

## WP5 Meeting

The CLARIS LPB Work Package 5 held three planning meetings during the 2nd. Lund Regional-scale Climate Modelling Workshop: 21st. Century Challenges in Regional-scale Climate Modelling that took place in Lund, Sweden, 4 - 8 May 2009. The objectives of the WP-5 planning meeting were (a) to define the type of metrics to be employed in the climate change scenarios, (b) identify common datasets to run the models, and (c) discuss the approach we want to follow to advance in the process studies part of the WP.

The WP5 group also discussed involvement in CORDEX (COordinated Regional climate Downscaling Experiment), which is a framework under the WCRP auspices aimed at improving coordination of international efforts in regional climate downscaling research. More detailed information about CORDEX can be found at [http://wcrp.ipsl.jussieu.fr/RCD\\_Projects/CORDEX/CORDEX.html](http://wcrp.ipsl.jussieu.fr/RCD_Projects/CORDEX/CORDEX.html). In order to encourage the participation of CLARIS LPB WP5 in CORDEX, the design of the experiment is coherent with the experiment decided in the CLARIS LPB kick-off meeting (Nov. 2008, Buenos Aires) in terms of domain (covering the entire South American continent), resolution and use of ERA-Interim as driving boundary conditions.

CORDEX suggests the use of Scenarios RCP4.5 y RCP8.5, although they will not be available until the CMIP-5 global simulations are finished. This should happen sometime during 2010 and thus too late for the CLARIS LPB agenda. For this reason in the CLARIS LPB context it was proposed to use the AR4 scenarios, specifically A1b, which are supposed to be available from SHMI, MPI, and Hadley Centre.

The meeting was an opportunity to distribute reanalysis data (ERA Interim) to the different participating groups.



## WP3 & WP4 Meeting

The WP3 and WP4 groups met in Paris, France, on September 9-10 at the Workshop Integrating longer-term proxy with instrumental records, convened by Myriam Khodri (IRD, WP4 Leader). The main objectives of this workshop were to gather expertise on the South American climate, to foster exchanges and sharing on the methodologies in analyzing the low frequency variability of long instrumental and proxy records, and to plan for future collaborative works on integrating the available proxy records (for the last 200 years or so) to the instrumental ones.

The workshop ended with a plenary discussion on research needs and strategy to be followed for the next 6 months.

## WP6 Workshop

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 groups: WP3, WP5, WP8 and WP9 in order to foster interaction among groups.

WP6 discussed about the indices (like in STARDEX project, ETCCDI, IPCC) used to identify extremes and the need for standardization. They found that some indices used in previous studies should be modified to adapt to the La Plata region.

During the first 6 months of the project, WP6 analyzed the available Global Models results and observed data. It now expects to have the regional model results from WP5 for specific and detailed analysis with high resolution. On the final day of the workshop, the participants worked in smaller 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.



## WP8 & WP9 Meeting

On June 22-24, 2009 CLARIS LPB work packages WP8 y WP9 met at the Universidad Federal de Paraná, in Curitiba, Brazil. Among the participants of this event were researchers from each work package impact subgroup, members from partner institutions, researchers from other scientific networks (SINERGIA), both work package leaders and members of WP1 and WP2. WP 8 & WP 9 brings together researchers from different disciplines, like Geography, Agronomy, Economy, Anthropology, Climatology, Hydrology, Ecology, and Hydraulic Engineering. WP8 sub-groups are concerned with different issues which were seen as relevant for WP 8 like fire risk, cattle and pasture, agricultural land use and global change research. WP9 impacts sub-groups are concerned with floods, hydropower, river sediment transport, and Iberá wetland ecology.

During meeting all the impact subgroups presented their advances, difficulties and the applied methodologies and the WPs took the opportunity to deepen the space of interaction and reflexion between and inside them regarding the objectives of the project and the integration with stakeholders.

Each group introduced the stakeholders and policy makers who are collaborating with CLARIS LPB in Argentina, Brazil y Uruguay. The need of identifying stakeholder groups with different levels of responsibility (different levels of stakeholders) was stressed, as well as the importance of identifying political strategies to have an integrated vision of the sector from a multidisciplinary and intersectorial approach.

Especially in large, multidisciplinary projects like CLARIS LPB in which a number of scientists collaborate, a framework helps to focus on the same set of research questions. The Driver-Pressure-State-Impact-Response (DPSIR) framework has been successfully used in several multidisciplinary research projects. It was briefly presented and the group decided to "give this framework a try". It was made clear, that the existing DPSIR framework should be used as a basis for the research process and that its single components (D, P, S, I, R) might be renamed, skipped or added following the ideas of the participants.

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### (WP8 & WP9 Meeting)

Each group presented their vision of DPSIR, doing the exercise of applying the model to their study case, which implied a deeper reflexion into the objectives, ideas, concepts, models and alternative methodologies. Other impact subgroups presented their investigation work models (different to DPSIR). After a long theoretic and methodological debate on the limitations and strengths of adopting a unique framework (DPSIR) to carry out the impact studies, the groups agreed upon the DPSIR as the general **conceptual frame**, but leaving enough scientific freedom for each subgroup to adopt for on their study case the methodology they consider most appropriate to achieve CLARIS LPB objectives.



There was also a discussion about the importance of considering complex concepts such as vulnerability and adaptation (to what kind of factor is each actor vulnerable? What kind of adaptation is better for each type of actor? etc.). Moreover, the need of thinking in terms of **flexible adaptation strategies** was underlined as well as the importance of an **integrated design and assessment** of adaptation and mitigation policies. Furthermore, there was a special session on the relationship with stakeholders in which Pierre Girard from the SINERGIA network of researchers was invited to present that project. A peculiarity of SINERGIA is that since the beginning, the project is conceived as a co-production between social actors and scientists (<http://www.portalsinergia.org.br/homepage.php>). Last, but not least, there was also a posters session in which both senior and young scientists participated.

The meeting was a big step forward for the Project, since it allowed defining a common conceptual frame (DPSIR), and established a fluid communication and exchange between researchers from different disciplinary horizons and it will be the basis for the creation of a brochure for WP8 & WP9.



### 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), Maria 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.

### 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), Maria 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 Pessacg (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, Magali (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.

### CLARIS LPB Introductory Course on Systems thinking, systems practice



The first CLARIS LPB Introductory Course on Systems Thinking, Systems Practice, was taught by Sandro Luis Schindwein (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.

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[www.claris-eu.org](http://www.claris-eu.org)

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