

2012

**Cartographic
Country report
for Uruguay**

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Abstract

Uruguay is located to the southeast of South America between parallels 30 and 35 S and meridians 53 and 58 W. To the North and Northeast it has borders with Brazil, to the West with Argentina and to the South with the Río de la Plata river and to the SouthEast with the Atlantic Ocean.

We are 3.150.000 inhabitants and the total area is about 176.000 square kilometers.

GDP in 2011 reached \$ 52.11 billion and annual growth rate: 5.7%.

This reports aims to inform on the development and management of Geographic Information of Uruguay.

The Military Geographical Service was created in 1913 in order to perform the Topographic Map of Uruguay. It is in charge for the country official mapping, with complete coverage since 1980 at scale 1:50.000 (paper).

Vision

Be a quality benchmark in the production of Uruguayans' geographic information with national and international recognition.

National Mapping Agency

Servicio Geográfico Militar, SGM (Military Geographic Service)

www.sgm.gub.uy

Mission

- To ensure the preparation, updating, conservation, distribution and evaluation of cartographic products, in order to support the essential mission assigned to the Army by the law, supporting the integral planning of the Security and **National Development activities**.
- To **supervise, control and approve all the publications** generated by the State and Private Organisms.
- To establish, preserve and improve **National Geodetic Networks** of triangulation (now GNSS), leveling, gravimetry and Earth's magnetism.
- To integrate study commissions and **characterization of our international limits** and to take part of the **representation of the country in all the activities of its speciality** and commitments derivatives of international character
- To establish, to maintain and operate a **Geographic Information System (GIS)** to support management and decision making.

We have participated with several projects and achievements, some of them are:

Global Mapping, ISCGM <http://www.iscgm.org/>

Version 1 was published; Version 2 will be available before end of this year.

Geocentric Reference System for the Americas, SIRGAS, <http://www.sirgas.org/>

There is an Official Data Processing Centre at SGM, we have processed 74 CORS of the Continent (Brazil, Argentina, Uruguay, NASA, IGS).

Weekly Net solutions are prepared for the centers of combination and analysis.

Available and Free Services

- **GNSS network**
- **Post processing files**
- **RTK** From the Uruguayan CORS Net REGNA, NTRIP protocol.
- **WMS** (Web Map Service)

<http://service.sgm.gub:8080/sgm>

- **Scale map of the country 1/1.000.000**
- **Scale map of the country 1/50.000 have been available for 30 years in paper and in digital format for 10 years.**
- 303 topographic scale maps 1:25.000. South part of country is in progress. 18 departmental capitals scale 1:10.000 and other cities and towns at the same scale 1/10.000.
- Metadata search service through the Geonetwork Software, which allows us to have the metadata and services of the SGM. It may also consult the geo bibliography and old maps.
- It is available to users a map viewer and images
- **WFS** (Web Feature Service): Basic mapping scale 1.1.000.000.

SDI - Uruguay

Spatial Data Infrastructure of Uruguay (IDEuy) is an initiative of the National Executive Branch, coordinated by the AGESIC (Agency for the Management of Electronic Government and Information Society and Knowledge), which aims to position itself as an essential instrument to support decision-making through the use of geographic information.

Since its inception, has sought to coordinate IDEuy, standardize and make available geographic information generated in the country. This has been possible thanks to the valuable contribution made by public agencies on their contributions both in the information and technicians who have participated in working groups.

The beginning of the Spatial Data Infrastructure in Uruguay has been the result of an evolutionary process in which various institutions have participated.

There have been several milestones that helped in the realization of the objectives. However, it can be considered that the creation of Spatial Data Infrastructure of Uruguay born with the sanction of the executive decree of June 16, 2006. It includes the need to create a National Cadastre and the coordination of spatial data infrastructure nationwide.

In order to optimize the performance of IDEuy have been created within AGESIC two advisory groups: the CAHSIG and GTIDE. The first with a strategic vision while the second with a technical function.

Some of the objectives to be achieved are:

- Compatibility between IG.
- Avoid the lack of coordination, duplication of functions.
- Use human and material resources efficiently.
- Use common rules and standards for processes involving the handling of geographical indications.