

São Paulo School of Advanced Science on Climate Change: Scientific basis,
adaptation, vulnerability and mitigation (3-15 July 2017, São Paulo, Brazil)

Marcella Ohira
Deputy Executive Director
Director for Capacity Building



INTER-AMERICAN INSTITUTE FOR GLOBAL CHANGE RESEARCH

IAI is a treaty organization

19 Member Countries



1. Argentina
2. Bolivia
3. Brazil
4. Canada
5. Chile
6. Colombia
7. Costa Rica
8. Cuba
9. Dominican Republic
10. Ecuador
11. Guatemala
12. Jamaica
13. Mexico
14. Panama
15. Paraguay
16. Peru
17. Uruguay
18. USA
19. Venezuela

Mission

Augment scientific capacity in the Americas to Understand global change and its impacts and Provide sound and useful information to decision-makers in a timely manner

Core values: scientific excellence, international cooperation, open exchange of scientific information

Instrument: scientists and decision makers jointly address critical global change problems of regional importance

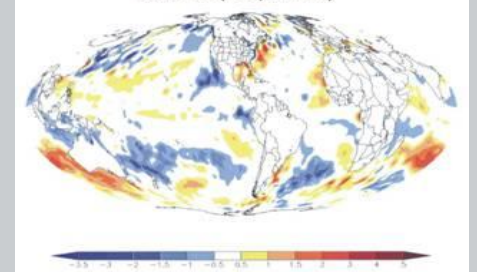


Developing Scientific Basis for Decision-making

- Ensure scientific excellence /Develop capacities
- Meet the needs of the Member Countries
- Build collaboration among researchers, stakeholders and decision makers
- Co-design of multinational research for policy application: challenge and opportunity



Normal (May, 1994)



IAI Science Agenda

Consultation process: scientists, policy makers from 19 member countries

- Understanding Climate Change and Variability in the Americas;
- Comparative Studies of Ecosystem, Biodiversity, Land Use and Cover, and Water Resources in the Americas;
- Understanding Global Change Modulations of the Composition of the Atmosphere, Oceans and Fresh Waters;
- Human Dimensions and Policy Applications.



Programs and Activities

Fund multinational research projects

- Collaborative Research Networks (CRNs), Small Grants (SGP)
Open calls & Peer Review
Scientific Excellence and Policy Relevance

Foster capacity building

Provide input to international GC frameworks, conventions

- UNFCCC, IPCC, CBD, IPBES - work with country delegations

Science – Policy

- Support National Policy frameworks and Regional approaches to:
Sustainable Development Goals and Science-Policy Interface

IAI research contributes to International Politics & Negotiations

UNFCCC, IPBES, SBSTA

IAI scientists serve as technical advisers to country delegations

IAI scientists contribute to IPCC



DECLARACIÓN DE LIMA 2014 SOBRE LA BIODIVERSIDAD Y EL CAMBIO CLIMÁTICO DE LA CIENCIA A LA POLÍTICA PARA EL DESARROLLO SOSTENIBLE

Los días 27 y 28 de noviembre de 2014, a la vera de la vigésima Conferencia de las Partes de la Convención Marco de las Naciones Unidas Sobre el Cambio Climático (CMNUCC), un grupo internacional de científicos, invitados por el Ministerio del Ambiente del Perú, el Consejo Nacional de Ciencia y Tecnología y la Secretaría del Convenio sobre Diversidad Biológica, con el apoyo del Instituto Interamericano para la Investigación del Cambio Global (IAI) y la Agencia Alemana de Cooperación Internacional (GIZ), se reunió para analizar los resultados de sus investigaciones recientes y debatir con los tomadores de decisiones acerca de las implicaciones de su trabajo para la acción en materia de biodiversidad y cambio climático en las escalas nacional, regional y global.

Resultados:

Las conclusiones científicas tienen que ver en primer lugar con *la naturaleza de las amenazas* – los impactos del cambio climático en la biodiversidad, cómo influye ésta en la vulnerabilidad al cambio climático o la resiliencia de los ecosistemas, las técnicas para evaluar el riesgo de extinción de especies y comunidades, cómo puede la actividad humana exacerbar los impactos del cambio climático y las tecnologías disponibles para medir y reportar dichos cambios. En segundo lugar, las conclusiones abordan *las soluciones* dirigidas a incrementar las reservas de carbono, conservar la biodiversidad y contribuir al bienestar humano mediante la restauración de los ecosistemas, los acercamientos a la conservación desde el nivel de comunidad, los incentivos para promover prácticas sostenibles de uso del suelo y marcos de políticas coherentes.

Específicamente, el trabajo presentado en la conferencia demuestra que:



Convention on
Biological Diversity



PRESS RELEASE

Científicos y encargados de políticas hacen un llamamiento a incrementar los esfuerzos por integrar la biodiversidad en la política del cambio climático

Lima, 5 de diciembre de 2014 – Un grupo de científicos y encargados de políticas formuló una declaración al Ministro del Ambiente de Perú, Manuel Pulgar Vidal, presidente de la COP-20 de la CMNUCC, requiriendo investigaciones integradas en materia de diversidad biológica y cambio climático y un mayor reconocimiento de los aspectos clave de la biodiversidad en el contexto de cambio climático.

La declaración contiene un conjunto de recomendaciones hechas por los científicos que evaluaron el estado, tendencias y vulnerabilidad de la diversidad biológica al cambio climático. Según los investigadores que se reunieron en un simposio sobre Biodiversidad y cambio climático, realizado durante dos días en Lima, es necesario un mayor reconocimiento, en las negociaciones sobre el clima, del papel de la biodiversidad en la captura de carbono y en la resiliencia para las necesidades en materia de adaptación.

La declaración también pide a los países que adopten medidas urgentes para proteger la biodiversidad y el medio ambiente.

Giving scientists a voice in international politics

The Ministry of Environment is very pleased to invite you to the Executive Meeting

“FROM SCIENCE TO POLICY: CONTRIBUTIONS FROM SCIENCE TO COPE WITH CLIMATE CHANGE”

This event will present the results of the dialogue among scientists and policy makers held at the scientific symposium “Biodiversity and Climate Change: Contributions from change to policy for sustainable development” held in Lima on the 27th and 28th of November 2014. The event will focus on challenges and gaps in the research agenda that must be overcome to foster synergies for both the Convention on Biological Diversity and the United Nations Framework Convention on Climate Change. Also, there will be a presentation of the IAI-Environet program by the Inter-American Institute for Global Change Research (IAI).

Events Details:



Peru Pavilion
COP 20 Headquarters



Friday, December 05th



From 8:00 to 10:00 am



Breakfast



Ministerio
del Ambiente



Convention on
Biological Diversity



United Nations
Framework Convention on
Climate Change



Implementado por
glz

UNFCCC COP-22 (Nov 2016)

Launched MOOC at Climate Change Studio



IAI Exhibit Booth



Joint side-event with ICSU + partners



INTER-AMERICAN INSTITUTE FOR GLOBAL CHANGE RESEARCH

CBD COP-13(Dec 2016)



300-400 participants!

December 1 and 2, 2016
Cancun
International Convention Center
Mexico

The forum aims to be a meeting place to share Knowledge, approaches and solutions for mainstreaming biodiversity especially on agriculture fisheries, forestry and tourism, among scientists, policy - makers, and the civil society



Biodiversity changes are just as important as climate change



Sustainable Development Goals



SDGs



The sustainable development goals and global action plan
Los objetivos de desarrollo sostenible y el plan de acción global

Voices of the scientists – Los científicos

THE GLOBAL GOALS
For Sustainable Development

On September 25th 2015, 193 world leaders committed to 17 Sustainable Development Goals for the future of the planet for everyone. As part of Project Everyone, the IAI has collected the voices of scientists from around the world.

El 25 de septiembre de 2015, 193 líderes mundiales se comprometieron con 17 objetivos de desarrollo sostenible para el futuro del planeta para todos. Como parte de Project Everyone, el IAI ha recopilado las voces de científicos de todo el mundo.

YouTube

Daniel Bausch – Goal 3 – EN

Nina Lam – Goal 11 – EN

Sandra Diaz – Goal 11 – EN

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IAI

25th

UN
DP

Empowered lives.
Resilient nations.

Argentina

COUSTE



Side event at UN Ocean Conference

Statement of the IAI at Partnership Dialogue 6 – UN Ocean Conference

How scientific knowledge on oceans can contribute to the implementation of national action plans on climate and ... **+ info...**

Increasing scientific knowledge, and developing research capacity and transfer of marine technology Jose ... **+ info...**



IAI Science contributes to Policy

Preserving a Forest and a way of life: research into dry forests resulted in the protection of more than 6,000 square miles of forest.



New State law would have allowed for 70% of forest to be cut down in Northern part of Minas Gerais state, Brazil.

Loss of these forests would have posed a serious threat to local communities livelihoods, biodiversity and ecosystem services, including weather regulation and water production in Brazil's second-largest watershed, the Sao Francisco River.

IAI research network Tropri-DRY (5 countries) testified before the State High Court and the Federal Attorney to explain scientific results from international cooperation.

Disagreement between classification of area as protected between State & Federal law.

"Once the scientific data established that the dry forest of Minas Gerais is an extension of the Atlantic forest, federal protection was extended to these forests." Marcos Santo, IAI scientist.

State Law declared unconstitutional.

Capacity Building

- 1.Support to graduate students (science programs)
- 2.Technical workshops (science programs)
3. Research internships (at IAI and partner organizations)
4. Massive open online courses MOOC, Webinars
5. Science-Policy Fora
- 6.Professional Development Seminars (Inter/Transdisciplinary approaches)



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25th

The role of IAI capacity building in the "new" Science

Training of future **leaders** in science, policy, science diplomacy, management

Leadership of global change research and of science-policy communication

Innovative Design

Program fosters Science-Policy

Mixed audience: young scientists with decision makers, civil society, private sector

Plan Follow up activities

Mentorship during the process

IAI is in the forefront of developing **PROCESSES** for team building and

Interdisciplinary and Transdisciplinary research – **Co-Design**

Learn by Doing: Training Seminars associated with Seed Grants

Innovative programs: Seed Grant program associating capacity building seminars

Train scientists and policy makers together (1-2 years)

IAI Venue:

- Dialogue, trust, communication
- Identification of common interests and problems
- Integration of expertise and knowledge
- Joint work in framing and development of policy relevant research
- Development of collaborative research and science-policy collaboration

Process of Learn by Doing



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Seed Grant program

Participants and partners acknowledged no other program similar to IAI training events that:

- Engage young researchers with decision makers
- Provide training in cutting-edge methods and concepts (particularly TD)
- Expose young scientists to team science process
- Focus on achieving both scientific and policy outcomes
- Strengthen proposal development skills and management capacities
- Provide funding to develop projects to apply knowledge and tools imparted from training



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Seed Grant Program (2011-2015)

Innovative, low cost and broad impact

11 networks / projects

68 professionals

53 institutions (academia, government, NGOs, private sector)

15 countries

\$220,625 IAI seed grant funding

\$124,403 leveraged resources

Varios science and policy outputs

7 training events held in Uruguay, Ecuador, Dominican Republic, Guatemala, Panama, Chile, Argentina

Professional Development Seminar on Managing ecosystem services from Tropical forests (July 2016, Liberia-Costa Rica and May 2017, Santiago-Chile)



Professional Development Seminar on Managing Ecosystems Services from Tropical Forests

Understanding ecosystem functioning is fundamental to preserve the goods and services necessary for human populations. Tropical forests are the basis for the livelihoods of millions of people worldwide. There is a great need for training managers, policy makers, and scientists on how to quantify and manage ecosystem services, learning from the experience of local communities and decision makers on designing and carrying out conservation programs across the Americas.



Applications open!

1st session: Liberia, Costa Rica – 25-30 July, 2016

2nd session: Santiago, Chile – 2017

Information: IAI.costarica2016@dir.iai.int



Professional Development Seminar on Managing ecosystem services from Tropical forests



22 professionals, 9 countries

6 projects (July 2016 - May 2017)

- *What do we know about legislation and application of ecosystem services in Argentina, Bolivia and Costa Rica?: A comparative study* ●
- *Ecosystem services: an assessment and economic valuation of carbon sequestration in the forests of the Guanacaste Conservation Area in Costa Rica* ●
- *Implications on the Ecosystem Services of the Amboró National Park, under deforestation scenarios up to 2050, sharing experiences* ●
- *Impacts of change and climate variability (El Niño) in the mangrove of Tumbes (Peru)* ●
- *Ecosystem services and well-being: a literature review* ●
- *Conservation strategies based on cattle ranchers' perceptions of ecosystem services* ○



Professional Development Seminar: Transdisciplinary Approaches to Integrating Policy and Science for Sustainability

*Puerto Plata, Dominican Republic, 28 November – 2 December 2016 and
Calgary/Banff, Canada, 3-7 October 2017*

The complexity of global change problems and their impact on societies involve socioeconomic, biophysical, and technological dimensions. Addressing these issues properly requires effective communication and collaboration between scientists from various fields and those making and affected by sustainability policy.

The seminar will train professionals from the science and policy communities in transdisciplinary approaches to develop projects in global change-related areas, such as agriculture, land use, public health, sustainable development, biodiversity, energy, water, air, and climate. Seminar sessions will focus on real-world cases that involve transdisciplinary collaborations and will offer participants an opportunity to draw on their own experiences to develop proposals and collaborate across diverse interests, sectors, and institutional arrangements.

We strongly encourage applications from social and natural scientists, humanities scholars, and staff from NGO and community organizations, the private sector, and government agencies.



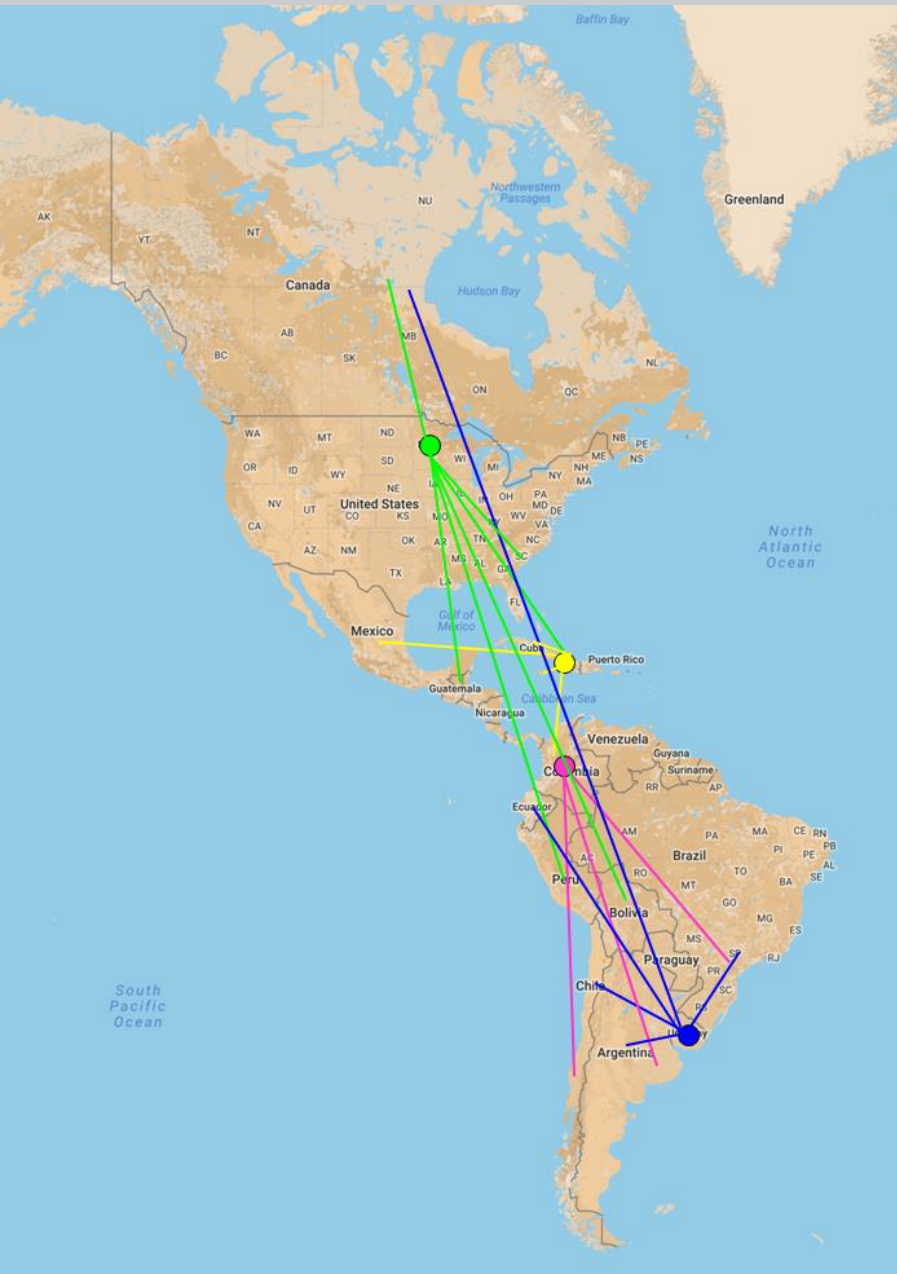
APPLICATIONS OPEN!

Deadline: August 15th, 2016

Full Announcement: www.iai.int/?p=12698

Information: IAI.dominicana2016@dir.iai.int

Professional Development Seminar on Transdisciplinary approaches to integrating policy & science for sustainability (Nov. 2016, Dominican Republic - Oct. 2017, Canada)



27 professionals, 27 institutions

15 countries, 4 projects:

- *Water governance in Latin America: A transdisciplinary assessment based on IPBES framework* ●
- *team has obtained partial funding from Chile*
- *Improving livelihoods and promoting resilience of cocoa producers in Latin America: The case of the Dominican Republic and Colombia* ●
- *Strategies for Coping and Adaptation in Caribbean and South America Coupled Human-Natural Systems* ●
- *Native grassland sustainability for biodiversity conservation and livelihood security: a socio-ecological analysis* ●

Teams will submit proposals to funding agencies directly

Webinar/Webcast

Future capacity building and research opportunities

IAI Website, Social Media

Subscribe to iai---list---subscribe@dir.iai.int

www.iai.int

Thank you



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