



SOM Working Group on Biodiversity and Climate Change meeting

ALCUE NET / CORDEX workshop, Bogota, 23 September 2015



Biodiversity and Climate Change Working Group

Progress Made (May 2014 – September 2015)

Main activities achieved

Two workshops organised by ALCUE-NET

- **Marseille**, France, 26-28 November 2014: « *Capacity building and networking towards better coordination of biodiversity and climate change research* »
- **Bogotá**, Colombia, 21-23 September 2015: « *ALCUE NET / CORDEX LAC III workshop on biodiversity and climate change* »

Participation to other workshops / side-events:

- **Lima**, Perú, December 2014: COP 20 side event
- **Buenos Aires**, Argentina, March 2015: Bi-regional workshop on Climate Services
- **Berlin**, Germany, March 2015: Workshop of ENSOCIO LAC project (Climate Actio, Resource Efficiency and Raw materials)



Priority topics for R&I cooperation between the two regions

1. **Biodiversity assessment and monitoring** – Improving baseline distribution data and compatibility with climate datasets (1st joint call of the ERANET-LAC launched in November 2014)
2. **Observatories network on biodiversity and climate change** – Coordinating data acquisition and fostering data access and transfer
3. **Ecosystem-based adaptation and resilience**
4. **Climate Services** - Enhancement of public private market for Climate Services through institutional innovation in response to socioeconomic needs in CELAC region

Refined in
November
2014
(Marseille
workshop)

New topic (2015)

Finalization of the analysis of EU-LAC cooperation on biodiversity AND climate change – Mapping collaboration networks, and their temporal trends

- **Bibliometric and projects analysis**, performed by **IRD** with the support of **BiodivERSa**, a network of European funding agencies coordinating biodiversity research
- Identify / Quantify cooperation activities between Europe and Latin America and Caribbean, with a focus on **temporal evolution, EU vs LAC leadership, type of research domains covered...**



Jean-Louis Duprey, IRD

The development of **CAPACITY BUILDING ACTIVITIES**

- The model of ALCUENET / CORDEX LAC III training
- Other activities and topics will be suggested:

ACTIVITIES	TOPICS
- Joint Master Degrees or PhD - Student or Staff exchange - Bi-regional trainings - Horizontal activities between LAC countries - Guidelines on specific topics (e.g. IPR)	- Taxonomic and ecological expertise - Database management and technical platforms - Bioinformatics - Intellectual Property rights - Public / private partnerships

The development of **CAPACITY BUILDING ACTIVITIES**

- Opportunities in Horizon 2020 and Erasmus + programme have been highlighted:

HORIZON 2020	ERASMUS +
	
Innovative Training Networks	Erasmus Mundus Joint Master Degrees
Individual Fellowships	
Research and Innovation Staff Exchange	
Co-Funding of Regional, National and International Programmes	

The development of **CAPACITY BUILDING ACTIVITIES**

- **Specific issues have been addressed during workshops on:**
 - **Data collection and management**, database management and technical platform, bioinformatics...
 - **Intellectual Property Rights** including genetic resources access and benefit sharing (Nagoya Protocol)
 - **Public / private partnerships** (see Portugal case study at Marseille workshop)
 - Developing the **Scenario concept** with the use of **high resolution modelling** (5km) by climate and biodiversity researchers

- **This could lead to the preparation of joint actions on:**
 - **The exchange of good practices** with international initiatives (Intergovernmental Platform on Biodiversity and Ecosystem Services – **IPBES**; Global Biodiversity Information Facility – **GBIF**)
 - **The development of guidelines** for researchers and project managers, especially in LAC countries
 - **Specific trainings** on Public Private Partnerships
 - **Pilot study** on a biological sensitive region with **high resolution modeling** to foster trans-disciplinary research on the scenario concept

Horizon 2020 – Future calls for LAC interest on Biodiv & CC

Nature-based solutions for territorial resilience:

SC5-08-2017: *Large scale demonstrators on NBS for hydro-meteorological risk reduction*

SC5-09-2016: *Operationalising insurance value of ecosystems*

SC5-10-2016: *Multi-stakeholder dialogue platform to promote innovation with nature to address societal challenges*

Climate Services:

SC5-01-2016-2017: *Exploiting the added value of climate services*

SC5-02-2017: *Integrated European regional modelling and climate prediction system*

SC5-03-2016: *Climate services market research*

SC5-04-2017: *Towards a robust and comprehensive greenhouse gas verification system*

SC5-05-2016: *A 1.5 million year look into the past form improving climate predictions*

Smart and Sustainable cities:

SCC-1-2014-2017: *Smart Cities and Communities lighthouse projects*

SCC-02-2016-2017: *Demonstrating innovative nature-based solutions in cities*

SCC-03-2016: *New governance, business, financing models and economic impact assessment tools for sustainable cities with nature-based solutions (urban re-naturing)*

SCC-014-2016: *Sustainable urbanisation*

Topic 4 Climate Services - *Enhancement of public and private market for Climate Services through institutional innovation in response to socioeconomic needs in CELAC region*

- Emerged from discussions between experts during a bi-regional Seminar to identify joint activities on Climate Services in **Buenos Aires, 9-10 March 2015**
- Aligned with the European Commission **Roadmap for Climate Services**
- Concept note sent to the **European Commission** for enhancing future bi-regional cooperation on CS in **Horizon 2020** and involving **CELAC as a target region**
- The topic will be suggested to be part of the agenda of the **ERANET LAC joint call 2015-2016**

The development of a **BI-REGIONAL OBSERVATORY PLATFORM**

- This idea was highlighted in Marseille in November 2014, following the presentation made by **Dr. Carlos Patiño Gómez (UDLAP)**

« A **common platform** from where **researchers and decision makers** could get the latest information about climate change scenarios, climate data, vulnerability assessments, biodiversity legislation and adaptation measures... »

« Including the results of **mapping analysis** (i.e. BiodivERsA and ALCUENET mapping on bi-regional cooperation) and regional assessments »

The development of a **BI-REGIONAL OBSERVATORY PLATFORM**

- Elaboration of a **roadmap** setting out the milestones for implementation:
 1. Mapping of EU-LAC observatories on biodiversity and climate change;
 2. Networking meeting with representatives of the observatories;
 3. Definition of terms of reference (status, agreement between observatories...);
 4. Identification of funding sources and partners.



Bernard Bourles, IRD – PIRATA Observatory



STRATEGIC ACTIVITIES

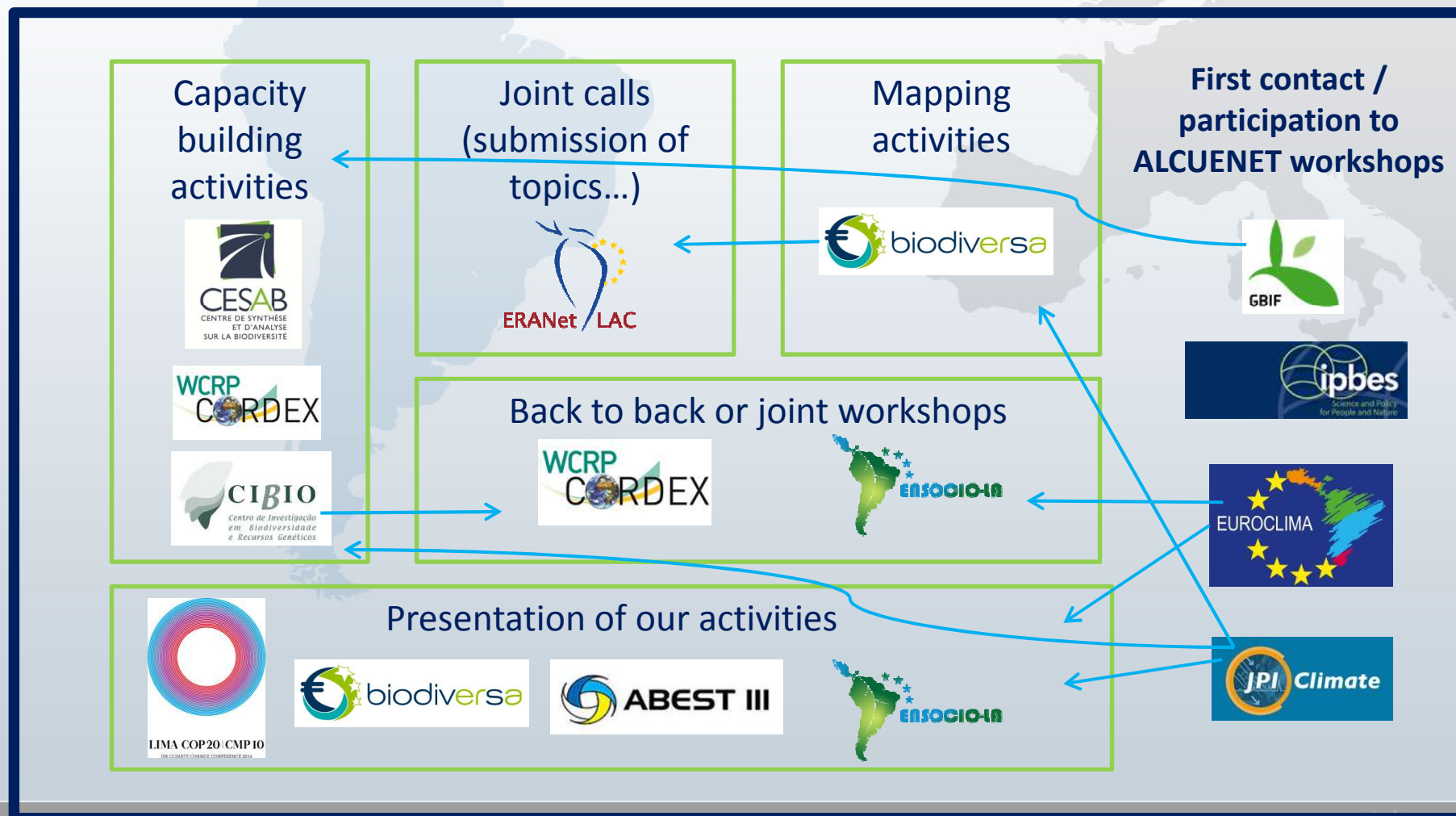
Dialogue and collaboration with other initiatives:

- **CORDEX LAC:** Coordinated Regional climate Downscaling Experiment
- **ERANET LAC:** Network of EU LAC countries on joint innovation and research activities
- **ENSOCIO LA:** EU LAC S&I cooperation on climate action, resource efficiency and raw materials
- **BiodivERsA:** network of funding organisations for the conservation and sustainable management of biodiversity
- **JPI Climate:** coordination and funding of transnational research initiatives on climate
- **EUROCLIMA:** Regional cooperation programme between EU and LA on climate change
- **GBIF:** Global Biodiversity Information Facility
- **IPBES:** Intergovernmental Platform on Biodiversity and Ecosystem Services
- **ABEST:** Liaison Office Argentina-European Union in STI
- **FRB:** French Foundation for Research on Biodiversity (Center for Synthesis and Analysis on Biodiversity)
- **CIBIO:** Research Centre in Biodiversity and Genetic Resources

Other targeted projects:

- **Belmont Forum / Future Earth:** International research platform for global sustainability
- **GFCS:** Global Framework for Climate Services (WMO)
- **JPI Urban Europe** (open to third countries)

Dialogue and collaboration with other initiatives

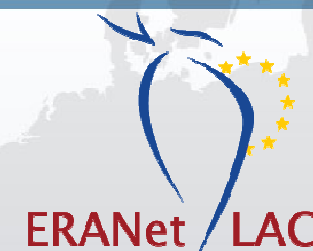




WP on Biodiversity and climate change – Scientific area

ERANET LAC 1st Joint Call (2014 -2015)

- Total funding: **9,6 Million €**
- **20 funding organizations** from Europe, Latin America and the Caribbean
- Thematic fields: **Bioeconomy, Health, Biodiversity and Climate Change, Energy**
- Biodiversity topic: **Biodiversity monitoring and assessment**
- **90 project proposals** submitted (533 partners)
- **13 projects** funded
- **3 Biodiversity projects funded** for a total amount of **2.2 M €**





WP on Biodiversity and climate change – Scientific area

ERANET LAC 1st Joint Call (2014 -2015) Biodiversity projects funded:



- **AMAZONFISH: Amazonian fishes and climate change** (IRD, **France**; Pontificia Universidad Javeriana, **Colombia**; Royal Belgium Institute of Natural Sciences, **Belgium**; Universidad Nacional Mayor de San Marcos, **Peru**)
- **CAVICE: Cave ice microbiom – Metabolic diversity and activity in response to climate dynamics and anthropogenic pollution** (Institute of Biology, **Romania**; National Scientific and Technical Research Council, **Argentina**; University of Antofagasta Facultad de Ciencias del Mar y Recursos Biologicos, **Chile**; University of Bergen, **Norway**)
- **METHANOBASE: METHAnogenic Biodiversity and activity in Arctic and Subantartic Ecosystems affected by climate change** (Ecole Nationale Supérieure d'Agronomie de Toulouse, **France**; Instituto de Investigaciones Biologicas, **Uruguay**; Pontifica Universidad Catolica de Valparaiso, **Chile**; Royal Belgium Institute for Natural Sciences, **Belgium**; UiT The Arctic University of Norway, **Norway**; University of Magallanes, **Chile**; P.I. Permafrost Institute, Siberian branch of the Russian Academy of Sciences, **Russia**; University of Alaska Fairbanks, **USA**)

Total : around 2.2 M €



WP on Biodiversity and climate change – Scientific area

ERANET LAC 2nd Joint Call (2015 -2016)

- Calendar:

29-30 September 2015	Meeting of Ministries and Funding agencies - Selection of topics and discussions t of budget of the call
October 2015	Commitment of countries and funding agencies (Memorandum of Understanding)
December 2015	Launch of the call
March – June 2016	Evaluation of the proposals
June 2016:	Final decision of the Call Steering Committee

- Associated countries and funding agencies:

- **EUROPE:** Germany (DLR, BMBF, Max Plant), Spain (MINECO, FECYT, CSIC), Finland (AKA), France (IRD, CIRAD), Norway (RCN), Portugal (FCT), Romania (UEFISCDI), Turkey (TUBITAK)
- **LATIN AMERICA & CARIBBEAN:** Argentina (MINCT), Barbados (CSF), Brasil (CNPq), Chile (CONICYT), Colombia (COLCIENCIAS), Costa Rica (MICITT), Mexico (CONACYT), Panama (SENACYT), Peru (CONCYTEC), Uruguay (MEC)



ENSOCIO-LA : Strategic Sustainable Research and Innovation Cooperation with Latin America on Climate Action, Resource Efficiency and Raw Materials

- Funded by the European Commission (May 2013 – April 2015)
- 14 partners from EU and LA (funding agencies and research institutes)
- **Main outputs:**
 - Platform of EU-LA research projects (450 projects) on climate action, resources efficiency and raw materials
 - Dissemination of research results (workshops, reports...)
 - Policy dialogue: involved in ALCUENET mechanism with the SOM
 - Identification and dissemination of topics and cooperation with the ERA-NET LAC
- **Topics identified on Climate Action and Biodiversity:**
 - Governance of Climate, Biodiversity and Ecosystem Services
 - Role of small holders in global land use changes and biodiversity
 - Ecosystem Services
 - Stakeholder networks able to create the conditions to coproduce knowledge on climate change
 - **Enhancement of public and private market for Climate Services through institutional innovation in response to socio economic needs in CELAC region.**



BiodivERsA: Network of European funding organisations for the conservation and sustainable management of biodiversity



- **Regular joint calls** on biodiversity at the European level:
 - 2011 Biodiversity and ecosystem services and their valuation (9.6M€),
 - 2012 Biodiversity scenarios, identifying tipping points and improving resilience (8.8M€),
 - 2013 Invasive species and biological invasions (8,9M€)
 - 2014 Promoting synergies and reducing trade-offs between food supply, biodiversity and ES (10.2M€)
 - 2015 Understanding and managing biodiversity dynamics to improve ecosystem functioning and delivery of ecosystem services in a global change context (30M€)
- ALCUE NET / BIODIVERSA **bibliometric analysis** on EULAC cooperation on Biodiv & CC
- **International strategy** being discussed by BiodivERsA consortium (LAC region targeted)
- **Resources, materials** available on website biodiversa.org:
 - Call brochure of funded projects for each call
 - Good practices for stakeholders' engagement
 - Policy briefs based on the results of funded projects

EUROCLIMA: Regional cooperation programme between EU and LA on climate change (2010 – 2016)



- Facilitating the integration of Climate Change into public policy and development plans at the national and (sub)regional scale
- Providing studies and organising regional meetings in LAC countries including scientists, policy makers and stakeholders
- Next programme being discussed by the European Commission with EU partners

JPI Climate: coordination and funding of transnational research initiatives on climate

- Involved in the preparation of the European Commission Roadmap on climate services (published in Feb 2015)
- Launching of an **ERA NET on Climate Services – ERA4CS** (January 2016 – 41 European partners) with **joint calls for proposals**
- Are expected to develop an **international strategy** for future cooperation
- Organisation of a **meeting with ALCUE NET partners, back to back with the SOM** in Brussels (last week of November 2015)
- **Open Consultation** in December = Opportunity to submit recommendations on their future international strategy



Other activities

Recommendations from Bogota workshop?

Some examples to be discussed:

- New topics and recommendations for research and innovation projects:
 - 1. Intensify the cooperation with global **data** infrastructures to encourage data use across climate and biodiversity communities
 - 2. Scientists should engage in true **interdisciplinarity** research
 - 3. **Incentives** are needed to fill the gap between BD and CC communities
- Proposals for capacity building actions
 - Research and Innovative Staff Exchange, Co-Funding Programmes, Joint Master Degrees...
 - Dissemination of the workshop outputs
 - Follow up and support to potential applicants
- Strategic links with targeted initiatives: IPBES, IPCC, BiodivERsA, CORDEX, GEOSS, GBIF, Lifewatch...
- ...

Roadmap 2016

- Next (and last?) workshop (2016)
- Meeting with JPI Climate (November 2015)
- Colaboration with: BiodivERsA, Future Earth, CORDEX, other initiatives?
- Identification of new topics: Climate Services + Bogota Small group
- Development of capacity building activities (RISE, COFUND, Joint Master Degree) and follow up of potential applicants
- Proposal for the implementation of an observatories network

Thank you for your attention!

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ALCUE NET is funded by the European Commission under the 7th Framework Programme.