

Managing Data and Information for the Arctic Observing Network (AON: Cooperative Arctic Data and Information Service (CADIS) Overview

<http://aoncadis.ucar.edu/>

James Moore¹, Florence Fetterer², Don Middleton¹, Mohan Ramamurthy³

¹National Center for Atmospheric Research jmoore@ucar.edu, don@ucar.edu

²National Snow and Ice Data Center fetterer@nsidc.org

³ University Corporation for Atmospheric Research mohan@ucar.edu

A collaborative project to develop a coordinated data management service to meet the needs of the Arctic Observing Network (AON). CADIS is funded by the National Science Foundation and is a team effort of NCAR, NSIDC and Unidata. The service will bring data standards, visualization tools, data archival and stewardship expertise and vision to support AON. It creates long-term access to data archives as well as discovery and exchange in the community.

A major milestone reached in 2009 with deployment of the new CADIS Gateway (Fig 2.) on the new Science Gateway Framework (SGF) at NCAR. Key components include a metadata editor, remote metadata harvesting, project site mapping (Fig. 1) and searchable database and download



Figure 2. The AON CADIS web page (<http://aoncadis.ucar.edu>) The page provides access to all AON metadata, interoperable with other archives and is used for the archival of AON datasets

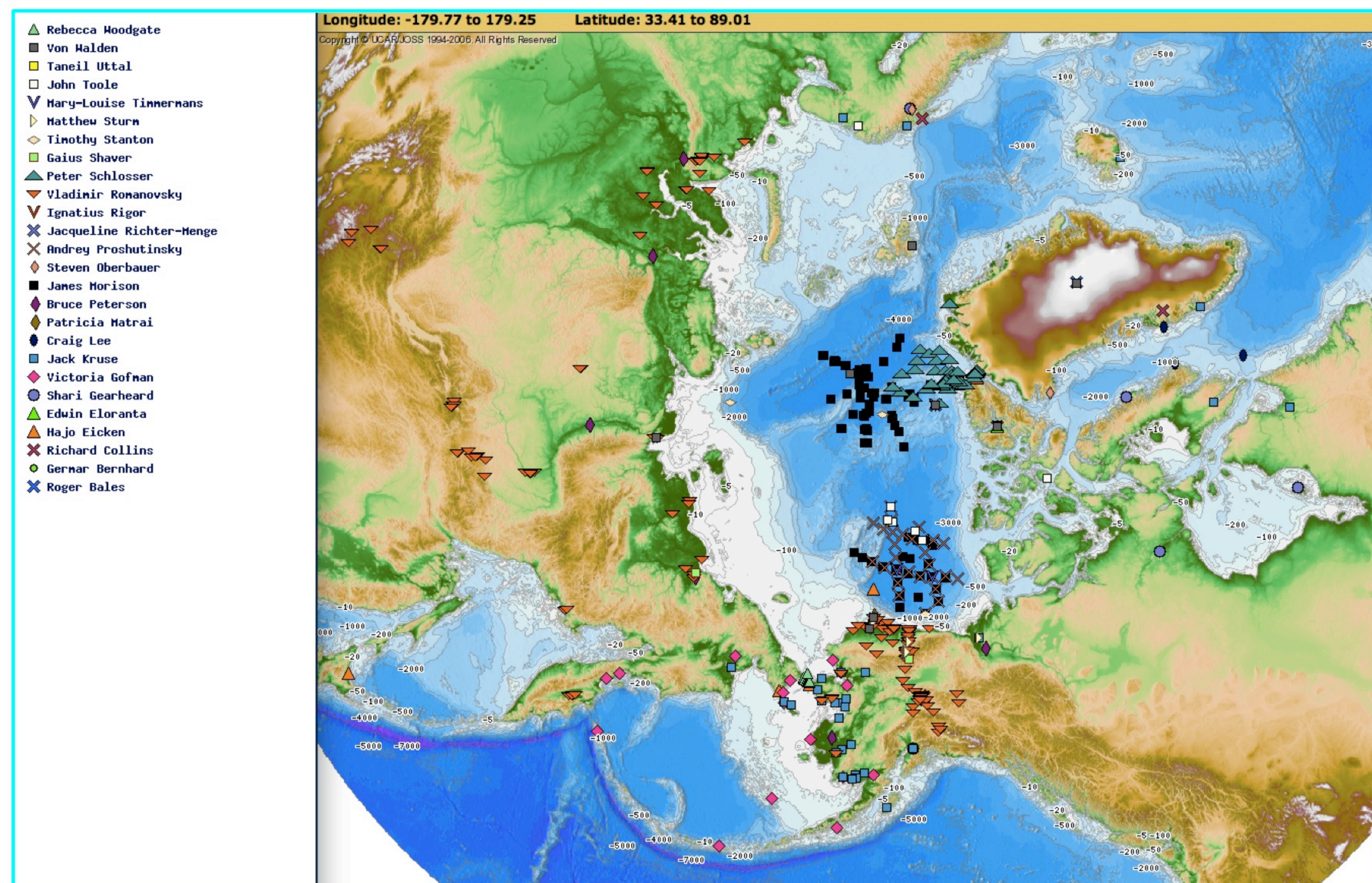


Figure 1. The AON Network geographic coverage as of November 2009. This plot was produced the CADIS GIS Mapserver tool. CADIS allows this information to be presented in Google Earth and LAS tools via the CADIS Portal. PIs listed unique symbol and may have multiple observations sites

Development of New Effective Visualization Capabilities is a Key CADIS Focus

- GIS Mapserver for locating all AON Measurement locations
- A new search interface for the NOAA/PMEL Live Access Server (LAS)
- Project Level Summary Data using the Arctic Research Mapping Application (ARMAP)
- Integrated NSIDC JAZ Geographic User Interface
- Develop Data management tools for configuring Unidata THREDDS Data Server for possible real-time data access
- Improve visualization of project datasets using the Unidata Integrated Data Viewer