



Geospatial Platform / CKAN Publisher Webinar

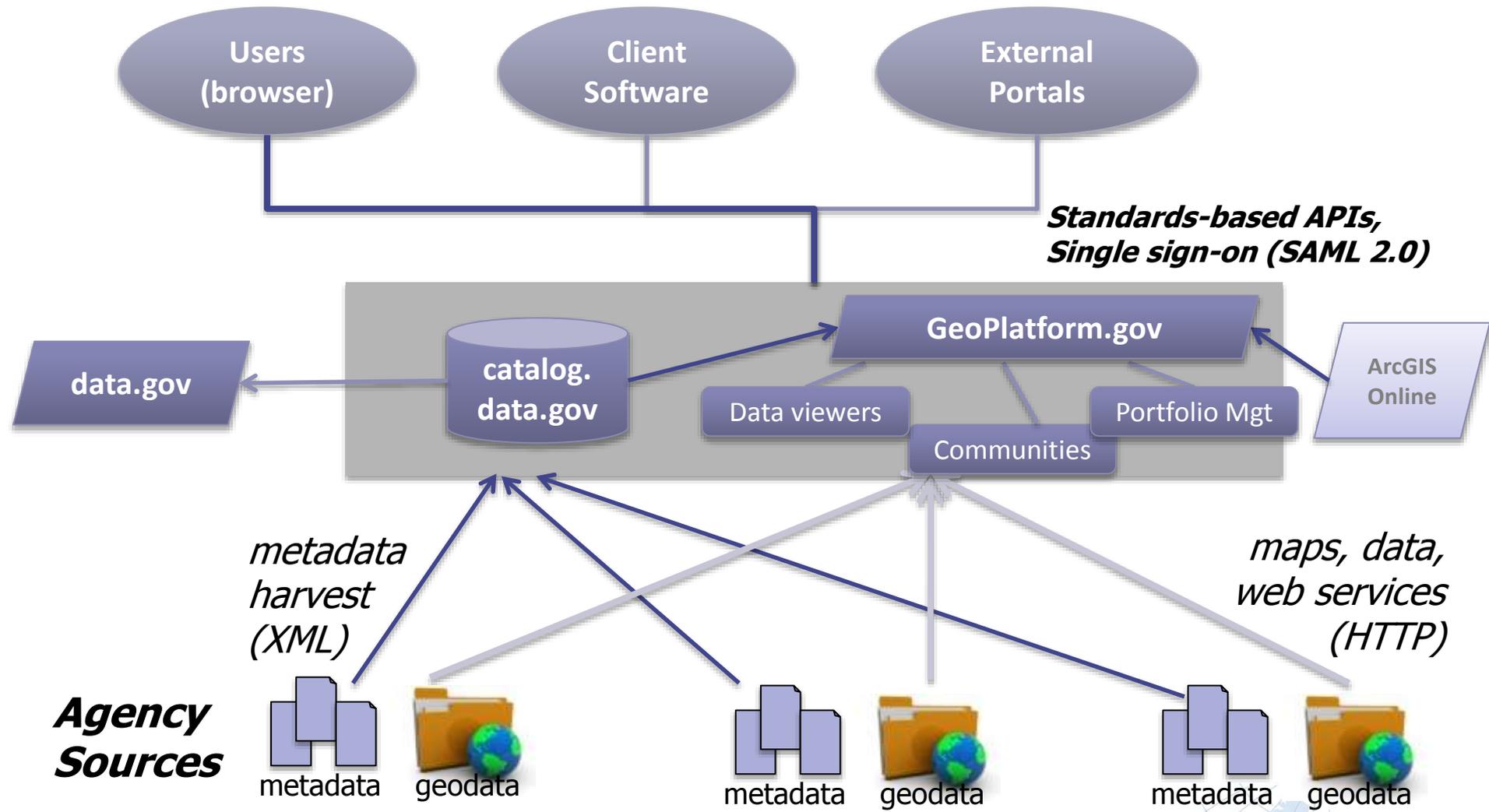
25 July 2013

Geoplatform.gov 2.0

◆ Goals:

- Facilitate the **use** of geospatial data and tools – links to data, services, and apps
- Search/Catalog shared with ***data.gov***
- Focus on NGDAs / A-16 data
- Focus on non-experts / decision makers
- Content organized by Communities
 - ◆ A-16 Theme Communities
 - ◆ Cross-Agency Collaboration Communities
 - ◆ Agency “storefront” Communities

Geospatial Platform architecture



Current approach

- ◆ The Geospatial Platform environment is a successor to the GOS and geo.data.gov solutions, harvesting from federal, state, local, academic, and tribal sources
- ◆ We seek to provide a customized index and visualization environment for government data in collaboration with data.gov
- ◆ Online data, services, and apps are the desired resource types, described in metadata



Features of the new environment

- ◆ New common catalog.data.gov search engine(CKAN) shared with data.gov
- ◆ Geospatial metadata provided by agencies in public Web folders or via OGC CSW protocol
- ◆ Format of metadata as FGDC (CSDGM) or ISO 19115/19139 in XML format
- ◆ Metadata collections are registered and harvested to refresh the index at catalog.data.gov
- ◆ Links in metadata point to download, Web services, or other access URL
- ◆ Links to map services are launched in a map viewer; KML and GeoRSS will be supported in the future

Geoplatform.gov (National geoportal)

Collaborate

Discover

Share



Go to Advanced Search

Type a search term above to search the content of the site. For a more specific search, click on "Go to Advanced Search".

Explorer

Look at popular datasets and find out what can be done with various datasets. If you're looking for a specific dataset either use the search feature or browse datasets by category.



Recent Data Updates

National Wetland Inventory

USFWS Annual Update Registered and Published; Added to Environmental,

Developer

Find resources to develop your own datasets, resources on data formats, and find examples of what others have done and how they've done it.



Social Media

Twitter

MapGuy: *Waiting the see the updated #geoplatform at the #FedGIS.* 9:29am

Publisher

Upload and register your datasets here to share with other FGDC members and agencies. You retain ownership of all datasets you publish to the Geoplatform, but others can use your data.



News

America's Great Outdoors Community Established

GSA Explores Facilities Management

CKAN open source catalog software

 **DATA.GOV** / GEOSPATIAL DATA BETA Login

HOME ABOUT DATA METRICS OPEN GOVERNMENT BLOGS COMMUNITIES

Home Datasets Organizations

🏠 / Datasets

To find datasets, enter your search terms in the search box below or browse through the categories on the left. As you browse, you will be refining and narrowing your search. To broaden your search again, click on the "clear all" link at the top of any category or on the "X" to the right of any single term.

Organizations Clear All

- National Oceanic an... (7101)
- U.S. Geological Sur... (2877)
- National Park Servi... (1996)
- National Aeronautic... (1316)
- Cornell University (304)
- Arizona Geological ... (258)
- University of Calif... (236)
- Coeur d'Alene Tribe (167)
- University of Idaho (155)
- Center for Internat... (128)
- Show More Organizations

15,485 datasets found for "water"

Order by:

Waters Map

Percent of streams in source protection areas that are intermittent, ephemeral, or headwaters

web map application

Private Water Districts

Private Water District boundaries are areas where private contracts provide water to the district in California. This database is designed as a regions polygon database and is...

ZIP

search

Tags

Clear All

United States (122)

US (122)

U.S. (122)

Alaska (122)

AK (122)

Aleutians West Cens... (26)

Lake and Peninsula ... (18)

Aleutians East Borough (17)

Kodiak Island Borough (15)

Skagway-Hoonah-Ango... (14)

Show More Tags

Organizations

Clear All

U.S. Geological Sur... (122)

Show More Organizations

Formats

Clear All

122 datasets

Order by: Relevance

None: U.S. Geological Survey Earth Resources Observation and Science (EROS) Center

(pointOfContact) x Tags: AK x

Shuttle Radar Topograp

The Shuttle Radar Topograph
Agency (NGA). Flown aboard

Shuttle Radar Topograp

The Shuttle Radar Topograph
Agency (NGA). Flown aboard

Shuttle Radar Topograp

The Shuttle Radar Topograph
Agency (NGA). Flown aboard

Shuttle Radar Topography Mission: SRTM1N51W177

The Shuttle Radar Topography Mission (SRTM) is a partnership between NASA and the National Geospatial-Intelligence Agency (NGA). Flown aboard the NASA Space Shuttle Endeavour...

Shuttle Radar Topography Mission: SRTM1N51W178

The Shuttle Radar Topography Mission (SRTM) is a partnership between NASA and the National Geospatial-Intelligence Agency (NGA). Flown aboard the NASA Space Shuttle Endeavour...

Search facets provide instantaneous combination search filtering on multiple filters as selected by users on the left. This example is of USGS source in Alaska. This is a sort of browse that facilitates data exploration. We plan to populate these search facets based on controlled vocabularies on the processed metadata, such as ISO Topic Category, A-16 theme, agency, resource type, and geographic extent.

The National Map - National Land Cover Database (NLCD) WMS

The National Land Cover Database (NLCD) 2001 was produced through a cooperative project conducted by the Multi-Resolution Land Characteristics (MRLC) Consortium. The MRLC Consortium is a partnership of Federal agencies (www.mrlc.gov), consisting of the U.S. Geological Survey (USGS), the National Oceanic and Atmospheric Administration (NOAA), the U.S. Environmental Protection Agency (EPA), the U.S. Department of Agriculture (USDA), the U.S. Forest Service (USFS), the National Park Service (NPS), the U.S. Fish and Wildlife Service (FWS), the Bureau of Land Management (BLM), and the USDA Natural Resources Conservation Service

When the resource type is determined to be viewable in a map viewer, a viewer will be launched. It is possible to have multiple access methods described and exploited from the metadata.

directed to the NLCD 2001 Land Cover Mapping Team at USGS, EROS Center, Sioux Falls, SD, phone: (605) 594-6151 or e-mail: mrlc@usgs.gov.

Data and Resources

-  **Resource locator**
Resource locator
-  **WMS service**
No description for this resource

Explore Data

Explore Data

Source Metadata

Social

Google+

Twitter

Facebook

Related [Add Related](#)

No apps, ideas, news stories or images have been related to this dataset yet, why not add one now?

+ Add Item

Subscribe

Email

RSS

Trackback URL

http://trackback.com

Dataset extent

OpenLayers viewer

← → ↻ <https://catalog.data.gov/dataset/usgs-2010-gap-landcover/resource/6ef639f9-5b10-4782-a686-aecd80801fba> ☆

eRAS Quicktime webforms ASDI AWS ASDI Dashboard DATA IDM UAT SuperInn WeatherSpark Leave Form OBIS Travel

🏠 / Organizations / State of North Dakota / USGS 2010 GAP Landcover / NDHUB.LANDCLASS_GAP_2010

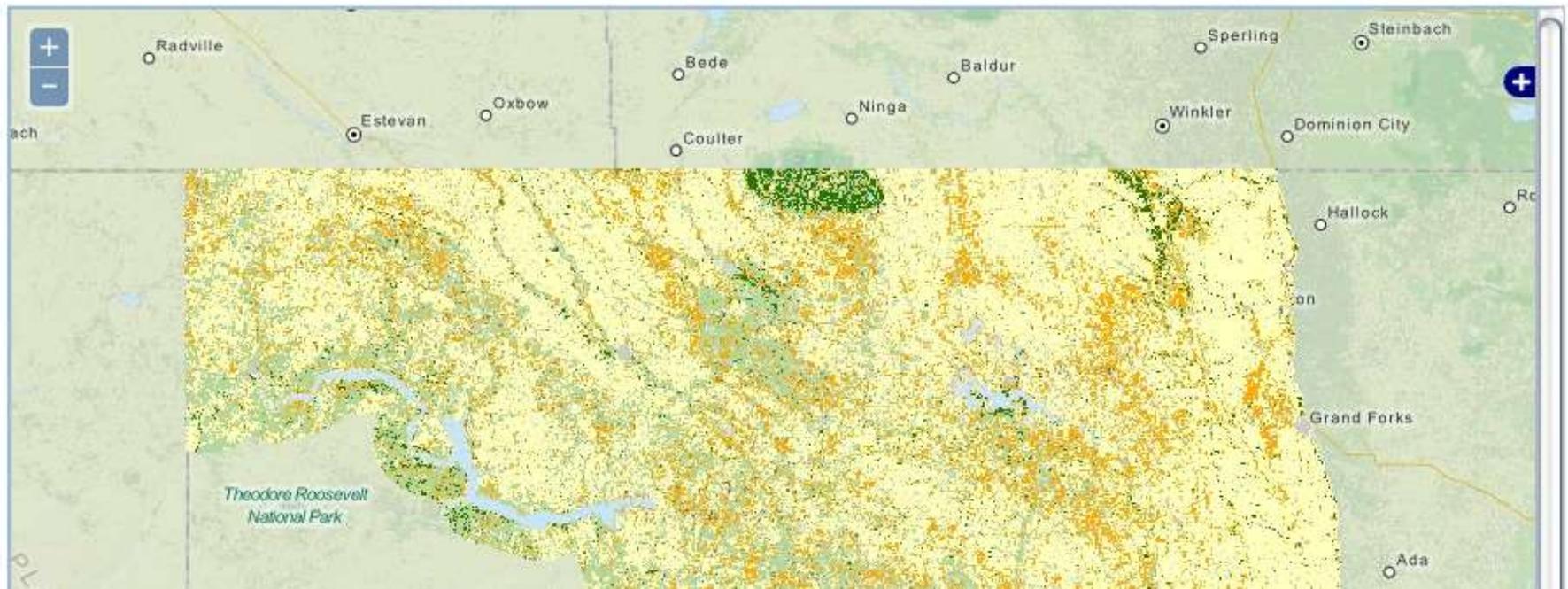
NDHUB.LANDCLASS_GAP_2010

📄 Download

URL: http://ndgishub.nd.gov/arcgis/services/All_LanduseLandcover/MapServer/WMSServer?

USGS 2010 GAP Landcover

🗨️ View in Advanced Viewer



Advanced OpenLayers viewer

Map Viewer

Layers

Legend

NDHUB.LANDCLASS_USFWS_2002

- Clo
- Crc
- Ha
- Intr
- Nal
- No
- Tre
- Urt
- Wa

Feature Information

Field	Value
Value	3
OBJECTID	4
COUNT	22514376
CLASS_NAME	Introduced Vegetation

254.190:8088/viewer/?url=http%3A%2F%2Fndgishub.nd.gov%2Farcgis%2Fservices%2FILL_LanduseLandcover%2FMapServer%2FWMS%2F%3F&serviceType=WMS&mode=advanced

The image shows a screenshot of an OpenLayers map viewer. The main map area displays a land cover map with various colors representing different vegetation types. A popup window titled "Feature Information" is overlaid on the map, showing a table with the following data: Value: 3, OBJECTID: 4, COUNT: 22514376, and CLASS_NAME: Introduced Vegetation. The left sidebar contains a "Layers" panel with a legend for "NDHUB.LANDCLASS_USFWS_2002" and a "Map Viewer" header.

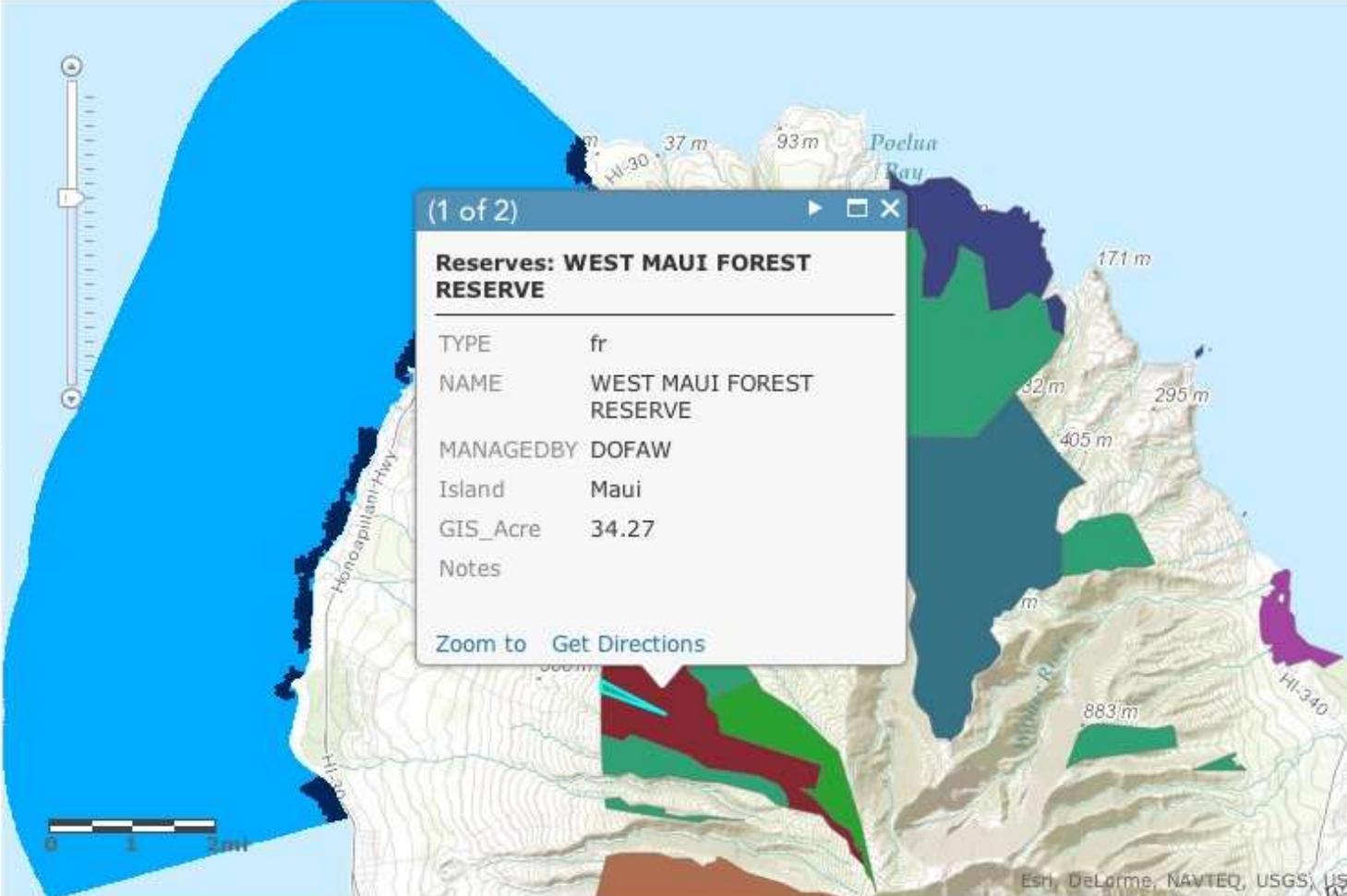
ArcGIS javascript viewer

HOME ▾ West Maui Coastal Uses NEW MAP

Details Add ▾ Basemap Save ▾ Share Print Directions Measure Bookmarks

Contents

- Terrestrial Management - Reserves
- West Maui Coastal Uses
- Topographic



(1 of 2)

Reserves: WEST MAUI FOREST RESERVE

TYPE	fr
NAME	WEST MAUI FOREST RESERVE
MANAGEDBY	DOFAW
Island	Maui
GIS_Acre	34.27
Notes	

[Zoom to](#) [Get Directions](#)

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Publication process

- ◆ FGDC or ISO metadata are prepared by agencies and hosted in a browsable directory (WAF) or in a CSW catalog
- ◆ Publisher registers for Admin access
- ◆ Access request is reviewed and granted
- ◆ Publisher creates “harvest source” descriptions at catalog.data.gov
- ◆ Metadata are periodically harvested

Creating a new Publisher

- ◆ If you have received an email invitation from GSA to reset your password, follow the instructions to activate your account - *former geo.data.gov members*
- ◆ To create a new account and request publisher role go to the URL:
 - <https://idm.data.gov/user/register>

Login screen, create new account

Create new account Log in Request new password

Type Of User *

Publisher



Select 'Publisher' as Type, 'User' has limited access

Display Name *

DHHS-GEO

Business E-mail *

dhhs-geo@hhs.gov

A valid e-mail address. All e-mails from the system will be sent to this address. The e-mail address is not made public and will only be used if you wish to wish to receive certain news or notifications by e-mail.

First Name

Norman

Middle Name

A

Last Name

Bates

Organization Type *

Federal Government

Agency *

Department of Health and Human Services

Centers for Medicare and Medicaid Services

Federal Organization

- None -

Job Title *

Geospatial Admin

Fill in information and then

Create new account

Review and approval

- ◆ Usually within a business day, requests for User or Publisher are reviewed and approved and associated with an Organization (domain)
- ◆ You will get a confirmation email that the account has been approved. This allows access to data.gov, CKAN, GeoPlatform.gov, and our AGOL backend



Login with your credentials

- HOME
- ABOUT ▾
- DATA
- METRICS ▾
- OPEN GOVERNMENT ▾
- BLOGS
- COMMUNITIES ▾

DATA CATALOG

/ Datasets

Note that only datasets marked as "Federal" are subject to the U.S. Federal organizations, and tribal, state, and local governments) maintain their own order to best utilize these datasets. A description of this catalog and information

Filter by location

Enter location... ▾



Map data CC-BY-SA by OpenStreetMap
Tiles by MapQuest

Search datasets...

184,445 datasets

02031_BATHY_5M - during U.S. Geological Survey, September, 2002 (02031)

U.S. Geological Survey, existed for at least several million years. It is a graben, a spoon-shaped

-
-
-
-



USER ACCOUNT

- [Create new account](#)
- [Log in](#)
- [Request new password](#)

E-mail *

Enter your e-mail address.

Password *

Enter the password that accompanies your e-mail.



Profile, Feeds, Settings



Search Data.gov SEARCH

- HOME
- ABOUT
- DATA
- METRICS
- OPEN GOVERNMENT
- BLOGS
- COMMUNITIES

DATA CATALOG

Home / Datasets Add Dataset Organizations Interactive Datasets

Note that only datasets marked as "Federal" are subject to the U.S. Federal Government and Data.gov's Data Policy. Non-federal participants (e.g., universities, organizations, and tribal, state, and local governments) maintain their own data policies. It is important that users understand the data policies of participating entities in order to best utilize these datasets. A description of this catalog and information about the datasets presented and associated metrics is available here

Filter by location Clear

Enter location...

Search datasets...

184,227 datasets found Order by: Relevance

02031_BATHY_5M - 5 meter bathymetric contours derived from data collected during U.S. Geological Survey Geophysical Surveys of Bear Lake, Utah-Idaho, September, 2002 (02031) Federal

U.S. Geological Survey, Department of the Interior — Bear Lake is a tectonic lake that has existed for at least several hundred thousand years. The lake basin is a relatively simple half graben, a spoon-shaped...

- ZIP
- ZIP
- HTML
- HTML
- HTML



Set up a harvest

- ◆ Go to **Organizations** and search for your organization, or use/save pathname based on your domain name,
<https://catalog.data.gov/organization/usgs-gov>
- ◆ Click **Admin** (see/set org details)
- ◆ Click **Harvest Sources**
- ◆ Click **Add Harvest Source** or edit an existing one



Search Data.gov SEARCH

- HOME ABOUT DATA METRICS OPEN GOVERNMENT BLOGS COMMUNITIES

DATA CATALOG

Organizations / U.S. Geological Survey, Department ... / Admin



U.S. Geological Survey, Department of the Interior

http://www.usgs.gov/ read more

- Edit Datasets Members Harvest Sources View organization

Title: U.S. Geological Survey, Department of the Interior

URL: catalog.data.gov/organization/usgs-gov Edit

Description: http://www.usgs.gov/ You can use Markdown formatting here

Image URL: http://pubs.usgs.gov/sir/2004/5296/04-5296_confluence_park/usgs_logo.gif

Custom Field: Key: organization_type Value: Federal Government Remove



Search Data.gov SEARCH

- HOME ABOUT DATA METRICS OPEN GOVERNMENT BLOGS COMMUNITIES

DATA CATALOG

Organizations / U.S. Geological Survey, Department ... / Admin



U.S. Geological Survey, Department of the Interior

http://www.usgs.gov/ read more

- Edit Datasets Members Harvest Sources View organization

16 harvest sources

Add Harvest Source

Search sources...

EarthExplorer

There is no description for this harvest source

Datasets: 0

Frequency Clear All

MANUAL (12)

Show More Frequency

National Atlas of the United States

There is no description for this harvest source

Datasets: 115

Type Clear All

waf (11)

z3950 (3)

National Geologic Map Database

waf-collection (2)

📘 Harvest sources

Harvest sources allow importing remote metadata into this catalog. Remote sources can be other catalogs such as other CKAN instances, CSW servers or Web Accessible Folders (WAF) (depending on the actual harvesters enabled for this instance).

URL:

This should include the http:// part of the URL

Title:

URL: catalog.data.gov/harvest/bison

[Edit](#)

Description: Biodiversity Information Serving Our Nation (BISON) is a product of the U.S. Geological Survey's Core Science Analytics and Synthesis Program. BISON is an information system that allows users to access, explore, and download U.S. species occurrence data from participating data providers.

You can use [Markdown formatting](#) here

- Source type:**
- CSW Server ?
 - Web Accessible Folder (WAF) ?
 - Single spatial metadata document ?
 - Geoportal Server ?
 - Web Accessible Folder (WAF) Homogeneous Collection ?
 - Z39.50 ?
 - ArcGIS REST API ?

Harvest types

- ◆ OGC Catalog Service (CSW 2.0.2) carrying full FGDC or ISO metadata
- ◆ Web Accessible Folder – browse enabled public web folder (looks like ftp)
- ◆ WAF for homogeneous collections
- ◆ Single metadata file as XML (upload)
- ◆ Esri Geoportal Server instance
- ◆ Z39.50 server
- ◆ ArcGIS Online or Portal for ArcGIS



WAF for homogeneous collections

- ◆ A new feature in CKAN is to allow for large homogeneous collections to not clutter initial results (e.g. TIGER, Landsat, bathy surveys)
- ◆ A parent metadata record is identified
- ◆ Resource Description URL contains the location of the WAF in which all child records exist
- ◆ Parent record is returned with initial results, with option for user to continue search on the collection

Update frequency:

Collection Metadata Url:

- Validation:**
- Autodetect
 - ISO 19115 Metadata (ISO 19139 XSD)
 - FGDC Minimal Validation
 - FGDC CSDGM Version 2.0, 1998 (FGDC-STD-001-1998)
 - FGDC CSDGM Biological Data Profile (FGDC-STD-001.1-1999)
 - FGDC CSDGM Metadata Profile for Shoreline Data (FGDC-STD-001.2-2001)
 - FGDC Extensions for Remote Sensing (FGDC-STD-012-2002)

Dataset visibility: ⓘ

Organization:

[Delete](#)

[Save](#)

Validation

- ◆ Metadata are parsed and validated as either CSDGM or ISO. If it passes validation it is imported into the index
- ◆ Options:
 - Auto-detect
 - ISO 19115/19139 from NOAA NGDC
 - CSDGM Minimal validation (Xpath tests)
 - CSDGM Version 2 (1998)
 - CSDGM Biological Data Profile, Shoreline Data Profile, Extensions for Remote Sensing Data

Harvesting

- ◆ Harvests are run on a schedule that you set
- ◆ Only new and updated records are detected in a WAF – if you need to delete then hit **Clear** to purge and fully reload
- ◆ Harvests will be scheduled and should complete within one business day
- ◆ An error report is available

Harvest report

DATA CATALOG

Home / Organizations / U.S. Geological Survey, Department of the Interior / Harvest Sources / U.S. ... / Admin

U.S. Geological Survey

There is no description for this harvest source

Datasets

1082

 Dashboard

 Jobs

 Edit

 Reharvest

 Clear

 View harvest source

Last Harvest Job

11 errors **1083 added** **0 updated** **0 deleted**

Id	a7b0cc4c-b94b-4f0b-9a16-99fdda4c828b
Created	Mar 15, 2013, 14:25
Started	Mar 15, 2013, 15:31
Finished	Mar 15, 2013, 21:57
Status	Finished

 View full job report

Error reporting

Document Errors

Count	Message
10	Transformation to ISO failed
9	The transformation service returned an error for object {0}: [409] net.sf.saxon.trans.XPathException: A sequence of more than one item is not allowed as the first argument of contains() ("USGS Pacific Science Center, S...", "U.S. Geological Survey, Coasta...")
1	The transformation service returned an error for object {0}: [409] net.sf.saxon.trans.XPathException: Cannot convert string to double: "4,700"
1	Point extent defined instead of polygon for object b0b9fe1e-671d-4275-8b42-a5d43346e75c

Error Report

Document Errors 11 documents with errors

114c4840ba70123873b83405f4a7ca2c63ae76d3

Remote content

Local content

Transformation to ISO failed

The transformation service returned an error for object {0}: [409]

net.sf.saxon.trans.XPathException: A sequence of more than one item is not allowed as the first argument of contains() ("USGS Pacific Science Center, S...", "U.S. Geological Survey, Coasta...")

1b372346bbdf9fc3a5b2db7d79aa9e810af4978f

Remote content

Local content

Transformation to ISO failed

The transformation service returned an error for object {0}: [409]

net.sf.saxon.trans.XPathException: A sequence of more than one item is not allowed as the first argument of contains() ("USGS Pacific Science Center, S...", "U.S. Geological Survey, Coasta...")

Reharvest and Clear

An Official Web Site of the United States Government



Doug Nebert 0

Search Data.gov

SEARCH ▶

HOME ABOUT ▾ DATA METRICS ▾ OPEN GOVERNMENT ▾ BLOGS COMMUNITIES ▾

DATA CATALOG

Home / Organizations / U.S. Geological Survey, Department of the Interior / Harvest Sources / U.S. ... / Admin

U.S. Geological Survey

There is no description for this harvest source

Datasets

1082

Dashboard

Jobs

Edit

Reharvest

Clear

View harvest source

URL:

This should include the http:// part of the URL

Title:

URL: [Edit](#)

Description:

You can use [Markdown formatting](#) here

Reharvest and Clear

- ◆ If your collection is set to “Manual” or you wish to force a re-harvest of content, then click on **Reharvest**. It will process within a few hours.
- ◆ If you wish to flush the contents of the index or have deletions from a prior run, then click on **Clear** first

Metadata recommendations

- ◆ Based on review of the results and in the interest of having metadata be optimally processed by the indexing process, some metadata recommendations were prepared
- ◆ These recommendations are summarized on the following pages and will be linked from Resources page of the new geoplatform.gov

Recommendations

- ◆ Provide direct URL to online resources in metadata
- ◆ Use the appropriate metadata structure to describe the download or access URL
- ◆ Include terms found in published taxonomies in your metadata

Recommendations, continued

- ◆ Reference browse graphics or thumbnails by URL
- ◆ Publish only your original metadata/data
- ◆ Publish your metadata only once in data.gov
- ◆ Write descriptive titles and abstracts

Recommendations, continued

- ◆ Collections of homogeneous data need collection-level and member-level metadata records
- ◆ Specify content dates
- ◆ Use recommended format and protocol codes

Enhancement requests

- ◆ Add a “Clear on Re-harvest” option to the registration/edit page for a given harvest source.
- ◆ Add the ability for logged in users of CKAN to list the publishers for their own organization via the UI.
- ◆ Support CSW endpoint on catalog.data.gov for external search and syndication.
- ◆ Document existing CKAN search API options on the Developers page of Geoplatform.gov.
- ◆ Post the minimum ISO and FGDC metadata requirements for a compliant record on geoplatform.gov.
- ◆ Allow “Group” affiliation and rights to transfer between Geoplatform and AGOL environments to enable conditional access to records.

Questions?

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