

UN-GGIM: AMERICAS
REGIONAL COMMITTEE OF
UNITED NATIONS INITIATIVE ON
GLOBAL GEOSPATIAL
INFORMATION MANAGEMENT

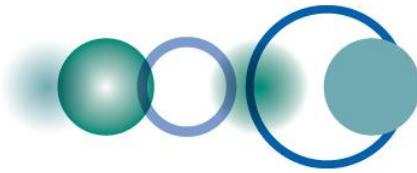
AmeriGEOSS Community Platform

A capacity building resource that links local-to-global open data, applications, tools, products and services to support understanding and decision-making

Ivan DeLoatch
Executive Director
U.S. Federal Geographic Data Committee



AmeriGEOSS Initiative & Regional Coordination



Is a cooperative effort of the 16 GEO member countries in the Americas that:

Reflects local, national, and regional interests of the GEO country-members for short and long-term planning, development, and implementation aligned with GEO activities.

Is entrenched in the institutional and technical capabilities of its country members and in the resources of other global initiatives available for the benefit of the region.

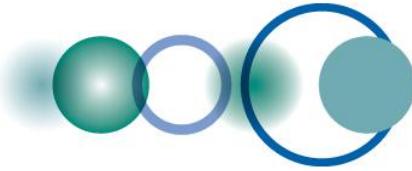
Seeks to increase institutional and personal capacity and engage experts, stakeholders, and decision makers in the process of decision making.



AmeriGEOSS Members
 Non-AmeriGEOSS Members

	Argentina		Ecuador
	Bahamas		Honduras
	Belize		Mexico
	Brazil		Panama
	Canada		Paraguay
	Chile		Peru
	Colombia		United States
	Costa Rica		Uruguay

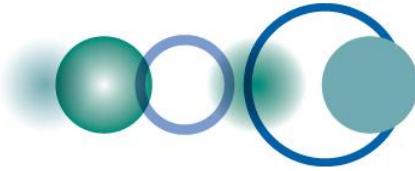
16 Member Countries



AmeriGEOSS GEO Principal

	Argentina	Dr Conrado Franco Varotto		Ecuador	Ms Maria Fernanda Espinosa
	Bahamas	Mr Trevor McNeil Basden		Honduras	Mrs Patricia Brocatto
	Belize	Ms. Catherine Cumberbacht		Mexico	Mr Rolando Ocampo
	Brazil	Mrs Maria Rita Fontes Faria		Panama	Dr Ligia Castro De Doens
	Canada	Mr David Ronald Grimes		Paraguay	Mrs Maria Cristina Morales
	Chile	Mr Luciano Francisco Parodi		Peru	Major General Carlos Elias Rodriguez Pajares
	Colombia	Mr Omar Franco Torres		United States	Dr Steve Volz
	Costa Rica	Mr Juan Carlos Fallas		Uruguay	Vacant





Thematic Focus Areas



AmeriGEOSS Initiative is a framework that seeks to promote collaboration and coordination among the GEO Members of the American Continent



Agriculture



Water



Disasters



Biodiversity & Ecosystems

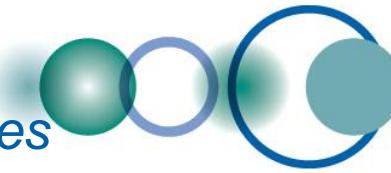
The AmeriGEOSS initiative focuses its efforts in the four Societal Benefit Areas (SBA's) selected and prioritized by the

Americas Caucus country-members:



AmeriGEOSS Capacity Building

- Developing and Strengthening Partnerships and Capabilities



Engage

Analyze



Develop



Delvier



User-Driven Framework

Capacity Building

*Building
Partnerships*

National



Regional



Global



Engaging Users

Needs Assessment and Gap Analysis

Data

Tools

Products

Services

• Share

• Curate

• Harmonize

Tools

• Visualize

• Mapping

• Modeling

Products

• Publication

• Reports

• Training

Services

• Acquisition

• Reports

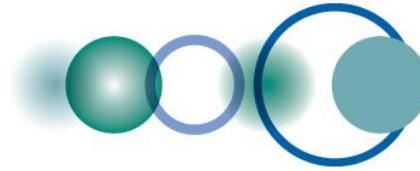
• Training



Partner > Mobilize > Implement

AmeriGOESS Capacity Building Efforts

- Outreach and Education Examples



Increasing and strengthening Partnerships through outreach and education:

Workshops



The 2016 AmeriGEOSS week event was organized around **capacity building activities** directly related to the priority areas of the AmeriGEOSS Initiative. **Training and informative presentations** were provided by public and private participants.

Webinars

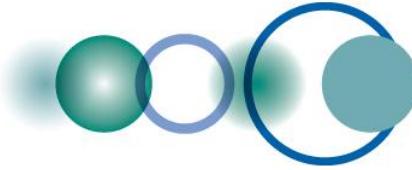


The purpose of the webinars is to **share information** stressing the importance of open access to information and data for the benefit of the Latin and Caribbean American Region, to **find potential applications and collaborations among scientists and decision makers**, and to expand and strengthen the network of research and applications as it relates to the water cycle.

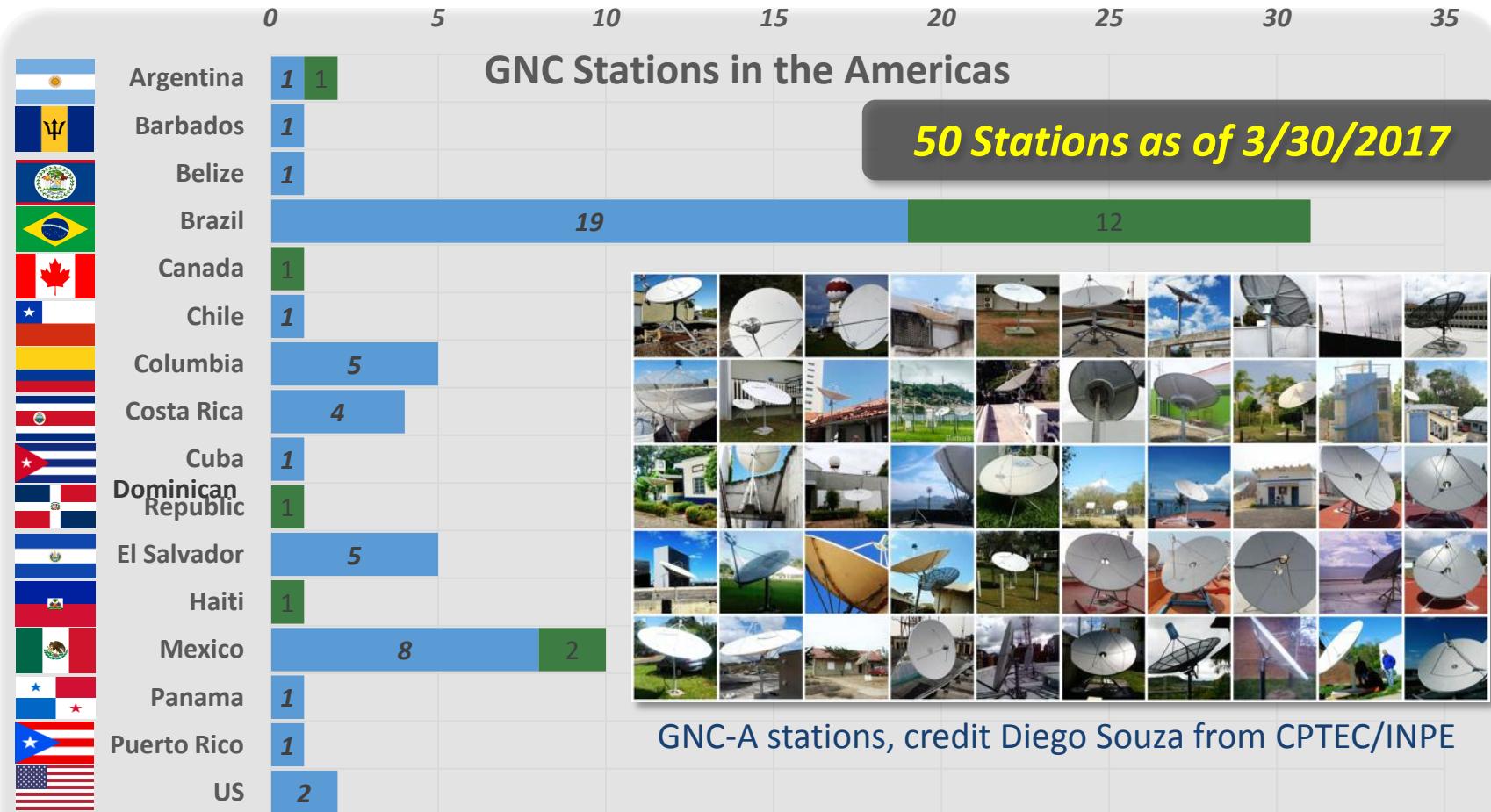
Communications

AmeriGEOSS principles **meet regularly** to provide **information on** activities, newsletters, and other communications are provided to the community on **events, activities, and accomplishments**.





Connecting the Community to EO Resources - AmeriGEOSS Capacity Building Example



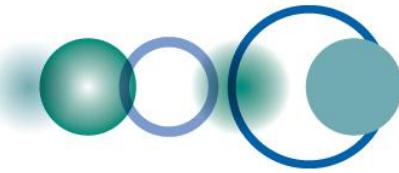
GNC-A stations, credit Diego Souza from CPTEC/INPE



The **near real-time**, global network of **satellite-based data dissemination systems** is designed to distribute **space-based, airborne and in situ data**, metadata, and products to diverse communities lacking in high speed internet access.

Connecting the Community to EO Resources

- AmeriGEOSS Capacity Building Example



GeoSUR

The screenshot shows the GeoSUR homepage with links to services like Map viewers, Web Services, NEX Services, CSM Services, Topographic Services, Hydro-Electric Potential Assessments, and Flood mapping in near-real-time. Below this is the 'Welcome to GeoSUR' section, which provides an overview of the portal's purpose and the data it contains. A large blue arrow points from the GeoSUR interface towards the search results page.

The screenshot displays two interfaces. On the left is the GEOPLATFORM.gov portal, featuring a Data Catalog, Tools, Products, Services, and Communities section. On the right is the GLOBAL Earth Observation System of Systems (GEOSS) portal, showing a global map and various data layers. A large blue arrow points from the GEOPLATFORM.gov interface towards the search results page.

The search results page shows a search for 'aguas water'. The results are categorized by source: 'Records shown from: GEO DAB' (This Site: 118 Results), 'Data.gov' (196 Results), 'GEO DAB' (69148 Results), and 'GEOSS DAB OpenSearch' (6 Results). A yellow box highlights the 'AmeriGEOSS Support' section. Below the search results is a list of species names, with several entries underlined, indicating they are links. At the bottom, there is a link to see results through REST API.

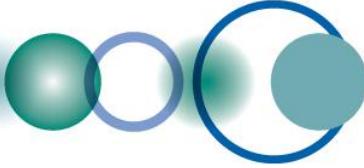
Results 1-10 of 69148 record(s) [1](#) [2](#) [3](#) [4](#) [5](#) [>](#) [Last](#)

Expand All

- [Nymphoides indica subsp. indica](#)
- [Nymphoides indica](#)
- [Nymphoides indica subsp. indica](#)
- [Nymphoides indica \(L.\) Kuntze](#)
- [Pistia stratiotes](#)
- [Nerodia rhombifer \(Hallowell, 1852\)](#)
- [Nerodia erythrogaster \(Forster in Bossu, 1771\)](#)
- [Nerodia rhombifer \(Hallowell, 1852\)](#)
- [Eichhornia crassipes](#)
- [Nerodia erythrogaster \(Forster, 1771\)](#)

See results through REST API: [GEORSS](#) [ATOM](#) [HTML](#) [FRAGMENT](#) [KML](#) [JSON](#) [DCAT](#) [CSV](#)

Increasing Discovery and Access to EO
AmeriGEOSS–GEOSSur
2016 Partnership Success



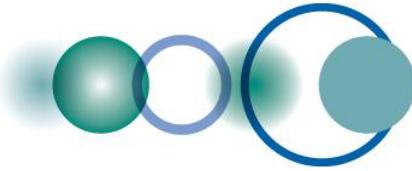
The AmeriGEOSS Community Platform is bringing together Social, Economic and Environmental data to support understanding and decision-making.

SUSTAINABLE DEVELOPMENT GOALS

17 GOALS TO TRANSFORM OUR WORLD



- | | | | |
|--|---|--|---|
| | Biodiversity and Ecosystem Sustainability | | Disaster Resilience |
| | Energy and Mineral Resource Management | | Infrastructure and Transport Management |
| | Public Health Surveillance | | Sustainable Urban Development |
| | Food Security and Sustainable Agriculture | | Water Resource Management |



About AmeriGEOSS Initiatives | Data | Tools | Products | Services | Resources |

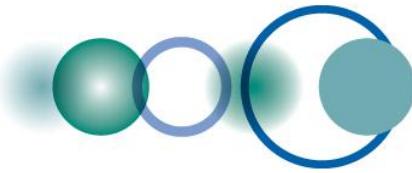
Welcome to *AmeriGEOSS Community Platform* your gateway to Earth Observation resources in the Americas.

Agriculture **Biodiversity & Ecosystems** **Disasters** **Water**

The AmeriGEOSS Platform is a regional community resource to *promote collaboration and coordination* among the GEO members in the American continent.

Your resource to share, find, discover, learn and participate in coordinated, comprehensive and sustained Earth observations for understanding and decision-making.

The screenshot shows the AmeriGEOSS homepage with a banner featuring a globe in a field, the text "WELCOME TO AMERIGEOSS", and "Your gateway to Earth Observation Resources in the Americas". Below the banner are four circular icons for "Agriculture", "Disasters", "Water", and "Biodiversity". The navigation bar at the top includes links for HOME, ABOUT, TOOLS, DATA, PRODUCTS, SERVICES, and RESOURCES, along with a search icon.

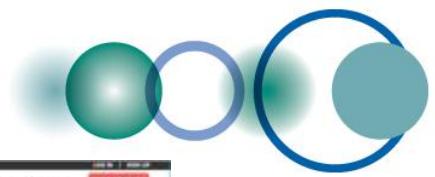


[About AmeriGEOSS](#) [Initiatives](#) | [Data](#) | [Tools](#) | [Products](#) | [Services](#) | [Resources](#) |



Data	Tools	Products	Services	Resources
<ul style="list-style-type: none"> • Catalog of Americas EO data assets, • Share, Publish, Manage and Use data • Co-create, Curate, Harmonize, Semantically enrich and tagging 	<ul style="list-style-type: none"> • Data Visualization and Modeling tools • Map Viewer and Thematic Gallery • Access a variety of community developed tools • Other Tools from providers or custom tools can be added 	<ul style="list-style-type: none"> • Publications (e.g. Agricultural, Climate Report) • Reports (e.g. Water Quality) • Brochures (Preparing for a disaster) • Others 	<ul style="list-style-type: none"> • GeoNetCast Americas • Geohazard Supersites and Natural Laboratories • Training • Workshops • Alerts & Notifications • Other 	<ul style="list-style-type: none"> • News • Social Media Resources • Community Calendar • Collaboration Tools • National and Regional Portals and Platforms • Document Library

AmeriGEOSS Linking Capabilities



Share Data, Tools, Applications and Services

Open Data Portals

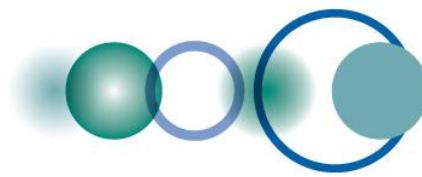
Global

National

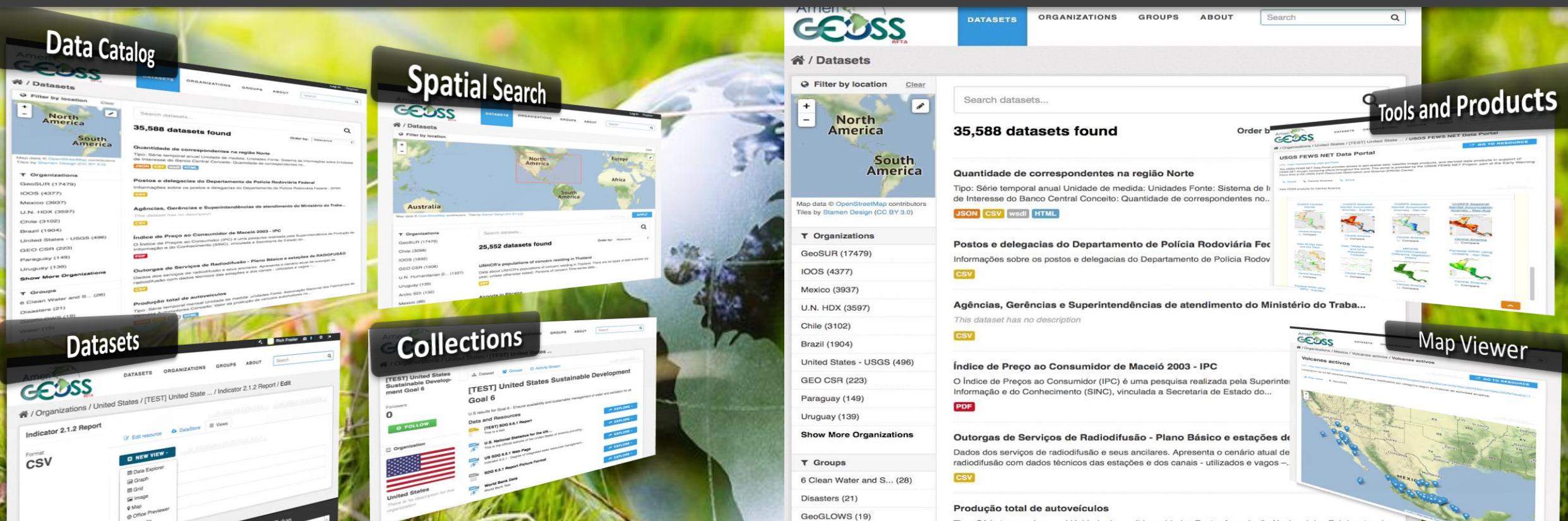
Regional

*Current assessment of available resources

AmeriGEOSS Community Platform



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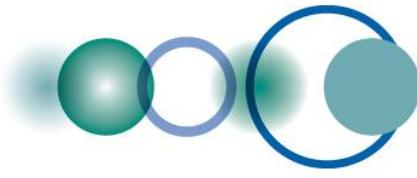
The AmeriGEOSS Community Platform prototype provides a suite of **resources and tools** for integrating, synthesizing, analyzing, problem-solving and visualizing geographically enriched data to **accelerate understanding** and **decision-making**.

- Data Catalog:** Shows a search interface for datasets, with filters for location and organization.
- Spatial Search:** Displays a map of the world with regions highlighted, and a search interface for datasets.
- Datasets:** Shows a list of datasets found, including their names and descriptions.
- Collections:** Shows a collection of datasets under a specific goal, with options to explore individual datasets.
- Tools and Products:** Shows a list of datasets found, including their names and descriptions.
- Map Viewer:** Shows a map of the Americas with data points, likely representing active volcanoes.



AmeriGEOSS Data-Hub

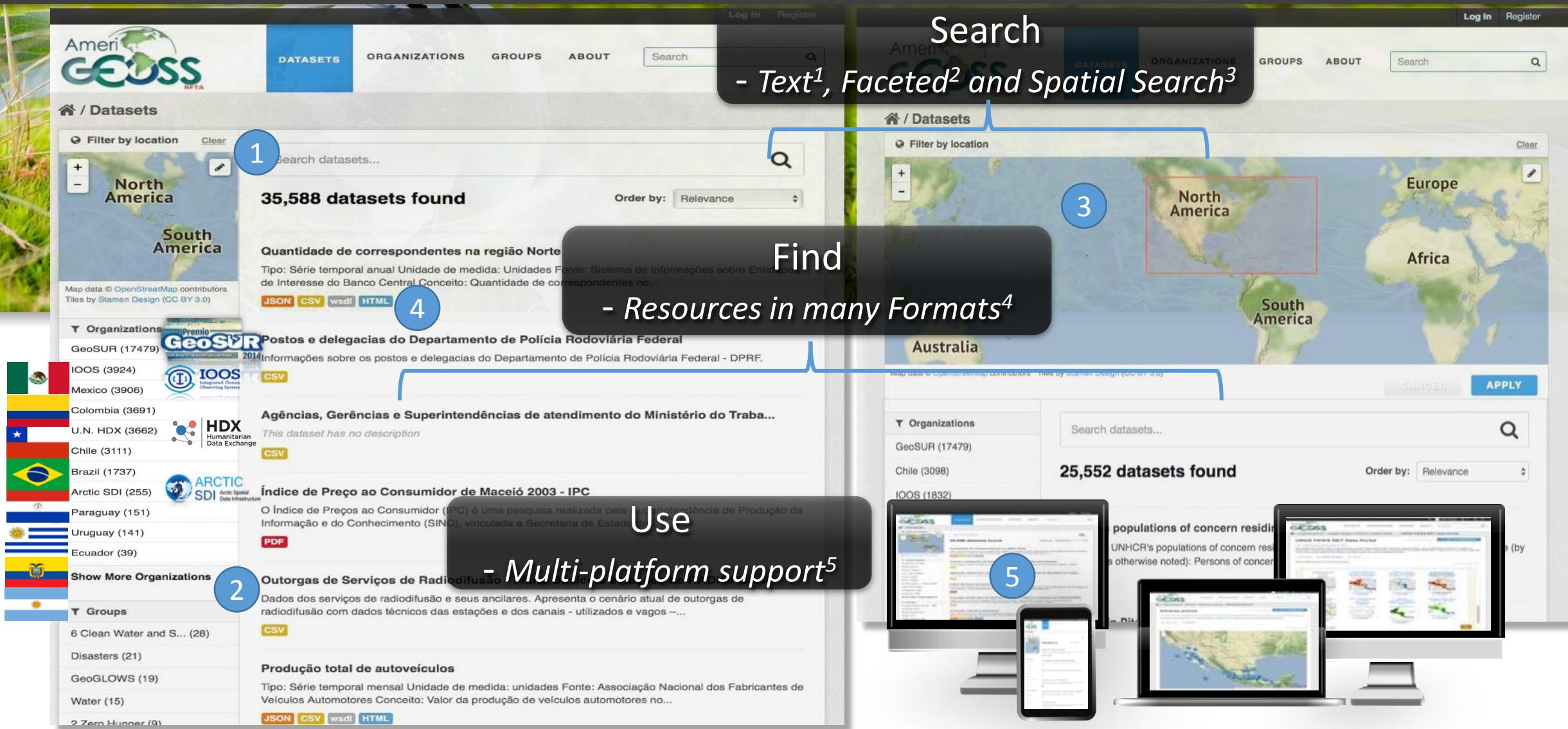
– Data Catalog and Capabilities


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Search
- Text¹, Faceted² and Spatial Search³

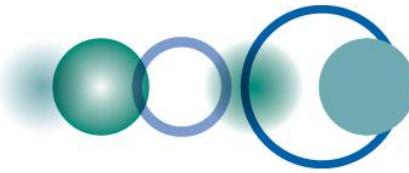
Find
- Resources in many Formats⁴

Use
- Multi-platform support⁵

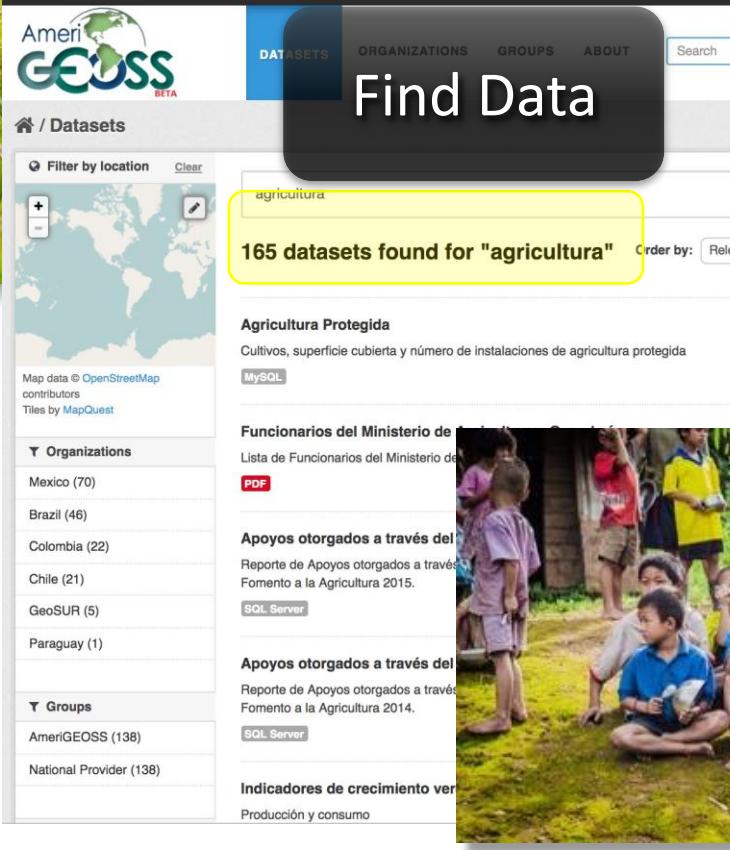


The image shows a composite screenshot of the AmeriGEOSS Data-Hub. On the left, a search interface displays a map of North America and South America with a red bounding box over North America. A search bar at the top shows '35,588 datasets found'. Below it, several dataset cards are shown, each with a title, a brief description, and download links (JSON, CSV, wsd1, HTML). One card is in Portuguese. On the right, a facet search interface shows a world map with a red bounding box over North America. It displays '25,552 datasets found' and a list of organizations like GeoSUR, Chile, and IOOS. At the bottom, three devices (laptop, tablet, smartphone) show the Data-Hub's responsive design. Numbered circles (1-5) point to specific features: 1 points to the search bar; 2 points to the organization sidebar; 3 points to the spatial search map; 4 points to the dataset preview cards; and 5 points to the multi-device view.

AmeriGEOSS Data-Hub Capabilities

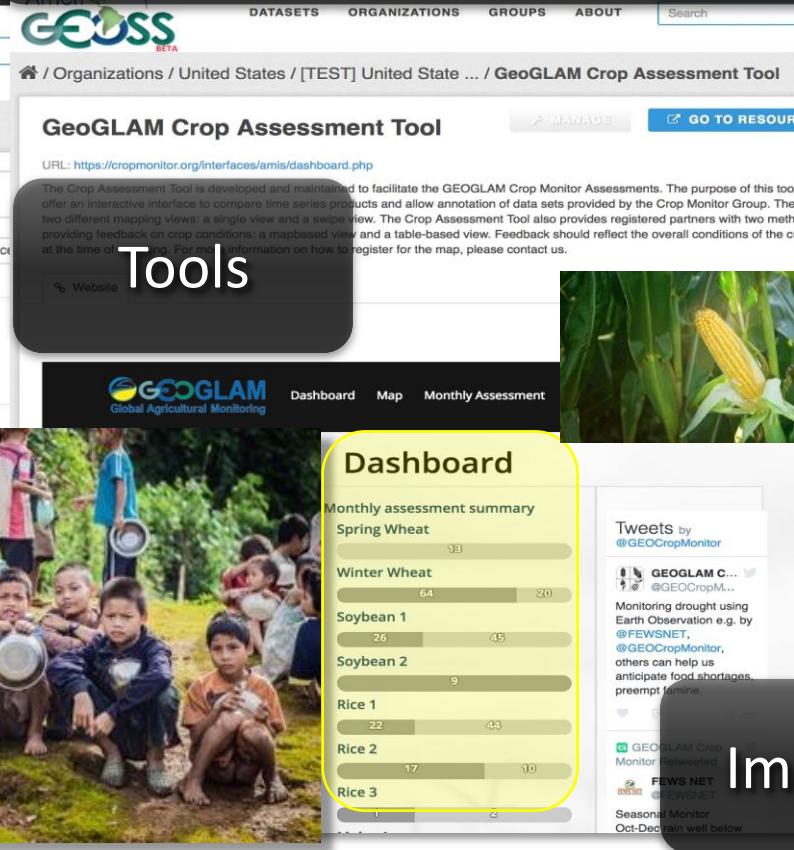

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Find Data



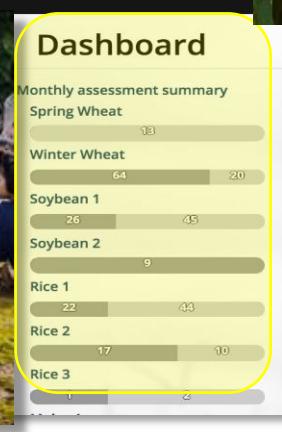
165 datasets found for "agricultura"

Tools



The Crop Assessment Tool is developed and maintained to facilitate the GEOGLAM Crop Monitor Assessments. The purpose of this tool is to offer an interactive interface to compare time series products and allow annotation of data sets provided by the Crop Monitor Group. There are two different mapping views: a single view and a swipe view. The Crop Assessment Tool also provides registered partners with two methods providing feedback on crop conditions: a map-based view and a table-based view. Feedback should reflect the overall conditions of the crop at the time of assessment. For more information on how to register for the map, please contact us.

Dashboard



Crop	Value 1	Value 2
Spring Wheat	18	
Winter Wheat	64	20
Soybean 1	26	45
Soybean 2	9	
Rice 1	22	44
Rice 2	17	10
Rice 3	1	2

Imagery



CHIRPS Seasonal Rainfall Accumulation Anomaly - Aug-Nov

CHIRPS Seasonal Rainfall Accumulation Anomaly - Dec-Apr

CHIRPS Seasonal Rainfall Accumulation Anomaly - May-Aug

Daily 30-Day Rain and Dry Days

2 ZERO HUNGER



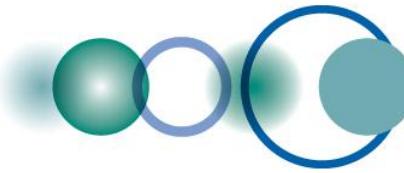
USGS FEWS NET Data Portal



HOME DATA PORTALS DATA DOWNLOAD SOFTWARE PUBLICATIONS SEARCH ABOUT AGRO-CLIMATOLOGY

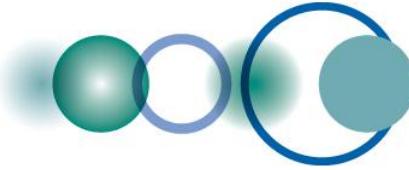
NORTH AMERICA EUROPE AFRICA SOUTH AMERICA

Data Portals: Africa, C.America/Caribbean/Mexico, Central Asia, Middle East, South Asia, Global



The image is a collage of several screenshots and graphics related to water management and environmental data. At the top left is the GEO GLOWS logo with a globe and water drop icon. Next to it is a large screenshot of the GEO GLOWS website showing search results for 'aguas' with 428 datasets found. In the center is a dark box containing the text 'Water Variables'. To the right is a screenshot of the UN Sustainable Development Goals website under the 'Clean Water and Sanitation' section, featuring a hand holding water. Below these are three smaller screenshots: one showing a world map with colored regions, another showing agricultural exposure to water, and a third showing the CEOS Water Portal. The overall theme is the intersection of environmental science, data sharing, and sustainable development.

Capacity Building - Current Status and Next Steps



Initiated



Building
Partnerships



Data needs, gap
analysis/solution
development,
linking data

Enabling
Analytical tools
for data
visualization



Establishing
Group Curators

February - September

AmeriGEOSS Week 2017
University of Costa Rica
July 31 – August 4

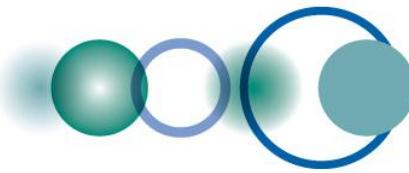


Working with
thematic working
groups on use
cases

Present early
results at the
Work Programme
Symposium and
Plenary

Strengthening Partnerships – Mobilizing Resources – Implementation





GEOSS

**Advancing the Vision of GEO:
GEOSS Implementation**



Questions?