



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

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



UNITED NATIONS



November 28, 29 and 30
Santiago de Chile, ECLAC



Americas SDI

AMERICAS SPATIAL DATA INFRASTRUCTURE

Búsqueda



[Home](#)

[SDI Background](#)

[National SDIs](#)

[Geoportal](#)

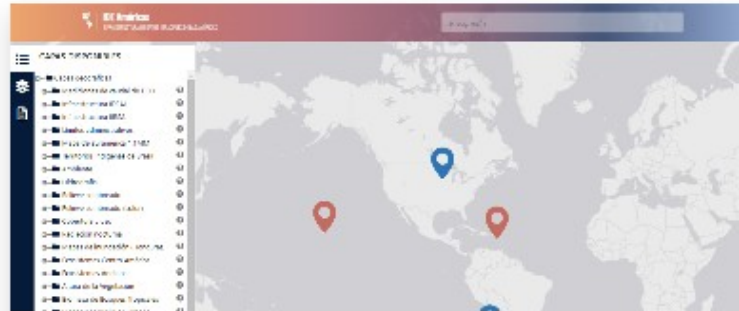
[Geospatial resources](#)

[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



Developed by CEPAL
United Nations

NATIONAL SDIs

[View SDI initiatives from the region](#)

STATISTICAL GEOSPATIAL INFORMATION INTEGRATION




SDI Americas Website

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
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[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
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[View more technical and normative documents](#)

GLOBAL GEOSPATIAL FRAMEWORKS AND GUIDELINES



GSGF, Global Statical Geospatial Framework

UNGGIM - United Nations Statistical Commision



IGIF, Integrated Geospatial Information Framework

UNGGIM



GGRF, Global Geodetic Reference Frame

SIRGAS



GEOSPATIAL INFORMATION AND SDG

Sustainable Development Goals



SDI Americas Website

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
- GGFR

SPATIAL DATA INFRASTRUCTURE

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

REGIONAL ORGANIZATIONS

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



[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](#)

REGIONAL GEOSPATIAL FRAMEWORKS

- [MEGA](#)
- [IGIF](#)

SPATIAL DATA INFRASTRUCTURE

- [National SDIs](#)
- [Geospatial standards](#)
- [Regional geospatial projects](#)
- [Geospatial Information and SDGs](#)

REGIONAL ORGANIZATIONS

- [UNGGIM:Americas](#)
- [PAIGH](#)
- [SIRGAS](#)
- [UN ECLAC](#)
- [AmeriGEO](#)



[Home](#)

[SDI Background](#)

[National SDIs](#)

[Geoportal](#)

[Geospatial resources](#)

[Technical documentation](#)

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

Geoservices

Country	Level	Node	Institution <i>Project</i>	Geoservices <small>Clic to copy URL</small>
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](#)

[SDI Background](#)

[National SDIs](#)

[Geoportal](#)

[Geospatial resources](#)

[Technical documentation](#)

[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.




Global

Copernicus Open Access Hub

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](#) 



Global

Earth Explorer

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](#)






Global

NASA EOSDIS

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 \(EOSDIS\)](#) 



[Home](#)

[SDI Background](#)

[National SDIs](#)















[Geoport](#)

[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		MapLibre GL JS

National SDI

UNITED NATIONS Español About



Home SDI Background National SDIs Geoportal Geospatial resources Technical documentation

[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 

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



[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](#)



CEPALGEO

Spatial data infrastructure of the CEPAL

[HOME](#)















[BACKGROUND](#)

[GEOPORTAL](#)

[METHODOLOGY RESOURCES](#)

[GEOSERVICES OCG/OPEN DATA](#)

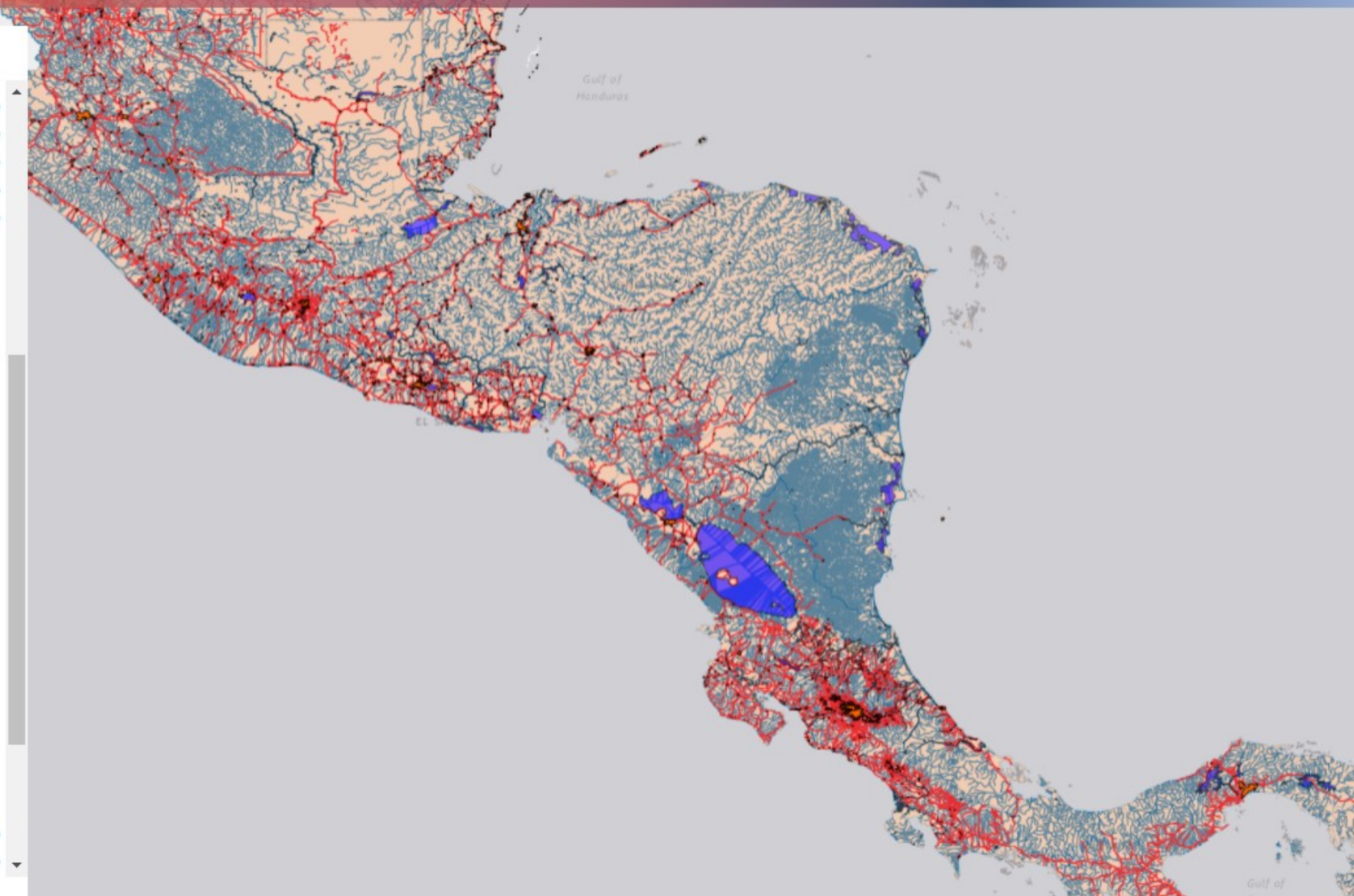
Geospatial library

 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

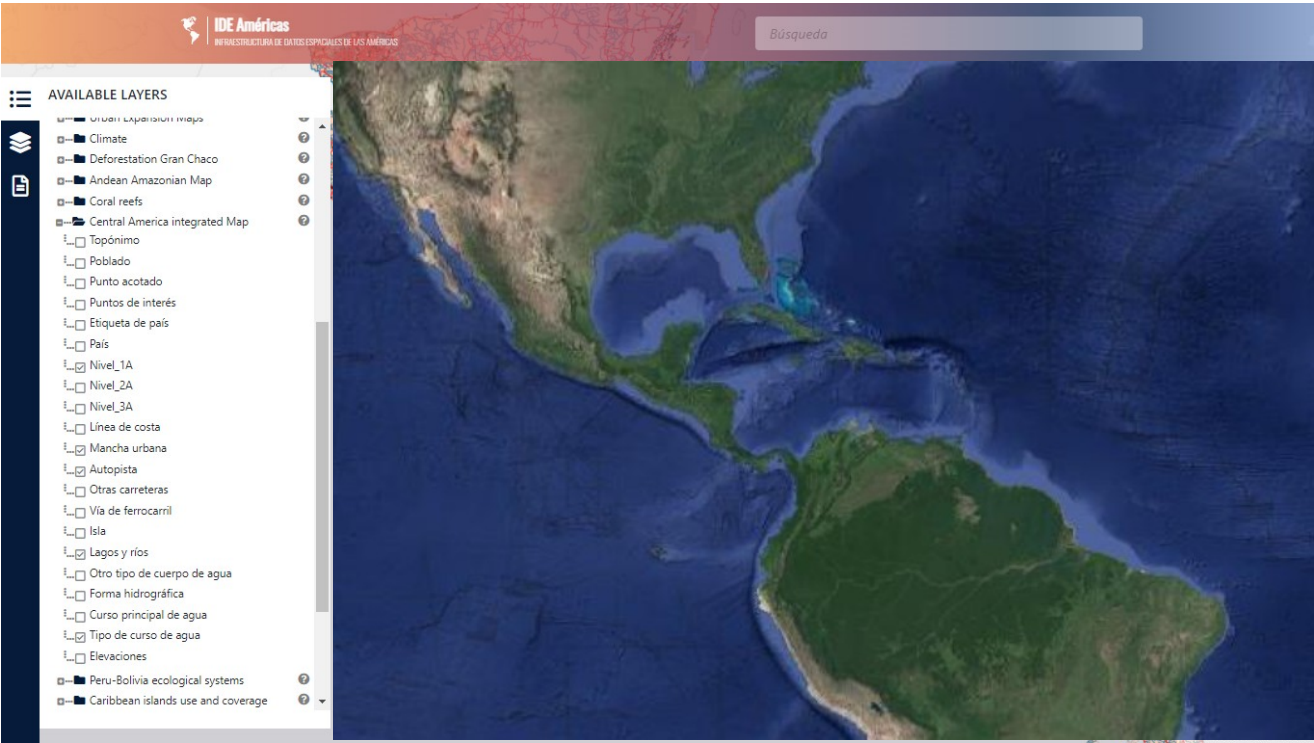
- Urban Expansion maps
- Climate
- Deforestation Gran Chaco
- Andean Amazonian Map
- Coral reefs
- Central America integrated Map
- Topónimo
- Poblado
- Punto acotado
- Puntos de interés
- Etiqueta de país
- País
- Nivel_1A
- Nivel_2A
- Nivel_3A
- Línea de costa
- Mancha urbana
- Autopista
- Otras carreteras
- 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



Mapa Integrado Andino del Norte



Metadata catalog

Search ...

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

Browse by Topic

Imagery base maps earth ... **76815**

Location **944**

Boundaries **567**

Physical Aptitude Project **219**

Climatology, meteorology, ... **166**

Inland waters **62**

Biota **20**

Environment **14456**

Farming **822**

Geoscientific information **246**

Economy **195**

Structure **127**

Utilities communication **61**

Ambiente **3**

5543

Society **809**


Planning cadastre **245**


Health **180**


Transportation **106**


Elevation **33**


Type of resources

 Dataset **21446**

 Tile **620**

 Series **566**

 Service **110**

 Collection session **7**

Metadata catalog

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

BASE TEMÁTICA VETORIAL 1:1.000.00...



ILO - GEOMORFOLOGÍA



ILO - GEOLOGÍA



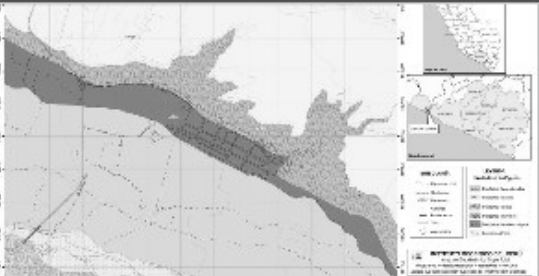
SAN CLEMENTE - GEOMORFOLOGÍA



CASMA - GEOMORFOLOGÍA



YAUCA - GEOLOGÍA



PUNTA DE BOMBON - GEOMORFOLOG...



PUNTA DE BOMBON - GEOLOGÍA



Metadata catalog harvesting

The screenshot shows the IDE Américas metadata catalog interface. At the top, there is a navigation bar with the logo 'IDE Américas' and the text 'INFRAESTRUCTURA DE DATOS ESPACIALES DE LAS AMÉRICAS'. To the right of the logo are links for 'Search' and 'Map', and further right are 'Sign in' and 'English' options. Below the navigation bar is a search bar with the placeholder text 'Search ...' and a magnifying glass icon. Below the search bar, it says 'Search 103580 data sets, services and maps, ...'. The main content area displays a grid of eight map thumbnails, each with a title and a small map preview. The thumbnails are: 1. 'BASE TEMÁTICA VETORIAL 1:1.000.00...' showing a topographic map of South America. 2. 'ILO - GEOMORFOLOGÍA' showing a grayscale topographic map of a coastal area. 3. 'ILO - GEOLOGÍA' showing a grayscale geological map of a coastal area. 4. 'SAN CLEMENTE - GEOMORFOLOGÍA' showing a topographic map of a coastal area with a large brown circular feature. 5. 'CASMA - GEOMORFOLOGÍA' showing a grayscale topographic map of a coastal area. 6. 'YAUCA - GEOLOGÍA' showing a grayscale geological map of a coastal area. 7. 'PUNTA DE BOMBON - GEOMORFOLOG...' showing a topographic map of a coastal area with a blue area labeled 'OCÉANO PACÍFICO'. 8. 'PUNTA DE BOMBON - GEOLOGÍA' showing a grayscale geological map of a coastal area.

National SDIs



CSW
WMS
WFS
WCS



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