

EXISTING GEOGRAPHIC INFORMATION SYSTEMS NORTH SLOPE - ALASKA

Below data pulled from ARCUS site http://www.arcus.org/gis/data_links.html Most of the links can be acquired from the above link. Additional sites have been appended to the ARCUS listing. Sites with GIS content related to North Slope (+good / ++most relevant).

Interactive Online maps

Websites with Internet mapping applications or interfaces.

Arctic-Focused

- ++ Barrow Area Information Database (BAID-IMS) - http://ael.msu.edu/Website/baid_ims/viewer.htm -- Internet map server application with several data layers for the Barrow, AK area, including base maps and information on research activities
- CEON - Internet Map Server (CEON-IMS) <http://www.ceonims.org/> -- The Terrestrial Circumarctic Environmental Observatories Network IMS - excellent online GIS that enables visualization and search ability of observational platforms and other Circumarctic thematic layers
- ++ Geographic Information Network of Alaska (GINA) <http://www.gina.alaska.edu/page.xml?group=data&page=internetmapserv er> -- Three internet map servers in test deployment to access image and GIS data layers
- +NSF's Arctic Research Project Locations <http://www.vecopolar.com/MapReport.aspx?P=5D9773E3F32B4A209FB01AC7C1331560> -- Veco Polar Resources' interactive map search of NSF-sponsored Arctic field research leading to potential GIS data.
- Sea Ice Maps <http://www.seaice.de/> - Lars Kaleschke, at the University of Bremen, provides online high resolution sea ice concentration maps derived from satellite sensors
- ++ Toolik Field Station GIS http://www.uaf.edu/toolik/gis/ToolikMapEngine_Intro.html – “Toolik MapEngine” viewer, map server based with a north slope geography “jump”. Baseline data and imagery.
- ++ North Slope Science Initiative - Alaska <http://maps.altarum.org/website/NSSI/viewer.htm> – Internet map service serving data layers, metadata and additional information with North Slope as primary focus.
- UNEP.Net Arctic Environmental Atlas <http://maps.grida.no/arctic/> -- Internet map server with layers of environmental variables for the Arctic region, collected primarily from global data sources
- Arctic Logistics Information and Support (ALIAS) <http://www.arcus.org/alias/> -- Map-interface database of facilities

supporting research in the Arctic including research stations and sites, logistics hubs, and cruise tracks

State/National/Global

- Earth System Atlas <http://earthsystematlas.sr.unh.edu/> -- Internet map server with several global-extent data layers; multi-agency mapping initiative led by International Geosphere-Biosphere Programme (IGBP)
- Geography Network <http://www.geographynetwork.com/> -- ArcExplorer Web module searches international network for internet map services; primarily global and national data
- Globalis <http://globalis.gvu.unu.edu/> -- Interactive world atlas with global-extent data layers from the Human Development Report 2003
- UNEP.Net GEO Data Portal <http://geodata.grid.unep.ch/> -- Portal to environmental data sets used by UNEP and its partners in environmental assessments; can select datasets and create maps on-the-fly
- Alaska Department of Fish & Game <http://www.wildlifeneews.alaska.gov/gis/index.cfm?GIS=IMS.IMSMain> -- “static” IMS viewers (hunting permits by region).
- Alaska Fire Service <http://fire.ak.blm.gov/predsvcs/maps.php> -- IMS Fire locations, infrastructure data
- BLM Alaska – Spatial Data Management System <http://www.blm.gov/nstc/gis/GISsites.html> -- Site has been down “temporary unavailable”. Links to BLM GIS Alaska site.
- Alaska ShoreZone Coastal Mapping and Imagery <http://mapping.fakr.noaa.gov/Website/ShoreZone/> Southeast Alaska ShoreZone – viewer related to images of Alaska coastline (SE) very light with regards to GIS capabilities.
- Gulf of Alaska Coastal Imagery Site <http://imf.geocortex.net/mapping/cori/launch2.html> - gulf coastal areas and associated environmental data (sediment, marsh grasses, mussels, kelp etc)
- + Conservation Geoportal MapViewer <http://www.conservationmaps.org/index.jsp> -- Viewer with links to services allowing for visualization of various data including Alaska
- Alaska Marine Information System <http://amis.nprb.org/gis/> -- “Easy GIS” link to interactive viewer.
- EPA Enviromapper <http://www.epa.gov/enviro/html/em/index.html> -- “Generic IMS” plug in a zip code and mapper displays the location along with some base GIS data and specific EPA data (impaired watersheds, etc).

Static Maps

Websites with pre-made maps for downloading and printing.

Arctic-Focused

- Alaska Geobotany Center <http://www.geobotany.uaf.edu/> -- Download the Circumpolar Arctic Vegetation Map and other related maps
- Arctic Monitoring and Assessment Programme (AMAP) <http://www.amap.no/> -- Click on "Resources and Projects" to access hundreds of printable maps and graphics related to AMAP
- Beringian Atlas <http://www.ncdc.noaa.gov/paleo/parcs/atlas/beringia/index.html> -- Includes maps of paleoenvironmental data for Beringia, an initiative from the Paleoenvironmental Arctic Sciences (PARCS) program
- Conservation of Arctic Flora and Fauna (CAFF) <http://maps.grida.no/go/collection/collectionid/954A4C91-13D4-6FAD-5479-B18D4767D9D6> -- Preview and download several high-resolution maps of CAFF themes as well as general arctic region maps
- ++ Geographic Information Network of Alaska (GINA) <http://www.gina.alaska.edu/page.xml?group=data&page=mapgallery> -- Access a variety of Arctic maps in the GINA map gallery
- International Bathymetric Chart of the Arctic Ocean (IBCAO) <http://www.ngdc.noaa.gov/mgg/bathymetry/arctic/arctic.html> -- Download various versions of the IBCAO map for printing
- Permafrost and Frozen Ground Maps <http://nsidc.org/fgdc/maps/> -- Frozen ground maps including permafrost and soils maps available through the Frozen Ground Data Center
- Quaternary GIS Laboratory, INSTAAR <http://instaar.colorado.edu/QGISL/> -- Download print-resolution maps from the Alaska PaleoGlacier Atlas Map Gallery
- ++ Toolik Field Station <http://www.uaf.edu/toolik/> -- See the "Maps-Photos" section for various maps of Toolik Field Station, Toolik Lake, AK. Additional Toolik maps available [here](#).
- UNEP GRID Arendal Arctic Maps and Graphics <http://maps.grida.no/> -- Arctic maps and graphics from United Nations Environment Programme
- University of Texas Polar Regions and Ocean Maps <http://www.lib.utexas.edu/maps/polar.html> -- Library of several arctic region maps produced by the U.S. Central Intelligence Agency
- + VECO Polar Resources <http://www.vecopolar.com/MapReport.aspx?P=5D9773E3F32B4A209FB01AC7C1331560> -- Download maps showing locations of NSF-sponsored research for Alaska and the circumarctic. Derived GIS potential
- + Spatial Data @ University of Alaska South East <http://gina.uas.alaska.edu/joomla/> -- "map gallery of Southeastern Alaska spatial data collected".

- ++Minerals Management Service <http://www.mms.gov/ld/Maps.htm> --GIS data available related to north slope industry operations (leases, OPD, OCS, planning areas, etc).

State/National/Global

- Geography Network
<http://www.geographynetwork.com/maps/staticmaps.html> -- "Static Maps" section of the Geography Network; search for static maps by theme or location; primarily U.S. maps
- National Geographic
<http://www.geographynetwork.com/maps/staticmaps.html> -- "Maps and Geography" section of National Geographic's website; includes map search, online atlas, printable maps, country profiles, and other products
- ++ North Slope Borough Geographic Information Systems
<http://www.north-slope.org/nsb/gis/top.htm> -- general GIS data, village, zoning maps.
- ++Alaska Department of Natural Resources
<http://www.dnr.state.ak.us/pic/maps.htm> -- status plats, surveys and land records, water maps and data.

GIS DATA & METADATA

Websites with GIS data or metadata relevant to arctic research.

Arctic-Focused

- + ARCSS Data Coordination Center <http://arcss.colorado.edu/> -- Data repository for NSF-funded Arctic System Science (ARCSS) data; several GIS data layers available
- ++ Geographic Information Network of Alaska (GINA)
<http://www.gina.alaska.edu/page.xml?group=data&page=home> -- Access data held or indexed by GINA through an Internet Map Server, searchable metadata catalog, or map gallery
- + International Bathymetric Chart of the Arctic Ocean (IBCAO)
<http://www.ngdc.noaa.gov/mgg/bathymetry/arctic/arctic.html> -- Download the IBCAO Grid bathymetric map data for the Arctic Ocean
- ++ International Observatory of the North <http://www.gina.alaska.edu/> -- Browse and download satellite images from AVHRR, MODIS, and Landsat sensors – defaults-redirect to GINA.

- +National Snow and Ice Data Center <http://nsidc.org/data/> -- Cryospheric data for the polar regions; several GIS data layers available from various data providers; search or browse for data
- SynCon Project <http://www.syncon.uaf.edu/> -- Data system for Synthesis and Analysis of Arctic Contamination Data; several GIS datasets available through public data access section
- ++Minerals Management Service <http://www.mms.gov/ld/Maps.htm> --GIS Mapping Continental Shelf maps, Bathymetry maps, multiuse maps etc.

Global

- Earth System Atlas <http://earthsystematlas.sr.unh.edu/> -- Download global-extent data layers; multi-agency mapping initiative led by International Geosphere-Biosphere Programme (IGBP)
- European Space Agency (ESA) Satellite Imagery <http://earth.esa.int/images/> -- Earth observation satellite images from the ESA
- FGDC National Spatial Data Clearinghouse <http://fgdc.ftw.nrcs.usda.gov/servlet/FGDCServlet> -- Search collection of over 200 local, national, and international spatial data servers for links to geospatial data
- Geography Network <http://www.geographynetwork.com/data/index.html> -- Global network of GIS providers managed by ESRI, search for geospatial data; primarily links to global and national coverage
- Land Processes Distributed Active Archive Center <http://edcdaac.usgs.gov/main.asp> -- NASA/USGS site providing global data collected by various satellite and aerial sensors
- UNEP.Net GEO Data Portal -- United Nations Environment Network data portal. Display selected data as maps or graphs, or download datasets, including GIS coverages

National

- +GIS Data Depot <http://data.geocomm.com/> -- GIS Data section of GeoCommunity website; links to primarily national (U.S. and Canada) GIS data
- +NSDI Geospatial One-Stop <http://gos2.geodata.gov/wps/portal/gos> -- U.S. National Spatial Data Infrastructure (NSDI) portal to geospatial data; links to state, regional and local government clearinghouses
- USDA National Cartography and Geospatial Center (NCGC) <http://datagateway.nrcs.usda.gov/> -- USDA Natural Resources Conservation Service data access, internet mapping, geospatial data gateway
- USGS National Mapping Information <http://mapping.usgs.gov/> -- U.S. Geological Survey's Geography site, with links to geospatial data; primarily national extent

- + Seamless Data Distribution System, Earth Resources Observation and Science (EROS) <http://seamless.usgs.gov/> -- data downloads, user defined datasets, data acquired from different hosts
- Conservation Geoportal <http://www.conservationmaps.org/index.jsp> -- “conservation community to facilitate the discovery and publishing of geographic information systems data and maps.”

Regional/State

- + Alaska Geospatial Data Clearinghouse <http://agdc.usgs.gov/> -- Alaska GIS clearinghouse site, with links to a variety of AK-wide datasets, including base maps and ecological datasets
- Alaska Sea Ice Atlas <http://holmes-iv.engr.uaa.alaska.edu/default.htm> -- GIS-based Alaska Sea Ice Atlas of sea ice conditions in the territorial waters of Alaska
- + Alaska State Geospatial Data Clearinghouse <http://www.asgdc.state.ak.us/> -- Portal to Alaska state and local government geo-spatial maps and data
- NPS Alaska GIS Data Service <http://www.nps.gov/akso/gis/> -- National Park Service, Alaska support office GIS Data Clearinghouse; provides GIS coverages for national parks of Alaska
- Quaternary GIS Laboratory <http://instaar.colorado.edu/QGISL/> -- Several GIS layers available for download related to Alaska and Beringia
- ++ North Slope Borough Geographic Information Systems <http://www.north-slope.org/nsb/gis/top.htm> -- general GIS data, village, zoning maps.
- + Spatial Data @ University of Alaska South East <http://gina.uas.alaska.edu/joomla/> -- “map gallery of Southeastern Alaska spatial data collected”
- ++ Alaska Data and Information Links <http://www.csulb.edu/depts/geography/gps/page2.html> -- collection of data repositories related to Alaska (Conservation, Physical, Cultural, Fisheries, etc.)
- Alaska Marine Information System <http://amis.nprb.org/> -- “new web-based integrative information system commissioned by the North Pacific Research Board.
- Alaska’s Cooperatively Implemented Information Management System <http://info.dec.state.ak.us/ciimms/> -- site down - a web-based tool that helps users find and share geographic information.

GENERAL/NON-GIS DATA

Websites with data or metadata relevant to arctic research; although the data available through these websites may not be in GIS format, the data may be useful to GIS/GII development.

- ARCSS Data Coordination Center <http://arcss.colorado.edu/> -- Data repository for NSF-funded Arctic System Science (ARCSS) data
- Arctic Coastal Dynamics (ACD) <http://www.awi-potsdam.de/acd/> -- Access results, metadata, publications and other products of the Arctic Coastal Dynamics program
- Circumpolar Active Layer Monitoring (CALM) <http://www.udel.edu/Geography/calm/> -- Homepage of CALM, with links to site data and downloads
- Global Geocryological Data System <http://insidc.org/data/fgdc.html> -- Access the internationally distributed system of frozen ground metadata and data
- Joint Office for Science Support/UCAR <http://www.joss.ucar.edu/> -- Search for archived geophysical data through the CODIAC data management system
- Paleoenvironmental Atlas of Beringia -- <http://www.ncdc.noaa.gov/paleo/parcs/atlas/beringia/index.html> Paleoenvironmental data for Beringia, including data resources related to microfossil research and paleoclimate studies
- National Snow and Ice Data Center <http://insidc.org/> -- Search or browse hundreds of datasets related to cryospheric research
- PANGAEA -- <http://www.pangaea.de/Info/> Library of data focused on environmental, marine, and geological research; includes Arctic Coastal Dynamics (ACD) data
- Unaami Data Collection <http://www.unaami.noaa.gov/index.html> -- Collection of Arctic environmental variables from 1970 to present; connected to the Study of Environmental Arctic Change (SEARCH)
- +VECO Polar Resources <http://www.vecopolar.com/MapReport.aspx?P=5D9773E3F32B4A209FB01AC7C1331560> -- Download maps showing locations of NSF-sponsored research for Alaska and the circumarctic. Derived GIS potential