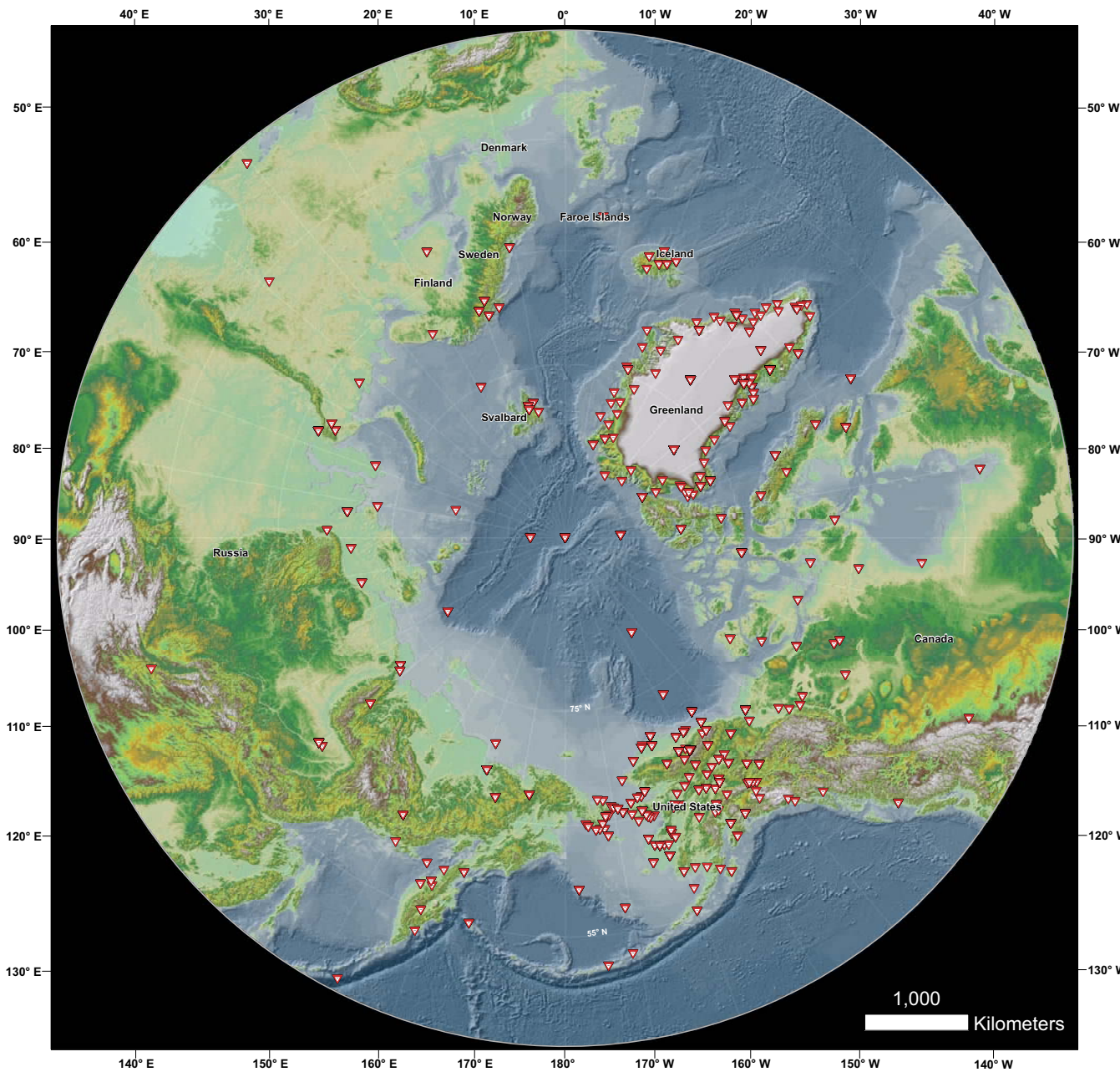


National Science Foundation (NSF) Funded International Polar Year (IPY) Research Sites for the Arctic: 2007 - 2009

This map was created for logistic purposes for CH2MHill Polar Services to provide support for National Science Foundation (NSF) Office of Polar Programs (OPP) program officers. This map could be used to identify gaps to provide suggestions for NSF funding for the next IPY (2057).

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This map displays research sites funded by the National Science Foundation in the arctic region, which are part of the International Polar Year (IPY) research effort focused on the Arctic and the Antarctic from March 2007 to March 2009. This data layer can be visualized in the Arctic Research Mapping Application (armap.org). The data set includes location and high-level project information provided to CH2MHill Polar Services (www.polar.ch2m.com) by members of the US Interagency Arctic Research & Policy Committee. Information about fieldwork in the Arctic has been provided by the National Science Foundation and CH2MHill compiled the information in the Arctic Research Logistics Support Service (ARLSS) database of scientific field research projects for the Arctic region (45 degrees North Latitude and above). The database encompasses all field research sites supported or coordinated through the Arctic Research Support and Logistics Program at the National Science Foundation (NSF). The majority of the research projects are funded by the Arctic Sciences Section (ARC) within NSF's Office of Polar Programs (OPP). The database does not include modeling projects that do not require field research. Each database record includes: investigator name, project title, year, funding agency, funding program, a link to an award description, and other information. The ARLSS database contains over 8000 sites, and is regularly updated. The database is publicly available in variety of formats to address the needs of different user communities.

The Arctic Research Mapping Application (ARMAP) is a suite of online services to provide support of Arctic science. These services include: a text based online search utility, 2D Internet Map Server (IMS); 3D globes and Open Geospatial Consortium (OGC) Web Map Services (WMS). With ARMAP's 2D maps and 3D globes, users can navigate to areas of interest, view a variety of map layers, and explore U.S. Federally funded research projects. Projects can be queried by location, year, funding program, discipline, and keyword. Links take you to specific information and other web sites associated with a particular research project. ARMAP including US research funded by the National Science Foundation, National Aeronautics and Space Administration, National Oceanic and Atmospheric Administration, and the United States Geological Survey. Avoiding a duplication of effort has been a primary objective of the ARMAP project which incorporates best practices (e.g. Spatial Data Infrastructure and OGC standard web services and metadata) and off the shelf technologies where appropriate. The ARMAP suite provides tools for users of various levels of technical ability to interact with the data by importing the web services directly into their own GIS applications and virtual globes; performing advanced GIS queries; simply printing maps from a set of predefined images in the map gallery; browsing the layers in an IMS; or by choosing to "fly to" sites using a 3D globe. With special emphasis on the International Polar Year (IPY), ARMAP has targeted science planners, scientists, educators, and the general public. In sum, ARMAP goes beyond a simple map display to enable analysis, synthesis, and coordination of Arctic research. ARMAP may be accessed via the gateway web site at <http://www.armap.org>.

Legend

- IPY Funded NSF Research Site
 - Source Data - Arctic Research Logistics Support Service (ARLSS) database of scientific field research projects for the Arctic region (45 degrees North Latitude and above). Sites have been queried out for 2008 - 2011.
- Topography**
 - Value**
 - 7652 m
 - 1 m
- Bathymetry**
 - Value**
 - 11000 m
 - 0 m

- Source Data - Global Digital Elevation Model (ETOPO2) represents gridded 2 minute by 2 minute elevation and bathymetry for the world. These data were derived from the National Geophysical Data Center (NGDC) ETOPO2 Global 2' Elevations data set from September 2001. ESRI Data and Maps version 9.2.

