



National Geospatial Program Office

# Geospatial One-Stop *Gateway for Discovery and Access*

geodata.gov  
U.S. Maps & Data

The logo for geodata.gov is displayed on a white rectangular background. The text 'geodata.gov' is in a blue, lowercase, sans-serif font, with a small star above the 'o'. Below it, 'U.S. Maps & Data' is written in a smaller, blue, sans-serif font.

EPA Environmental Information Symposium  
November 15, 2007

# What is Geospatial One-Stop?

- **E-Government Initiative**
  - The geographic component of the President's Management Agenda
  - OMB oversees the E-Government Initiatives
- Department of the Interior - USGS serves as the Managing Partner for Geospatial One-Stop
- One of the ways the National Geospatial Programs Office (NGPO) brings increased visibility and implementation of the *NSDI*.

# Leading the Development of Partnerships to Build the NSDI

Federal

Counties

States

Cities

**GOS Portal**

Tribes

Academia

Private

## Geospatial One Stop

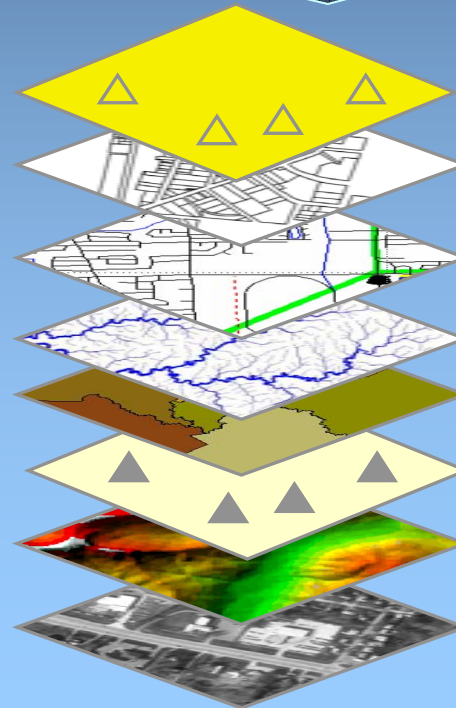
- Discovery and Access
- Common Infrastructure
- Harvesting

## FGDC

- Coordination
- Standards/Policy
- Training

## The National Map

- Integrated Content
- Seamless Base
- Map Products
- Framework Focus



Toxic Releases

Structures

Transportation

Surface Waters

Land Cover

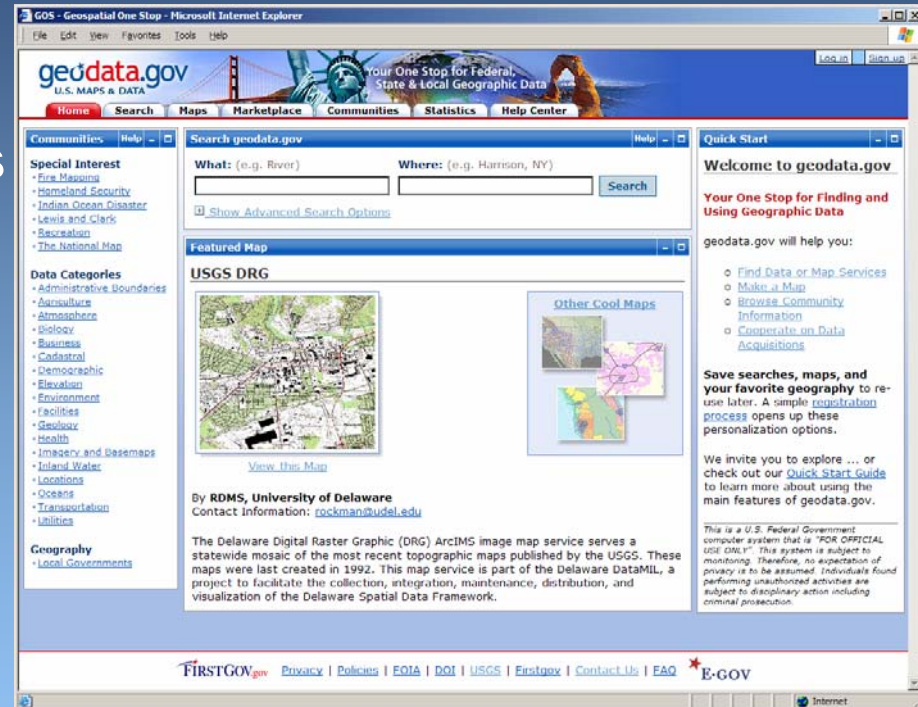
Ground Control

Elevation

Aerial Imagery

# Geospatial One-Stop (GOS)

- Provide an online discovery and access to geospatial resources (data, applications, web sites) at the Federal and non-Federal levels
- Develop standards and models to support the exchange of data and facilitate web services
- Promote partnerships among Federal, state, and local agencies
- Reduce redundant investments and facilitate cost sharing



**Goal -Make it easier, faster and less expensive to find and use geospatial data**

# Geospatial One-Stop (GOS)

## State/Regional/Local Data Sets

### Examples

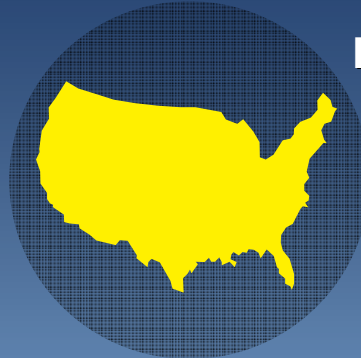
- North Carolina
- San Francisco Bay Area(BARGC)



## Federal Data Sets

### Examples

- USGS Hydrography
- NGS Geodetic Control
- BLM PLSS
- DoD Defense Installations (DISDI)



## Integrated National Data Sets

### Examples

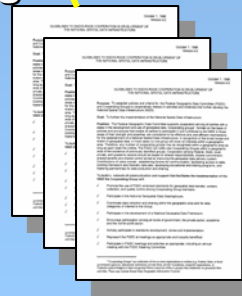
- Transportation
- Landmarks
- Hydrography
- Land Use



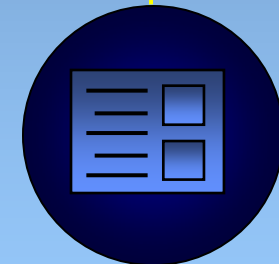
## Scientific Knowledge

### Examples

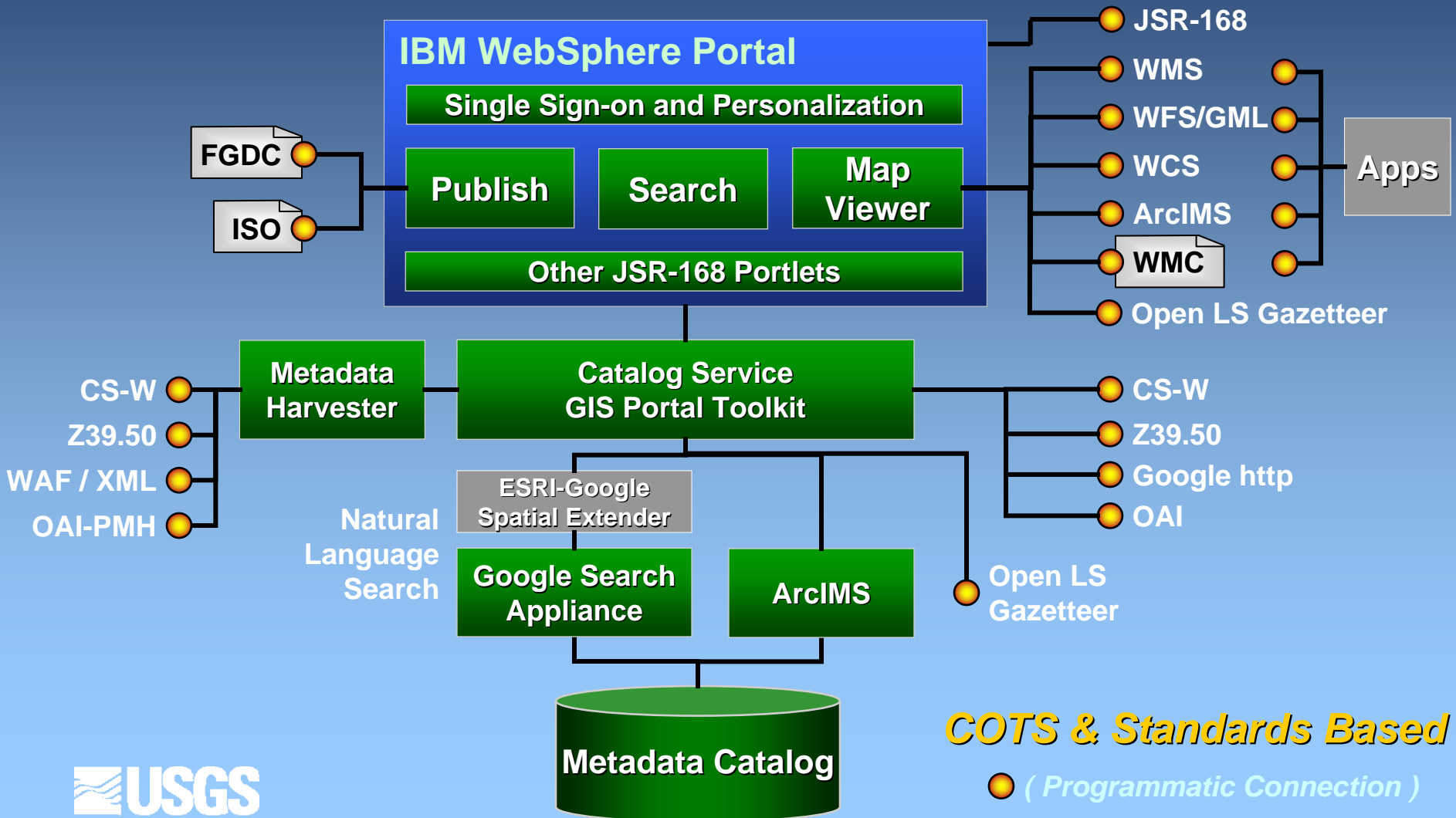
- Reports
- Models
- Applications



## National Metadata Catalog (GOS)



# Architecture



# Geospatial One-Stop Version 2

## www.geodata.gov

The screenshot displays the geodata.gov website interface. At the top, there is a navigation bar with links for Home, Search, Maps, Marketplace, Communities, Statistics, and Help Center. The main content area is divided into several sections:

- Communities:** A sidebar on the left lists various topics such as Hurricanes, Special Interest, and Data Categories.
- Search geodata.gov:** A central search box with fields for "What:" and "Where:", a "Search" button, and a link to "Show Advanced Search Options".
- Fire Mapping:** A section with sub-tabs for "Western Wildfires", "Key Resources", "Discussion", "Library", and "What's New". It features three small maps: "GeoMAC Wildfire Information", "USFS Active Fires Map", and "NOAA Fire Detection Map". Below these is a larger map titled "Current Wildfires in Southern California" with a "Start MapViewer" button.
- Quick Start:** A sidebar on the right with the heading "Welcome to geodata.gov" and a list of services like "Find Data or Map Services", "Make a Map", and "Browse Community Information".
- Featured Map:** A section at the bottom titled "The National Map".

At the bottom of the page, there is a footer with a disclaimer: "This is a U.S. Federal Government computer system that is 'FOR OFFICIAL USE ONLY'. This system is subject to monitoring. Therefore, no expectation of privacy is to be assumed. Individuals found performing unauthorized activities are subject to disciplinary action including criminal prosecution."

Home Search

Welcome

Welcome Rob

Communities Help

### Hurricanes

- [Katrina](#)
- [Rita](#)
- [Wilma](#)

### Special Interest

- [Fire Mapping](#)
- [GIS for the Nation](#)
- [Geographic Names](#)
- [Homeland Security](#)
- [Indian Ocean Disaster](#)
- [Lewis and Clark](#)
- [Recreation](#)
- [The National Map](#)

### Data Categories

- [Administrative Boundaries](#)
- [Agriculture](#)
- [Atmosphere](#)
- [Biology](#)
- [Business](#)
- [Cadastral](#)
- [Demographic](#)
- [Elevation](#)
- [Environment](#)
- [Facilities](#)
- [Geology](#)
- [Health](#)
- [Imagery and Basemaps](#)

http://gos2.geodata.gov - geodata.gov Map Viewer (Projection: GCS\_WGS\_1984) - Mozilla Firefox

geodata.gov Map Viewer



- NPL
  - Superfund Sites
- APNHIN\_PDC\_HI\_Imagery
  - Coastlines
  - Ocean Mask
  - Air Survey Hawaii Air Photos Wireframes
  - NOAA/NOS Air Photos Wireframes
  - EarthData Orthoimagery Wireframes
  - IKONOS Wireframes
  - Hillshade
  - Landsat
  - Hawaii MODIS
  - Land Background
- APNHIN\_PDC\_HI\_Emg\_Srv
  - Fire Stations

REFRESH MAP LEGEND Overview



0 3.61mi 0 5.81km

Done



Home

Search

Maps

Marketplace

Communities

Statistics

Help Center

Communities

Help

### Hurricanes

- [Katrina](#)
- [Rita](#)
- [Wilma](#)

### Special Interest

- [Fire Mapping](#)
- [GIS for the Nation](#)
- [Geographic Names](#)
- [Homeland Security](#)
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### Data Categories

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- [Geology](#)

Search geodata.gov

Help

What: (e.g. River)

Where: (e.g. Harrison, NY)

Invasive Species

Hawaii

Search

Show Advanced Search Options

GIS for the Gulf

GIS for the Gulf is a collaborative activity between the US Geological Survey, the Department of Homeland Security, and the National Geospatial-Intelligence Agency, in response to hurricanes Katrina and Rita. Find other useful information on the [Hurricane Community Pages](#)

Check My Home

(Interactive Map)

New USGS Topo Maps

GFG Responders

[Login here](#)  
[Sign Up](#)

**Note:** To use these applications, make sure you enable popups for the \*.geodata.gov site

Featured Map



Quick Sta

Welcome  
geodata

Your One  
and Using

geodata.g

- [Find](#)
- [Serv](#)
- [Mak](#)
- [Bro](#)
- [Info](#)
- [Coo](#)
- [Acq](#)

Save sea  
your favo  
re-use lat  
registratio  
these pers  
options.

We invite  
or check o  
[Guide](#) to l  
using the  
geodata.g

This is a U.S.

Search geodata.gov Help

Your Search Criteria  
What: **Invasive Species**  
Where: **Hawaii, State, United States**  
Time Frame: **Anytime**  
Content Types: **Live Data & Maps**  
Data Categories: **All Categories**  
Sorted by: **Relevance**

[Selected Types](#) **Live Data and Maps** [Downloadable](#)  
[Offline Documents](#) [Applications](#) [Geographic Services](#)  
[Clearinghouses](#) [Geographic Activities](#)

[New Search](#) [Refine Search](#)

**Metadata Results** Results 1-1 of about 1 Metadata Records (0.039 seconds)

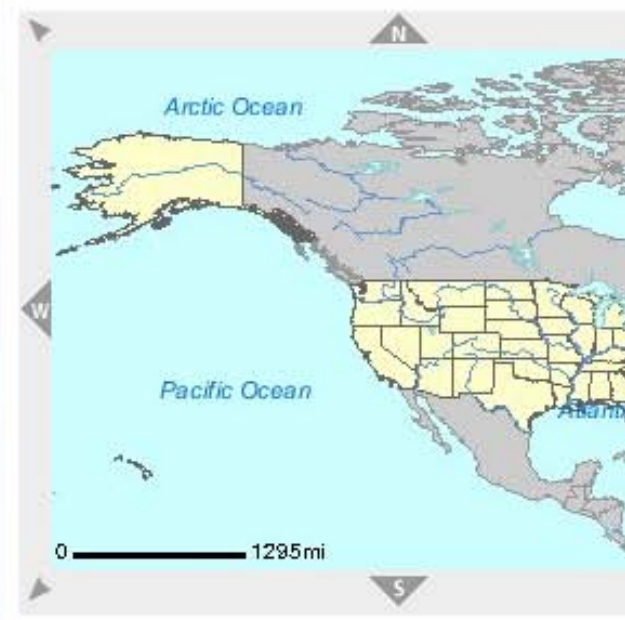
**Content Title:** NBII Catalog of Web Map Services (NBII-GIF-CWMS)  
**Abstract:** The NBII Catalog of Web Map Services is the core component in the stage one implementation of the NBII Geospatial Interoperability Framework. The catalog contains WMS services containing biological data registered by the NBII Nodes and partners. These services provide OGC WMS, WFS, and/or WCS access for public consumption.

**Content Type:** Live data & maps

[View Summary](#) [Full Metadata](#) [Add to Map](#) [Go to website](#)

Page 1

My Geography - Define Spatial Search Area



# Search- Now with 'Spatial Ranking'

The screenshot shows a Microsoft Internet Explorer browser window displaying the geodata.gov website. The browser's address bar shows the URL: [http://gos2.geodata.gov/wps/portal/gos/kc.xml?xcr:RC41wAATg3-1vuJew9rgsMOFCdYbyxg1Z0CmD1LUr2-JRPcEj\\_goCChgm6zkxuCKZHC5xWp8uack102cCuZLdWjakThQLzRfjs5WLYx8jYja6P\\_6MVQfw](http://gos2.geodata.gov/wps/portal/gos/kc.xml?xcr:RC41wAATg3-1vuJew9rgsMOFCdYbyxg1Z0CmD1LUr2-JRPcEj_goCChgm6zkxuCKZHC5xWp8uack102cCuZLdWjakThQLzRfjs5WLYx8jYja6P_6MVQfw). The website header features the geodata.gov logo and navigation tabs: Home, Search, Maps, Marketplace, Communities, Statistics, and Help Center. The search results page is titled "My Geography - Define Spatial Search Area" and shows search criteria: What: transportation, Where: Kentucky, State, United States, Time Frame: Anytime, Content Types: All Types, Data Categories: All Categories, Sorted by: Relevance. The results section, titled "Metadata Results" (Results 1-10 of more than 100 Metadata Records (10.825 seconds)), displays two records. The first record is titled "Transportation Annual Survey" and includes an abstract describing the survey's scope and methodology. The second record is titled "Earthquake Damage to Transportation Systems" and includes an abstract describing the impact of earthquakes on transportation infrastructure. The website also features a map of the United States with a search area defined over the eastern part of the country. The USGS logo is visible in the bottom left corner of the browser window.

**geodata.gov**  
U.S. MAPS & DATA  
Your One Stop for Federal, State & Local Geographic Data

Home Search Maps Marketplace Communities Statistics Help Center

Search geodata.gov Help

Your Search Criteria

What: **transportation**  
Where: **Kentucky, State, United States**  
Time Frame: **Anytime**  
Content Types: **All Types**  
Data Categories: **All Categories**  
Sorted by: **Relevance**

[Selected Types](#) [Live Data and Maps](#) [Downloadable](#) [Offline Documents](#) [Applications](#) [Geographic Services](#) [Clearinghouses](#) [Geographic Activities](#)

[New Search](#) [Refine Search](#)

**Metadata Results** Results 1-10 of more than 100 Metadata Records (10.825 seconds)

**Content Title:** Transportation Annual Survey

**Abstract:** The Transportation Annual Survey covers companies with employment that provide commercial motor freight transportation and public warehousing services (SIC 42). In 1991, the survey size was nearly doubled to provide more industry detail. In 1994, over 110,000 covered employer establishments had an estimated combined operating revenue of nearly \$16.9 billion. Data collected include operating revenue and operating revenue by source; total expenses and expenses by type; percentage of motor carrier freight revenue by commodity type, size of shipments handled, length of haul, and shipments country of origin and destination; and vehicle fleet inventory. Current and previous year data are requested for the first year of a new sample. In subsequent years, only current year data are requested. Annually since 1985, reported data are for activity taking place during the calendar year. Data collection begins about 3 months after the reporting year and continues for about 4 months. Samples are selected every 5 years and updated annually. Use of the latest sample began in 1996. The method employed is a mail-out/mail-back survey of some 2,500 selected firms and Employer Identification Numbers (EINs). The sample is drawn from a list of employers contained on the Standard Statistical Establishment List which contains all EINs and locations of establishments for listed businesses. An EIN may represent one or more establishments and firms with payroll may have one or more EIN. Firms are stratified by total revenue size and kind of business using data from the latest census of transportation. All firms with total revenue above applicable size cutoffs are included in the survey and report for all their industry EINs. In a second stage, unselected EINs are stratified by kind of business and revenue and a simple random sample is taken from each stratum. The sample is updated annually to reflect "births" and "deaths" in an annual procedure. Companies and EINs that are not active in a survey year are dropped from the sample. New EINs are identified in a birth selection procedure and included in the survey. Transportation Annual Survey reports are released 12 months after the reference year. They include estimates of annual operating revenues and selected operating expenses for the United States at the 3- and 4-digit SIC level for trucking and warehousing. Comparable statistics are shown for the previous year along with year-to-year percentage changes.

**Content Type:** Document

[View Summary](#) [Full Metadata](#) [Add to Map](#) [Go to website](#)

**Content Title:** Earthquake Damage to Transportation Systems

**Abstract:** Earthquakes represent one of the most destructive natural hazards known to man. A serious result of large-magnitude earthquakes is the disruption of transportation systems, which limits post-disaster emergency response. Damage to transportation systems is categorized in this set of images by cause including: ground failure, faulting, vibration damage, and tsunamis. This set of slides depicts earthquake damage to streets, highways, bridges, overpasses, and railroads. Earthquakes in Guatemala, Japan, Mexico, Armenia, and the United States are represented. A



# Access Metadata from Viewer

- Access Service Metadata for services added from the search results page

The image shows a screenshot of the geodata.gov Map Viewer interface. The main window displays a map of San Diego with a red circle around an information icon (i) in the top-left corner. Below the map, there are search results for "San Diego Satellite Imagery". The results list includes the content title, abstract, and content type. A red circle highlights the "Add to Map" button. A red arrow points from this button to a secondary window titled "San Diego Satellite Imagery - Microsoft Internet Explorer". This window displays the metadata for the service, including contact information for Deane Kensok at ESRI Inc.

**Content Title:** San Diego Satellite Imagery

**Abstract:** This map service presents a series of satellite imagery of San Diego, California. The map service includes 180, 25 images of the San Diego area. Zoom in to the San Diego area to view the satellite imagery.

**Content Type:** Live data & maps (Map Service)

[View Summary](#) [Full Metadata](#) [Add to Map](#) [Go](#)

**Content Title:** U.S. Pacific West Coast Internet Map Server

**Abstract:** In 1984, the U.S. Geological Survey (USGS), began a program to map the areas of the U.S. Pacific West Coast. The mapping of the deepwater portion (depths greater than 200 meters) of the U.S. Pacific West Coast is a major task of the USGS. The long-range sidescan sonar system GLORIA creates images that are a record of the acoustic backscatter from the ocean floor and developed specifically to map the morphology and texture of seafloor features in the ocean. The GLORIA imagery provides a broad-scale view of sea-floor features and the sedimentary processes that had been previously unknown.

**Content Type:** Live data & maps (Map Service)

[View Summary](#) [Full Metadata](#) [Add to Map](#) [Go to website](#)

**San Diego Satellite Imagery**

**Metadata contact:**

**Individual's name:** Deane Kensok

**Organization's name:** ESRI Inc.

**Contact information:**

**Address:**

**e-mail address:** jbarrett@spaceimaging.com

**Phone:**

**Voice:** 909-793-2853, x1159

**Contact's role:** point of contact

**Last update:** 20050702

# Coming Soon - New Search Interface

Geodata.gov

Home Search Maps Marketplace Communities Statistics Help Center

Views

Metadata



Thumbnail

View Search options

Search Filter

Publisher

National Ocean Service (NOS)

Data Category

Biology and Ecology

Select a filter



## Physiographic Divisions of Illinois

ADS

This is an Arc/Info line data set containing boundaries for physiographic divisions in Illinois. Data are originally from ISGS Report of Investigations 129 by Leighton et al., 1948. The physiographic divisions of Illinois are divided into the following: Provinces, Sections, and Divisions (listed below and annotated in coverage). Scale is 1:3,00,000 to 1:3,100,000. ....

[Download metadata](#)

[Go to document site](#)

## WaterIntakes in Illinois

There are over 120 public water supplies in Illinois that depend all or in part on surface water. More than 90 systems use water from intra-state rivers, the remaining systems draw water from Lake Michigan or large inter-state rivers: the Mississippi, Ohio, and Wabash. About half of these public water supply systems have intakes located in a river ....

## NRL GIDB Portal: Chicago\_IL\_Maps

This is a data source provided by NRL in WMS format. This data may originate at NRL but much more likely it is a remote data server that NRL's GIDB connects to via the Internet using various protocols. The GIDB server provides adapters such as WMS to servers that provide data in various different formats.

## USGS Upper Midwest Environmental Sciences Center

This site provides data sets for the Upper Midwest region and the Upper Mississippi River region of the United States. Data covers hydrology, fisheries/ macroinvertebrates, Land cover/use, sediments/ conaminants, wildlife, maps/quadrangles. Most are available through anonymous ftp download.



### Spatial Domain

West Coordinate: -104.37

East Coordinate: -101.17

North Coordinate: 29.88

South Coordinate: 28.4667

Coverage Area: Redlands, San Bernardino, Riverside



[Download all search results](#)  
(Total 258 metadata records)

Prev

11

12

13

14

15

16

17

18

19

20

Next

# Partnership Marketplace

## Over 2,000 data plans

geodata.gov  
U.S. MAPS & DATA

Your One Stop for Federal,  
State & Local Geographic Data

Log in Sign up

Home Search Maps **Marketplace** Communities Statistics Help Center

### About the Marketplace

#### About the Marketplace

Find data sharing partners for your area through:

**Data Requests** - to find out who is interested in getting particular geospatial data.

**Planned Data Acquisitions** - to discover who is currently planning to acquire new geospatial data.

Use the **Marketplace Map** to zoom to your area of interest and see footprints of planned and requested data acquisitions.

**Sign-up and log in to geodata.gov** to create your own requests or acquisitions, get email notifications, and contact potential partners.

#### Planned Acquisitions

Help

26 **MAF/TIGER Accuracy Improvement Program (MTAIP): 2007 Insufficiently Enhanced Counties**  
2007-02-26 20:19:01.0

[View Summary](#) [Full Metadata](#) [Contact Owner](#) [Highlight](#)

[Zoom to](#)

27 **(NASA) OSTM - Ocean Surface Topography Mission**  
2006-12-21 06:49:42.0

[View Summary](#) [Full Metadata](#) [Contact Owner](#) [Highlight](#)

[Zoom to](#)

28 **(NASA) OCO - Orbiting Carbon Observatory**  
2006-12-21 06:49:33.0

[View Summary](#) [Full Metadata](#) [Contact Owner](#) [Highlight](#)

[Zoom to](#)

#### Data Requests

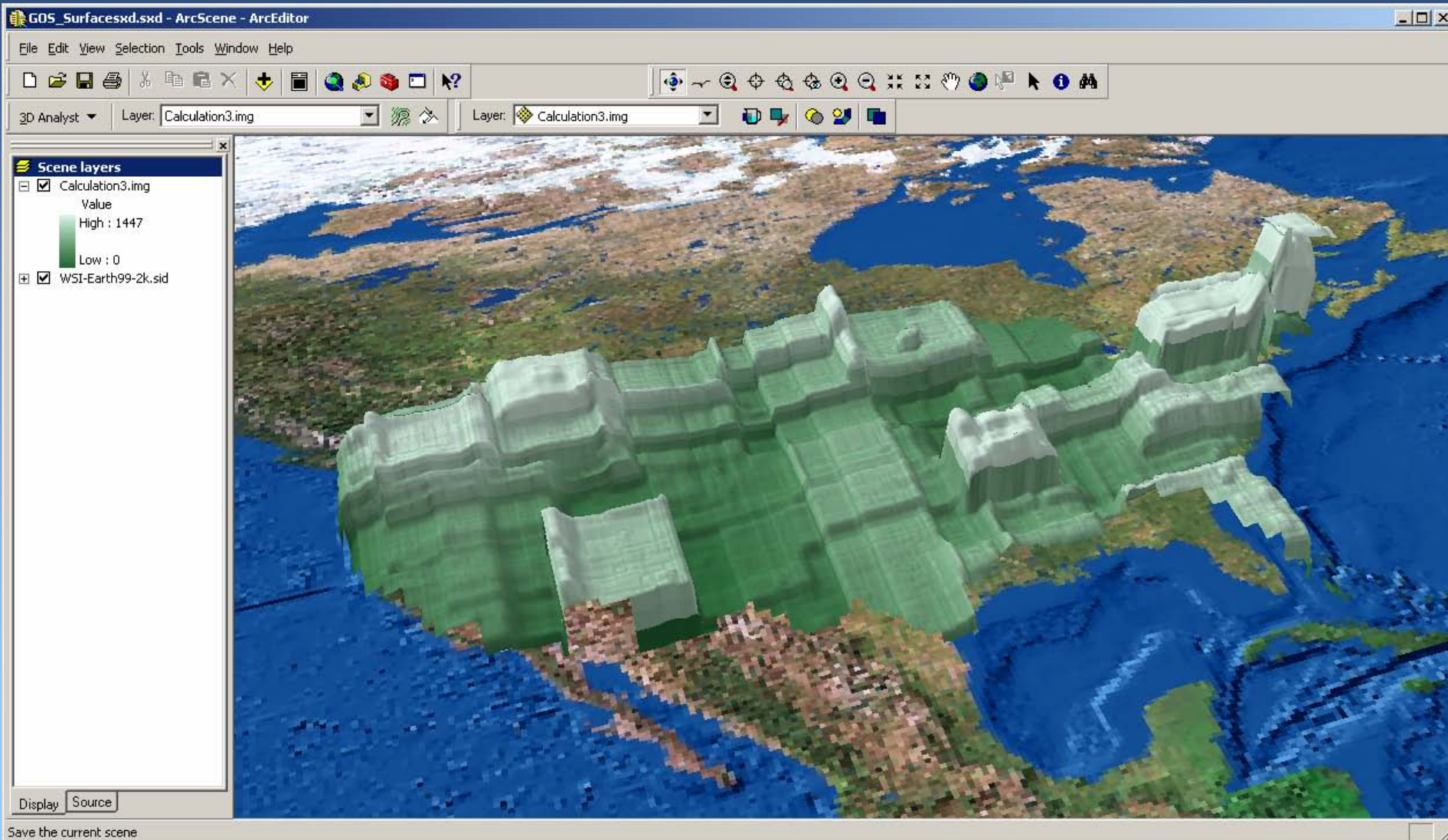
Help

#### Marketplace Map

Help

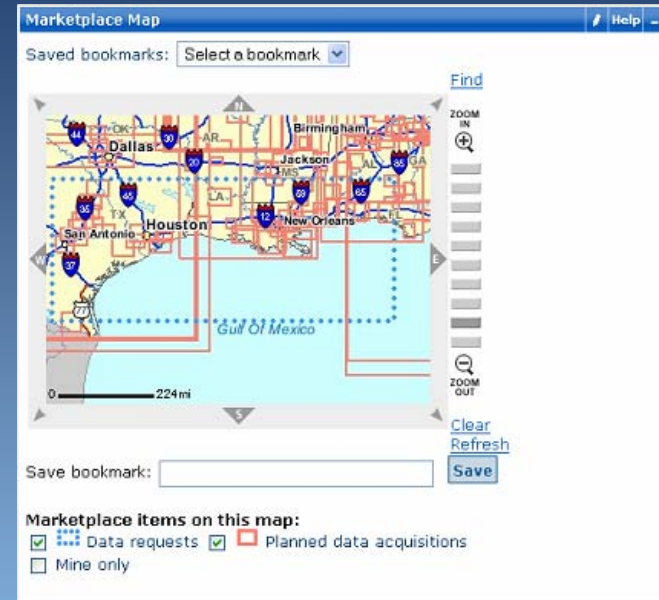
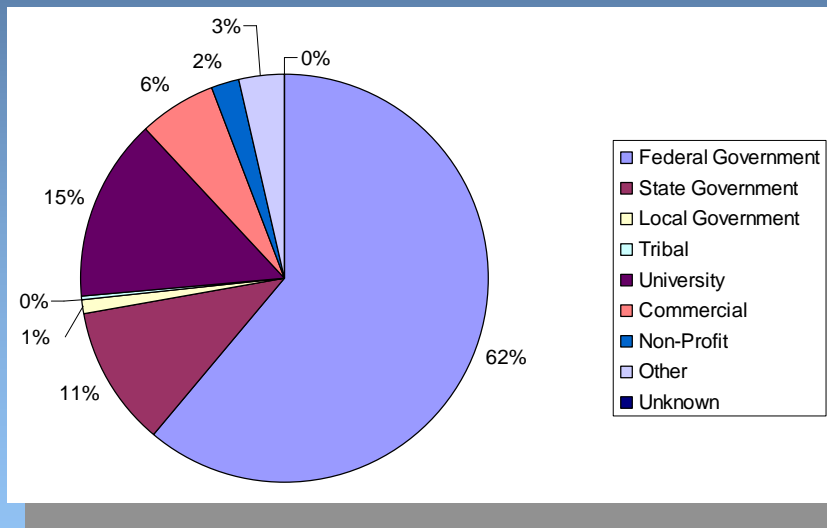


# GOS Catalog's Coverage – Our National Metadata 'Surface'



# Current Status

- ~ 400 registered publishers
- Overall collection has grown to 135,000 records



Over 1,000 'contacts'  
made on the Marketplace

Over 4,000 map services published by our partners !



# Geodata.gov tools in place now

## Goals

- Easier data discovery across government
- Reduce Duplicate Spending
- Authoritative Data Sources and Services
- Access to Federal, State and Local data
- Interoperability



## Portal Tools

- ■ Centralized Search
- ■ Partnership Marketplace
- ■ Featured in 'Communities'
- ■ Data access controlled by provider and Portal/Portlet controls
- ■ OGC Specification implemented



National Geospatial Program Office

# Contact Information:

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(703) 648-5724