

FY 2010 NGGDPP Final Report

Award Number: G10AP00124

Name of the State Geological Survey: Indiana Geological Survey

Project Title: Indiana Data Preservation Program 2010

Principal Investigator(s): Richard Hill
Indiana Geological Survey/Indiana University
611 North Walnut Grove Avenue
Bloomington, IN 47405
Phone: 812.855.9583
FAX: 812.855.2862
E-mail: hill2@indiana.edu

Legal Applicant: The Trustees of Indiana University
PO Box 1847
Bloomington IN 47402-1847

FEIN: 35-6001673

Applicant Institution: (*Address for all Correspondence*) Indiana University
P.O. Box 1847
Bloomington, IN 47402-1847
Phone: 812.855.0516
Fax: 812.855.9943
rugs@indiana.edu

Term: 07/01/2010 through 07/31/2011

Submittal Date: 09/21/2011

Abstract

The Indiana Geological Survey (IGS) proposed during the performance year, July 1, 2010, to June 30, 2011, to continue a multifaceted effort to create metadata for many of its data sets, some of which were previously begun under the U.S. Geological Survey National Geological and Geophysical Data Preservation Program (NGGDPP) financial assistance program last year (FY2009).

In 2010, the IGS completed the crushed materials collections inventory; inventoried the paper, film, and linen geologic maps, illustrations, and figures in its Cartographic office; and implemented the inventory tracking system. These efforts involved working closely with staff members in the Geochemistry Section of the IGS. We inventoried and cataloged collections and corresponding data in the Materials Testing Building and the IGS Main Building. These efforts produced inventory records that will be entered into the USGS National Digital Catalog and internal inventories of the IGS data to provide greater access to and an enhanced understanding of the materials held in the collections.

Project priorities for the creation of metadata for individual items in those data collections follow:

1. Crushed materials collections in the IGS Main Building basement and Materials Testing Facility (inventory collection);
2. Cartographic geologic maps, illustrations, and figures inventory (inventory collection);
3. Inventory tracking system (inventory collection).

Data Preservation

Task 1) Crushed Materials Collections in the IGS Main Building basement and Materials Testing Facility (create metadata)

All physical geochemistry samples were inventoried during this grant period. The samples were clearly defined into two distinct collections by sample type. The chip samples are stored at the Materials Testing Facility in 4-ounce jars stored in core boxes. The samples have been organized primarily by chronology and secondarily by collector. The powder samples are stored in the basement of the Main IGS Building in 1-ounce jars in museum ranges. These samples are arranged by collector and then chronology. Working with a preexisting rudimentary system, we decided to use different storage criteria for the two collections and use the Material Process Flow System to locate individual samples in the future.

There were approximately 26,382 samples located at the Materials Testing Facility. Karen Like and an hourly employee reviewed each sample, organized the chip samples into 4-ounce jars, sorted out duplicates, and removed powder samples to be moved to another storage location. All remaining samples were placed into core boxes. The collection currently contains 9,580 samples in 437 core boxes.

The geochemistry powder collection contains 36,150 physical samples. Samples were consolidated from three locations, duplicates removed, and transferred into 1-ounce flint jars or dram vials.

The original proposal stated that analysis results would be processed for the physical samples. Because of a reduction in force the IGS geochemistry section was dissolved in 2010. Work effort was spent on thoroughly organizing the physical samples; the 2011 grant period will attempt to process analysis information corresponding to the samples.

The primary identification number and physical location of the samples were loaded into the Material Process Flow System.

Task 2) Cartographic geologic maps, illustrations, and figures inventory (create metadata)

The Graphics and Cartography Group stores the primary hard copy archives for the IGS, including geological maps, illustrations, and figures. These products comprise paper materials, linen materials, scribe-sheet films, and negative and positive films. A thorough inventory and reorganization of these materials was accomplished during this grant period. Exiting staff having over 50 years of experience completed the inventory to create an organized and documented collection for the new staff. The approximately 200-item inventory is being evaluated for formatting before being placed in the Material Process Flow System.

Task 3) Implement inventory tracking system (create metadata)

The IGS Material Process Flow System is being used to process and store all the new inventory information collected for the NGGDPP. The system contains an electronic inventory database (Inventory Tracking System), which was built using a SharePoint front end and Microsoft Access database for data storage. Owing to IGS internal hardware constraints, the servers used for SharePoint were repurposed for other grants and projects. The database is still being maintained and populated with inventory data; however, the front end will be rebuilt later in 2011 by Paul Rohwer, IGS database administrator/system programmer using Microsoft Access. The user front end is the key to using a handheld device to update location information in the field, as well as retrieval of information by the end-user.