GEOSUR PROGRAM





Annex 7

Geospatial Information Network for the South American Integration

In Support to the Planning and Development of the Regional Infrastructure

Eric van Praag, Technical Coordinator – GeoSUR Program, CAF

Objectives of the GeoSUR Program

- To provide the people in charge of the decision-making process with national and multinational digital base maps that facilitate the planning of the physical infrastructure and the regional development.
- To facilitate and promote collaboration among the geographic institutions in the region (and other relevant ones) in order to jointly update, share and work with the geospatial information.

Profile of the GeoSUR Program

Geographic area: The 12 countries in South America

Implementation period: 2007 - 2008

Agencies:

- National geographic institutes
- Ministries of planning / infrastructure / public works (depending on each country)
- Ministries of the environment
- Pan American Institute of Geography and History (PAIGH)
- United States Geological Service (USGS)
- Secretary of the Inter American Biodiversity Information Network (IABIN)

IIRSA Information Needs

PREMISE: The regional integrated information, developed under common standards, with different resolutions and homogeneous quality facilitates the decision-making process.

The information related to space in South America has some failures:

- There are "gaps" in the information.
- It is not always possible to integrate the information in the borders.
- There are few regional standards.
- It is difficult to localize the information and to have access to it.
- The duplication of efforts is very common in data creation.
-

Use of Technology in other regions

IABIN: Development of a geospatial network for Meso America and the Caribbean (2004 – 2006).

GOS: Geospatial One Stop of USA. It integrates space geointegrators, geoservers, catalogues and data bases in a decentralized network.

Global Map of the Americas: Planned within the framework of the Global Map project – still without financing

... and similar initiatives in Europe, Asia . . even in Africa

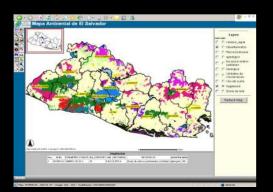
CONDOR: Interactive SIG developed by the CAF and the CI for the Andean region

IABIN Geospatial Network – Meso America

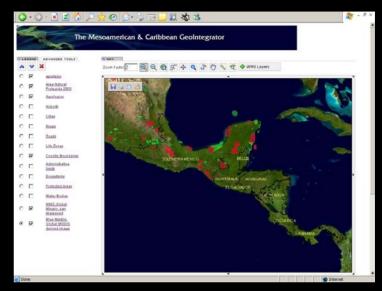
- Active in Central America and the Caribbean.
- More than 20 institutions participate and more than 18 geoservers are under operation.
- The geointegrator is operating in Panamá.



ANAM Panamá with protected areas



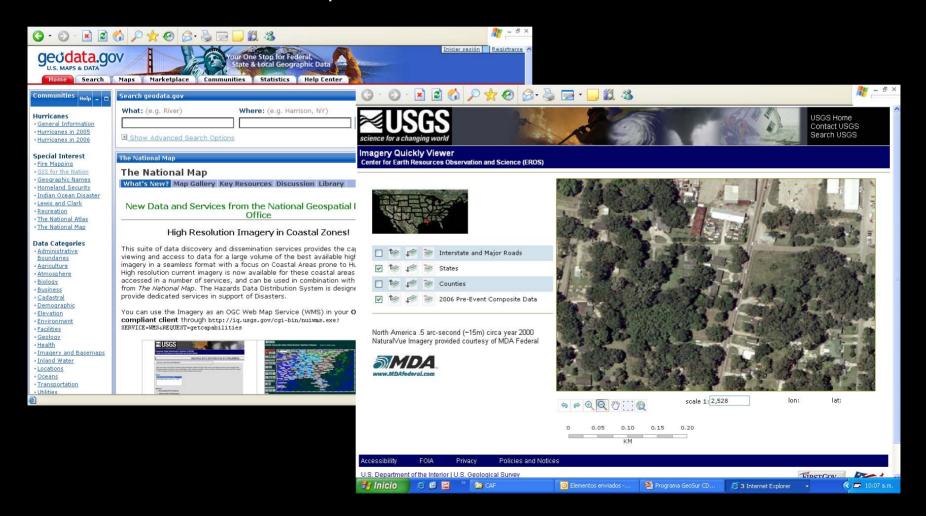
MARN El Salvador with vegetation map





Geospatial One Stop - USA

- Geospatial web site of the USA government.
- Free access.
- More than 150 geoservers with more than 40,000 maps and images.
- Levels: central, state, municipal and tribal.



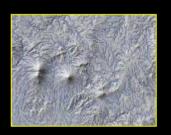
GeoSUR Products



GeoIntegrator: System that allows the integration of space data from the map services of the institutions involved.



Network of geoservers: Services of operative maps in each of the institutions involved.



Maps derived from elevation: Integrated, standardized and homogeneous maps of South America derived from the MED SRTM (30 m.).

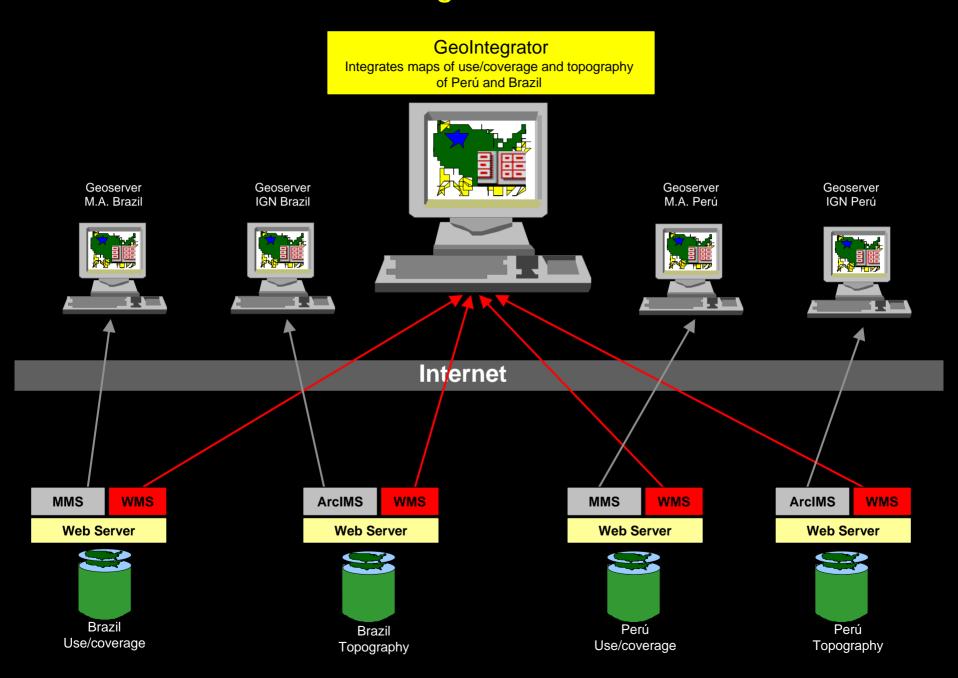


Base maps of South America: Integration of national base maps in a mosaic of regional maps (e.g. highway administration, populated centers, etc.)



Geospatial catalogues: Creation of metadata and catalogues (clearinghouse)

GeoSur Program - Architecture



Implementation of the GeoSUR

 Stage I: Definition of concepts, dimensions, parameters, initial technological evaluation, design of the operative guidelines, alliances, initial products, presentation and agreements with the institutions involved (March, 2007).

 Stage II: Gathering of information on the needs of the involved institutions, final technological evaluation, training of key teams, development of advanced functions of the geointegrator, incorporation of new geoservers, development of a 3D model of South America, development of specialized regional layers, public launch (December, 2008).



GeoIntegrator: Operative in a web site that uses free software

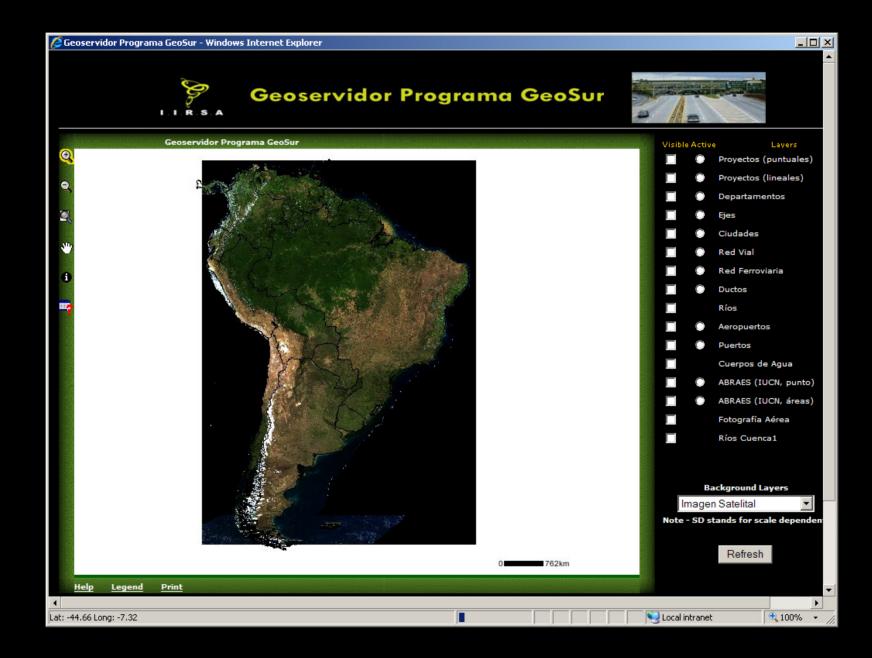


Regional Geoserver: With regional data and images as well as IIRSA information



Maps derived from elevation: relief, basins, rivers, slopes and aspects of a basin in Ecuador

M







Portal Geoespacial Programa GeoSUR



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Las metas de Programa GeoSUR son:

- Colocar a disposición del público mapas base digitales que faciliten la planificación de la infraestructura fisica regional.
- Desarrollar la información geográfica espacial supranacional como un bien público regional.
- Contar con un servicio público gratuito y descentralizado de diseminación de información espacial en Internet.
- Facilitar la localización, acceso y aplicación de la información geoespacial existente en la región.

El Programa GeoSUR promueve que se comparta la información temática y georeferenciada disponible entre las organizaciones en Suramórica. Si desea más información, puede enviar un mensaje: anthony@usgs.gov o bien enviar sus sugerencias a través de un formulario en la Web.

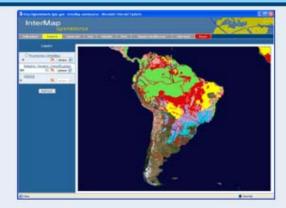
Búsqueda experta

Búsqueda remota

Buscar

Búsqueda de Servidores de mapas, Información Geográfica, imágenes de satélites y otros tipos de recursos.

¿Qué? (Texto) Tipo de mapa Resultados por página 10



Información sobre servidores de mapas

Usted puede encontrar servidores de mapas buscando en GeoNetwork por datos digitales y servidores de mapas, o simplemente conectarse directamente con un conjunto de servidores de mapas predefinidos.

Los servidores de mapas disponibles son Open GeoSpatial® Consortium Servidores de mapas compatibles OGC o Servidores de mapas ESRI® ArcIMS

Mapa vectorial

Incorporaciones recientes RSS GeoRSS





























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Aggregate Results matching search criteria: 14



Mapa Digital de Vialidad Suramericana, 2004

El mapa digital contiene la red vial Suramericana, Fuente: ESRI Data and Maps 2004. Keywords suramérica.carreteras.red vial. Suramérica



Metadata

Interactive Map

Logo

Mapa Digital de Límites Políticos de Suramérica, 2004

El mapa digital contiene los límites internacionales de los países Suramericanos. Fuente: ESRI Data Abstract and Maps 2004.

Keywords suramérica, límites, límites político/administrativos, Suramérica



Metadata

Interactive Map



Mapa Digital de Areas Protegidas (polígonos) de Suramérica, 2004

Abstract

El mapa representa a las áreas protegidas establecidas con categorías UICN I a VI (polígonos). El WCMC ha editado tres mapas digitales adicionales con información de áreas protegidas y los cuales com ...more...

Keywords suramérica, áreas protegidas, protected areas, south america, parques nacionales, national parks, Suramérica



Logo

Interactive Map









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Default view ::Identification info Advanced view XML view



Title Mapa Digital de Vialidad Suramericana, 2004

Date 2006-12-01 (publication)

Edition Primera Presentation form Map Digital

Language en

Character set Utf8

Abstract El mapa digital contiene la red vial Suramericana, Fuente: ESRI Data and Maps 2004.

Supplemental Este mapa fue obtenido por la Corporación Andina de Fomento (CAF) de la Empresa Golder (USA) como parte Information de un provecto financiado por el Banco Interamericano de Desarrollo (BID)

Representar la infraestructura vial Suramericana Purpose

Status Completed Topic category Transportation

Descriptive keywords suramérica, carreteras, red vial, (theme).

Descriptive keywords Suramérica, (place).

Spatial representation Vector

type

::Equivalent scale

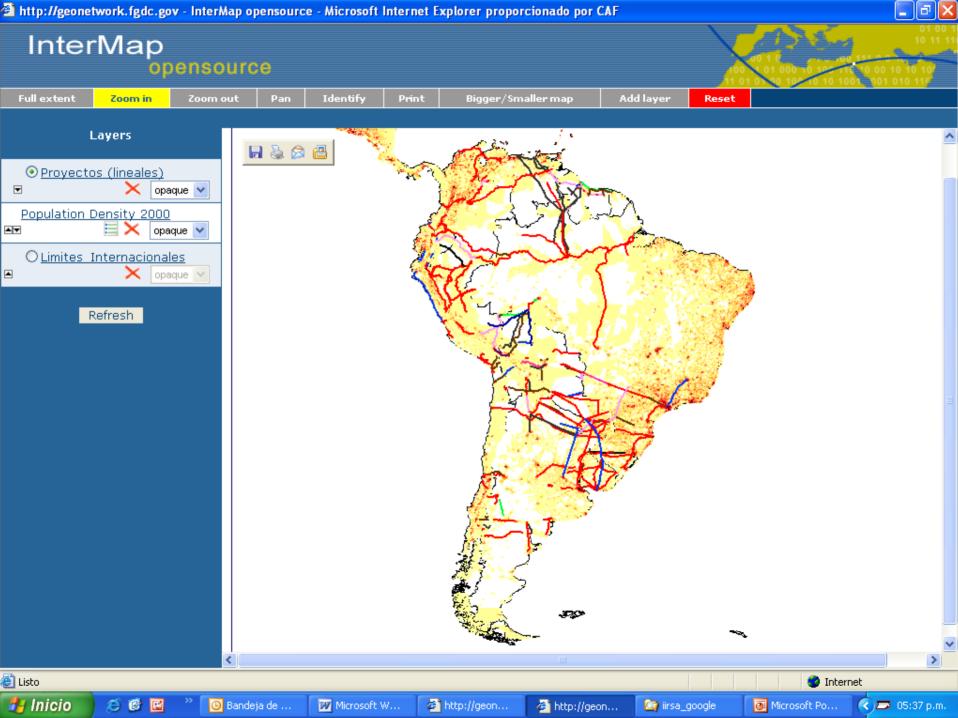
::Geographic box

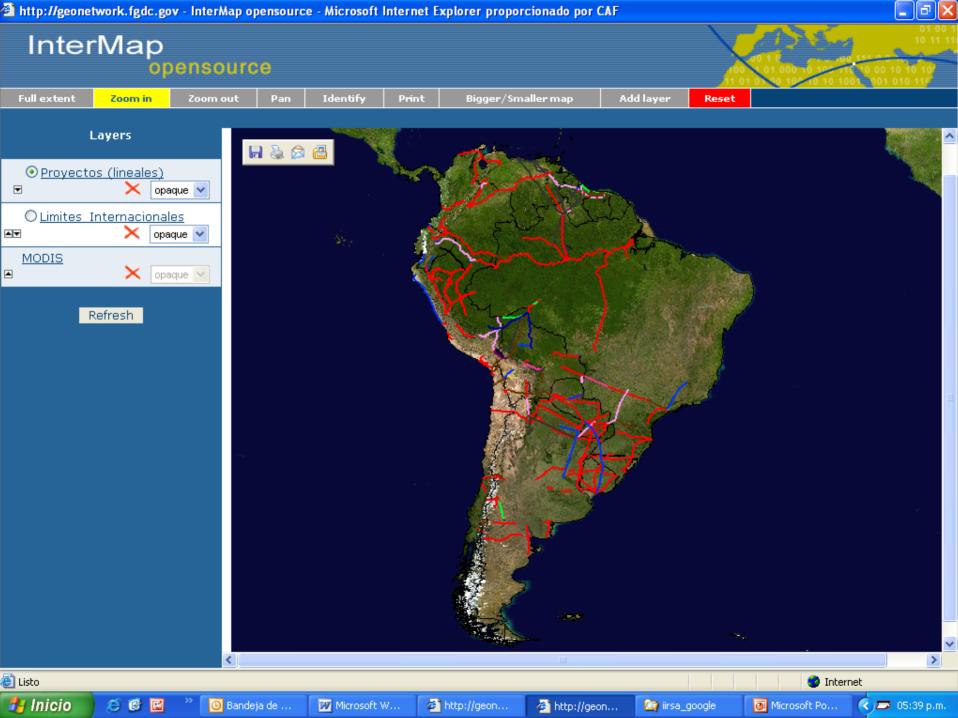
North bound latitude

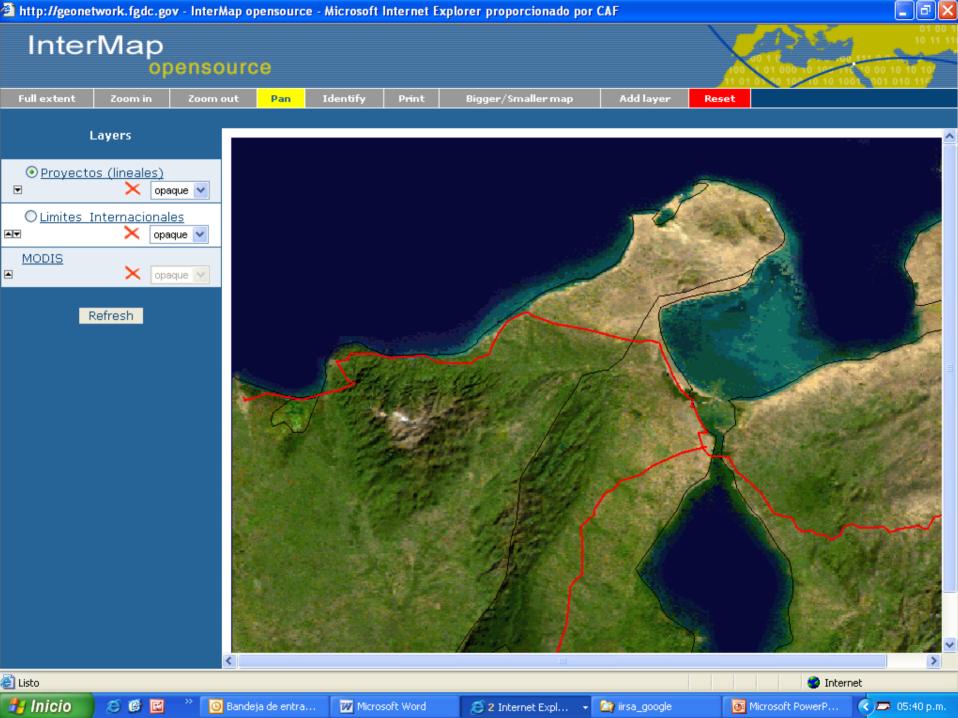
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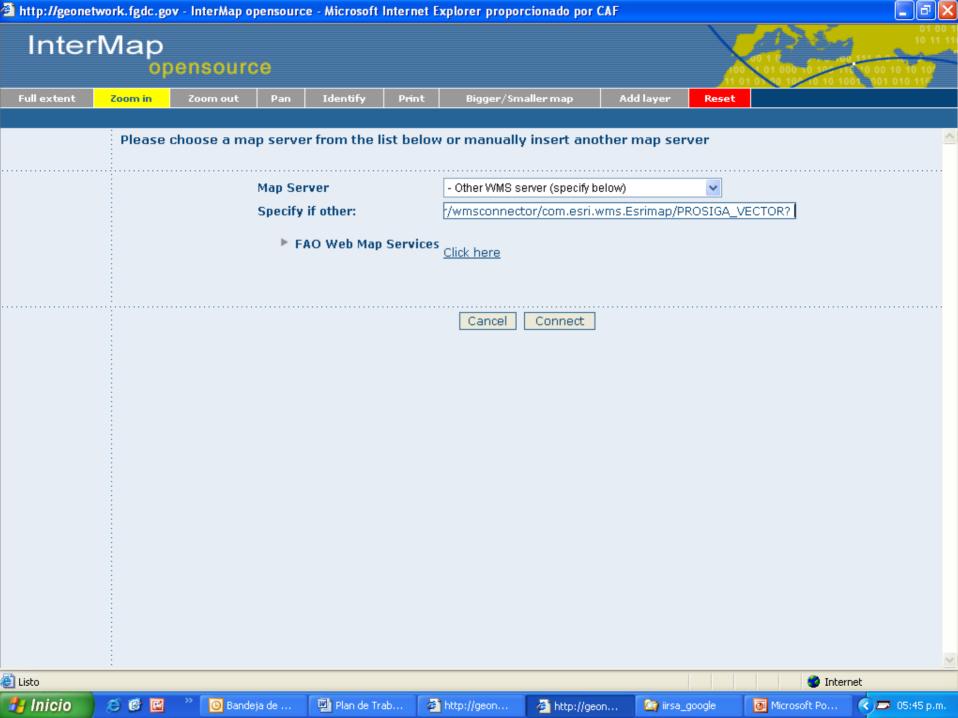




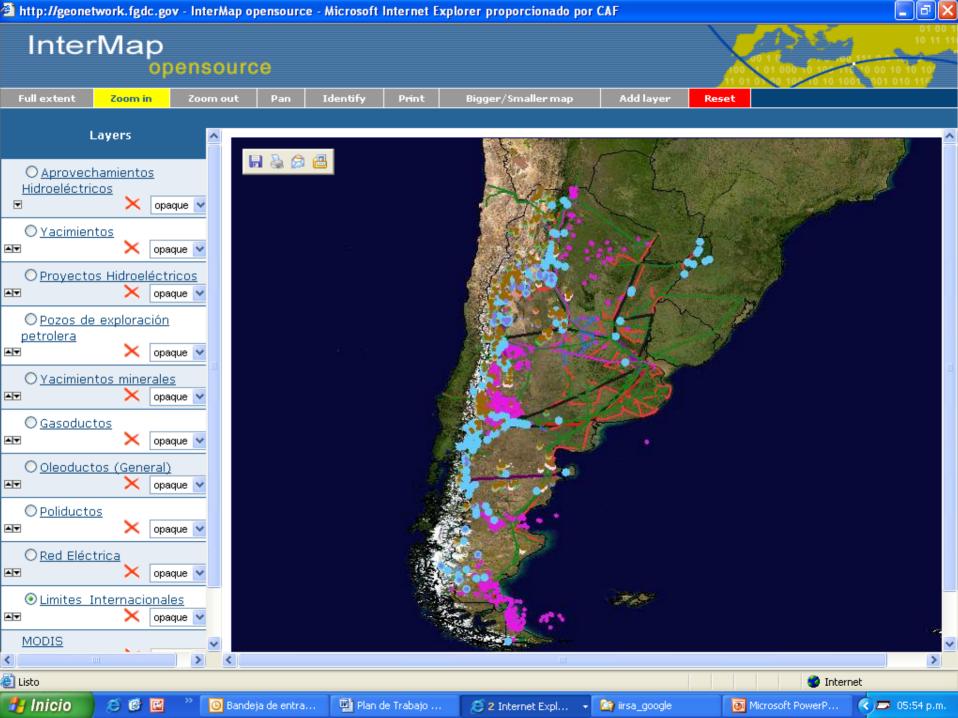


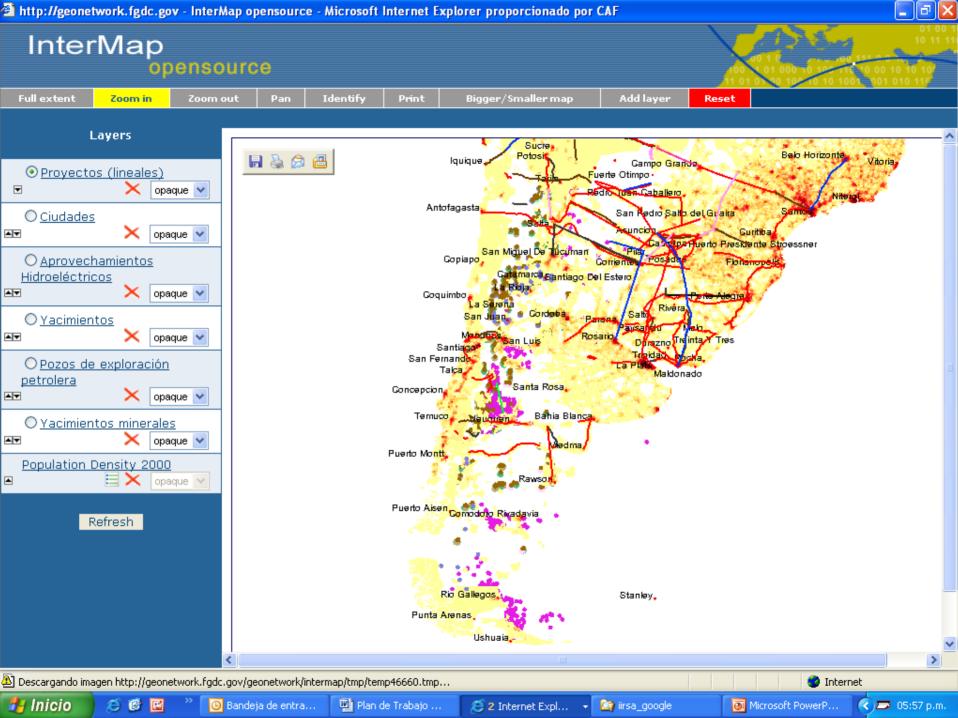


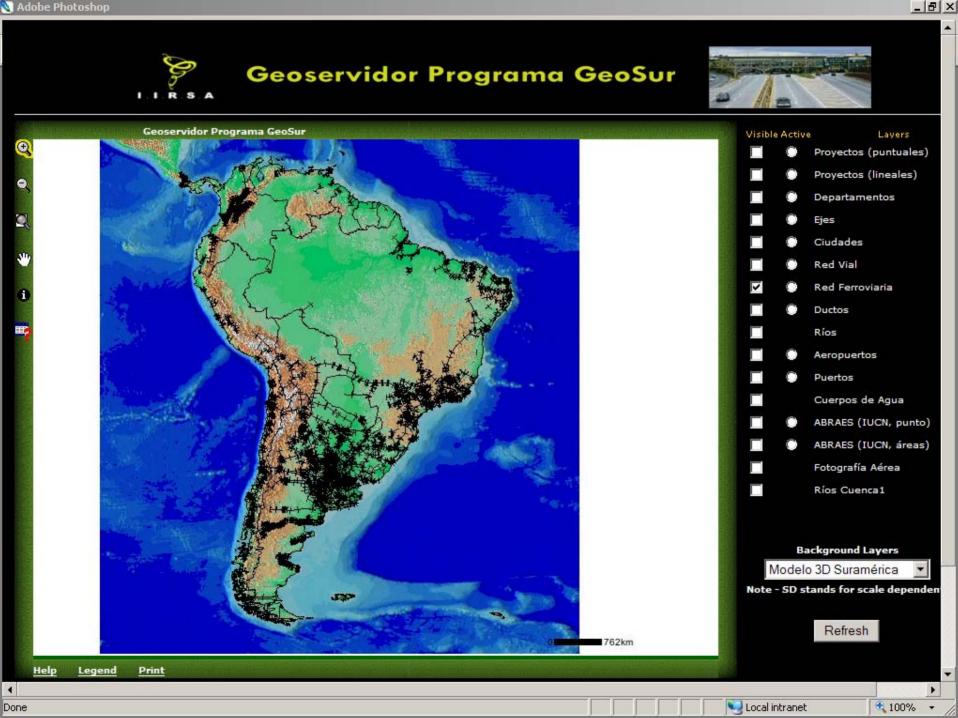










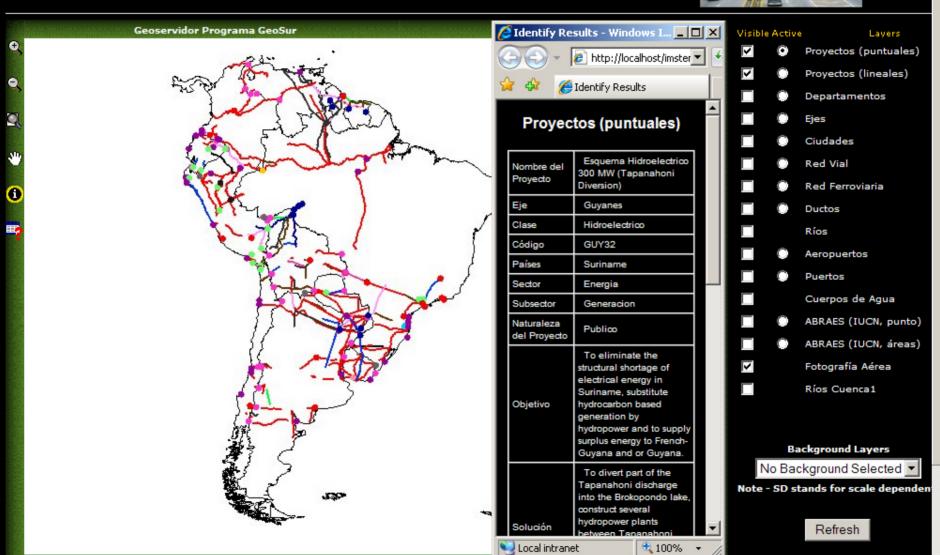




Geoservidor Programa GeoSur



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Lat: 14.17 Long: -72.19

Legend

Print

Help

Local intranet

100%



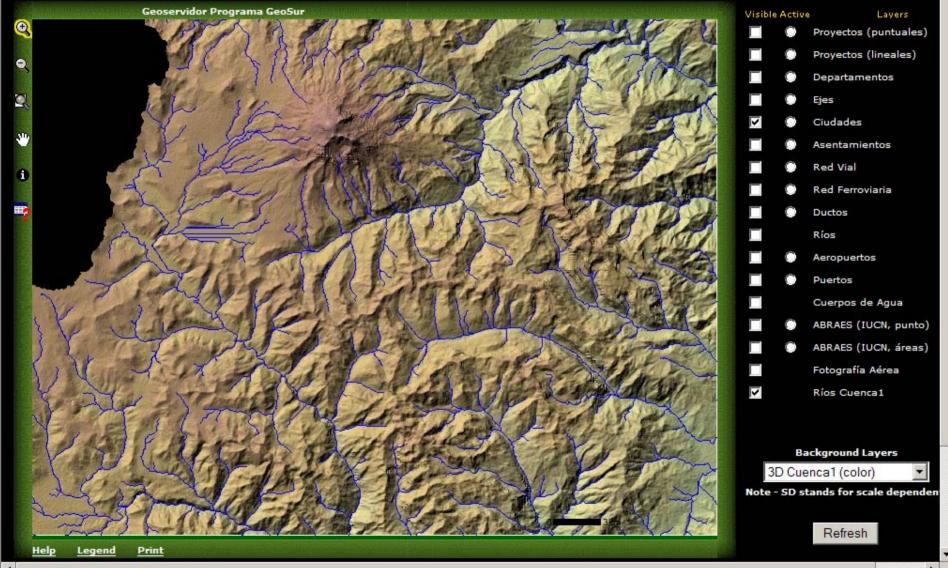


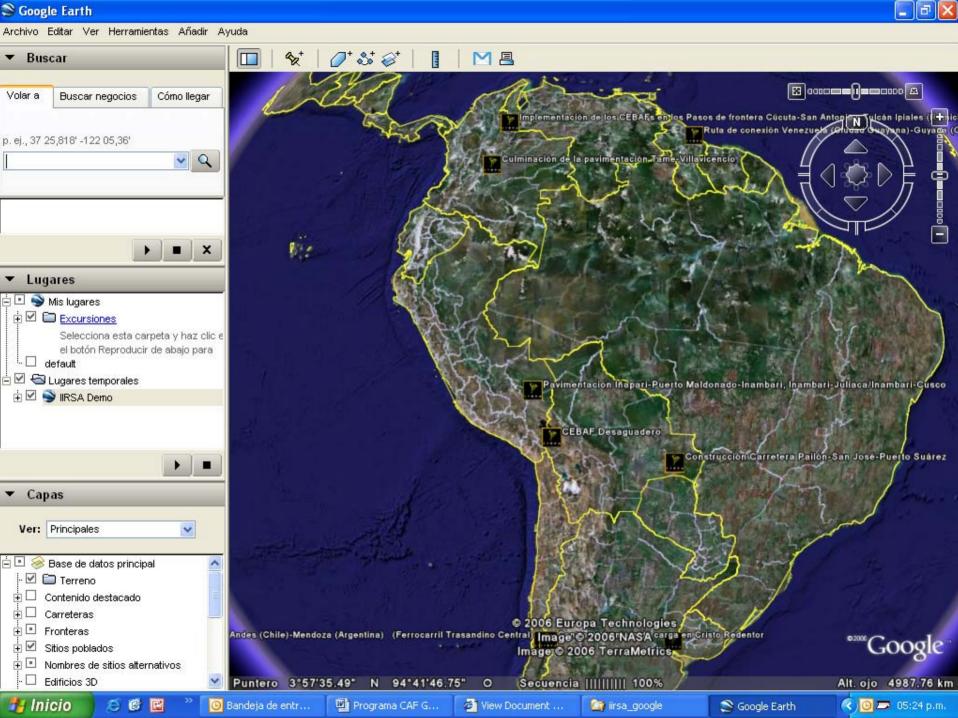


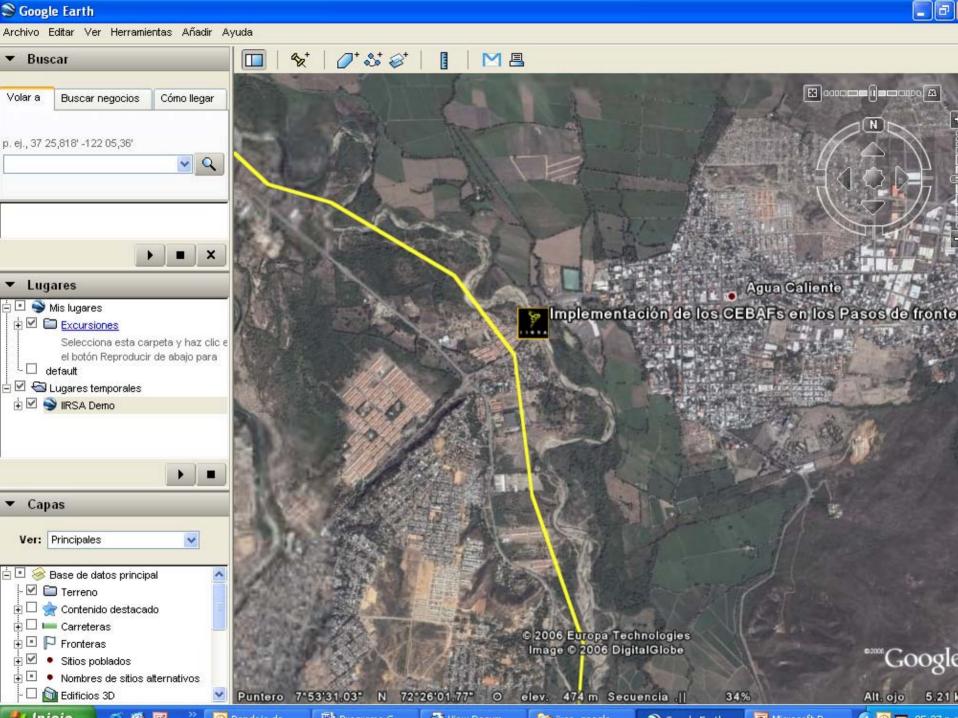
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