



UN-GGIM:Americas
REGIONAL COMMITTEE OF UNITED NATIONS
ON GLOBAL GEOSPATIAL INFORMATION
MANAGEMENT FOR THE AMERICAS

9° SESSION

UN-GGIM: Americas

Geospatial activities in ECLAC 2021-2022

Horacio Castellaro
Statistics Division – ECLAC



E C L A C

Session 2: New tools for the dissemination of regional geospatial information

November 28, 29 and 30
Santiago de Chile, ECLAC

SDI Americas Website



UNITED NATIONS

Español About



Americas SDI

AMERICAS SPATIAL DATA INFRASTRUCTURE

Búsqueda



Home

SDI Background

National SDIs

Geoportal

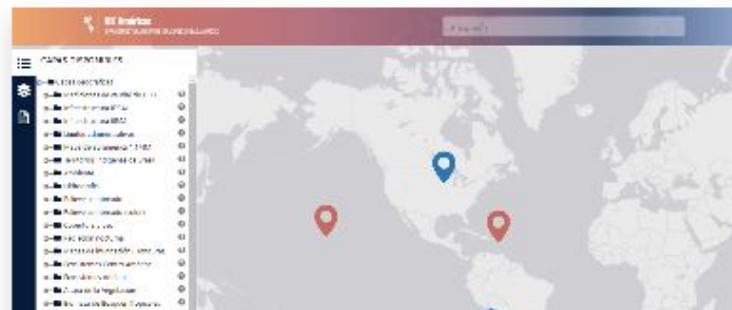
Geospatial resources

Technical documentation



Geospatial resources

Access to data, services and other geospatial resources from the Americas SDI



Americas SDI Geoportal

Geospatial layers deployment in the Americas SDI viewer



Metadata catalog

Search standardized geospatial metadata harvested from the SDI initiatives of the region

SDI Americas Website



UN-GGIM:Américas



Developed by CEPAL
United Nations

NATIONAL SDIs

A large, stylized map of South America in shades of blue serves as the background for the top section. The text "NATIONAL SDIs" is centered over the map.

[View SDI initiatives from the region](#)

STATISTICAL GEOSPATIAL INFORMATION INTEGRATION



Geospatial regional projects



MEGA, Americas Statistical Geospatial Framework

UNGGIM:Americas



CENTRAL AMERICA Project

UNGGIM:Americas



Americas Integrated Map

PAIGH - CAF. GeoSUR Programme



CARIGEO Initiative

UNGGIM:Americas

[View all the geospatial projects from the region](#)

Technical and normative documents



Latin American Metadata Profile
Version 2. LAMPv2. 2017

PAIGH - Programme GeoSUR - CNIG



Multiscale Geographic Features
and Symbology Catalog. Version
1.3. 2021

PAIGH



Fundamental Geospatial
Datasets. 2017

PAIGH



Standards Guide, Second edition
(Spanish). 2013

ISO/TC 211 Geographic Information /
Geomatics



Guide for the positional accuracy
assessment of geospatial data.
2019

PAIGH

[View more technical and normative documents](#)

GLOBAL GEOSPATIAL FRAMEWORKS AND GUIDELINES



GSGF, Global Statical Geospatial Framework
UNGGIM - United Nations Statistical Commission



IGIF, Integrated Geospatial Information Framework
UNGGIM



GGRF, Global Geodetic Reference Frame
SIRGAS



GEOSPATIAL INFORMATION AND SDG

Sustainable Development Goals



REGIONAL GEOSPATIAL PLATFORMS



CEPREDENAC Geoportal

Disaster Prevention Coordination Center of Central American and Dominican Republic, SICA



AmeriGEO DataHub

AmeriGEO



Caribbean Geoportal

CARIGEO - UNGGIM-Americas

GEOSPATIAL RESOURCES

- Fundamental datasets
- Metadata Catalog
- Geoservices monitor
- CEPALSTAT Geoportal

REGIONAL GEOSPATIAL FRAMEWORKS

- MEGA
- IGIF
- GSGF
- GGRF

SPATIAL DATA INFRASTRUCTURE

- National SDIs
- Geospatial standards
- Regional geospatial projects
- Geospatial Information and SDGs

REGIONAL ORGANIZATIONS

- UNGGIM:Americas
- PAIGH
- SIRGAS
- UN ECLAC
- AmeriGEO

Geospatial resources

UNITED NATIONS

Español About



Home

SDI Background

National SDIs

Geoportal

Geospatial resources

Technical documentation

[Home](#) • [Geospatial resources](#)

Geospatial resources



Geoservices

Geoservices



Earth Observation resources

Earth Observation resources



Geospatial technologies

Geospatial technologies

GEOSPATIAL RESOURCES

- Fundamental datasets
- Metadata Catalog
- Geoservices monitor
- CEPALSTAT Geoportal

SPATIAL DATA INFRASTRUCTURE

- National SDIs
- Geospatial standards
- Regional geospatial projects
- Geospatial Information and SDGs

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- UNGGIM:Americas
- PAIGH
- SIRGAS
- UN ECLAC
- AmeriGEO

REGIONAL GEOSPATIAL FRAMEWORKS

- MEGA
- IGIF

[Home](#)[SDI Background](#)[National SDIs](#)[Geoportal](#)[Geospatial resources](#)[Technical documentation](#)[Home](#) • [Geospatial resources](#) • [Geoservices](#)

Geoservices

Country	Level	Node	Institution	Geoservices
			Project	Clic to copy URL
Argentina	Nacional	Jefatura de Gabinete de Ministros	Secretaría de Políticas Integrales sobre Drogas de la Nación Argentina (SEDRONAR)	WMS WFS
Argentina	Nacional	Ministerio de Agricultura, Ganadería y Pesca	Instituto Nacional de Tecnología Agropecuaria (INTA)	WMS WFS
Argentina	Nacional	Ministerio de Agricultura, Ganadería y Pesca	Servicio Nacional de Sanidad y Calidad Agroalimentaria (SENASA)	WMS WFS WCS
Argentina	Nacional	Ministerio de Ambiente y Desarrollo Sostenible	Ministerio de Ambiente y Desarrollo Sostenible	WMS WFS
Argentina	Nacional	Ministerio de Ambiente y Desarrollo Sostenible	Inventario Nacional de Glaciares	WFS
Chile	Nacional	Ministerio de Bienes Nacionales	Rutas Patrimoniales Ámbitos	WMS WFS ArcGIS Rest
Chile	Nacional	Ministerio de Bienes Nacionales	Propiedad Fiscal Administrada	WMS ArcGIS Rest

[Home](#) • [Geospatial resources](#) • [Earth Observation](#)

Earth Observation resources

The use of Earth Observations represents an opportunity to obtain reliable, timely and continuous information, which, integrated with geospatial information and official statistics, directly supports the monitoring and measurement of the SDG indicators.

Through the processing of satellite images, it is possible to obtain relevant quantitative information regarding the surface of the earth, being possible to identify the surface of water, cultivation, urban expansion, among many other phenomena of both natural and artificial origin.



Copernicus Open Access Hub
Global
ESA, European Space Agency

The Copernicus Open Access Hub platform provides full, free and open access to Sentinel-1, Sentinel-2, Sentinel-3 and Sentinel-5P products. All the information about the products offered and the user guide can be found on this site



[Copernicus Open Access Hub](#) 



Earth Explorer
Global
USGS, United States Geological Survey

The Earth Explorer platform of the United States Geological Survey (USGS), offers a wide collection of different satellite products, such as Landsat images, Radar images, UAS (Unmanned Aerial Systems) data, digital line graphs, elevation model data digital, aerial photos, Sentinel satellite data, some commercial satellite imagery including IKONOS and OrbView3, land cover data, digital map data, and many other data sets. Users can search by exact location via the interactive map or enter specific coordinates to see what types of data are available for a particular area.



[Earth Explorer Platform](#) 



NASA EOSDIS
Global
NASA, National Aeronautics and

NASA EOSDIS is a key hub in NASA's Earth Science Data Systems Program for archiving and distributing data from multiple space missions to users. It is possible to filter the search for satellite products by their characteristics, by keyword (theme), by capture platform, by instrument used, by responsible organization, by processing level, data format, among



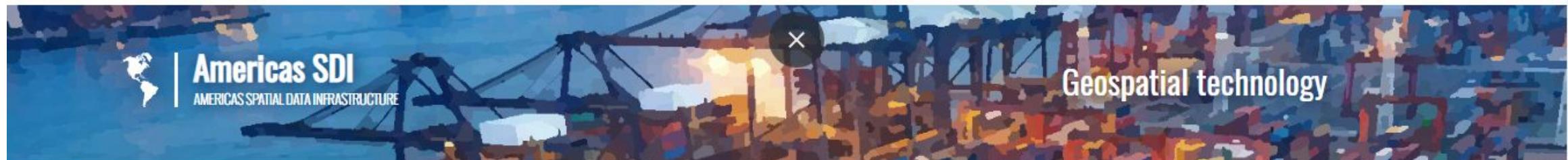
[NASA Earth Observation System Data and Information System \(EOSDIS\)](#)

Geospatial technology

UNITED NATIONS

Español

About



Home

SDI Background

National SDIs

Geoportal

Geospatial resources

Technical documentation

[Home](#) • [Geospatial resources](#) • [Geospatial technology](#)

Geospatial technology

Tipo de recurso	Nombre	Creador	Licencia	Recursos asociados
Geospatial databases	PostGIS	PostGIS Community	Open Source	PostGIS
Mobile data collector	OSMand	OSMAnd Community	Open Source	OSMand
Mobile data collector	QField	QField Community	Open Source	QField
Mobile data collector	KoboToolBox	Kobo Inc.	Open Source	KoboToolBox
Metadata catalog	GeoNetwork	GeoNetwork Community	Open Source	GeoNetwork
Metadata editor	CatMEdit	IGN Spain, IAAA, Zaragoza University	Privativa	CatMEdit
Webmapping Javascript library	MapLibre GL JS	MapLibre Community	Open Source	MapLibre GL JS

[Home](#) • [National SDI](#)

Costa Rica

[Seleccionar otro país](#)

IDECORI

SDI Name	Spatial Data Infrastructure of Costa Rica	
SDI Webpage	https://www.snitcr.go.cr/index2	
Coordinating institution	National Geographic Institute	
Geoservices	https://www.snitcr.go.cr/ico_servicios_ogc	
SDI Nodes	https://www.snitcr.go.cr/Visor/nodos2	
Technical documents	https://www.snitcr.go.cr/ico_normativa	
Geoportal	https://www.snitcr.go.cr/Visor/index2019	

UNGGIM:Americas national focal point:

Instituto Geográfico Nacional



Americas SDI
AMERICAS SPATIAL DATA INFRASTRUCTURE

National SDI

Home SDI Background National SDIs Geoportal Geospatial resources Technical documentation

[Home](#) • [National SDI](#)



Granada

[Seleccionar otro país](#)

UNGGIM:Americas national focal point:
Lands & Surveys Division of the Ministry of Agriculture





Americas SDI
AMERICAS SPATIAL DATA INFRASTRUCTURE

GSGF

Home SDI Background National SDIs Geoportal Geospatial resources Technical documentation

[Home](#) • [GSGF](#)

The Global Statistical Geospatial Framework

The Global Statistical Geospatial Framework (GSGF) is a high-level framework which facilitates consistent production and integration approaches for geo-statistical information. It is generic and permits application of the framework principles to the local circumstance of individual countries.

The global framework has been developed by the joint UNSC/UN-GGIM Expert Group on Integration of Statistical and Geospatial Information, based on a national framework in Australia. Having a common method of geospatially enabling statistical and administrative data and integrating this with geospatial information through an internationally agreed framework will enable:

- new, better and more integrated information for analysis and decision making processes;
- comparisons within and between countries;
- increased information on smaller geographic areas;
- the development of common tools/applications to support the integration and sharing of data;
- commercial development of geospatial tools that will further support data integration; and,
- generally more efficient production of information.



Please see more details in the document The Global Statistical Geospatial Framework.

[Global Statistical Geospatial Framework](#)

Global Statistical and Geospatial Framework (GSGF) e-Learning courses.

PAIGH - UN Census - UNGGIM

[Go to course](#)



ECLAC

CEPALGEO

Spatial data infrastructure of the CEPAL

Search

HOME

BACKGROUND

GEOPORTAL

METHODOLOGY RESOURCES

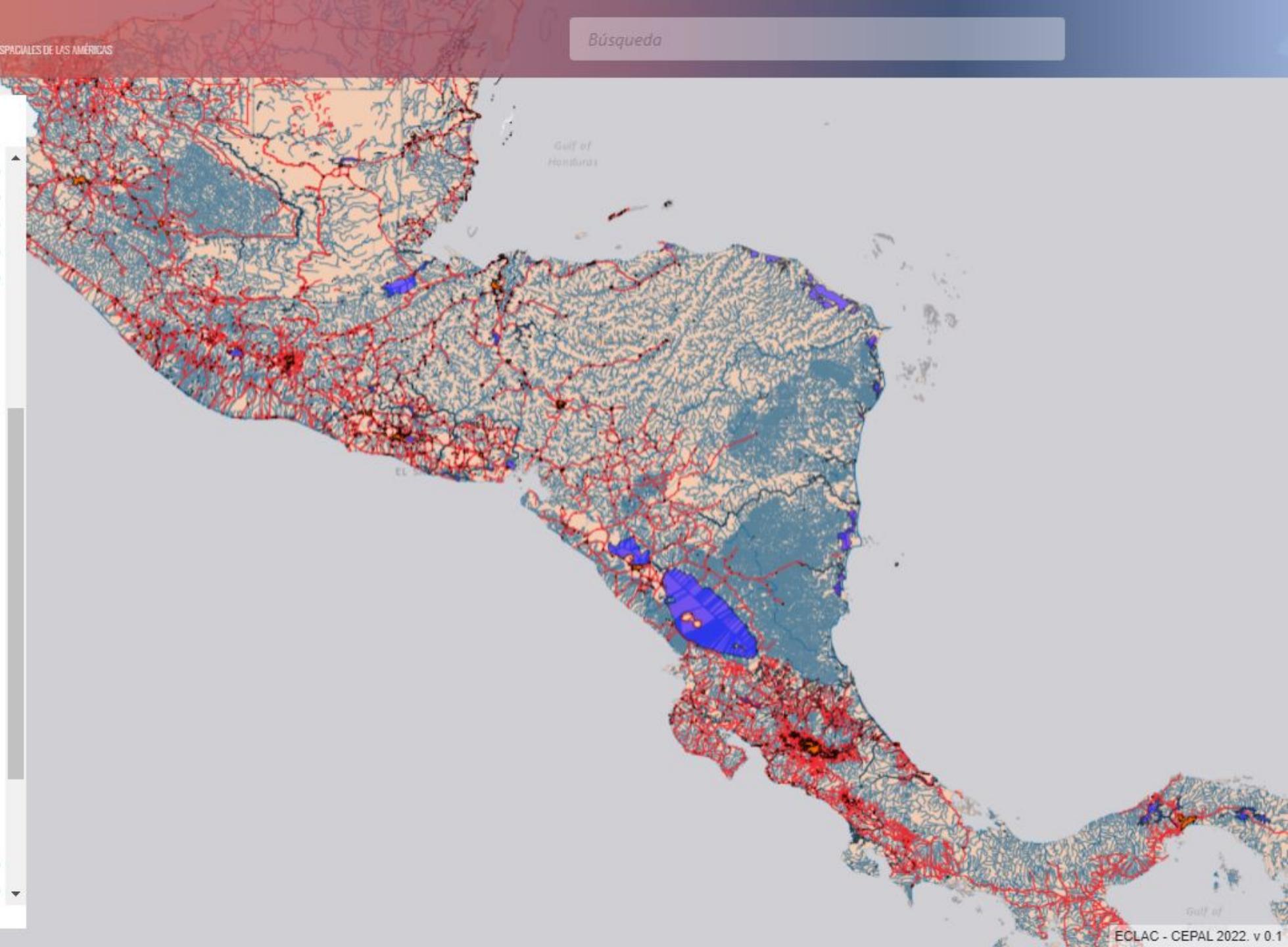
GEOSERVICES OCG/OPEN DATA

Geospatial library

World	Geospatial community's response to COVID-19	UNGGIM	Geospatial community's response to COVID-19 en
World	Future trends in geospatial information management: the five to ten year vision	UNGGIM	Future trends in geospatial information management: the five to ten year vision en
Chile	Política Nacional de Información Geoespacial	Gobierno de Chile	Política Nacional de Información Geoespacial sp
Mexico	Marco Geoestadístico. Censo de Población y Vivienda	INEGI	Marco Geoestadístico. Censo de Población y Vivienda sp
Colombia	Estándares de Información Geoespacial	Infraestructura Colombiana de Datos Espaciales (ICDE)	Estándares de Información Geoespacial sp
World	Handbook of Spatial Analysis: Theory and practical application with R	Insee - Eurostat	Handbook of Spatial Analysis: Theory and practical application with R en
Peru	Guía de Buenas Prácticas para la implementación de Infraestructuras de Datos Espaciales Institucionales	Oficina Nacional de Gobierno Electrónico e Información (ONGEI)	Guía de Buenas Prácticas para la implementación de Infraestructuras de Datos Espaciales Institucionales en

AVAILABLE LAYERS

- Urban Expansion Maps
- Climate
- Deforestation Gran Chaco
- Andean Amazonian Map
- Coral reefs
- Central America integrated Map
 - Topónimo
 - Poblado
 - Punto acotado
 - Puntos de interés
 - Etiqueta de país
 - País
- Nivel_1A
- Nivel_2A
- Nivel_3A
- Línea de costa
- Mancha urbana
- Autopista
- Otras carreteras
- Vía de ferrocarril
- Isla
- Lagos y ríos
- Otro tipo de cuerpo de agua
- Forma hidrográfica
- Curso principal de agua
- Tipo de curso de agua
- Elevaciones
- Peru-Bolivia ecological systems
- Caribbean islands use and coverage



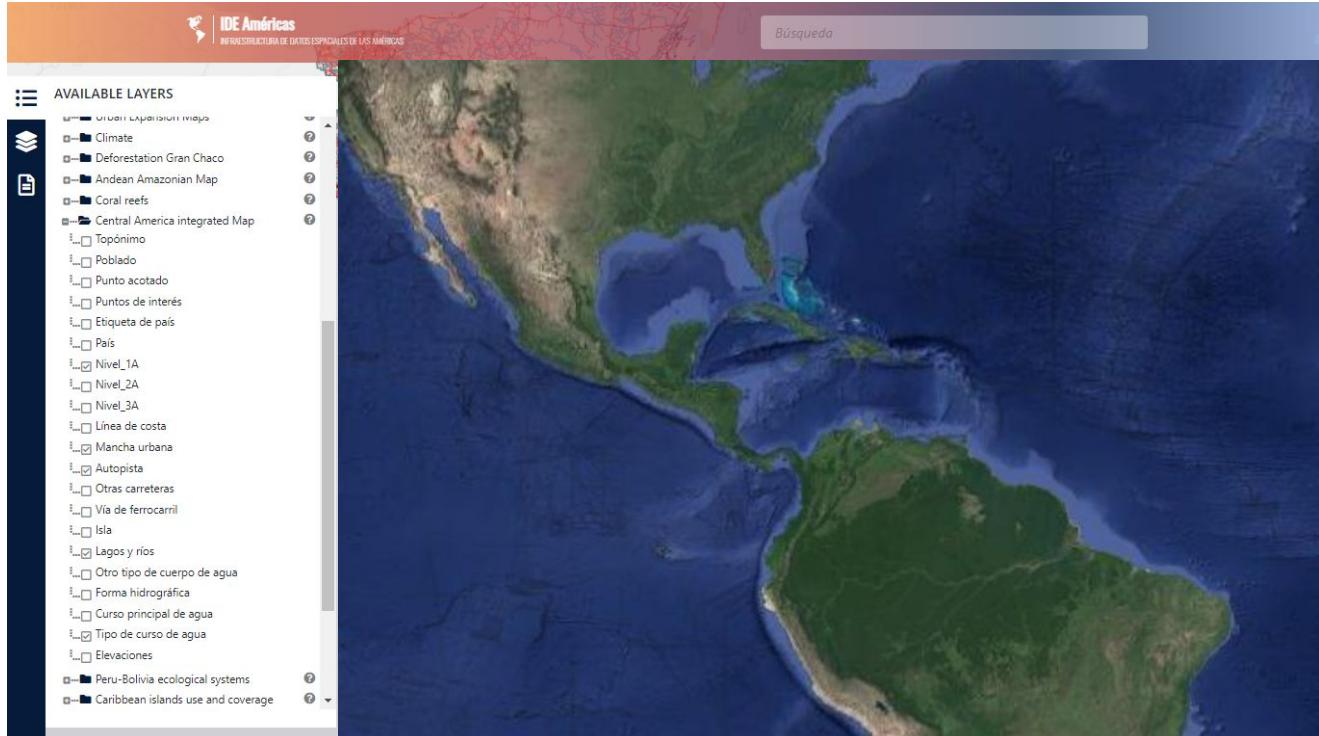
Geoportal



FINANCING DEVELOPMENT • LATIN AMERICA



Mapa Integrado Andino del Norte



Metadata catalog

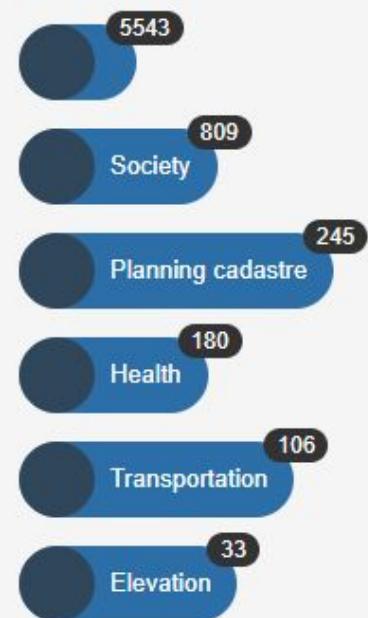


Search ...

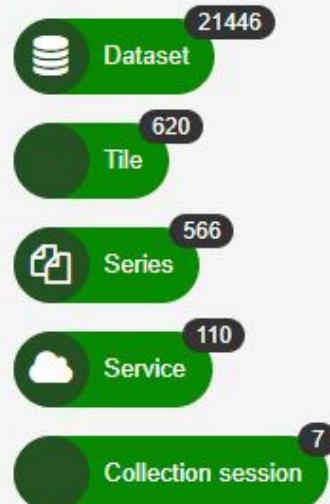


Search **103580** data sets, services and maps, ...

Browse by  Topic



Type of resources



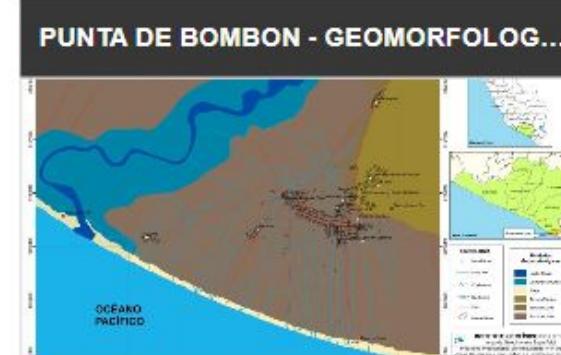
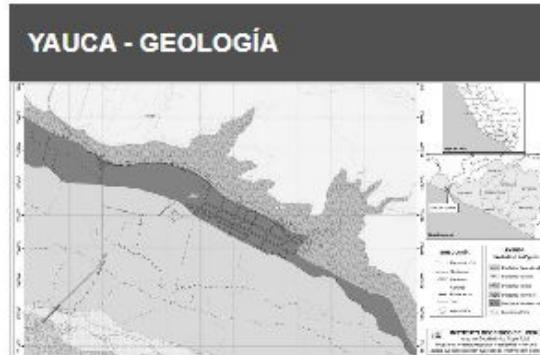
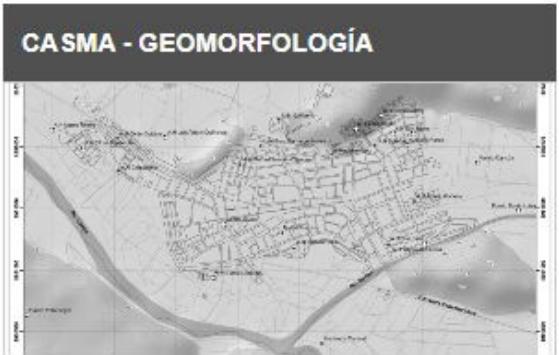
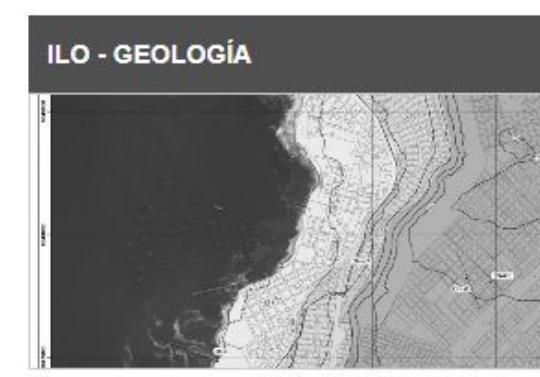
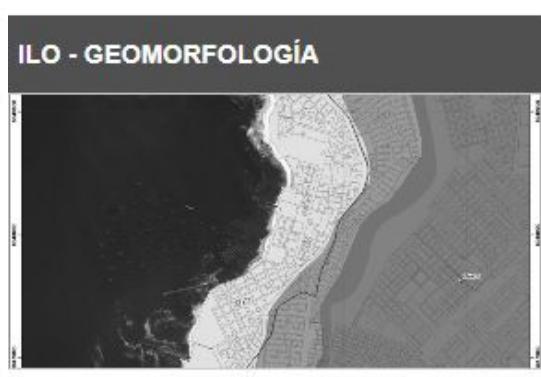
Metadata catalog



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Metadata catalog harvesting

IDF Américas INFRAESTRUCTURA DE DATOS ESPAÑOLES DE LAS AMÉRICAS

Search Map Sign in English

Search ...

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The screenshot shows a grid of eight map thumbnails from the IDF Américas catalog. The datasets are:

- BASE TEMÁTICA VETORIAL 1:1000.00...
- ILLO - GEOMORFOLOGÍA
- ILLO - GEOLOGÍA
- SAN CLEMENTE - GEOMORFOLOGÍA
- CASMA - GEOMORFOLOGÍA
- YAUCA - GEOLOGÍA
- PUNTA DE BOMBON - GEOMORFOLOGÍA
- PUNTA DE BOMBON - GEOLOGÍA

National SDIs



CSW
WMS
WFS
WCS



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