



CLARIS | LPB

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A Europe-South America Network for Climate Change Assessment

And Impact studies in La Plata Basin

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Deliverables



Instrument: **SP1 Cooperation**

Thematic Priority: **Priority Area 1.1.6.3 "Global Change and Ecosystems"**

FP7 Collaborative Project – Grant Agreement 212492

CLARIS LPB

A Europe-South America Network for Climate Change Assessment and Impact Studies in La Plata Basin

DELIVERABLES

D2.3: Report on young students/scientists exchange visits between partners

Due date of deliverable: Month 18

Start date of project: **01/10/2008**

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Organisation name of lead contractor for this deliverable: P1-IRD

Deliverable No	Deliverable title	WP	Lead beneficiary	Estimated indicative person-months (permanent staff)	Nature	Dissemination level	Delivery date
D2.3	Reports on young students/scientists exchange visits between Partners	WP2	P1-IRD	1,30	R	PU	18

Activities 2009

Different types of courses and activities were developed during 2009. These activities allowed new young scientists to join the group and to generate new and diverse discussion topics.

The **first CLARIS LPB Introductory Course on Systems Thinking, Systems Practice** (see annexe) was taught by Sandro Luis Schlindwein (WP8) during October and December 2009 in Buenos Aires. Several participants of CLARIS LPB attended this course that addressed scientist-philosophical issues. Subjects related to the appreciation of interdisciplinary and intradisciplinary work, the study of ourselves as individual scientists and as a group within a given community, the definition of what is a complex situation and the various options to address it, among others issues were discussed during the course. Participants had the opportunity to acquire technical tools to address such problems.

The **International Summer School on Land Cover Change and Hydro climate of the Basin Silver** (see annexe), directed by Hugo Berbery (WP5) and other investigators, was held in Foz do Iguazu, Brazil in November 2009. Besides acquiring knowledge within these topics, it was an opportunity for different young scientist from CLARIS LPB of Argentina, Brazil and Uruguay to join the group.

The **WP6 meeting** that took place in Punta del Este, Uruguay in November 2009 was another opportunity for young scientists from Brazil, Italy and Uruguay to join the group (See annexe). It also generated new interdisciplinary collaborations within the project, involving participants of the WP3, WP4, WP5 and WP6. The first results of this collaborative work have been sent to the annual conference of EGU that will be held in Vienna in May 2010.

During June CLARIS LPB **WP8 y WP9** had a meeting at Universidad Federal de Paraná, in Curitiba city, Brazil. Among the participants of this event were scientific researchers from each work package impact subgroups, investigators from partner institutions, researchers from other scientific networks (SINERGIA), both work package leaders and members of WP1 and WP2.

The meeting allowed all the subgroups to present their advances, difficulties and the applied methodologies, and also to deepen the space of interaction and reflexion between WPs and inside them regarding the objectives inside the project and the integration with the stakeholders.

In December 2009, Ariel D'Onofrio and Jhan Carlo Espinoza taught the **CLARIS LPB Course on APACH quality control web tool at the National Service of Meteorology and Hydrology (SENAMHI)** in Lima, Perú. 30 scientific and technical members from the institution attended the course (see annexe).

The **METIER final conference**, co-organised by the JRC and the Partnership for European Environmental Research (PEER), was held at the EC Charlemagne Building, Brussels from 4th to 6th November 2009 (see annexe). Marcos Lana (WP8) attended the conference and presented the CLARIS LPB Project with the poster "Climate Change and Anthropogenic Impacts on Land Use and Agriculture in the La Plata Basin, South America".

Four **Meetings of the CLARIS LPB Argentinean participants** were held in Buenos Aires during 2009. These meetings allowed increasing the communication level between scientists, while they showed the difficulties of understanding that can appear during interdisciplinary meetings, giving us the opportunity to work on them and gradually overcome them. The main purpose of these meetings is to integrate the knowledge on the multiple topics addressed by CLARIS LPB project.

During 2009 the two **CLARIS LPB workshops** performed in Argentina counted with an active collaboration and participation of young scientists from WP8 land use impact subgroup, interacting also with WP2 and WP1. The first one during August was the first CLARIS LPB Journey with stakeholders in Argentina, performed at Universidad Nacional del Noroeste (UNNOBA) in Junín. The second, "**Climate and Society**" took place in **San Justo** at San Justo Rural Society on November 2009.

By the end of 2008, the **young scientist forum** was created, where it is possible to post different subjects of interest. Another objective of this forum consists of sharing information on conferences, courses, work positions, etc. (see <http://zeus.cima.fcen.uba.ar/ysforum/>).

Future perspective

The **general objective** of the young scientist group is to contribute to the integration of the knowledge society that, in this occasion, convened by La Plata Basin. From our perspective, this goal will only be reached if we are able to reinvent and reconstruct ourselves, having in mind the uncertainties that mark our times.

Another objective is to stimulate the cooperation and the collective construction as one of the mechanisms to form human resources with competence in order to contribute to the development, the cultural and economic integration of the region, encouraging the scientific and technological interchange between universities and institutes.

Some of the specific goals raised within the space of the young scientist group by month 36 of the project are to stimulate the use of the discussion forum, to incorporate new young scientists, and to promote relations between the participants of the group to generate future investigation works.

The **EGU annual meeting** to be held in Vienna, Austria in May 2010 and the **Meeting of the Americas**, which will be held in Foz de Iguazú, Brazil in August 2010, are two good opportunities to deepen the bonds between external and internal participants of the project. Furthermore, all the **WPs meetings** planned for 2010 are an excellent instance to progress in the creation of human and academic-scientists links within the project.

Another goal of the young scientist group is to continue the **promotion of “seed” projects** within CLARIS LPB as an instrument to impulse the collaborative work among young people.

With this document, we invite all young scientists (PhD students or pos doc) of CLARIS LPB, from all disciplines and institutes, to join and enlarge the Young Scientist group.

Anna Sörensson (CIMA), Federico Robledo (UBA, Argentina), Roger Torres (INPE/CPTEC, Brasil), Laura Zamboni (CMCC, Italy), Ramiro Saurral (CIMA, Argentina), Stefanie Talento (UR, Uruguay), Jhan Carlo Espinoza (CNES, Francia), Ariel D’onofrio (UBA, Argentina), Armelle Reza Remedio (MPG, Germany), Juan José Ruiz (CIMA, Argentina), Marcos Lana (UFSC, Brasil), Josefina Blázquez (CIMA, Argentina) Renata Tedeschi (INPE/CPTEC, Brasil), Madeleine Renom (FC, Uruguay), Laura Rey (UBA, Argentina), Clementine Junquas (CIMA/CNRS, Francia), Maria Laura Bettolli (UBA, Argentina), Juan Rivera (UBA, Argentina), Fernanda Cabré (CIMA, Argentina), Ana Carolina Vasconcelos (UFSC, Brazil), Vanesa Asikian (UBA, Argentina), Magali Troin (CEREGE/CNRS/IRD, Francia), Natalia Pessacg (CIMA, Argentina), Bárbara Tencer (UBA, Argentina), Florencia Fossa Riglos (UBA, Argentina) and anyone else who wants to join in.

Annexes

a) CLARIS LPB Exchange grants

During 2009 the following participants received Exchange Grants, which are aimed at multidisciplinary work, inter-institute collaboration and formation of students:

Hugo Berbery (CONICET), María Laura Betolli (UBA), Josefina Blázquez (CONICET), Michelle Bonatti (UFSC), Ariel D'Onofrio (UBA-IRD), Alice Grimm (UFPR), Andrea F. Hoffmann (UFSC), Clémentine Junquas (CONICET), Marcos Alberto Lana (ZALF), Claudio Menéndez (CONICET), Matilde Rusticucci (UBA), Ramiro Saurral (CONICET), Anna Sorensson (CONICET), Ricardo Szupiany (INA), Bárbara Tencer (UBA), Ana Carolina Vasconcelos (UFSC).

CLARIS LPB WP2 contributed with 24.500 euros and another equal amount was funded by the Partners.

b) CLARIS LPB Support for student participation in CLARIS LPB meetings:

The project supported the following students to attend CLARIS LPB Meetings: Kelen Andrade (CPTEC-INPE), María Laura Bettolli (UBA), Michelle Bonatti (UFSC), Mariana Calandra (UBA-IRD), Francisco Córdoba (CONICET), Mónica Damiao (INPE), Ana Elisabeth Da Silva (UFSP), Jhan Carlo Espinoza (UBA-IRD), Andrés Farall (UBA-IRD), Maria Gabriella Gaeta (UNIBO), Andrea Hoffmann (UFSC), Clémentine Junquas (CONICET), Marcos Lana (ZALF), Claudia Martínez (UR), Natalia Montroull (UBA), Vanesa Pántano (UBA), Natalia Pessag (CONICET), Juan Rivera (UBA), Federico Robledo (UBA), Laura Rey (UBA-IRD), Maisa Rojas (UCH), Joao Paulo Saboia (UFPR), Ramiro Saurral (CONICET), Renata Tedeschi (INPE), Bárbara Tencer (UBA), Roger Torres (CPTEC/INPE), Troin, Magalí (IRD), Ana Carolina Vasconcelos (UFSC), Natalia Zazulie (UBA).

CLARIS LPB WP2 contributed with 16.400 euros and another equal amount was funded by the Partners.

c) CLARIS LPB Introductory Course on Systems Thinking, Systems Practice

Buenos Aires, Argentina. December 16, 2009

The first CLARIS LPB Introductory Course on Systems Thinking, Systems Practice, was taught by Sandro Luis Schlindwein (UFSC) in two steps:

Step1: October 21-23, 2009

Step 2: December 14-16, 2009



Fifteen participants from different disciplines attended the course that took place at Buenos Aires, at the Department of Atmospheric and Oceanic Sciences (DCAO) from the University of Buenos Aires.

The main goal of introductory course was not only to introduce some core ideas of systems scholarship but also to show how systems ideas can be used as a way of tackling unstructured problematic situations, aiming to improve them. The course was divided in theoretical and practical contents organized as a learning cycle. Its main objectives were to present and discuss some of the most relevant concepts of systems thinking, to trigger a shift in the systemicity of the participants, - that means, to change the perception that the world is systemic to achieve a systemic view of the world-, and to practice the use of systems tools and methodologies to improve problematic situations.

d) CLARIS LPB Course on APACH quality control web tool

SENAMHI, Lima, Perú. December 02, 2009

APACH is a web tool for managing daily databases of observational stations data; the first stage of development has been finished, which consist of a web framework to do quality control over observational databases. During this year, it is planned to incorporate homogenization capabilities as well.

Thanks to CLARIS LPB and IRD-SPIRALES funding, the APACH framework was developed by Juan Pablo Suarez (UBA), and the quality control algorithms were made by Jean-Philippe Boulanger (IRD) et. al. at the Department of Atmospheric and Oceanic Sciences (DCAO) from the University of Buenos Aires.



On December 1-2, 2009, Ariel D'Onofrio (UBA) and Jhan Carlo Ezpinoza (Post-Doc CLARIS LPB) taught the course at the National Service of Meteorology and Hydrology (SENAMHI) of Lima, Perú, for 30 scientific and technical members from the institution.

APACH proved to be a sound framework, which will improve its functionality according to the needs of the scientists interested in the framework. It is intended to hold more APACH courses in other Meteorological Services and formation centers in South America and Europe during 2010. A possible list is: SMN, DCAO-Argentina, SENAMHI-Bolivia, INAMHI-Ecuador, LOCEAN- Paris.

e) First International Summer School on Land Cover Change and Hydroclimate of the La Plata Basin

Foz do Iguacu, Brazil. November 13, 2009

The First International Summer School on Land Cover Change and Hydroclimate of the La Plata Basin, organized by the LPB Project, was held on November 2-13, 2009 at Itaipú Technological Facilities in Foz do Iguacu, Brazil. Several CLARIS LPB researchers attended this course whose main goal was to

present the physical basis of the hydroclimate of the La Plata Basin (LPB), examine the current research methods, establish links to related activities at operational centers, and train students in practical tools (software and data). The participants' presentations about their research priorities and areas of work showed common interests that lead to an approach and exchange of ideas and information. The integration among CLARIS LPB researchers (from WP3, WP4, WP5, WP6, WP7, WP8 and WP9) was a very positive aspect, in fully agreement with CLARIS LPB objectives.



CLARIS LPB participants: Juan Rivera, Federico Robledo, Natalia Zazulie (UBA), Josefina Blázquez, Carla Gulizia, Natalia Pessag, Alfredo Rolla, Pablo Spenemann, Hugo Berbery (CONICET), Ana Carolina Feitosa de Vasconcelos (UFSC), Armella Reca Remedio (MPG), Stefanie Talento (UR), Renata Tedeschi (INPE/CPTEC).

f) METIER final conference (JRC/PEER)

Brussels, November 04, 2009

The METIER final conference, co-organised by the JRC and the Partnership for European Environmental Research (PEER), was held on 4-6 November 2009 in the EC Charlemagne Building, Brussels. The event was attended by 95 young scientists and 30 senior lecturers from all over the world discussing their latest research results on how to tackle the complex challenges of climate change, water availability, biodiversity and sustainable land use. Marcos Lana (WP8), pre-PhD from ZALF, was selected to attend the conference and presented the CLARIS LPB Project with the poster "Climate Change and Anthropogenic Impacts on Land Use and Agriculture in the La Plata Basin, South America". One of the main purposes of the event was to provide training in entering into dialogue with practitioners and policy makers, getting to know their needs and how to respond to them. The conference included a master lecture by Chief Scientific Adviser to the Irish Government Patrick Cunningham on: "Four Challenges or one? Population, Food, Energy, Climate". Professor Manfred Grasserbauer, from the University of Vienna, former Director of the JRC Institute for Environment and Sustainability, opened the discussion on climate with his speech on "Climate Change: What we know and what we guess". The conference was useful to establish academic contacts and possibilities of future cooperation among the scientists. Posters Session



g) CLARIS | LPB WP6 MEETING

Punta del Este, Uruguay, 16-18 November, 2009.



The first Work Package 6 workshop was held at Punta del Este, Uruguay, on November 16-18, 2009. 19 researchers and students of WP6 participated at the meeting to present their preliminary results and discuss on the ongoing activities related to the planned tasks. There were also presentations by representatives from other work packages: WP3, WP5, WP8 and WP9 in order to foster interaction among groups.

During the first 6 months the group analyzed the available Global Models results and observed data, and it is expected to have the regional model results from WP5 for specific and detailed analysis with high resolution. During the final day of the workshop, the participants worked in groups to make a summary of presentations, a list of references of published papers, a summary of suggested indices and the planned activities for the next year. There were also discussions about interaction among WP6 members in the next period, collaborative work, papers to be prepared, references of studies on extremes, and the use of the CLARIS-LPB web-based tools.

h) CLARIS | LPB WP8 and 9 MEETING

Curitiba, Brazil, June 22-24 2009



The first WP8 and WP9 meeting at Universidad Federal de Paraná, was an opportunity for each group to introduce the stakeholders and policy makers who are collaborating with CLARIS LPB in Argentina, Brazil y Uruguay. There were different presentations where each group was able to show the economic and political difficulties of each site, the state of research and the relation with stakeholders from each country. There were both split sessions and plenary sessions between researchers in which the proposal of elaborating a common frame for the Project based on the DPSIR model was presented and discussed.¹ The meeting succeeded in allowing the definition of a common conceptual frame (DPSIR), the autonomy margin of the subgroups was identified (specific field work methodologies, ways of working with stakeholders, etc.), and it established fluid communication and exchange between researchers from different disciplinary horizons.

¹ DPSIR was presented as a conceptual framework, according to which there is a casual relation between “Drivers” (e.g. Climate change) through “Pressures” (e.g. temperature, precipitation, radiation, land use, floods) towards the “States” (e.g. physical, chemical, biologic, socio-economic) and Impacts (I) on the system that eventually lead to “Responses” (e.g. political responses).