



ARCTIC OBSERVING VIEWER

collaborative mapping of data collection sites

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<http://ArcticObservingViewer.org>

Assess status. Fill gaps. Gauge progress.
Coordinate. Collaborate. Optimize.

The U.S. Arctic Observing Viewer:

A Web-Mapping Application for Enhancing Environmental Observation of the Changing Arctic

Although a great deal of progress has been made with various Arctic Observing efforts, it can be difficult to assess that progress. *What data collection efforts are established or under way? Where? By whom?*

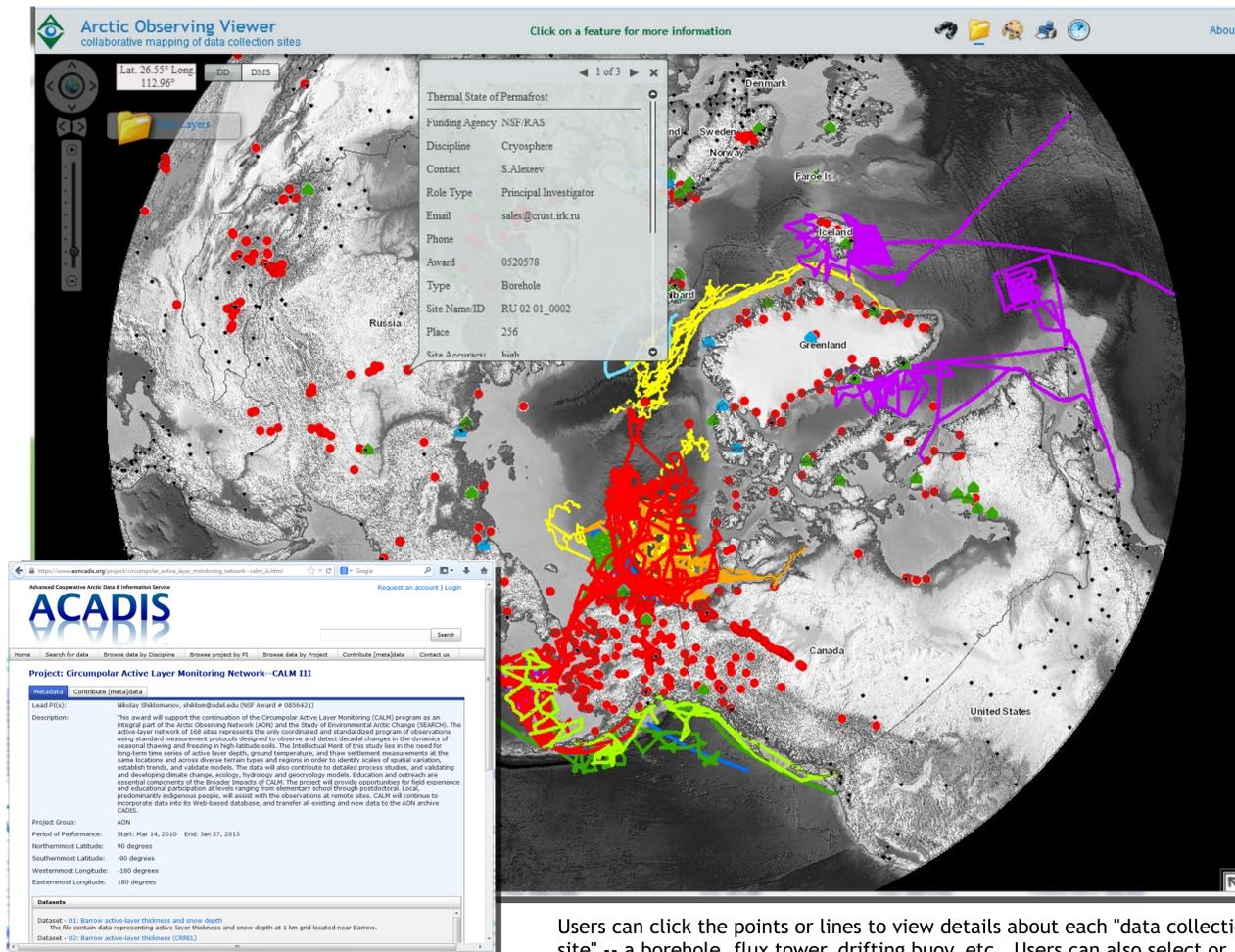
To help meet the programmatic, strategic needs of U.S. SEARCH, AON, SAON, and related initiatives, an update has been released for the Arctic Observing Viewer (AOV; ArcticObservingViewer.org). This web mapping application and information system has begun to compile the "who", "what", "where", and "when" of data collection sites (wherever marine or terrestrial data are collected, with thousands of: boreholes, ship tracks, buoys, towers, sampling stations, sensor networks, vegetation sites, stream gauges, observatories, etc.). Contributing partners for this collaborative resource include the U.S. NSF, ACADIS, ADIwg, AOOS, a2dc, AON, ARMAP, BAID, CAFF, IASOA, INTERACT, and others. While focusing on U.S. activities, information exchange with international groups is welcomed for mutual benefit.

Users can visualize, navigate, select, search, draw, print, and more. The development, population, and enhancement of AOV is continuing. User and stakeholder feedback is appreciated. AOV is founded on principles of interoperability, with an emerging metadata standard and compatible web service formats, such that agencies and organizations can use AOV tools and services for their own purposes.

In this way, AOV will reinforce and complement other distributed yet interoperable cyber-resources, and will help science planners, funding agencies, investigators, data specialists, and others to: assess status, identify overlap, fill gaps, optimize sampling design, refine network performance, clarify directions, access data, coordinate logistics, collaborate, and more to meet Arctic Observing goals.



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Data collection sites link to archives such as the Advanced Cooperative Arctic Data and Information Service (ACADIS) at <http://www.aoncadis.org>.

Users can click the points or lines to view details about each "data collection site" -- a borehole, flux tower, drifting buoy, etc. Users can also select or search with results shown in a table, export the results, save the map, and more. A variety of web services are also available for use in desktop applications or databases.

Collaborate

Would you like to showcase your sites? Increase visibility for your organization? Strategically assess your monitoring activities within the context of other observation networks in order to optimize resources and opportunities? If so, please consider joining a network of agencies and organizations that are sharing information for both individual and collective benefit.



In Pursuit of Interoperability

The ultimate goal is that information for multiple observing networks is discoverable, authoritative, and up to date. Due credit should be given to data sources. And the information should be made accessible for use by various groups in a variety of ways for their own purposes.

In essence, what is needed is a dynamic network of distributed nodes for information sharing. This in turn relies on establishment of web services -- live data feeds that conform to community-based metadata standards and compatible web service formats. Without interoperable web services, information becomes out of date, or requires repeated, substantial harmonizing and reprocessing. The Arctic data community is making progress on this front, notably through the Alaska Data Integration working group, Arctic Data Coordination Network, Sustaining Arctic Observing Networks, and other efforts or initiatives.

Add Your Sites

- Use the online form
- Use a template spreadsheet
- Develop a compatible web service

Or just contact us at info@ArcticObservingViewer.org

The AOV Team will be happy to work with you.

Become a Partner to showcase your network, identify co-location of resources, avoid duplication, and clarify directions.