CUSTOMIZED POLAR PORTALS THROUGH THE DATAONE FEDERATION

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The DataONE Federation

A federated network facilitating reuse of earth observations data
Harvest via schema.org and friends

Metadata Aggregated from Repositories Across DataONE
Generic search and discovery across disciplines
Community Data Portals

Customized data portals and information management for targeted communities
Community Portals

Data Aggregated from Repositories Across DataONE

[Diagram showing the aggregation of data from various repositories into the DataONE platform, with themes such as sea ice and permafrost]
Community Portals

Customizable Services by Organization, Theme and Region

- **Theme**
  - Custom branding and storytelling
  - Data Level Metrics
    - Aggregated views, downloads and citations
  - Metadata Quality
    - Customized checks of metadata quality
  - Metadata Creation
    - Metadata authoring and data upload tools
  - Customized Search
    - Community specific search features for enhanced discovery

- **Project/Organization**

- **Region**

- **Repository**
The declining size and age of salmon

The size and age of salmon returning to Alaska rivers is generally declining across species. Changes that affect salmon also affect the health, economy, and way of life of people in Alaska.

The Trend

Across Alaska, salmon are returning from sea at younger ages with smaller adult body sizes. Scientists have long noted these changes, as have previous scientific studies. Until now, no project has compared trends across all of Alaska’s regions and species.
# Regions Overview

The story of Alaska’s salmon and people is rooted in place. It is only by understanding the differences among regions that one can see the connections that unite all Alaskans to salmon.

The thirteen SSAB regions were determined based on their geography, and in many cases, represent large watersheds where all falling water flows into the same ocean location. Moreover, regions tend to be grouped by Indigenous cultures and languages, evidence of the deep-time ties between Alaska’s salmon and people. Some regions align with current ABFA study areas; some do not. [Regions](urn:uuid:70577331-6d5f-4031-9985-66980fbb1b01)

# Arctic

# Status update:
The Arctic is warming at the fastest rate of any region of Alaska, yet is still the coldest area. A lack of consistent monitoring and an unfamiliarity of local people with many of the species of salmon make it difficult to know whether salmon...
Custom Data Collections and Search Terms

SASAP - State of Alaska's Salmon and People

Keywords:
- Fish productivity
- Habitat
- Harvest and management

Datasets 1 to 5 of 115

Metadata Quality Reports

Dataset quality assessment: improve curation and preservation via metadata quality information
Metadata Quality Report

After running your metadata against our standard set of metadata, data, and congruency checks, we have found the following potential issues. Please assist us in improving the discoverability and reusability of your research data by addressing the issues below.

- **Quality suite:** DataONE Metadata Completeness Suite v1.0
- **Identification:** 88% complete
- **Discovery:** 100% complete
- **Interpretation:** 100% complete

- Passed 14 checks out of 20 (informational checks not included).
- Warning for 5 checks. Please review these warnings.
- Failed 1 check. Please correct these issues.

More than one license was found which was an unexpected state.
**FAIR Quality Suite**

Get a robust evaluation of how data and metadata stand up to FAIR with over 50 automated checks

**Collection Reports**

Report on metadata quality over time to assess management decisions

**Custom quality suite**

Create your own quality suite that DataONE runs and reports for your community
Data Level Metrics

Access to reliable and comprehensive third-party metrics: Track usage of your data
Time series

Time series data showing trends in views, downloads, and citations

Aggregated reports

Aggregated reports for individuals, repositories, funders and others

Publication links

Links to citing publications to find out where your data has been used
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Portal Visualizations: Permafrost Discovery Gateway

Anna Liejdahl (PI), Jones and Budden (Co-PIs), 6 institutions

Modeling Arctic Permafrost

Machine learning and deep learning across massive multi-petabyte imagery to extract features

Visualization Portal

Extend the DataONE portal infrastructure to support dynamic web-based visualizations

Published Data Products

Arctic Data Center will house products that will be accessible in DataONE