



ALCUE NET

Latin America, Caribbean and European Union Network on Research and Innovation



ALCUE NET project

WP5: Biodiversity and Climate Change area

ALCUE NET / CORDEX workshop, Bogota, 23 September 2015





ALCUE NET Project (December 2012 – May 2017)

- Bi-regional consortium with 19 partners
- Coordinated by Argentina (MINCyT)
- 4 thematic work packages:
 - Bioeconomy
 - Biodiversity and climate change
 - ICT
 - Energy

Institution	Country	
MINISTERIO DE CIENCIA, TECNOLOGÍA E INNOVACIÓN PRODUCTIVA (COORD)	MINCyT	Argentina
ZENTRUM FUER SOZIALE INNOVATION GMBH	ZSI GMBH	Austria
CARIBBEAN SCIENCE FOUNDATION INC.	CSF	Barbados
CONSELHO NACIONAL DE DESENVOLVIMENTO CIENTIFICO E TECNOLÓGICO	CNPq	Brazil
COMISION NACIONAL DE INVESTIGACION CIENTIFICA Y TECNOLÓGICA	CONICYT	Chile
DEPARTAMENTO ADMINISTRATIVO DE CIENCIA, TECNOLOGÍA E INNOVACIÓN	COLCIENCIAS	Colombia
MINISTERIO DE CIENCIA , TECNOLOGIA Y TELECOMUNICACIONES DE COSTA RICA	MICITT	Costa Rica
MINISTERIO DE EDUCACION SUPERIOR CIENCIA Y TECNOLOGIA	MESCYT	Dom. Rep.
TEKNOLOGIAN TUTKIMUSKESKUS VTT	VTT	Finland
CENTRE DE COOPERATION INTERNATIONALE EN RECHERCHE AGRONOMIQUE POUR LE DEVELOP.	CIRAD	France
DEUTSCHES ZENTRUM FUER LUFT - UND RAUMFAHRT EV	DLR	Germany
CONSEJO NACIONAL DE CIENCIA Y TECNOLOGIA - CONACYT	CONACYT	Mexico
NORGES FORSKNINGSRAD	RCN	Norway
SECRETARIA NACIONAL DE CIENCIA, TECNOLOGIA E INNOVACION	SENACYT	Panama
FUNDACAO PARA A CIENCIA E A TECNOLOGIA	FCT	Portugal
MINISTERIO DE ECONOMIA Y COMPETITIVIDAD	MINECO	Spain
MINISTERIO DE EDUCACION Y CULTURA	MEC	Uruguay
MINISTÉRIO DA CIÊNCIA, TECNOLOGIA E INOVAÇÃO / INSTITUTO BRASILEIRO DE INFORMAÇÃO EM CIÊNCIA E TECNOLOGIA	MCTI/IBICT	Brazil
INSTITUT DE RECHERCHE POUR LE DEVELOPPEMENT	IRD	France



ALCUE NET
Latin America, Caribbean and European Union Network on Research and Innovation

ALCUE NET support to the EU-CELAC S&T Policy Dialogue

EU-CELAC Summits

Senior Officials
Meetings (SOM)

SOM Working Groups:

- Bioeconomy
- Biodiversity and climate change
- ICT
- Energy

Report
recommendations



EU-CELAC PLATFORM

Researchers, programme managers,
policy makers, stakeholders,
public / private sectors...

*Workshops, joint activities,
trainings...*



ALCUE NET

Thematic work packages:

- Bioeconomy
- **Biodiversity and CC**
- ICT
- Energy

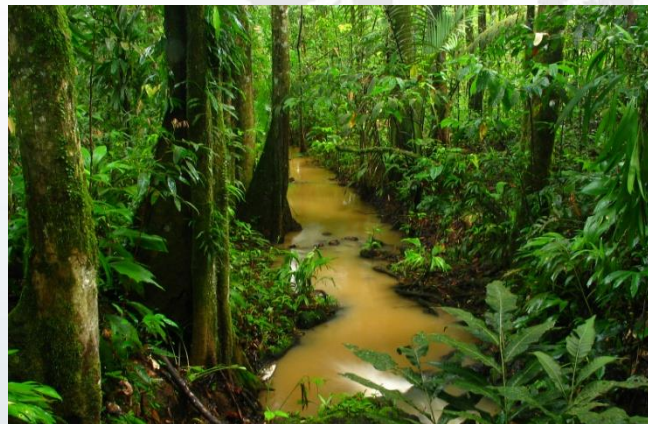
ALCUENET WORK PACKAGE BIODIVERSITY AND CLIMATE CHANGE



ALCUE-NET Work Package 5 on Biodiversity and Climate Change

This work package is co-led by:

- **Colombia**, Departamento Administrativo de Ciencias, Tecnología e Innovación (COLCIENCIAS)
- **France**, Institut de Recherche pour le Développement (IRD)



Pascal Dumas, IRD



Patrick Blanchon, IRD





ALCUENET Work Package on Biodiversity and Climate Change

Technical

Organization of workshops

Sustainable network of experts

Scientific

Mapping of the biregional cooperation

Identification of common priorities

Strategic

Recommendation to the SOM (Senior Officials Meetings)

Dialogue and cooperation with key initiatives



ALCUENET Work Package on Biodiversity and Climate Change

Technical

Organization of workshops

Sustainable network of experts

Scientific

Mapping of the biregional cooperation

Identification of common priorities

Strategic

Recommendation to the SOM (Senior Officials Meetings)

Dialogue and cooperation with key initiatives



ALCUE NET
Latin America, Caribbean and European Union Network on Research and Innovation

1) Progress achieved this year / Technical area

Organisation of workshops

Santa Marta, Colombia, 4-6 March 2014: « *Thematic workshop on Biodiversity and Climate Change* »

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* »





Workshops' activities

Presentations



Scientific breakthroughs, research results, innovative processes, key projects & programmes

Good practices



Public Private Partnerships, database management and share of data, Intellectual Property Rights, observatories network...

Priority topics



4 priority topics identified; One has been selected as a topic of the ERANET LAC 2014 joint call

Training / Brainstorming



Biodiv / CC interactions & future actions (observatories platform, capacity building activities...)



To establish a platform of dialogue and networking between experts from different disciplines and sectors related to Biodiversity and Climate Change



ALCUENET Work Package on Biodiversity and Climate Change

Technical

Organization of workshops

Sustainable network of experts

Scientific

Mapping of the biregional cooperation

Identification of common priorities

Strategic

Recommendation to the SOM (Senior Officials Meetings)

Dialogue and cooperation with key initiatives



The analysis of EU-LAC cooperation on biodiversity AND climate change – Mapping collaboration networks, and their temporal trends (2003 – 2013)

- **Bibliometric and projects analysis**, performed by **IRD** with the support of **BiodivERsA**, a network of European funding agencies coordinating biodiversity research
- Analysis of publications **co-authored by EU and LAC** researchers, through the Web of Science database
- 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...**





Some of the results of the mapping analysis:

- The number of publications between EU and LAC countries on biodiversity, climate change and the B&CC interface all **increase exponentially, with the highest exponential coefficients found for the B&CC interface.**
- LAC scientists published on B&CC at the same level with the EU, North America and other LAC countries.
- ERA and LAC countries increased their authorship.
- While the core of the collaboration network included **Brazil, Argentina, Mexico, UK, Spain, France, Germany and Switzerland** for both periods (2003–2008 and 2008–2013), a more important core also including **Chile, Venezuela, Ecuador, Portugal, Italy and Denmark** was observed during the 2nd period (2008-2013) .
- 85% of all studies in biological sciences were conducted in sites/organisms **located on LAC territories, mainly on terrestrial and freshwater.**



The **identification of common priority topics** for R&I cooperation between the two regions (along with ERANET-LAC)

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



TO BE DISCUSSED THIS MORNING IN SMALL GROUP



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: ***Exchanging Bi-regional experiences on Climate Services to identify joint activities, Buenos Aires, 9-10 March 2015***
 - 50 experts (programme managers, scientific leaders with experience in the field of climate services R&I)
 - 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**



ALCUE NET
Latin America, Caribbean and European Union Networks on Research and Innovation

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 €**



Jean-Louis Duprey, IRD



ALCUE NET

Latin America, Caribbean and European Union Networks on Research and Innovation

WP on Biodiversity and climate change – Scientific area



ERANet LAC

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

- **AMAZONFISH: Amazonian fishes and climate change** (Institut de Recherche pour le Développement, **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 €



ALCUE NET
Latin America, Caribbean and European Union Networks on Research and Innovation

WP on Biodiversity and climate change – Scientific area



ERANET LAC 2nd Joint Call (2015 -2016) on Energy, Bioeconomy, Health, Biodiversity and Climate Change and ICT

Calendar:

29-30 September 2015 Meeting of Ministries and Funding agencies - Selection of topics and budget

October 2015 Commitment of countries and funding agencies

December 2015 Launch of the call

March – June 2016 Evaluation of the proposals

June 2016: Final decision of the Call Steering Committee

Potential associated countries:

- **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).



ALCUENET Work Package on Biodiversity and Climate Change

Technical

Organization of workshops

Sustainable network of experts

Scientific

Mapping of the biregional cooperation

Identification of common priorities

Strategic

Recommendation to the SOM (Senior Officials Meetings)

Dialogue and cooperation with key initiatives



ALCUE NET
Latin America, Caribbean and European Union Networks on Research and Innovation

WP on Biodiversity and climate change – Strategic area

EU-CELAC Summits

Senior Officials
Meetings (SOM)

SOM Working Groups:

- Bioeconomy
- Biodiversity and climate change
- ICT
- Energy

Report
recommendations



EU-CELAC PLATFORM

Researchers, programme managers,
policy makers, stakeholders,
public / private sectors...

*Workshops, joint activities,
trainings...*



ALCUE NET

Thematic work packages:

- Bioeconomy
- Biodiversity and CC
- ICT
- Energy



Recommendations to the annual Senior Officials Meeting

- Next SOM: 25-26 November 2015 in Brussels
- What will be reported (to be discussed further this afternoon)
 - Updated list of priority topics
 - Mapping of EULAC cooperation landscape
 - Funding opportunities (Horizon 2020, ERANET LAC...)
 - Specific activities to be developed (capacity building activities, joint actions with key initiatives...)
 - Roadmap for 2016 including meetings or collaborations with other key initiatives



Recommendations to the annual Senior Officials Meeting

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



Recommendations to the annual Senior Officials Meeting

The development of **CAPACITY BUILDING ACTIVITIES**

- The model of **ALCUE NET / CORDEX LAC III training** will be highlighted
- Important source of funding: **Horizon 2020** and **Erasmus +** (European Commission)
- Other activities and topics suggested:

ACTIVITIES	TOPICS
- Joint Master or Doctoral Degrees - Staff exchanges - 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

TO BE DISCUSSED THIS MORNING IN SMALL GROUP



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 initiatives:

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



STRATEGIC ACTIVITIES

ALCUE NET
Latin America, Caribbean and European Union Network on Research and Innovation

Dialogue and collaboration with other initiatives



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



- **Regular joint calls** on biodiversity at the European level:
 - 2011 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 + participation to ALCUE NET workshop in Marseille.
- **International strategy** beeing 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

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 (75 M € in 2016)**
- 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



UPCOMING EVENTS

**SOM, Brussels, 25-26 November 2015 + ALCUE
NET consortium meeting – Presentation of a
roadmap for 2016**

TO BE DISCUSSED THIS AFTERNOON

In 2016: 4th bi-regional workshop

***TO BE DISCUSSED THIS
MORNING IN SMALL GROUP***



Olivier Dangles, IRD

Thank you for your attention!

claire.freour@ird.fr

www.alcuenet.eu

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