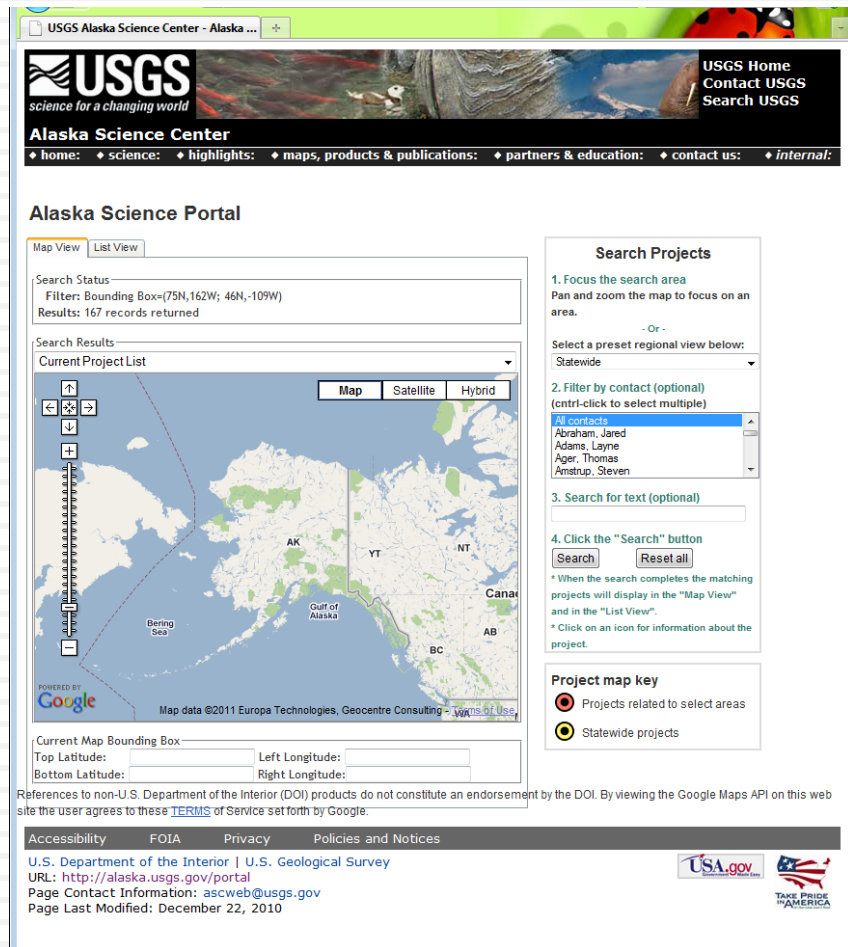


USGS ASC Science Portal Upgrade

- Projects currently available on ASC Science Portal are not to ADIwg standard.
- Portal pages will be upgraded to support ADIwg standard in summer 2012.

A screenshot of the Alaska Science Portal search results page. The page features a map of Alaska with a bounding box around a specific area. The search status shows 167 records returned. The search results list includes project names like Abraham, Jared, Adams, Layne, Ager, Thomas, and Amstrup, Steven. The page also includes a search box, a search button, and a project map key. The footer contains accessibility information, FOIA, privacy, and policies, along with contact information for the U.S. Department of the Interior and U.S. Geological Survey.

USGS Home
Contact USGS
Search USGS

Alaska Science Center

home science highlights maps, products & publications partners & education contact us internal

Alaska Science Portal

Map View List View

Search Status
Filter: Bounding Box=(75N,162W; 46N,-109W)
Results: 167 records returned

Search Results
Current Project List

Map Satellite Hybrid

Search Projects

1. Focus the search area
Pan and zoom the map to focus on an area.
- Or -
Select a preset regional view below:
Statewide
2. Filter by contact (optional)
(ctrl-click to select multiple)
Abraham, Jared
Adams, Layne
Ager, Thomas
Amstrup, Steven
3. Search for text (optional)
4. Click the "Search" button
Search Reset all

* When the search completes the matching projects will display in the "Map View" and in the "List View".
* Click on an icon for information about the project.

Project map key

- Projects related to select areas
- Statewide projects

Current Map Bounding Box
Top Latitude: Left Longitude:
Bottom Latitude: Right Longitude:

References to non-U.S. Department of the Interior (DOI) products do not constitute an endorsement by the DOI. By viewing the Google Maps API on this web site the user agrees to these [TERMS](#) of Service set forth by Google.

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey
URL: <http://alaska.usgs.gov/portal>
Page Contact Information: ascweb@usgs.gov
Page Last Modified: December 22, 2010

USA.gov TAKE PRIDE IN AMERICA



Project Data Maintenance

- Internal USGS web application available to all USGS PIs and researchers (not just ASC)
- No knowledge of metadata structure required

The screenshot shows the 'Project Metadata Maintenance' application home page. The browser address bar shows the URL: <http://igswwaawsvmbmnt.gs.doi.net/project/maint/>. The page features the USGS logo and the text 'Alaska Science Center Internet For Internal USGS Access Only'. A navigation menu on the left includes 'projects', 'select', 'new', and 'faq'. The main content area is titled 'Alaska Science Center - Project Metadata Maintenance Application' and contains a description of the application's purpose and contact information for A.C. Brown and Stan Smith. The footer includes the URL <http://igswwaawsvmbmnt.gs.doi.net/project/maint/default.aspx> and the page last modified date: 12/8/2011 12:57:32 PM.

The screenshot shows the 'Edit Project Data' form for Project ID 252. The form includes the following fields:

- Project ID:** 252
- GUID:** be8ace6f-d5bb-4376-a91a-4caec232965b
- BASIS+ ID:** (empty)
- FBMS ID:** (empty)
- Project Title:** Airborne Electromagnetic Mapping of Subsurface Permafrost
- Short Description:** In June of 2010, the U.S. Geological Survey undertook an airborne electromagnetic (AEM) survey in the area of Fort Yukon, Alaska in order to map the 3-D distribution of permafrost and provide information for the development of groundwater models within the Yukon River Basin.
- Abstract:** In June of 2010, the U.S. Geological Survey undertook an airborne electromagnetic (AEM) survey in the area of Fort Yukon, Alaska in order to map the 3-D distribution of permafrost and provide information for the development of groundwater models within the Yukon River Basin. Prior to the development of these models, information on areas of groundwater-surface water interaction was extremely limited. This research provides the first look into the 3-D distribution of permafrost in the areas around Fort Yukon and is a demonstration of the application of AEM to permafrost mapping. The AEM survey provides unprecedented 3-D images of subsurface electrical properties that reveal changes in lithology and the presence or absence of permafrost. These geophysical data fill an important gap between sparsely sampled boreholes, regional hydrogeologic measurements, and remote sensing data. Interpretations of the AEM data are being integrated with other remotely sensed data to supply critical hydrogeological information needed for developing an improved understanding of groundwater-surface-water interactions in permafrost terrains. More specifically, the interpretations of the AEM data help to refine groundwater flow models in the Yukon Flats Basin. Because of the success of this study we now know that there are many other uses for this data. For example, airborne surveys can provide baseline data for estimating the 3-D distribution of permafrost that can be compared to future surveys in order to estimate volumetric changes over time. Concerns over the impacts of climate change have
- Start Year:** 2010
- End Year:** 2012
- Status:** Ongoing

USGS Implementation Status

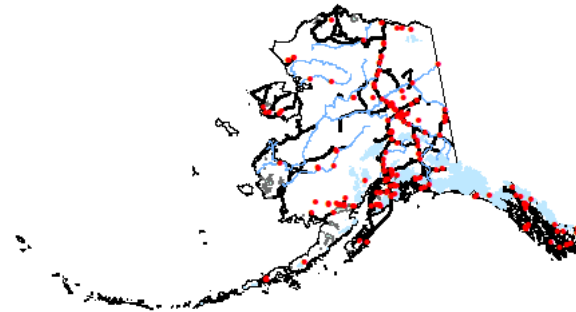
- Adopted ADIwg architecture – Jan 2011
- Database development completed – April 2011
- Metadata maintenance system completed – November 2011
- Web service development completed – January 2012

- Metadata records entry/update complete – July 2012
- Web services on-line – July 2012
 - ▣ Aggregator download support – (bundled)
- ASC Science Portal connection – August 2012

ASC's Water Discipline

Active Stream Gages in Alaska

<http://waterdata.usgs.gov/ak/nwis/current/?type=flow>



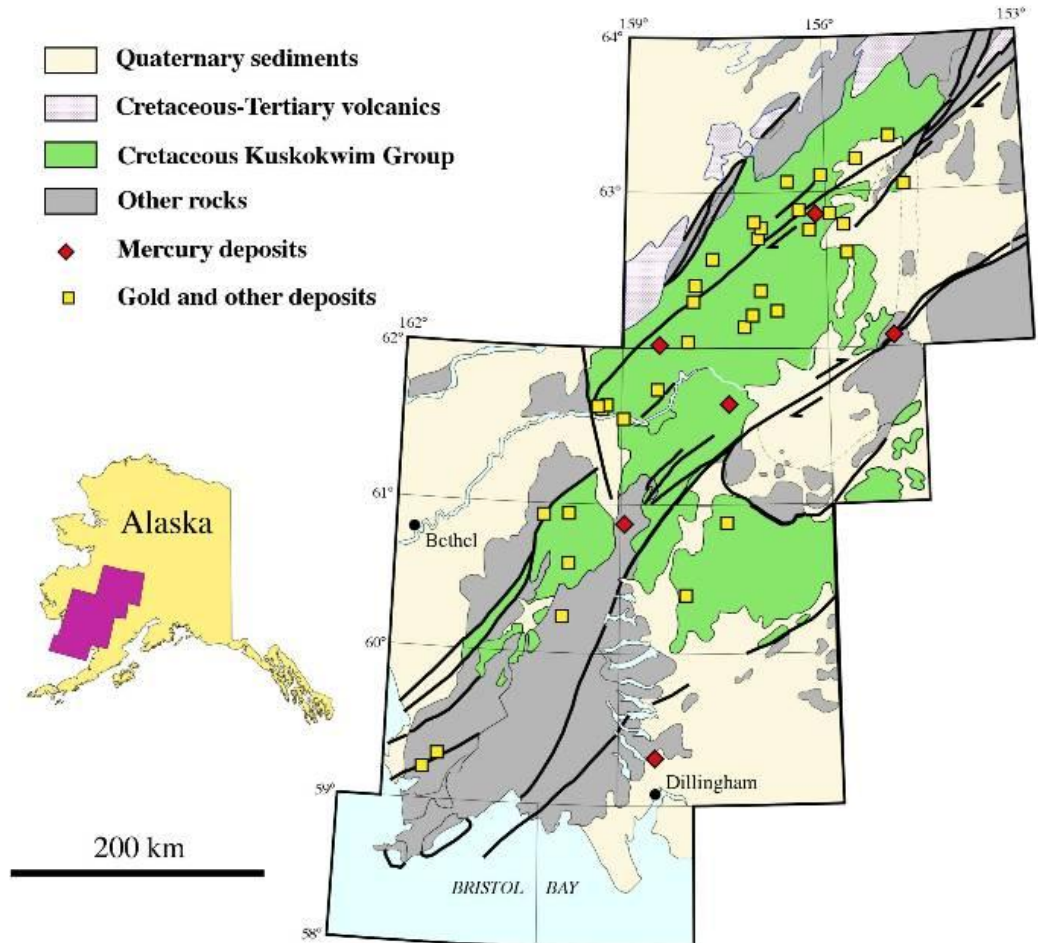
ASC's Geology Discipline

Geologic map of Seward Peninsula completed in 2009

Geologic Map of Taylor Mountain Quadrangle underway

Surveys for paleo records of tsunamis underway on Kenai Peninsula, southwest Kodiak and Alaska Peninsula

Volcano monitoring by AVO



ASC's Geography Discipline

Cold Regions Lake and Landscape Research at the Alaska Science Center

The primary objective of this research program is to gain an understanding of landscape change in the recent (last 50 years) and distant (last 20,000 years) past. This is accomplished through a combination of techniques that include remote sensing, GIS, field surveys, laboratory analyses, and model development.

Western Alaska Lake Temperature Study

Combining remote sensing, field data collection, and model projections to provide information on the status and trends of lake surface temperatures in western Alaska (funding provided by the Western Alaska Landscape Conservation Cooperative)

Thermokarst lake dynamics and carbon cycling on the Seward Peninsula (B. Jones Ph.D. research)

ASC's Biology Discipline

Waterfowl & Shorebird Research on YK Delta

Demographic constraints on emperor geese
Effects on birds of changing coastal processes

Research and surveillance of avian influenza viruses and other emerging avian diseases

AI research currently focused at Izembek NWR

Changing Arctic Ecosystems research on the Seward Peninsula effects of habitat changes on bird populations

Walrus research in western Alaska including that associated with the new terrestrial haul-out near Pt. Lay

EVOS lingering oil, sea otter and near shore research and monitoring on the AK Peninsula

Wildcast Project - Forecasting ecosystem and wildlife changes in Northwest Alaska National Parks (with NPS, Jorgensen, Marcot et al.)