



# Agency Update: *The U.S. Geological Survey*



**Richard Huffine, USGS National Library Coordinator**

**Government Printing Office  
Depository Library Conference  
April 17, 2007**

**U.S. Department of the Interior  
U.S. Geological Survey**

# USGS' Evolving Role

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**“By evolving into a natural science and information agency, the USGS will be able to play a leadership role in the elucidation of the geological, hydrological, geographical, and biological processes that are important to the nation and in the use of modern technology for the effective and efficient dissemination of this information....”**

*Future Roles and Opportunities for the U.S. Geological Survey, NRC 2001*

## Data Integration and Beyond

- *The USGS will use its information resources to create a more integrated and accessible environment for its vast resources of past and future data. It will invest in cyberinfrastructure, nurture and cultivate programs in natural-science informatics, and participate in efforts to build a global integrated science and computing platform.*

## Leveraging Evolving Technologies

- *The USGS will foster a culture and resource base that encourage innovation, thereby advancing scientific discovery through the development and application of state-of-the-art technologies.*

*Facing Tomorrow's Challenges: USGS Science in the Coming Decade, USGS, 2006*

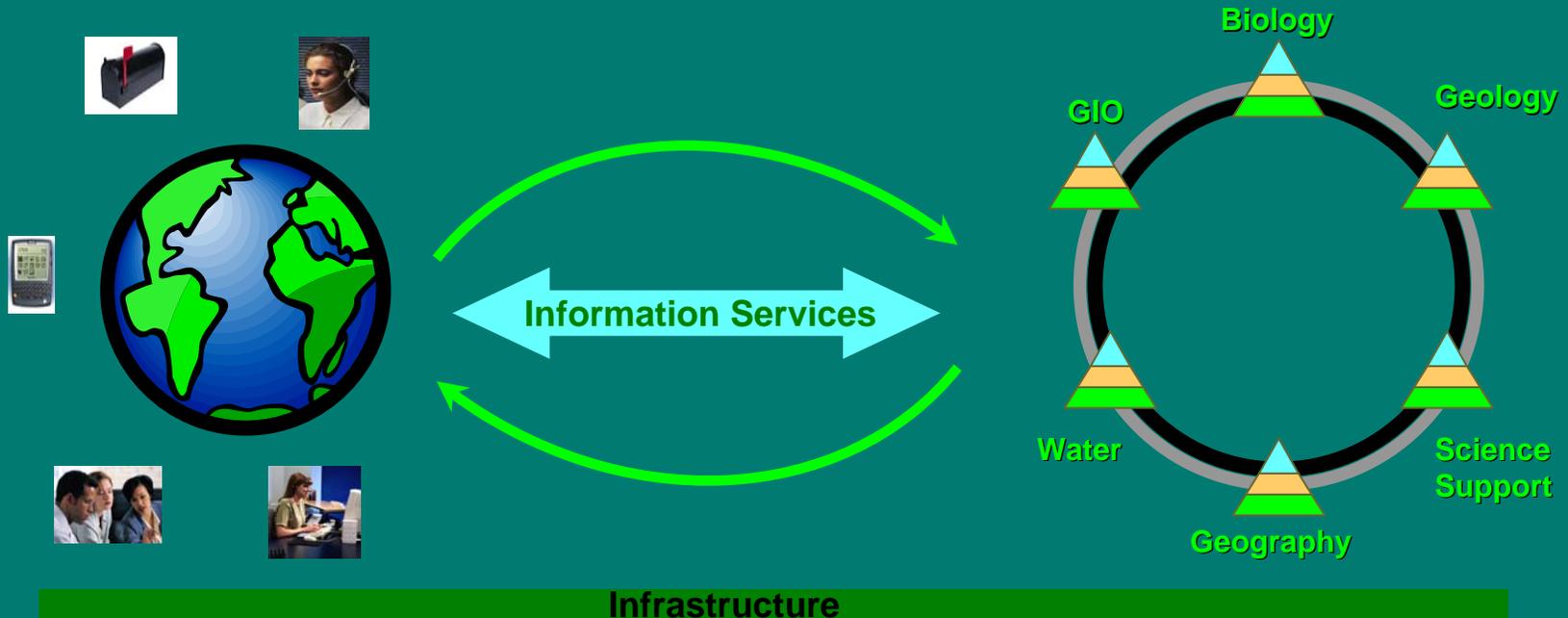
# Agenda

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1. Natural Science Network
2. Enterprise Web
3. Publications Warehouse
4. The National Geospatial Programs Office

# Natural Science Network: *Vision*

- A nationally linked network of USGS data, information, and knowledge available to anyone, anywhere, anytime.



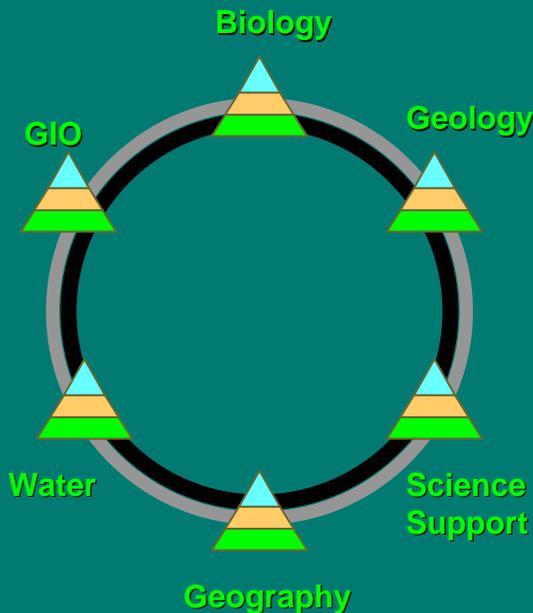
# Natural Science Network: *Knowledge Network*

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- Organized and linked data, information, and knowledge from all USGS disciplines and other applicable holdings.

## Examples:

- National Water Information System (NWIS)
- National Biological Information Infrastructure (NBII)
- *The National Map*
- Advanced National Seismic System (ANSS)
- Libraries
- BASIS+



# Natural Science Network: *Information Services*

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- People, tools, and processes that assist anyone to find, get, and use data, information, and knowledge from the NSN.



- People – Information services specialists, partnerships, etc.
- Tools – Publications Warehouse, USGS FAQs, etc.
- Processes – Library Check In/Out, USGS Store, etc.

# Natural Science Network: *Access and Interaction*

- The NSN is open to everyone using various access methods worldwide.



# Natural Science Network: *Infrastructure*

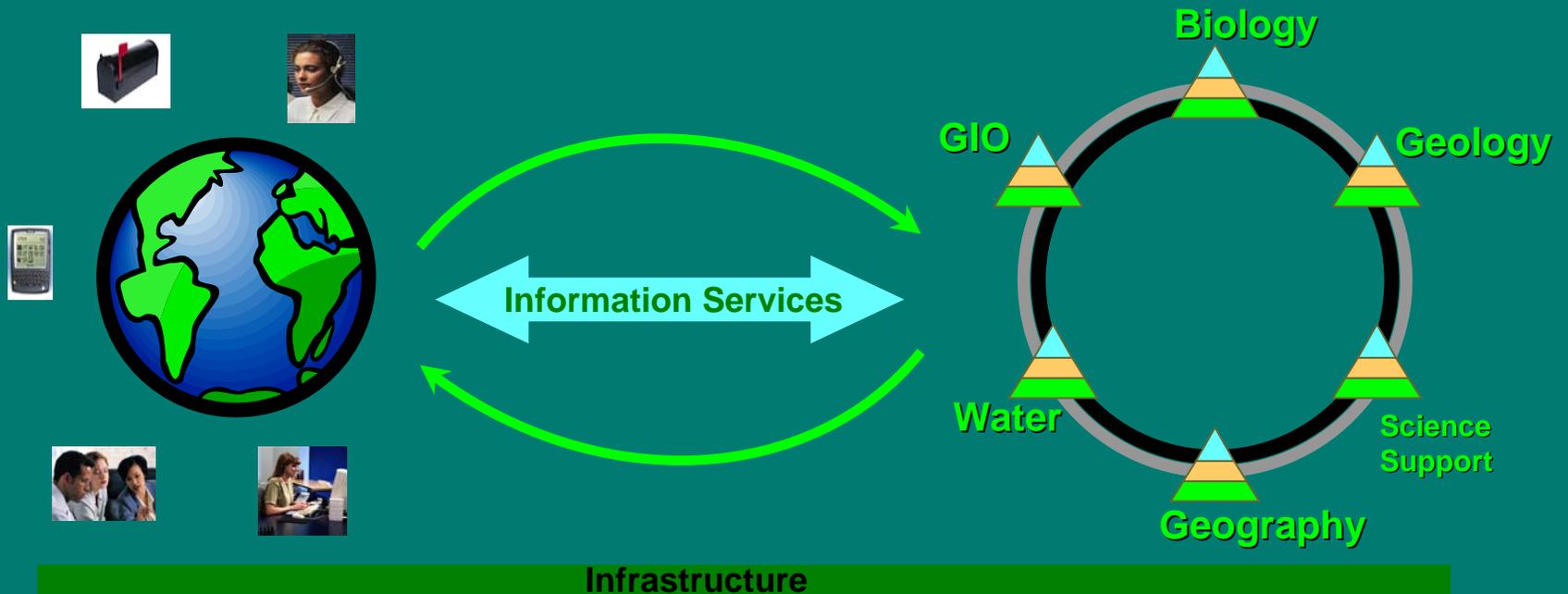
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- People and bureau-wide technology responsible for storing and delivering data, information, and knowledge.



Infrastructure

# The Natural Science Network (NSN)



# Natural Science Network: *Organizational Concept*

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- **SILS – Science Information and Library Services**
- **KM – Knowledge Management**
- **ID – Information Delivery**

# Natural Science Network:

## *SILS – Science Information & Library Services*

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- **Library Services**
- **Information Services**
- **Call Center**
- **Inreach and Outreach**
- **Training and Education**

# Natural Science Network:

## *KM – Knowledge Management*

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- Knowledgebase development, acquisition, and partnering with science programs
- Software and electronic access tools development
- Infrastructure support

# Natural Science Network:

## *ID – Information Delivery*

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- Maps & publications on-demand delivery
- Electronic inventory management
- Limited printed stock management
- Web products & delivery
- Business partnerships for commercial retail sales

# Enterprise Web

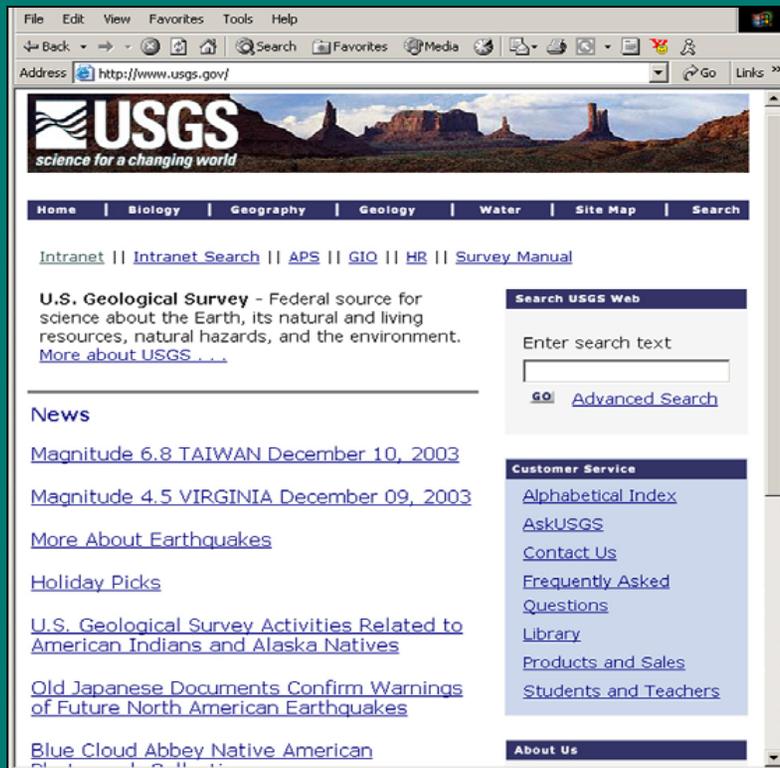
*www.usgs.gov*

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- **The bureau-wide approach to managing USGS information on the Web.**
- **The corporate infrastructure, best practices, and tools that meet customer and business needs.**
- **The coordinated effort by a network of people and resources across USGS to advance web delivery of natural science information.**

# Enterprise Web: Improved USGS Homepage

Old



New



# Enterprise Web: *Increased Access By Place*

Science In Your State - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://www.usgs.gov/state/>

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[Intranet](#) | [Intranet Search](#) | [APS](#) | [GIO](#) | [HR](#) | [Survey Manual](#)

Select a location from the map below or [select from a list](#).

**States:**

<a href="#">Alabama (AL)</a>	<a href="#">Illinois (IL)</a>	<a href="#">Montana (MT)</a>	<a href="#">Puerto Rico (PR)</a>
<a href="#">Alaska (AK)</a>	<a href="#">Indiana (IN)</a>	<a href="#">Nebraska (NE)</a>	<a href="#">Rhode Island (RI)</a>
<a href="#">Arizona (AZ)</a>	<a href="#">Iowa (IA)</a>	<a href="#">Nevada (NV)</a>	<a href="#">South Carolina (SC)</a>
<a href="#">Arkansas (AR)</a>	<a href="#">Kansas (KS)</a>	<a href="#">New Hampshire (NH)</a>	<a href="#">South Dakota (SD)</a>
<a href="#">California (CA)</a>	<a href="#">Kentucky (KY)</a>	<a href="#">New Jersey (NJ)</a>	<a href="#">Tennessee (TN)</a>
<a href="#">Colorado (CO)</a>	<a href="#">Louisiana (LA)</a>	<a href="#">New Mexico (NM)</a>	<a href="#">Texas (TX)</a>
<a href="#">Connecticut (CT)</a>	<a href="#">Maine (ME)</a>	<a href="#">New York (NY)</a>	<a href="#">Utah (UT)</a>
<a href="#">Delaware (DE)</a>	<a href="#">Maryland (MD)</a>	<a href="#">North Carolina (NC)</a>	<a href="#">Vermont (VT)</a>
<a href="#">District of Columbia (DC)</a>	<a href="#">Massachusetts (MA)</a>	<a href="#">North Dakota (ND)</a>	<a href="#">Virgin Islands (VI)</a>

# Enterprise Web: Improved Access by Topic

Science Topics - Microsoft Internet Explorer

Address: <http://www.usgs.gov/science/>

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### Science Topics

Much of the scientific information produced by USGS can be found by browsing the home pages of the USGS science disciplines: [Water Resources](#); [Geology](#); [Geography](#); and [Biology](#) or by searching the [Publications Warehouse](#). Information about the organizational structure and budget of the USGS can be found in [About USGS](#). For specific states of the US, [Science in Your State](#) may be helpful.

The topical directory below provides an alternate way to browse USGS science programs and activities. It is not an exhaustive list of all USGS science topics but provides a categorization using a thesaurus of related terms that will give you definitions, links to science content, and a structured approach to discovery.

<b>Atmosphere and Climate</b> <a href="#">acid deposition</a> , <a href="#">climate change</a> , <a href="#">global change</a> , <a href="#">precipitation</a>	<b>Natural Hazards</b> <a href="#">droughts</a> , <a href="#">earthquakes</a> , <a href="#">fires</a> , <a href="#">floods</a> , <a href="#">impact cratering</a> , <a href="#">landslides</a> , <a href="#">storms</a> , <a href="#">tsunamis</a> , <a href="#">volcanoes</a>
<b>Earth Characteristics</b> <a href="#">earth structure</a> , <a href="#">geologic history</a> , <a href="#">geologic structure</a> , <a href="#">gravity</a> , <a href="#">magnetic field</a> , <a href="#">land surface</a> , <a href="#">rocks and deposits</a> , <a href="#">snow and ice cover</a> , <a href="#">stratigraphy</a>	<b>Natural Resources</b> <a href="#">energy resources</a> , <a href="#">fishery resources</a> , <a href="#">mineral resources</a> , <a href="#">resource exploration</a> , <a href="#">resource extraction</a> , <a href="#">water resources</a>
<b>Ecology and Environment</b> <a href="#">biodiversity</a> , <a href="#">biogeography</a> , <a href="#">ecological processes</a> , <a href="#">ecosystems</a> , <a href="#">habitats</a>	<b>Oceans and Coastlines</b> <a href="#">coastal zones</a> , <a href="#">marine geology</a> , <a href="#">marine geophysics</a> , <a href="#">ocean characteristics</a> , <a href="#">ocean processes</a>
<b>Environmental Issues</b> <a href="#">health and disease</a> , <a href="#">human impacts</a> , <a href="#">land use</a> , <a href="#">mining hazards</a> , <a href="#">natural contaminants</a> , <a href="#">pollution</a> , <a href="#">recreation</a> , <a href="#">water quality</a>	<b>Planets</b> <a href="#">meteorites</a> , <a href="#">planetary bodies</a>
<b>Geologic Processes</b> <a href="#">erosion</a> , <a href="#">geochemistry</a> , <a href="#">land subsidence</a> , <a href="#">sedimentation</a> , <a href="#">tectonic processes</a>	<b>Plants and Animals</b> <a href="#">animals</a> , <a href="#">endangered species</a> , <a href="#">invasive species</a> , <a href="#">plants</a> , <a href="#">vegetation</a> , <a href="#">wildlife</a>
<b>Hydrologic Processes</b> <a href="#">glaciation</a> , <a href="#">ground-water flow</a> , <a href="#">runoff</a> , <a href="#">sediment transport</a> , <a href="#">streamflow</a>	<b>Techniques and Methods</b> <a href="#">geographic information systems (GIS)</a> , <a href="#">mathematical modeling</a> , <a href="#">remote sensing</a> , <a href="#">real-time monitoring and reporting</a>
<b>Geographic Analysis and Mapping</b> <a href="#">aerial photography</a> , <a href="#">cartography</a> , <a href="#">geospatial analysis</a> , <a href="#">maps and atlases</a> , <a href="#">remote sensing</a>	<b>Water Resources</b> <a href="#">ground water</a> , <a href="#">surface water</a> , <a href="#">water properties</a> , <a href="#">water quality</a> , <a href="#">water supply and demand</a> , <a href="#">water use</a>

Search for Topics

# Enterprise Web: Improved Access *By Issue*

Alphabetical listing of categories: A - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://www.usgs.gov/science/science-kwic.php?letter=a>

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**Alphabetical index of categories: A**

[A](#) [b](#) [c](#) [d](#) [e](#) [f](#) [g](#) [h](#) [i](#) [j](#) [k](#) [l](#) [m](#) [n](#) [o](#) [p](#) [q](#) [r](#) [s](#) [t](#) [u](#) [v](#) [w](#) [x](#) [y](#) [z](#)

Number of information resources is shown in parentheses after each term.

- [relative abundance analysis](#) (1)
- [accelerators](#) -> [research facilities](#) (1)
- [acid deposition](#) (6)
- [acidic deposition](#) -> [acid deposition](#) (6) [acid precipitation](#) -

Search for Topics

This search provides topics that we think are useful for finding USGS information. If you're looking for a Web site that contains specific words, use [Search USGS](#).

Search for topic:

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U.S. Department of the Interior | U.S. Geological Survey  
URL: <http://www.usgs.gov/science/science-kwic.php?letter=a>  
Page Contact Information: [webmaster@usgs.gov](mailto:webmaster@usgs.gov)

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# Enterprise Web: Increased Use of Our Science By Citizens

Search Assistance - Frequently Asked Questions - Microsoft Internet Explorer

Address: <http://www.usgs.gov/search/faq.html>

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**Search Frequently Asked Questions**

Our FAQ database contains hundreds of answers to frequently asked questions on a wide range of natural science topics.

Type a word or phrase here:

**Browse Frequently Asked Questions**

Click on a topic to browse all FAQs on that subject:

A-F	G-M	N-Z
<a href="#">Aerial Photographs</a>	<a href="#">Geographic Place Names (GNIS)</a>	<a href="#">National Atlas</a>
<a href="#">Biology</a>	<a href="#">Geography</a>	<a href="#">Paleontology</a>
<a href="#">Climate</a>	<a href="#">Geology</a>	<a href="#">Photographs</a>
<a href="#">Drought</a>	<a href="#">Geomagnetism</a>	<a href="#">Publications</a>
<a href="#">Earthquakes</a>	<a href="#">Geospatial Data</a>	<a href="#">Remote Sensing</a>
<a href="#">Education</a>	<a href="#">Glaciers</a>	<a href="#">Rivers</a>
<a href="#">Endangered Species</a>	<a href="#">Hazards</a>	<a href="#">Topographic Maps</a>
<a href="#">Energy</a>	<a href="#">Invasive Species</a>	<a href="#">Tsunamis</a>
<a href="#">Environment</a>	<a href="#">Jobs</a>	<a href="#">Vegetation</a>
<a href="#">Floods</a>	<a href="#">Landslides</a>	<a href="#">Volcanoes</a>
	<a href="#">Maps</a>	<a href="#">Water</a>
	<a href="#">Minerals</a>	<a href="#">Wildlife</a>

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U.S. Department of the Interior | U.S. Geological Survey  
 URL: <http://www.usgs.gov/search/faq.html>  
 Page Contact Information: [webmaster@usgs.gov](mailto:webmaster@usgs.gov)  
 Page Last Modified: 18-Apr-2005@13:50

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Address <http://www.usgs.gov/ask/index.html> Go Links

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## Contact USGS

### If you have a question or need assistance ...

You can contact us directly by calling toll-free **1-888-ASK-USGS** (1-888-275-8747). Use [Search](#) or [Frequently Asked Questions](#) to find the specific USGS information, data, maps, products, or services that you need.

You may also use the form below to ask a question or send a message to the USGS:

Your email address\*

Name

Phone number

Mailing address  
(Include this if you're asking us to ship something to you.)

Subject

Message\*

Please only click once! You will get a page in response.

\* Required field. We need your email address to reply to you! See our [Privacy Statement](#).

# Publications Warehouse

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- A reports and thematic maps database
- Currently contains nearly 70,000 bibliographic citations
- Includes numbered series going back to 1882
- Citations and online documents are added regularly
- Content ranges from full text to bibliographic citation only
- Links to 41,000+ on-line documents, reports, and maps
- Links to the USGS Store and USGS Libraries
- Expanding citations
- Scanning reports and maps to view on-line

# Publications Warehouse: <http://pubs.usgs.gov/>

The screenshot shows the USGS Publications Warehouse website. At the top left is the USGS logo with the tagline "science for a changing world". To the right of the logo is a navigation menu with links for "USGS Home", "Contact USGS", and "Search USGS". Below the logo is a blue banner with the text "Publications Warehouse". Underneath this banner is a secondary navigation bar with links for "PW Home", "Advanced Search", "Contents", "MIA", "FAQ", "Contact Us", and "Recent Publications". The main content area is titled "Publications Warehouse Basic Search" and features a search form with a text input field, a "Go" button, and a "Search Tips" link. Below the search form is a blue banner that reads "Welcome to the Publications Warehouse". The main content area then lists "The Publications Warehouse contains:" followed by three bullet points: "Bibliographic citations for over 70,000 publications", "Full product and thematic map content for over 40,000 publications", and "USGS numbered series begun in 1880". This is followed by "Use the Publications Warehouse Web Site to:" with three bullet points: "Locate products by author, title, year, or product type", "Locate products **recently published** by USGS, by month", and "Discover availability, price, and purchase options for hard copies". The final section is "Future enhancements will include:" with two bullet points: "Citations for all USGS-authored products" and "Geographic search for newly published products". On the right side of the page is a vertical sidebar with various navigation links, including "Product Information", "Maps", "Aerial Photographs", "Satellite Imagery", "Real-Time Data", "Software", "Biology Publications", "Products Beyond the Pubs Warehouse", "USGS Store", "Earth Explorer", "Ordering USGS Products", "Library Sources for USGS Publications", "Minerals Periodicals", "About Pubs Warehouse", "News", "Contents", "Descriptions of USGS Series", "MIA", and "Further Information 1-888-ASK-USGS". At the bottom of the page, there is a small "Internet" icon.

# Publication Warehouse: Basic Search Results and Sort Options

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## Publications Warehouse

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### Basic Search

[Go Back to Search Page >>](#)

Restrict results to publications with online versions

Sort by:  Report Number  Year  Author  Title

Jump To: Previous  Next

<a href="#">More Info...</a> <a href="#">Purchase Now</a>	<b>1990 • B • 1754-E</b> <b>Mineral resources of the Mill Creek Canyon Wilderness Study Area, Grand County, Utah</b> Diggles, Michael F.; Case, James E.; Barton, Harlan N.; Duval, Joseph S.; Lane, Michael E.
<a href="#">More Info...</a> <a href="#">Purchase Now</a>	<b>1990 • B • 1754-D</b> <b>Mineral resources of the Negro Bill Canyon Wilderness Study Area, Grand County, Utah</b> Bartsch-Winkler, Susan; Case, James E.; Barton, Harlan N.; Duval, Joseph S.; Lane, Michael E.
<a href="#">More Info...</a>	<b>1988 • B • 1754-C</b> <b>Mineral resources of the Lost Spring Canyon Wilderness Study Area, Grand County, Utah</b> Soulliere, Sandra J.; Lee, Gregory K.; Case, James E.; Gese, Diann D.

**Product Information**

- Maps
- Aerial Photographs
- Satellite Imagery
- Real-Time Information
- Software
- Biology Publications

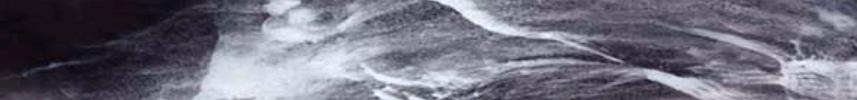
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## Publication Citation

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[Previous Citation](#) • [Viewing Record #4](#) • [Next Citation](#)

<b>USGS Series</b>	Bulletin
<b>Report Number</b>	1753-B
<b>Title</b>	Mineral resources of the Desolation Canyon, Turtle Canyon, and Floy Canyon Wilderness Study Areas, Carbon, Emery, and Grand counties, Utah
<b>Edition</b>	-
<b>Language</b>	ENGLISH
<b>Author(s)</b>	Cashion, William B.; Kilburn, James E.; Barton, Harlan N.; Kelley, Karen D.; Kulik, Dolores M.; McDonnell, John R., Jr.
<b>Year</b>	1990
<b>Originating office</b>	
<b>USGS Library Call Number</b>	(200) E no.1753-B
<b>Physical description</b>	p. B1-B34; 1 plate in pocket
<b>ISBN</b>	

**Online Document Versions**

- [View Report as .DJVU](#) \*Requires plug-in\*
- [View Plate as .DJVU](#) \*Requires plug-in\*

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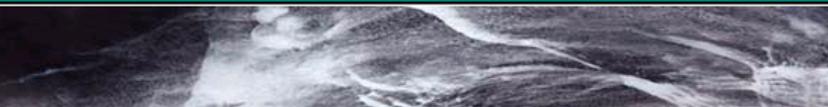
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## Contents:

- This listing is updated daily
- Biological series released by the Fish and Wildlife Service and National Biological Survey prior to creation of the Biological Resources Division in USGS are included
- Non-USGS series publications authored by USGS employees are currently not included

Total Citations in Publication Warehouse	Total number of citations with electronically available documents
70987	41469
row(s) 1 - 1 of 1	

Series Name	Series Code	Series Began	Through	Total number of citations	Total online
Annual Report	AR	1880	1905	66	28
Antarctic Map	A	1970	1989	14	0
Biological Report	BR	1988	1988	1	1
Biological Science Report	BSR	1995	2004	38	19
Bulletin	B	1883	2006	4598	2512
Circular	CIR	1933	2006	1447	1384
Circum-Pacific Map	CP	1990	2000	16	14
Coal Map	COAL	1950	1995	163	1
Data Series	DS	1991	2007	229	180
FWS/OBS	FWSOBS	1975	1986	640	83

**Product Information**

- Maps
- Aerial Photographs
- Satellite Imagery
- Real-Time Data
- Software
- Biology Publications

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# National Geospatial Programs Office

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- **A Unified Approach to the National Spatial Data Infrastructure (NSDI)**
- **Alignment of national geospatial activities and responsibilities**
  - **Federal Geographic Data Committee**
  - **Geospatial One Stop**
  - ***The National Map***

# National Geospatial Programs Office

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## Providing leadership and guidance for stakeholders:

- Develop policy
- Provide incentives to potential partners
- Develop key standards and data models
- Coordinate and facilitate the government structure for the NSDI
- Negotiate collaborative agreements with partners
- Develop a national geospatial enterprise architecture
- Provide a forum for technology transfer, best practices, and program guidance

# National Geospatial Programs Office: *What is the NSDI?*

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The National Spatial Data Infrastructure is defined as the technologies, policies, and people necessary to promote sharing of geospatial data throughout all levels of government, the private and non-profit sectors, and the academic community.

<http://www.fgdc.gov/nsdi/nsdi.html>

# National Geospatial Programs Office: *Federal Geographic Data Committee*

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- A 19 member interagency committee composed of representatives from the Executive Office of the President, Cabinet-level and independent agencies.
- Developing the National Spatial Data Infrastructure (NSDI) in cooperation with organizations from State, local and tribal governments, the academic community, and the private sector.
- NSDI encompasses policies, standards, and procedures for organizations to cooperatively produce and share geographic data.

# National Geospatial Programs Office: *Geospatial One Stop Portal* - [www.geodata.gov](http://www.geodata.gov)

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- An intergovernmental project managed by DOI in support of the President's Initiative for E-government
- Access to geospatial information from federal agencies and a growing number of state, local, tribal and private agencies through one comprehensive and comprehensible portal
- Opportunities for collaboration, intergovernmental partnerships and reduce needless duplication of data investment
- Building communities around data categories through the efforts of "data stewardship leaders" and teams
- Working with FGDC to facilitate standardization and intergovernmental agreements on standards and interoperability

# National Geospatial Programs Office: *The National Map*

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- The Nation's topographic map for the 21<sup>st</sup> century
- A consistent framework for geographic knowledge needed by the Nation
- Public access to high-quality, geospatial data and information from a consortium of Federal, State, and local partners
- Geospatial data to enhance America's ability to access, integrate, and apply geospatial data at global, national, and local scales
- Meets the Nation's needs for current base geographic data and maps

# Questions

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## Point of Contact:

**Richard Huffine, National Library Coordinator**  
**703-648-7182**  
**[rhuffine@usgs.gov](mailto:rhuffine@usgs.gov)**

**Mike McDermott, Director, Natural Science Network**  
**703-648-5771**  
**[mmcdermo@usgs.gov](mailto:mmcdermo@usgs.gov)**