

Inventory of Data and Information Related to the Groundwater System

CLASSIFICATION	AGENCY OF COLLECTION	DATA SET/ INFORMATION BASE	PURPOSE/ DESCRIPTION	GEOGRAPHICAL DOMAIN	TIME PERIOD	LAST UPDATED	ACCESS TO DATA/INFO (OR KEY CONTACT)
Lake Bathymetry (and St. Lawrence River)	Natural Resources Research Institute, University of Minnesota (funded by U.S. EPA and MN DNR)	Lake Superior Decision Support System Data Sets	Collection of GIS applications and databases, including depth profiles of Lake Superior	Lake Superior basin		18-Jan-02	http://oden.nrri.umn.edu/lsgis/databases.htm
	Environment Canada	Biodiversity Portrait of the St. Lawrence	Consolidation of scientific information and data on the physical and biotic characteristics of the region from the past 3 years.	St. Lawrence River, Canada	2000-2003		http://www.qc.ec.gc.ca/faune/biodiv/en/table_contents.html
	USGS	Southern Lake Michigan and Lake Erie Sonar Side-Scan Survey		Southern Lake Michigan and Erie	1988 to 1993		http://geology.er.usgs.gov/states/midwest.html
	Canadian Hydrographic Service	1:60,000-1:120,00 scale charts	Digital data and electronic navigation charts	Great Lakes?			http://www.chs-shc.dfo-mpo.gc.ca/chs/en/digitaldata/
	NOAA - National Geophysical Data Center	Great Lakes Bathymetry	To the extent possible, NOAA will "rescue" Great Lakes geological and geophysical data and make them readily available to anyone, but especially the communities concerned with Great Lakes science, pollution, coastal erosion, response to climate changes, threats to lake ecosystems, and health of the fishing industry. An important element of this program is the rescue of bathymetric data and the compilation of new bathymetry for the Great Lakes, being carried out cooperatively between NOAA and the Canadian Hydrographic Service. This new bathymetry provides a more detailed portrayal of lakefloor topography, and reveals some lakefloor features seen for the first time.	Great Lakes & Lake St. Clair	? - Present	NA	http://www.ngdc.noaa.gov/mgg/greatlakes/greatlakes.html
Tributary Bathymetry	USGS-UMESC	Long Term Resource Monitoring Program		The Five Upper Mississippi River System states (Illinois, Iowa, Minnesota, Missouri, and Wisconsin).	1987-present	annually	http://www.umesc.usgs.gov/ltrmp.html
Nearshore Bathymetry	USACE-Buffalo District	Lower Great Lakes Erosion Study	Detailed GIS mapping of shoreline type, shore protection and nearshore geology was completed in 2001 for the New York and Pennsylvania shorelines of Lake Erie.	NY and PA shorelines of Lake Erie		2001	http://www.cjscons.com/LGLES/index.html
	NOAA - Coastal Services Center	Great Lakes Shoreline Data	Digital data and information related to shoreline mapping	Great Lakes Shorelines			http://www.csc.noaa.gov/shoreline/data.html
	National Geodetic Survey - Coastal Mapping Program	Vector Shoreline Data	A database of its digital shoreline holdings	Great Lakes Shorelines			http://www.ngs.noaa.gov/RSD/shoredata/NGS_Shoreline_Products.htm

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Sedimentation (lakes, rivers, connecting channels)	Environment Canada	Biodiversity Portrait of the St. Lawrence	Consolidation of scientific information and data on the physical and biotic characteristics of the region from the past 3 years.	St. Lawrence River, Canada	2000-2003		http://www.gc.ec.gc.ca/faune/biodiv/en/table_contents.html
	Michigan DEQ	CLMP	Volunteer eutrophication monitoring of Michigan's inland lakes and streams. Parameters include nitrogen and phosphorous, chlorophyll, sedimentation rates, transparency, dissolved oxygen, fish samples, and water temperature	Michigan inland lakes and streams	1974-present	2002	http://www.mi-water-cmp.org/cooperative_lakes_monitoring_pro1.htm
	NOAA - National Geophysical Data Center	Great Lakes Bathymetry	To the extent possible, NOAA will "rescue" Great Lakes geological and geophysical data and make them readily available to anyone, but especially the communities concerned with Great Lakes science, pollution, coastal erosion, response to climate changes, threats to lake ecosystems, and health of the fishing industry. An important element of this program is the rescue of bathymetric data and the compilation of new bathymetry for the Great Lakes, being carried out cooperatively between NOAA and the Canadian Hydrographic Service. This new bathymetry provides a more detailed portrayal of lakefloor topography, and reveals some lakefloor features seen for the first time.	Great Lakes & Lake St. Clair	? - Present	NA	http://www.ngdc.noaa.gov/mgg/greatlakes/greatlakes.html
	USACE, Detroit District	Great Lakes Regional Sediment Management (GLRSM)	This project will develop a compilation of sediment budgets, computation of longshore transport rates, and comprehensive geographic information systems and data populations.	Southeast Lake Michigan region			http://www.lre.usace.army.mil/index.cfm?chn_id=1133

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Bedrock	Environment Canada	Biodiversity Portrait of the St. Lawrence	Consolidation of scientific information and data on the physical and biotic characteristics of the region from the past 3 years.	St. Lawrence River, Canada	2000-2003		http://www.qc.ec.gc.ca/faune/biodiv/en/table_contents.html
	USACE-Buffalo District	Lower Great Lakes Erosion Study	Detailed GIS mapping of shoreline type, shore protection and nearshore geology was completed in 2001 for the New York and Pennsylvania shorelines of Lake Erie.	NY and PA shorelines of Lake Erie		2001	http://www.ciscons.com/LGLES/index.html
	Natural Resources Canada - Terrain Sciences Division (Geological Survey of Canada)	Bedrock Geological Map of Canada	Digital version of Map 1860A. It also contains a complete bilingual GIS spatial database from which a variety of thematic geological maps can be created. Map 1860A is just one of those themes.	Canada	1996	1996	Order from Geological Survey of Canada Bookstore
	Natural Resources Canada - Terrain Sciences Division (Geological Survey of Canada)	GeoServ - Interactive geoscience maps	GeoServ provides access to key geoscience data in the form of dynamic maps and associated databases	Canada			http://sts.gsc.nrcan.gc.ca/clf/geoserv.asp
	USGS Central Great Lakes Geologic Mapping Coalition	3-D maps of unconsolidated glacial materials in Illinois, Indiana, Michigan, and Ohio	3-D digital maps so that it is possible to view the vertical layering of materials. Information will be stored in a database that allows users to manipulate maps.	Illinois, Indiana, Michigan, and Ohio			Jim McNeal, Program Director (jmcneal@usgs.gov)
	Ontario Ministry of Northern Development and Mines - Mines and Mineral Division (Ontario Geological Survey)	Maps of surficial and glacial deposits of the province at a scale of 1:50,000	Raster files of all OGS maps can be downloaded free of charge from the Publication Database found through the Earth Resources and Minerals Exploration Web Site.	Ontario			http://www.ermes.mndm.gov.on.ca/scripts/default.asp
	Ohio Department of Natural Resources	Statewide Aquifer Mapping Project (SAMP)	Aquifer delineations were completed at a scale of 1:24,000, using standard USGS 7.5 minute quadrangles as a base. As with the bedrock aquifer maps, the draft unconsolidated aquifer maps are constructed on a standard 7.5 minute USGS quadrangle base. Data sources include maps, reports, and drilling logs from a variety of public and private organizations.	Ohio	1997-2000	2005	http://www.dnr.state.oh.us/water/samp/
	USGS National Geologic Map Database	STATEMAP, EDMAP, and FEDMAP Geologic Maps	A searchable catalog of simple metadata for paper and digital maps	United States (state-by-state)			http://ngmdb.usgs.gov/ngmdb/ngm_catalog.ora.html

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Soil Type	USDA - Natural Resources Conservation Service	NASIS	Soil Drange Classes and extent. Hydric soil areas. Runoff. Soil Moisture	99% U.S. counties	1960 to 2002		NRCS Field and State Offices
	Natural Resources Canada - Terrain Sciences Division (Geological Survey of Canada)	Surficial Materials Geological Map of Canada	The digital map data consist of geology, landforms, and hydrography on separate layers in .DXF, .MIF, or .E00 formats, and accompanying metadata. The metadata include the bibliographic file (OF 3046) containing references to the published maps that were used in the compilation of 1880A. The map shows the distribution of surficial materials in Canada, on land and in extensive offshore areas, at 1 : 5 000 000 scale. It portrays broad genetic categories of surface materials (alluvial, lacustrine, marine, glacial) and bedrock.	Canada	1990-1994	1994	http://sts.gsc.nrcan.gc.ca/clf/digitalrelease.asp
	Agriculture and Agri-Food Canada	Canadian Soil Information System	Contains data and information related to the National Soil DataBase, National Ecological Framework, Soil Map of Canada/Land Potential DataBase, Agroecological Resource Areas, Soil Landscapes of Canada, Canada Land Inventory, Detailed Soil Surveys, and information from other agencies.	Canada			http://sis.agr.gc.ca/cansis/intro.html
	USDA National SSURGO Database	SSURGO Database	Soil surveys, which may consist of a county, multiple counties, or parts of multiple counties	United States (state-by-state)			http://www.ftw.nrcs.usda.gov/ssur_ftp.html
	USDA National STATSGO Database	STATSGO Database	State general soil maps made by generalizing the detailed soil survey data. The level of mapping is designed to be used for broad planning and management uses covering state, regional, and multi-state areas. STATSGO data are designed for use in a Geographic Information System (GIS).	United States (state-by-state)			http://www.ftw.nrcs.usda.gov/stat_data.html
	Natural Resources Research Institute, Univeristy of Minnesota (funded by U.S. EPA and MN DNR)	Lake Superior Decision Support System Data Sets	Collection of GIS applications and databases, including dominant soil drainage types for the Lake Superior basin. Scale is 1:250,000	Lake Superior basin: MN,WI, MI, ONT		18-Jan-02	http://oden.nrrri.umn.edu/lsgis/databases.htm
	Ontario Ministry of Agriculture, Food, and Rural Affairs	Seamless geospatial soils database for Ontario	Consolidation of existing digital soil mapping that exists individually on a county basis.	Ontario			Ontario Ministry of Agriculture, Food, and Rural Affairs

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	Indiana Geological Survey	Lake Rim GIS Repository (Soil sampling sites)	Collection of environmental GIS data for the state of Indiana.	Indiana	? - Present	Continuously	http://igs.indiana.edu/arcims/lrim/index.html

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Elevation (relief, topography)	USGS	Digital Elevation Models, Digital Line Graphs, Digital Raster Graphics, Digital Orthophoto Quads, National Aerial Photography Program	Collection of digital elevation data	United States (state-by-state)			http://mcmcweb.er.usgs.gov/status/dem_stat.html
	USGS - National Elevation Dataset	National elevation data	NED is designed to provide National elevation data in a seamless form with a consistent datum, elevation unit, and projection.	United States (state-by-state)			http://edcnts12.cr.usgs.gov/ned/default.asp
	Indiana Geological Survey	Lake Rim GIS Repository (Elevation Contours)	Collection of environmental GIS data for the state of Indiana.	Indiana	? - Present	Continuously	http://igs.indiana.edu/arcims/lrim/index.html
	Natural Resources Research Institute, University of Minnesota (funded by U.S. EPA and MN DNR)	Lake Superior Decision Support System Data Sets	Collection of GIS applications and databases, includes digital elevation model 3 arc second. Resolution to 1 km.	Lake Superior basin		18-Jan-02	http://oden.nrri.umn.edu/lsgis/databases.htm
	Ontario Ministry of Northern Development and Mines & Canada Centre for Remote Sensing	Northern Ontario Engineering Geology Terrain Studies (NOEGTS) maps - 1:100,000 scale	NOEGTS maps provide useful information concerning the landscape for forest management, mineral exploration and civil engineering undertakings. Over the past few years, methods for creating or predicting landform, topography (relief) and drainage condition components of the NOEGTS legend have been developed.	Canadian Shield			Ontario Ministry of Northern Development and Mines
	USGS - Great Lakes Assessment Project	Digital Elevation Models (1:250,000 scale)	Collection of digital elevation data	Michigan, Minnesota, Wisconsin			http://www.umesc.usgs.gov/umesc_spatial/projects/gr_lakes_assessment/ufsfs_page.html

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