

# Report on the 2012 RedLatif meeting

---



## Maria Isabel Cruz Lopez

*Date:* October 29<sup>th</sup> and 30<sup>th</sup>, 2012

*Place:* Santiago de Chile, Chile. Natural Resources Information Centre (CIREN according to its initials in Spanish) of the Agricultural Department of Chile located in Av. Manuel Mott 1164, Providencia, Santiago.

*Participation:* 20 participants

*Contents:*

- I. Objectives and agenda
- II. Development meeting  
Election of the project to develop  
RedLatif administration
- III. Conclusions

*This meeting was logistically supported by Elian Henriquez, Heriberto Pinto and Adriana Navarro, in continuity to the initiative of her husband and our dear friend and colleague Sergio Opazo, who passed away on July 13, 2012.*

*Financial support came from GOFC-GOLD and START.*

## Objectives and agenda

### *Objectives:*

1. Define new project or projects of RedLatif.
2. Discuss the uses of VIIRS data for regional fire monitoring
3. Appointing the new coordinator of RedLatif.

### *Agenda*

#### **Monday October 29, 2012**

<b>Time</b>	<b>Activity</b>	<b>Responsible person</b>
9:00 -9:10	Introduction to the workshop Review of agenda	Isabel Cruz
9:10 - 9:40	Presentación de CIREN.	Eliana Enriquez, Heriberto Pinto
9:40 – 10:00	Report of GOF-C-GOLD Data initiative training program for 2012	Lilia Manzo
10:00 – 10:45	Using VIIRS data for the forest fires mapping	Ivan Csiszar
10:45 – 11:00	<b>Coffee Break</b>	<b>Eliana Henríquez y Adriana Navarro</b>
11:00 – 12:30	30 min. Using VIIRS data for the forest fires mapping 30 min. "Using VIIRS data in INPE" 15 min. "Reception of VIIRS data in CONABIO" 15 min. Questions	Ivan Csiszar Alberto Setzer Isabel Cruz
12:30 – 13:00	Fundación Amigos de la Naturaleza presentation	Carlos Pinto
13:00 – 14:30	<b>Lunch</b>	<b>Eliana Henríquez, Heriberto</b>
14:30 – 15:00	Remote sensing activities in CIREN	Ricardo Cabezas
15:00 – 17:00	New proposals	Gerardo Lopez, Federico Gonzalez and Hector del Valle.

#### ***Tuesday October 30, 2012***

<b>Hora</b>	<b>Actividad</b>	<b>Responsable</b>
9:00 -9:10	Introduction and review of agenda	Isabel Cruz
9:10 – 10:45	Discussion and selection of topics	Isabel Cruz and RedLatif's members
10:45 – 11:00	<b>Coffee break</b>	<b>Eliana Henríquez, Adriana Navarro</b>
11:00 – 13:00	Discussion and selection of topics	Isabel Cruz and RedLatif's members
13:00 – 15:00	<b>Lunch</b>	<b>Eliana Henríquez, Heriberto</b>
15:00 – 16:00	New Project organization	Project coordinator and Isabel Cruz
16:00 – 16:30	Agreements and conclusions	Isabel Cruz
16:30 – 17:00	Appointment of new coordinator	Isabel Cruz, Alberto Setzer, Fabiano Morelli
20:00 ...	<b>Dinner to celebrate 10 years of RedLatif</b>	<b>Eliana Henríquez, Adriana Navarro</b>

## II. Development meeting

### Monday October 29, 2012

1. The meeting started at 9:30 with welcoming remarks, the review of agenda and the introduction of the participants.
2. Eliana Henriquez gave welcoming remarks from CIREN and Ing. Heriberto Pinto addressed a presentation of CIREN.
3. Dr. Lilia Manzo gave a presentation about the knowledge transfer programme of GOF-C-GOLD Data for 2012. This topic was very important to participants of Chile and institutions who start remote sensing activities.
4. Dr. Ivan Csiszar gave the talk “The use of VIIRS for forest fires identification”. With following topics: Characteristic of the VIIRS sensor, most important aspects in the frame of fires detection, operational products details, NOAA and NASA organization for product development, standard product access and software to processing data direct- broadcast.
5. Dr. Alberto Setzer presented the activities in INPE about VIIRS data processing. He emphasized on the comparison between hot spots detected by different sensors and VIIRS, some of them due to the commission error related to sun glint near to rivers.
6. Maria Isabel Cruz Lopez presented advances VIIRS data reception and processing in CONABIO. The processing software has been installed until active fires detection stage. The next step is the products assessment using MODIS data.
7. Carlos Pinto and Armando Rodriguez, from Amigos de la Naturaleza Foundation of Bolivia, presented the Fire risk early warning system. The maing focus was the generated products.
8. Dr. Ricardo Cabezas spoke about the activities on remote sensing in CIREN and the possibility to use data from the Chilean satellite in land use change and vegetation studies.
9. Finally, Gerardo Lopez-Saldaña, Federico Gonzalez and Hector del Valle gave three presentations about proposals to develop a RedLatif regional project.

#### **Topic 1: Emissions by forest fires**

Objective: Explore the capabilities at INPE, INTA and CONABIO – generation of active fire including FRP & BA – to generate a semi-operational “Emissions due to biomass burning” product for Latin America.

Submitted by: Gerardo Lopez Saldaña and Isabel Manta

#### **Topic 2: Merging of Radar and optical data.**

Objective: Improve the existing RedLatif land cover product and biomass estimation.

Submitted by: Hector del Valle

### **Topic 3: Deforestation by forest fires.**

Objective: To analyze products and information on forest fires, emission and change climate to establish the influence of forest fires on deforestation.

Submitted by: Federico Gonzalez

## **Tuesday October 30, 2012**

1. The meeting started with the review of the agenda and objectives.

### *Election of the project to develop*

2. The discussion started with a summary of the presented proposals.

### **Comments**

- The topic 2 could be including in topic 1, on specific sites.
- Identify the products users. To find their application on REDD topics.
- Emphasize on develop of products and regional algorithms.
- Establish a mechanism of products validation.
- Redesign the land cover map to 2012.
- Write the project to: a) have a guide, b) to get a support.
- Capacity building and radar training course.
- Emphasize on information divulgation and generated products (papers, presentations, technology transfer).
- Combine the collaboration of institutions in the field of infrastructure.
- Before focusing in the operation side of the project, the method development and products will be prioritize, however the operational results will be a long-term goal.
- Assess global products for analysis in the regional situation.
- To select the new project the members identified the potential users of the products, such as the Ministries of Environment and Agriculture. Also we would look for their application in the subject of REDD.

3. The new topic to develop as RedLatif is "Emissions due to biomass burning in Latin America" The leader is Gerardo Lopez with co-leadership of Jesus Anaya.

4. For organization the project the members agreed the following points:

- Gerardo Lopez must re-write the project, whose overall structure including the five themes defined in the meeting (table 1). The member should make their contributions, and the end it is ready for formal submission.
- The working groups are to keep in communication to establish working protocols and to do test.

- The responsible of group should organize virtual meetings to develop a schedule of activities with members of the RedLatif and then invite other participants of the network.

The participants at the meeting were integrated into established work groups. Table 1 shows the organization.

Table 1: Works groups

Theme	Responsible	Members
<b>Write the project</b>	Gerardo López lopez.saldana@gmail.com	Federico González Paula Blanco Fabiano Morelli Héctor del Valle
<b>Deforestation by forest fires</b> Review existing information on the subject to establish the general framework of the project	Federico González alonso@inia.es	Argentina (to be defined) Brazil (to be defined) Bolivia (Carlos Pinto) Colombia (Jesus Anaya) Cuba (Eva Mejias) Ecuador (Carolina Tapia) Mexico (Isabel Cruz y Lilia Manzo) Peru (Isabel Manta)
<b>Land cover map 2012, using MODIS data and after VIIRS.</b>  Prepare the land cover map for Latin America 2012 with MODIS images and / or VIIRS, making improvements to established procedure.	Paula Blanco blanco@cenpat.edu.ar	Iván Csizsar (Data acquisition) Isabel Cruz (Pre-processing Mexico y Central America) René Colditz (Classification Mexico y Central America)  <b>Training data and validation</b> Carlos Pinto Isabel Manta (communication with Global Wildland Fire Network) Heriberto Pinto Carolina Tapia Jesús Anaya
<b>Burn areas map 2012.</b> Develop a map of burn areas by 2012, using MODIS images.	Fabiano Morelli fmorelli@cptec.inpe.br	Alberto Setzer Isabel Cruz Lilia Manzo Armando Rodríguez Isabel Manta (validation) Eva Mejias (validation) Federico Gonzalez
<b>Merging of Radar and optical data.</b> Improve land cover products and biomass estimation on specific sites.	Hector del Valle delvalle@cenpat.edu.ar	Carolina Tapia Walter Sione.
<b>Emission factors</b>	Jesus Anaya janaya@udem.edu.co	

Each responsible will send a protocol to follow the activities according the next calendar:

Theme	Responsible	Date
Write the project	Gerardo Lopez	January, 2013
Deforestation by forest fires	Federico González	January, 2013
Land cover map 2012, using MODIS data and after VIIRS.	Paula Blanco	November, 2012
Burn areas map 2012.	Fabiano Morelli	January, 2012
Merging of Radar and optical data.	Hector del Valle	November, 2012
Emission factors	Jesus Anaya	----

### *RedLatif Administration*

5. There were question on the establishment of RedLatif, the participation with GOFC-GOLD and the mechanism to form part of the RedLatif, thus commented:
  - a) There are not an official document that establishes the network origin and its integration to GOFC-GOLD.
  - b) GOFC-GOLD recognizes to RedLatif as regional network, look the next link: <http://realm.umd.edu/GOFC/index.php>
  - c) Active work is the mechanism to form part of the network.
  - d) On the website are the documents that have been generated in the field of administration, such as meeting minutes, brief history and network guidelines.
  - e) The domain www.redlatif.org paid for five years from 2009.
6. Document Review Guidelines for network organization, will join Fabiano Morelli's proposal for the integration of new participants. And we will send the document to all.
7. Jesus Anaya, Isabel Manta and Paula Blanco asked a letter of RedLatif to do official the participation in their institutions.
8. Was conducted coordinator change. The new coordinator is Dr. Alberto Setzer from INPE of Brazil.
9. Maria Isabel Lopez Cruz gave a CD with the files that conform the website.

### **Conclusions**

- a) Three objectives were achieved:
  - Define new project or projects of RedLatif.  
"Emissions due to biomass burning in Latin America"  
However it is necessary establish the correct project title, Alberto proposed "Monitoring of burn area and emissions by remote sensing.
  - Discuss the use of VIIRS data for regional fire monitoring.

Currently RedLatif members have a general framework of data characteristics and products generated within the forest fires topic. Moreover it will be intend to use the images for land cover mapping.

There is a window of opportunity for the acquisition of historical data with the presentation of the topic "GOFC-GOLD Workshop Data Initiative training program for 2012."

- Appoint new coordinator of RedLatif.  
The new coordinator is Dr. Alberto Setzer from October 31<sup>st</sup>, 2012
  
- b) We established the first organization of work creating thematic groups with specific responsibilities.
- c) New people joined to RedLatif, they are from Bolivia (Fundación Amigos de la Naturaleza), Ecuador (Universidad Nacional) and Chile (CIREN).
- d) In the meeting participated people from the Forest National Commission (CONAF) and Meteorology service from Chile, who has a MODIS data receiving station, They are interested to enter to Redlatif. And establish exchange between institutions.
- e) RedLatif improved the relation with Global Wildland Fire Network with the participation of Patricio Sanhueza, Maria Isabel Manta y Carlos Pinto. It will look for the participation of this network on the Land cover issue.

The meeting was closed at 5:00 pm, with words of thanks from RedLatif and CIREN.

*Mission accomplished*

# 20 Participants

---

Country /Name	October 29	October 30
<b>Argentina</b>		
Héctor del Valle		
Paula Blanco		
<b>Brazil</b>		
Alberto Setzer		
Fabiano Morelli		
<b>Bolivia</b>		
Carlos Pinto		
Armando Rodríguez		
<b>Colombia</b>		
Jesús Anaya		
<b>Chile</b>		
Adriana Navarro		
Eliana Henriquez		
Heriberto Pinto		
Patricio I. Sanguenza		
Jorge Carrasco		
<b>Cuba</b>		
Eva Mejías		
<b>Ecuador</b>		



Carolina Tapia Ortega		
<b>España</b>		
Federico González		
<b>Estados Unidos</b>		
Ivan Csiszar		
<b>Mexico</b>		
María Isabel Cruz López		
Lilia Manzo		
<b>Portugal</b>		
Gerardo López Saldaña		
<b>Perú</b>		
María Isabel Manta Nolasco		