

NATIONAL GEOSPATIAL DIGITAL ARCHIVE (NGDA)

Presentation to ALA MAGERT GIS Discussion Group and GeoTech Committee

Monday, June 25, 2007

<http://www.ngda.org>

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I. Objectives of the project:

- Create a new national federated network committed to archiving geospatial imagery and data.
- Investigate the proper and optimal roles of such a federated archive, with consideration of distant (dark) backup and migration, directly serving content to users, vs. referring requestors back to the originators of the data for copies or assistance, active or passive quality/integrity monitoring, application of metadata, federated searching, dissemination of metadata, etc.
- Collect and archive major segments of at-risk digital geospatial data and images.
- Develop best practices for the presentation of archived digital geospatial data.
- Develop partner communication mechanisms for the project and then ongoing.
- Develop a series of policy agreements governing retention, rights management, obligations of partners, interoperability of systems, and exchange of digital objects.

II. Technical architecture

III. Format registry

Purpose: create a registry of digital formats, used by ingested collections, for storing/communicating digital geospatial data; then populate it; use Wiki; interested experts to vet format documents

IV. Interface for NGDA: beta NGDA interface is at <http://clients.alexandria.ucsb.edu/ngda/> . Alexandria Digital Library Webclient interface is at <http://webclient.alexandria.ucsb.edu> .



The National Geospatial Digital Archive

A Collaborative Initiative of The Library of Congress
The University of California at Santa Barbara,
Stanford University, University of Tennessee, and Vanderbilt University

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- >PARTICIPANTS
- >MEETINGS
- >CONTACT NGDA

NGDA

- Technical Architecture
- Format Registry
- Collection Development
- Rights & Responsibilities

From the first colonial maps to 21st century, cartographic information has helped define and frame our view of the United States. Geospatial imagery is now a critical tool for state and federal researchers pursuing greater understandings of complex matters including: Disaster Relief, Census Data, and Land Use Management.

Recent NGDA Developments

Concerned that millions of nationally important digital information resources are in danger of being lost or corrupted, the Library of Congress has formed The National Digital Information Infrastructure and Preservation Program (NDIIPP).

NGDA Interface (Beta)



As partners in the project the university libraries of UCSB and Stanford are leading the formation of the National Geospatial Digital Archive (NGDA), a collecting network for the archiving of geospatial images and data. They have partnered with eight institutions to begin a three year, \$15 million effort to begin construction of a nationwide digital collection and preservation system.

NGDA Interface Information



- The objectives of the project are to:
- Create a new national federated network committed to archiving geospatial imagery and data.
 - Investigate the proper and optimal roles of such a federated network with consideration of digital data backup and migration, digital preservation...

Who are you looking for?
Type your queries below. For best results use...
Search

Sample questions

You may also want to...

Search

Main Page - FormatRegistry - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites RSS Print Mail Stop

Address http://ngda.library.ucsb.edu/format/index.php/Main_Page Go Links

Search X 11 Log in / create account

NGDA
Format Registry

Who are you looking for?
Type your questions below for best results

PI ea se
Sample questions

You may also want to...

ch

navigation

- Home
- The Process
- NGDA Home

format registry

- Browse the Wiki
- Browse the Archive
- Search the Archive

wiki

- Recent changes
- Random page
- Help

search

Search

toolbox

- What links here
- Related changes
- Upload file
- Special pages
- Printable version
- Permanent link

article discussion edit history

Main Page

This website is currently in Beta

The Format Registry Wiki is a community discussion forum for experts who understand the issues associated with long term preservation and access to digital geospatial data. Members discuss and refine documentation of geospatial data formats in order to ensure that each format has a comprehensive and reconstructible record prior to being ingested into the NGDA Format Registry. This Wiki is an integral part of the NGDA mission and it requires participation from community members who want to preserve geospatial data for future generations.

Anyone is welcome to browse the Wiki, but if you consider yourself to have expert knowledge of geospatial data formats please be an active participant; we need and value your input to the community. Please [email the administrator](#) to request a user account.

Contributing Editors should be sure to visit [The Process](#) to understand how this community operates and how the Wiki feeds in to the Format Registry.

Accessed 984 times. Last Modified 18:23, 8 May 2007. Licensed Under Attribution 2.5 Privacy policy Disclaimers

Done Internet

start Larsgaard, Mary L. - ... Inbox for mary@libra... Main Page - FormatR... NGDA PRESENTATIO... Document2 - Microso... 9:31 AM

NGDA Browser - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop

Address <http://clients.alexandria.ucsb.edu/ngda/> Go Links

Search X

Who are you looking for?

Type your queries below For best results use

Please

Sample queries

You may also want to...

ch

16	0
15	0
14	0
13	0
12	0
11	0
10	0
09	0
08	0
07	0
06	0
05	8
04	40
03	97
-	

maps:

- drq_24k_ca

air photos:

- doqq_bw_ca
- doqq_cir_ca
- doqq_geotiff_ca
- apframes

satellite images:

- landsat mosaic

National Geospatial Digital Archive [help](#)

Santa Barbara, CA

find address

change opacity

change size

North Atlantic

Done Internet

start | Larsgaard, Mary L. - ... | casil for mary@library... | 6 Microsoft Office ... | 3 Internet Explorer | 10:38 AM

Search X

Who are you looking for?
Type your queries below. For best results use:
Please
Sample queries
You may also want to...

HELP

CATALOG SEARCH

1. Collection to search
Digital Data Libraries

Browse the **selected collection** or **all collections**.

2. Constraints
If multiple constraints are specified, they should be...

ANDed together
 ORed together

Geographic region
Use the map to the right to set the geographic extent of the search, or directly enter bounding coordinates below.

N
54.876606
W -152.2265 -41.83593 E
18.646245
S

Select items that...

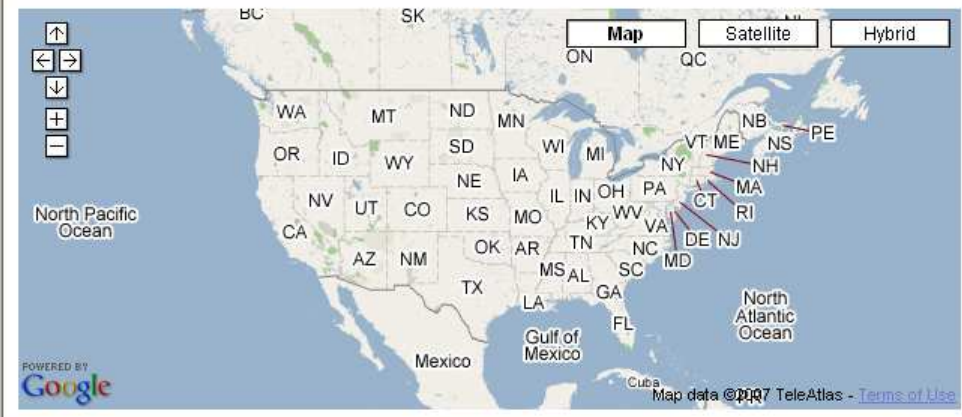
are Inside...
 Overlap...
 Contain...
 are Excluded from... the above geographic region.

Time period Any time period

Jan 01 1830
to
Dec 31 2007

Select items that...

are Inside...



DRG o34119d7, Digital Raster Graphic of GOLETA, CA

Date: 1988.
ADL identifier: drg_24k_ca:o34119d7.

- [HIGHLIGHT IN MAP](#)
- [BROWSE GRAPHIC](#)
- [CATALOG RECORD](#)
- [ACCESS INFORMATION](#)

- Downloadable Resources
- Download
- Multipart Download: georeferenced TIFF image
- [TIFF image via http](#) (TIFF; 19 megabytes)
 - [world file via http](#) (ESRI world file; 1 kilobytes)
 - [projection info via http](#) (ESRI projection file; 1 kilobytes)
- Multipart Download: Georeferenced MrSID
- [MrSID image file via http](#) (MrSID; 10 megabytes)
 - [world file via http](#) (ESRI world file; 1 kilobytes)
 - [projection info via http](#) (ESRI projection file; 1 kilobytes)



3.75-MIN DIGITAL OQ B/W of GOLETA, CA

Date: 1996-05-08.
ADL identifier: doqq_bw_ca:O3411934.NES.955012.

- [HIGHLIGHT IN MAP](#)
- [BROWSE GRAPHIC](#)

- Downloadable Resources
- Download or Offline Reference for 3.75-MIN DIGITAL OQ B/W

Overview

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Quick Start:

In general, follow these steps to find a particular item or set of items.

- 1) **Select the collection** that you wish to search (from the lower left hand corner).
- 2) **Position the map** so that the area you wish to search is visible within the browser. You can use the zoom level chooser, the address locator, and/or drag either the main atlas or the overview map (in the lower right corner) to position the map.
- 3) Once items are visible, you can **adjust the size or opacity** of the thumb images if necessary (this is usually only necessary for non-tiling collections such as the "apframes" collection).
- 4) **Click on a thumb image** to bring up a larger browse image that also indicates the title of the item, and includes a button (marked "show") to display download and catalog information.
- 5) Pressing the "show" button will allow you to **choose a file for download**.

... The NGDA Collection Browser is a geospatial search engine for the collections of air photography, maps, and satellite imagery held at UCSB's Map and Imagery Laboratory.

- 1) The only way to search the collections is by location, either by dragging and zooming the map, or via the address finder toolbar.
- 2) Only one collection may be searched at once (although it is easy to switch collections).
- 3) Items are only visible when they fit on the screen, that is, are neither too small or too big to view.

On the other hand, after a few minutes of adjusting we hope that it is apparent that the ease of use of this interface should make up for those limitations, at least for most searches. Also be aware that, because of the number of images loading simultaneously, the browser can take up a significant amount of memory. So it is recommended that the user has a relatively fast computer and a fast internet connection. If necessary, the previous interface is still available and supported and can be found at <http://webclient.alexandria.ucsb.edu>. Also, if you are interested in creating your own interface based on the ADL middleware, please email NGDA collection manager Greg Hajic at hajic@library.ucsb.edu.

For questions, comments, or bugs dealing in particular with this *interface* (as opposed to the actual collections) please email the NGDA interface designer Angus Forbes at forbes@library.ucsb.edu.

Examples

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Example Search 1:

Howard, a map enthusiast, is interested in browsing the Landsat satellite imagery. He clicks on "landsat mosaic" (currently our only satellite imagery collection) and sees a number of images appear He uses the overview map in the right hand corner to drag more quickly over China. In the upper left hand corner, a zoom widget shows that there are 49 images available at this zoom-level (level 04), and 12 images available by zooming in to level 05. Because it would be too pixelated to see the thumbnails clearly, no images are available when zooming-in past level 05. Howard can click on any of the items to see a better resolution image of that item. Additionally, information becomes available as to the title of that item, how to download the archived version of the item, and how to view the complete metadata

