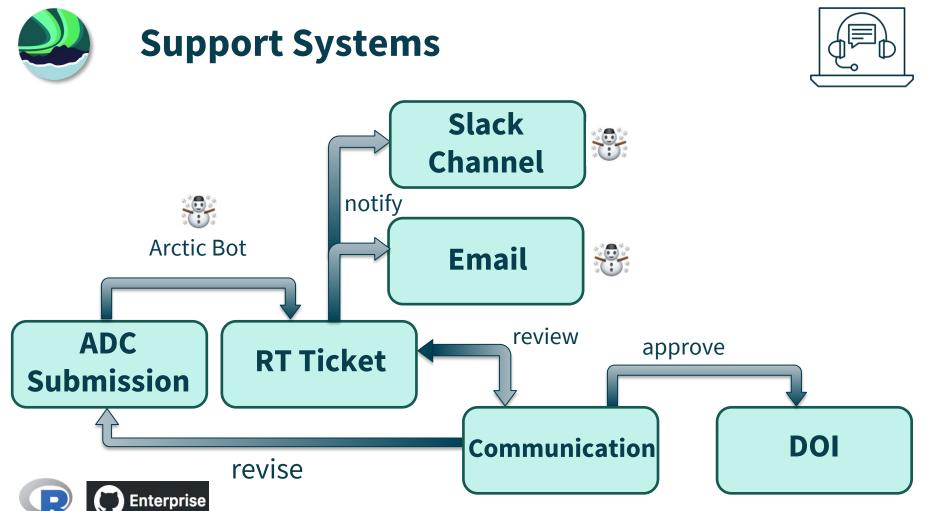




Support Services









Request Tracker ticket system



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Slack #arcticbot





Arctic Bot APP 5:40 AM

Correspondence by jcohen@aer.com on Ticket 18007:

Thank you for the update on downloading Dave's data My final report for the related project will not be approved until I have included a link to the data I have several pending proposals being revie...





Arctic Bot APP 6:25 AM

Correspondence by kevin.r.wood@noaa.gov on Ticket 18054:

Any news on the link to the data set Thanks Kevin On Fri Dec 28 2018 at 8:00 PM Dominic Mullen via RT support@arcticdata.io wrote Hi Kevin Yes we are However the link isn't ready yet it should be wi...



1 reply Today at 9:04 AM



Support Team (support@arcticdata.io)





Clark



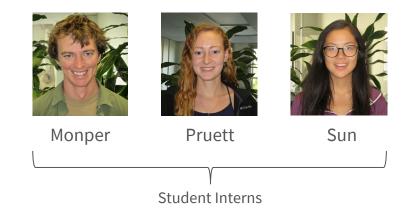
Goldstein



Mullen



Chong





Training and Outreach







Training and Outreach

- Training
 - Trainings
 - Workshops
 - Internship Program
 - Data Fellows Program
 - Webinars





Training and Outreach

- Outreach
 - In-person events
 - News items and other communications
 - Social media
 - Arctic Data Center website





Arctic Data Science Training









Data Training & Outreach



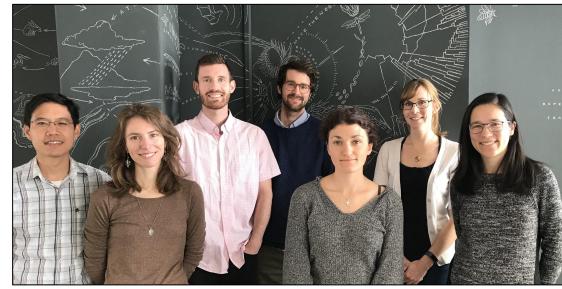






Data Science Fellowship







The Next Generation of Environmental Scientists are Data Scientists

NCEAS Portraits: Data Science Fellow Edition



Rachel Carlson Leveraged the Power of Data Sharing
"I think data science is a great example of using 21st-century tools to
address 21st-century environmental problems."
More



Steven Chong Improved Carbon Data Accessibility "My professional goal is to build a career that makes biological information more accessible and user-friendly."

More



Emily O'Dean Reenergized Her Passion for Mixing Software and Science

"Working at NCEAS has made me really excited about utilizing my computer science knowledge in the context of ecological research."



Stephanie Freund Indulged Her Satisfaction in Well-Prepared Datasets

"I believe that principles of open science are widely applicable for both scientific research and its applications."

More



Dataset Highlights



















Dataset Highlight: Phenological Mismatch in the Arctic, with Dr. Kathy Kelsev

By Kathryn Meyer

Citation: Katharine Kelsey. 2017. Methane and nitrous oxide fluxes as a function of the timing of goose grazing, Yukon Kuskokwim Delta, Alaska, 2016. Arctic Data Center. doi:10.18739/A28J6F.

Highlight: ""These data are critical for understanding how climate-induced changes in the timing of migratory herbivore grazing should be included in projections of the role of Arctic and Subarctic ecosystems in the global climate system," – Dr. Kathy Kelsey.

Phenological mismatch is when the timing of food and/or habitat availability for a species is altered relative to that which that species is accustomed. It's also a phenomenon becoming more prevalent in a changing climate. As climatic changes lead to an earlier spring in the Arctic and many other parts of the wordt, the timing of herbivore migration and grazing is also changing. Dr. Kathy Kelsey, a Postdoctoral Fellow at the University of Alaska, Anchorage, and her team led by Principal Investigators Dr. Karen Beard, Dr. Jeffrey Welker and Dr. Joshus Leffre, know this well.



Dr. Kathy Kelsey collecting greenhouse gas data. PC: Ryan T. Choi



But while phenological mismatch is known to have effects on herbivore populations, Kelsey and her team are specifically investigating how these timing changes affect interactions between the biosphere and the atmosphere. To do this, they collected data on the exchange of greenhouse gases, including carbon dioxide (CO₂), methane (CH₄) and nitrous oxide (N₂O), between the ecosystem and the atmosphere. This particular dataset helps to understand how changes in the timing of the growing season and the timing of goose grazing affect greenhouse gas fluxes.

Addressing their research questions really is a team effort. To collect and analyze their own data, Kelsey's team relied on other available data – including data on geese arrival,





Social Media & Marketing

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2019 Arctic Data Center Data Science Trainings

January 2, 2019 - The Arctic Data Control in licking of 2019 by hosting the odtata solinoo training in Junuary and February. These 5ding thanings provide Arctic researches with an overview of bot data management protections, data science obtating analysis in R and Gibrub, and concrete steps and methods for more easily documenting and sploading their data to the Arctic Data Center. Interested in Latending an upcompile Arcic Data Center Data Science straining Thildhough the application provide of the January and February trainings is closed, the call for applicants for the October 2019 training will be posted soon. Stay tuned for details and make ...

Read more ×





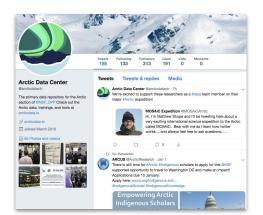
28 September 2018 Issue

Highlighting the Stories and People Behind Preserved Arctic Data

The Arctic Data Center has recently established a Dataset Highlights page. The Dataset Highlights page provides insights directly from the researchers, including how their data might be applied to other questions in support of Arctic research. The six datasets highlighted here are from studies of Arctic soil bacteria, Arctic river geochemistry, Indigenous subsistence harvest, local community response to ecosystem change in the Bering Sea, the habitability of ragiler otten can dehenological insmatch in the Arctic.

By: Kathryn Meyer, Community Engagement and Outreach Coordinator at the Arctic Data Center







Data Rescue





Data Recovery: Aerial Glacier Photos

- Austin Post's collection
- 1964 1997
- 2 6 rolls per year
- 100,000+ files = 4.9 TB
 - Glacier photos: TIFs, JPGs, TNs
 - Reconstructed flight paths, images of notes, image metadata, camera specs

Meares Glacier, Prince William Sound, AK 61.187448, -147.457573, taken from 18,000' December 3, 1995, Roll 3, Frame 110 doi:10.18739/A2FF6Z (NAGAP_95V3_110.jpg)







the Arctic Data Center, NSF Standards & Policies



Who Must Submit

https://arcticdata.io/submit/#who-must-submit

Arctic Research Opportunities (ARC):

- Complete metadata and all appropriate data and derived products
- Within 2 years of collection or before end of award, whichever comes first

ARC Arctic Observing Network:

- Complete metadata and all data
- Real-time data made public immediately
- Within 6 months of collection



Who Must Submit: Social Sciences

https://arcticdata.io/submit/#who-must-submit

Arctic Social Sciences Program (ASSP):

- NSF policies include special exceptions for ASSP and other awards that contain sensitive data
- Human subjects, governed by an Institutional Review Board, ethically or legally sensitive, at risk of decontextualization
- Metadata record that documents non-sensitive aspects of the project and data
 - Title, Contact information, Abstract, Methods



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- We assign a DOI to each published data set
- Researchers should cite data they use



- We are working as part of Make Data Count to track the citations to data





Data Citation

- Each update has a unique identifier
- Cite the exact version used
- Newer versions are clearly indicated





the Arctic Data Center, NSF Standards & Policies, Summary









Arctic Data Center Features and Services



Data Archive



Data Discovery Portal



Tools and Infrastructure



Support Services



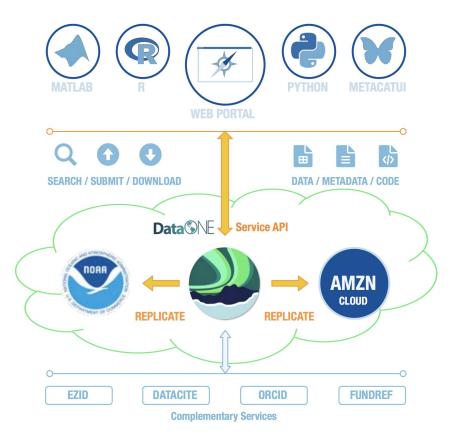
Training and Outreach



Data Rescue



- Projects: GRISO, DBO, ARMAP
- Repositories: LTER, BCO-DMO, R2R, Antarctic Data Center (IDEA)
- Networks: A2DC, Arctic Data Explorer
- Committees: Arctic
 Data Committee,
 IARPC Data
 Sub-team, POLDAR,
 MOSAiC Data Team





https://arcticdata.io