



RedLatif

Latin American Network of Remote Sensing and Forest Fire

Frascati, Italy
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RedLatif
Coordinator

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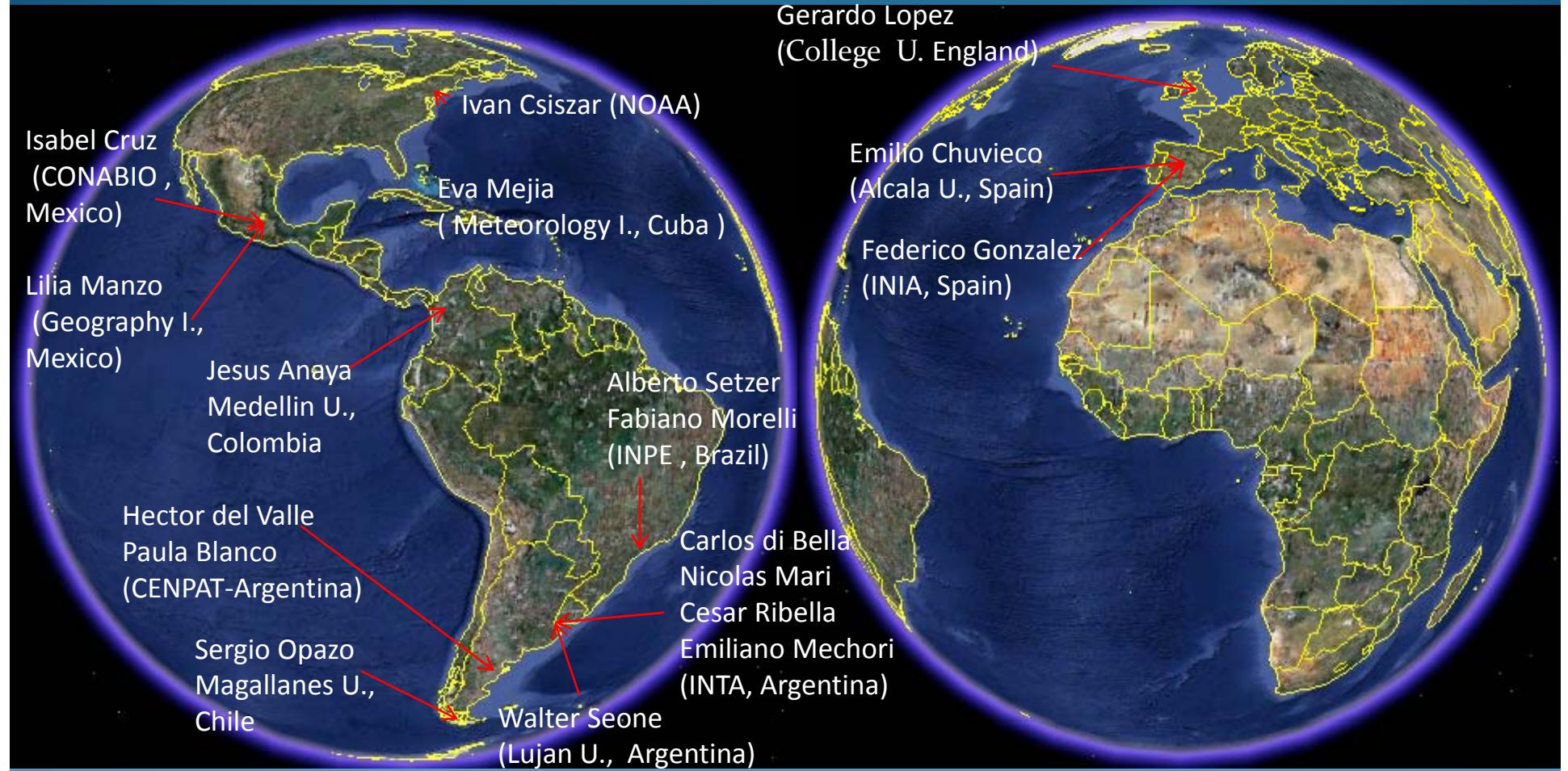
Objective

To coordinate projects related with forest fires using remote sensing and geospatial technology, among Latin American countries.

RedLatif has developed three projects: AQL2004, INI and SERENA.

Members

18 people of 13 institutions from nine countries



WEB page

In 2009 the domain redlatif.org was bought for five years

The screenshot shows a Mozilla Firefox browser window with the following details:

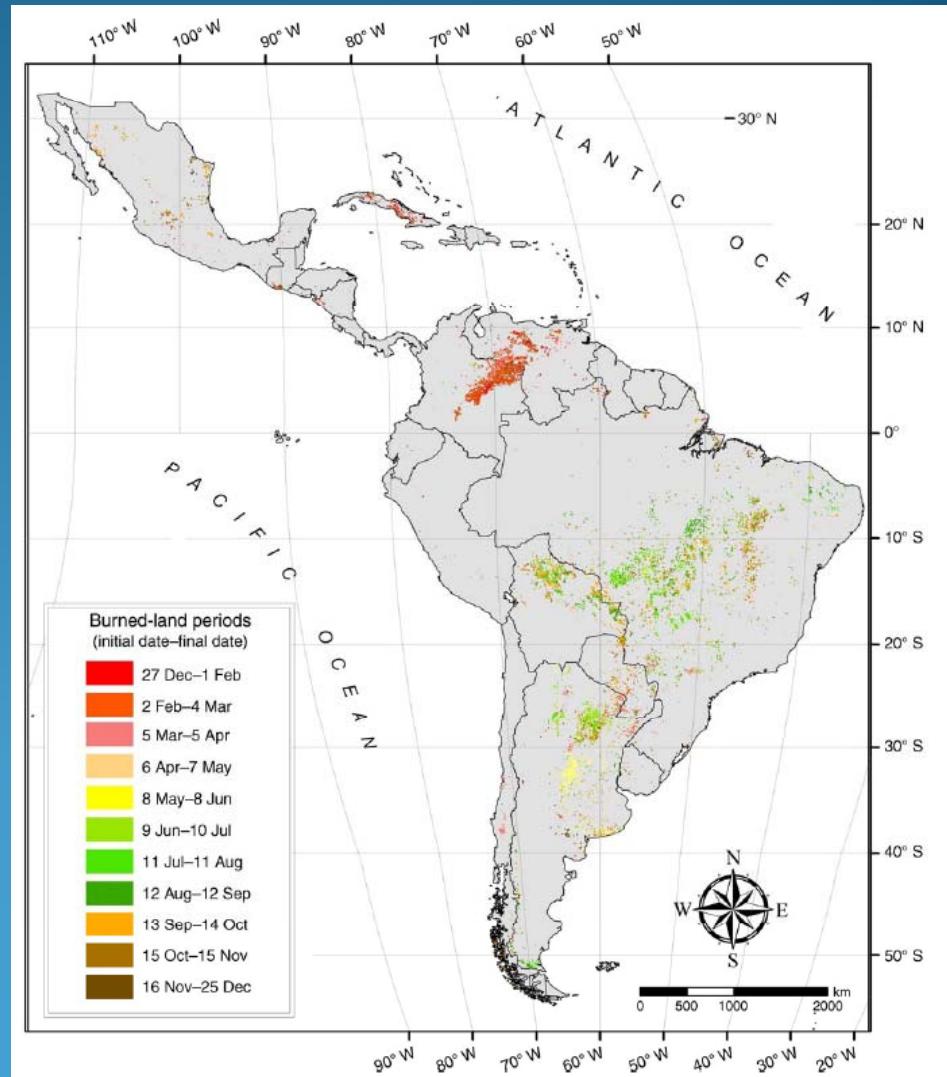
- Title Bar:** Red Latinoamericana de Teledetección e Incendios Forestales - RedLaTIF - Mozilla Firefox
- Menu Bar:** Archivo, Editar, Ver, Historial, Marcadores, Herramientas, Ayuda
- Toolbar:** Back, Forward, Stop, Home, Address bar (file:///C:/Documents and Settings/Isabel Cruz/Mis documentos/REDLATIF/RedLaTIF/proyectos.html), Favorites, Google search, and a magnifying glass icon.
- Links:** Más visitados, Primeros pasos, Últimas noticias.
- Open Tabs:** Red Latinoamericana de Teledet... (active tab) and RedLatif - Red Latinoamericana de Tele...
- Content Area:**
 - Header:** Red Latinoamericana de Teledetección e Incendios Forestales, RedLaTIF
 - Navigation Bar:** Lo último..., INICIO, PROYECTOS, PARTICIPANTES, REUNIONES, MAPAS
 - Left Sidebar:** Lo último... (Reunión anual RedLatif 9-10 de Noviembre 2010, Noviembre 3 al 7, 2010 SELPER Internacional Guanajuato, México), Imagen del mes.
 - Curriculum Tab:** CURSOS
 - Main Content:**
 - SERENA:** Red Latinoamericana de seguimiento y estudio de los recursos naturales. Description: Durante los últimos 40 años, Latinoamérica ha experimentado un proceso de cambios ambientales sin precedentes en la historia. La deforestación, los incendios, la expansión de la agricultura, el cambio climático y la globalización de la economía mundial son algunas de las principales causas. Para el estudio del cambio global, se requiere de información actualizada y accesible para el seguimiento del estado de los ecosistemas, el cual se viene desarrollando en distintos países a través de diferentes herramientas y metodologías.
 - AQL2004:** Cartografía de áreas quemadas en Latinoamerica durante 2004. Description: El proyecto AQL 2004 obtuvo una cartografía mensual de areas quemadas de todo el continente, desde

Projects and results

AQL2004
Global Burned Land Estimation in Latin America using MODIS Composite Data. (Finished)

Coordinator: Dr. Emilio Chuvieco
Period: 2004 – 2008

The results was published by *Ecological Applications* and the map is available in WEB page.



Projects and results

Land use change in the Rio de la Plata Basin

Land Use Change In The Plata Basin: Trends, Drivers and Impacts. - Mozilla Firefox

Árbol Edar Ver Historial Marcadores Herramientas Ayuda

Más visitados Comenzar a usar Firefox Últimas noticias

Programa de incendios COMABO Land Use Change In The Plata Ba... Reverso : Español - Inglés Traductor e... Monitoreo de puntos de calor Estadístico - Wikipedia, la enciclopedia ... redarf

Land Use Change In The Plata Basin: Trends, Drivers and Impacts.

Secretaría de Agricultura, Ganadería, Pesca y Alimentos República Argentina

IAI

Home people & institutions project activities publications collaborators contact us

The Plata Basin, a major contributor to global food production, has been experiencing intense and widespread land use changes in the last three decades. This project quantifies these changes, explores their dynamics and causes, and analyzes their main consequences on nature (e.g carbon and water cycling) and society (e.g employment, rural migration, food production). In the team, people from thirteen institutions and five countries merges complementary capacities to advance global change science, generate management and adaptation tools, and promote scientific capacity building in the region.

relief & rivers mean NDVI

land cover eco system changes (1980/1990)

land cover ecosystem changes human population

International Summer School on Land Cover Change and Hydroclimate of the La Plata Basin
02-13 November 2009
Foz do Iguaçu, Brazil [+]

Training Institute on Remote Sensing Application to Hydrology in Semi-Arid Regions - XIV Brazilian Remote Sensing Symposium
April 20-30, 2008
Natal, Brazil [+]

2nd CoPMeeting "Deep soil and vadose zone responses to land use change"
April 14-15, 2009
San Luis, Argentina [+]

Training workshop "Application of geoelectric tools in ecohydrology"
February 19-23, 2009
San Luis, Argentina [+]

Participation in "XXIII Reunión Argentina de Ecología"
November 25-28 2008
San Luis, Argentina [+]

Participation in the "6th Seminar on Remote Sensing and GIS Applications in Forest Engineering"
7 - 9 October 2008
Curitiba, Brazil [+]

Characterization of land use changes for climate and hydrological modeling in the Plata Basin
April 28, 2008
University of Maryland, United States [+]

Ecohydrological challenges at both sides of the Andes:Ongoing work in the Maipo, Mendoza and Quinto rivers
April 17-18, 2008
San Luis, Argentina [+]

Ecosystem service's valuation es tool for sustainable agriculture
March 24-25, 2008
Buenos Aires FAUBA, Argentina [+]

More

Terminado

The screenshot shows the homepage of the 'Land Use Change In The Plata Basin' website. The top navigation bar includes links for 'home', 'people & institutions', 'project', 'activities', 'publications', 'collaborators', and 'contact us'. A banner on the right features the logo of the 'Secretaría de Agricultura, Ganadería, Pesca y Alimentos República Argentina' and the International Association of Hydrological Sciences (IAI). The main content area displays several maps of the Plata Basin region, each with a legend. One map shows 'relief & rivers', another shows 'mean NDVI', and others show 'land cover', 'eco system changes (1980/1990)', 'land cover ecosystem changes human population', and 'human population'. Below the maps, there is a section titled 'News' listing various events and workshops related to land use change and ecohydrology. At the bottom of the page, there is a footer with the word 'Terminado'.

Projects and results

SERENA: “Latin american of Monitoring and Study of Natural Resources Network “ (developing).

Coordinator: Dr. Carlos di Bella
Period: 2008 – 2011

The SERENA network aims general monitoring, study and dissemination of information associated with biomass burning (wildfires) and changes in land use and cover on Latin American.

The screenshot shows a Microsoft Internet Explorer window displaying the SERENA project website. The URL in the address bar is http://www.fuego.org.ar/serena/objetivos/objetivos_en.html. The page content is in English, with links for translation to Spanish, Portuguese, and English. The main content area is titled "OBJETIVES" and includes a sub-section titled "GENERAL OBJECTIVE". It states: "The SERENA network aims general **monitoring, study and dissemination** of information associated with **biomass burning** (wildfires) and changes in **land use and cover** on the Latin American continent." Below this text are three photographs of MODIS reception antennas: one in Colombia, one in Buenos Aires, Argentina, and one in Distrito Federal, Mexico. The left sidebar contains a navigation menu with links to Home, Objetives, Information, Participants, Activities, Advance Reports, Associated Projects, Links, Bibliography, Maps, Site Map, and Contact. The CYTED logo is also present on the sidebar.

Projects and results

SERENA

SPECIFIC OBJECTIVES

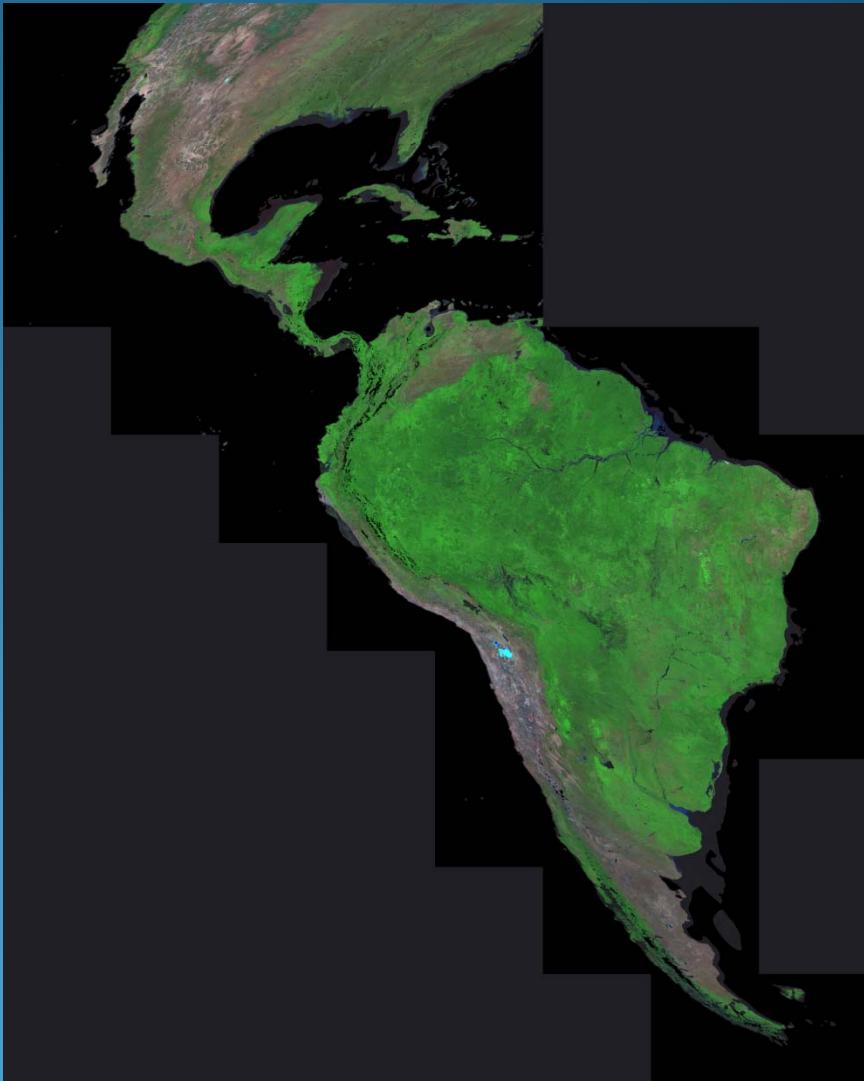
- Designing and developing a regional system for processing satellite data and supplementary **fire detection, quantification of burned areas, an index of risk and severity of fires and local validation** of the results.
- Designing and developing a regional system of satellite data processing for the classification of uses and land cover .
- Designing and developing a communication system and technology transfer with private and public sector.

Organization

Subject	Responsible	Participants
Base information	Isabel Cruz	5
Complementary information	Hector del Valle	2
Hot spot (fires)	Nicolas Mari	5
Burnt area	Sergio Opazo	6
Danger	Carlos di Bella	6
Legend Land cover	Angeles Fischer	3
Land cover classification	Paula Blanco	5
Validation	Hector del Valle	Everybody
WEB page	Arturo Melchiori	2

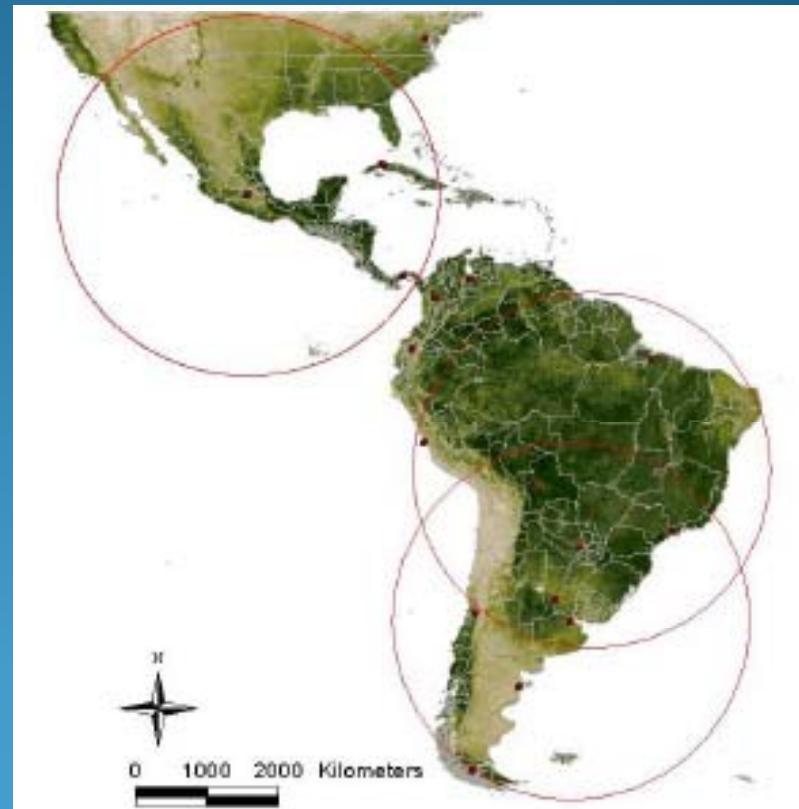
Example

- MODIS monthly image composites 2008
- Surface reflectance daily
- Spatial resolution : 500 m



Others Results

- Exchange of technology among Direct readout stations (Mexico, Brazil, Argentina and Chile)
- CONABIO (Mexico) installed its program of forest fire in INTA (Argentina) and SAF (Chile).
- INPE (Brazil) gave others algorithms for detected forest fire to CONABIO and INTA



Next Steps

- ❑ The annual meeting will be in November 9th and 10th in Guanajuato, Mexico.
- ❑ Courses
- ❑ New topics: emissions, severity
- ❑ Other members
 - ❑ From Central America
 - ❑ Other Network (users)



Thank you !

Gracias