Mapping Metadata:
Science in the Great Lakes (SiGL) Mapper

A tool for exploring and cataloging Great Lakes science and research

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SiGL is a searchable metadata mapper that spatially displays information about scientific research and monitoring efforts throughout the Great Lakes basin.

[wim.usgs.gov/SiGL]
Purpose of the SiGL Mapper

- Supports strategic Great Lakes data collection and analysis
- Captures and displays spatial data component
- Built for both large and small datasets
- Integrate with other Great Lakes data applications
- Provides flexible product that can accommodate the community’s changing needs
  - 288 projects and 11,000 sites
  - 65 different Federal and State agencies, municipalities, Tribes, universities, and nonprofit organizations
Data vs. Metadata

Your science produces **data**: measurements, values, statistics, observations, results, analysis, etc.

SiGL collects **metadata**: information about your data

- **Project information**
  - Who, what, where, when, why?
  - Contact/PI details
  - Publications

- **Data information**
  - Sources (what data exists and where it’s stored)
  - Site information (what, where, when, and how data was collected)
Development goals

• Make SiGL Data Management System (DMS) easier to use
  – Incorporated spreadsheet-mode editing
  – Increased account security

• Store and display line and polygon spatial data (not just points)

• Improve mapper interface
  – Better access to projects without sites
  – Streamlined search and results view

• STORET integration
LMMCC inventory integration

- 2013 and 2015 LMMCC inventory projects now in SiGL
  - 156 projects, most without sites
- LMMCC inventory will be now be managed through SiGL DMS
  - What additional functionality does LMMCC need from SiGL?
- Added “Monitoring coordination” field to mapper and DMS
  - Tag and search for projects associated with LMMCC
Find LMMCC sites

NEW monitoring coordination field
Tag your project with LMMCC

NEW monitoring coordination field
What happens now?

• Existing users will receive their DMS account information and a user guide
  – May need to delete duplicate projects or reassign to new data managers
• Update your project information
• Attach sites if possible
  – Enter sites one by one
  – Or use excel worksheet and copy/paste into DMS
• Identify and scope any additional LMMCC needs
wim.usgs.gov/sigl

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