

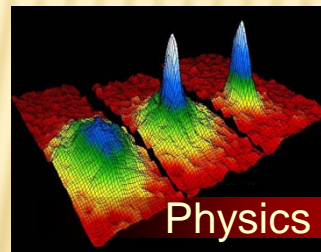
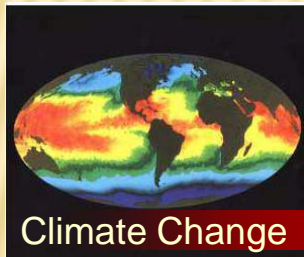
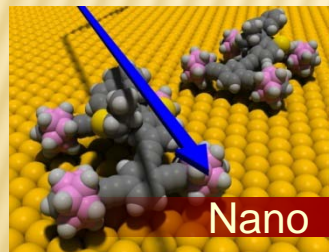
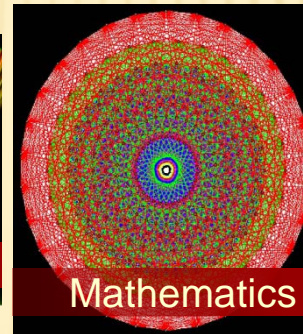
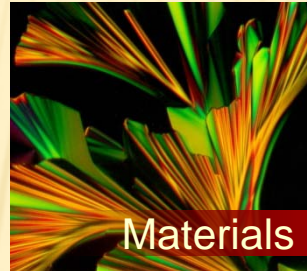
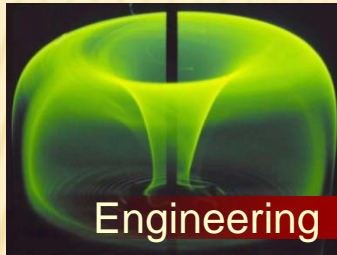
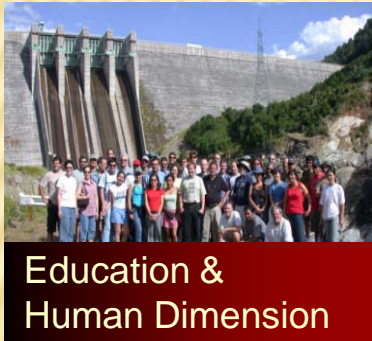
NATIONAL SCIENCE FOUNDATION

Dr. Mark Suskin

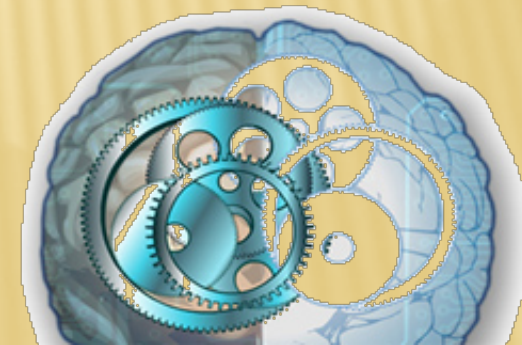
Executive Officer

**Office of
International
Science &
Engineering**

**National Science
Foundation**

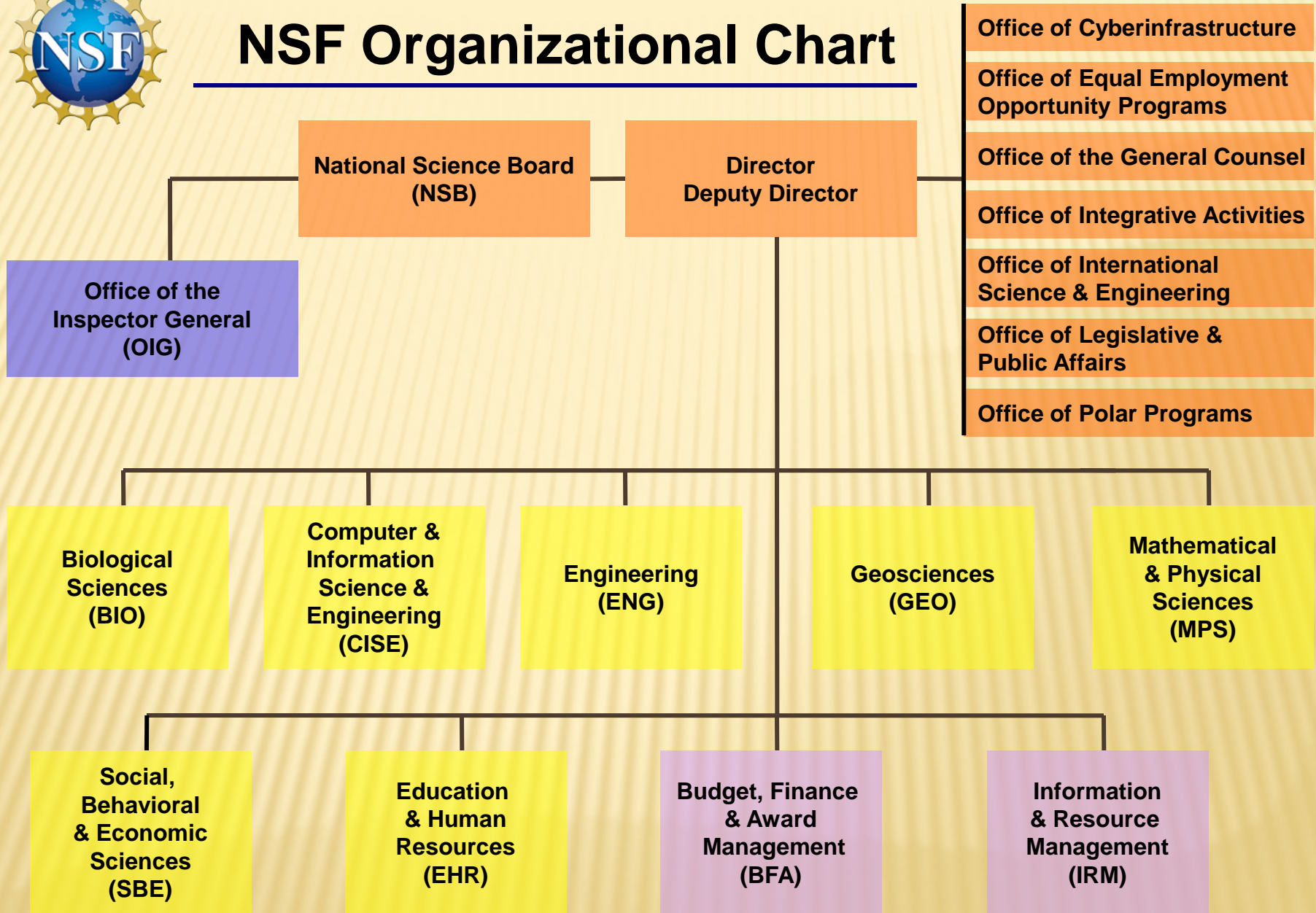


All this and so much more...





NSF Organizational Chart





International

<http://www.nsf.gov/OISE>

Office of International Science & Engineering (OISE)



- OISE Home
- About OISE
- Funding Opportunities
- Awards**
- News
- Events
- Discoveries
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Office of International Science & Engineering (OISE)

Important Notice

International science and engineering research and education activities are funded by all NSF directorates and offices.

Investigators seeking funding for international collaborative research may include an international component in **new proposals** submitted to their relevant NSF research program, or request [supplemental funding](#) to add international collaboration to projects supported by current NSF grants.

OISE works closely with other NSF directorates and offices to co-fund innovative, catalytic new awards and supplements that promote research excellence through international collaboration and develop the next generation of globally engaged U.S. scientists and engineers. OISE criteria for co-funding include:

- **True intellectual collaboration with a foreign partner** (The foreign partner's 2-page biographical sketch, communication outlining their role in the project, and a letter of endorsement from the foreign institution should be included.)
- **New** international collaborations, as opposed to well-established ones;
- Benefits to be realized from the **expertise and specialized skills, facilities, and/or resources** of the foreign collaborator; and
- Active research engagement of U.S. **students and junior researchers** at the foreign site.

Investigators should consult early in the application process with both the relevant disciplinary program manager and [OISE country program manager](#).

NSF Activities related to the Haiti, Chile, & Mexico Earthquakes

RAPID Awards (Rapid Response Research Grant)

- NSF funded 40+ proposals for rapid research on earthquake and tsunami processes, seismic networks, structural engineering, geotechnical systems performance, critical infrastructure systems effects, and emergency response following the three earthquakes

Workshops (2010)

Haiti Reconstruction Workshop, Miami

- Joint funding NSF, USGS, NASA
- Sponsored by USAID, SDR, Dept. of State

Chile Research Needs Workshop, NSF

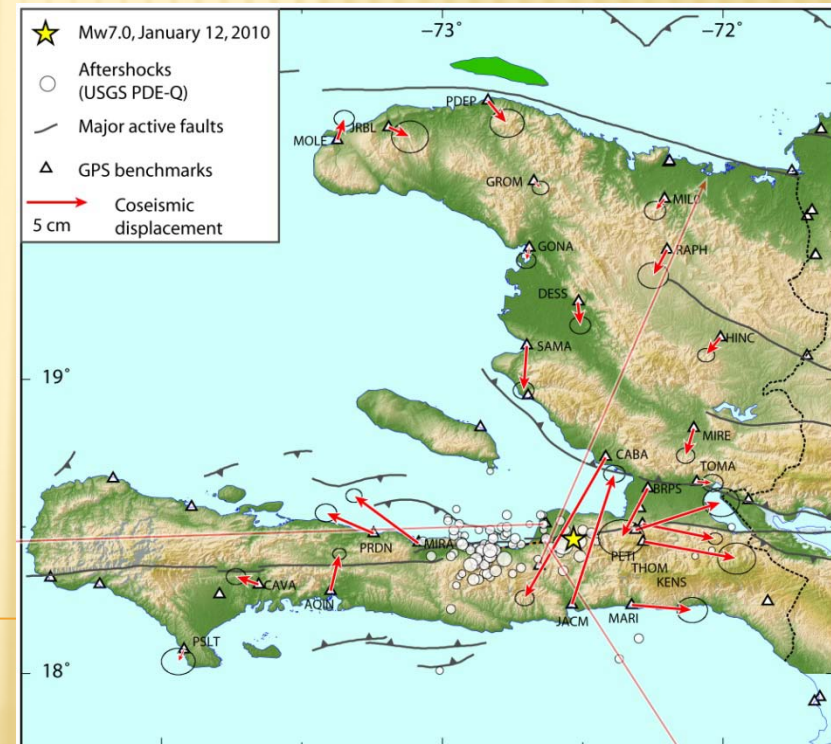
- Joint funding NSF-ENG, ONR, ITC-Americas, CONICYT

Haiti Research Needs Workshop, NSF

- Funding NSF-ENG

Regional Caribbean-Central America Workshop, Costa Rica (this workshop)

- Joint funding NSF-OISE, NSF-EAR, USAID

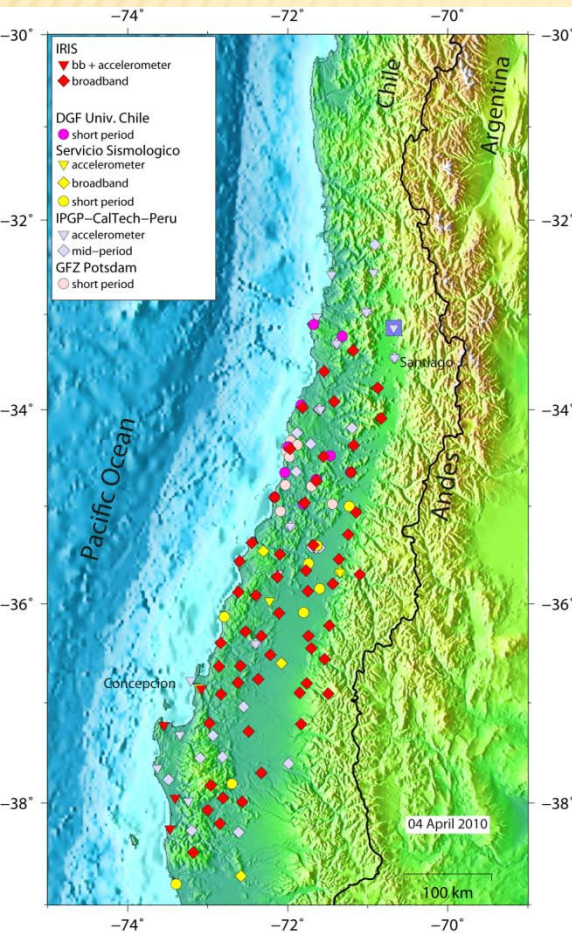


GPS Coseismic Offsets (courtesy E. Calais)

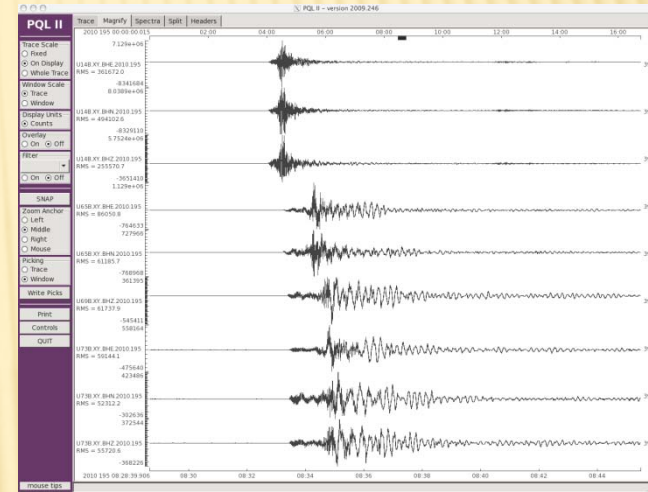
Checking GPS receiver on roof of Jacmel's police station. (courtesy E. Calais)



FEBRUARY 27, 2010 MW=8.8 CHILE EARTHQUAKE: NSF- RAPID SUPPORT FOR US PARTICIPATION IN AN INTERNATIONAL AFTERSHOCK DEPLOYMENT AND OPEN DATA EXCHANGE



- A major breakthrough in international collaboration and open data exchange.
- 58 portable broadband seismometers installed throughout the aftershock zone by US university scientists and IRIS –PASSCAL staff in collaboration with the University of Chile.
- Station locations and data exchange coordinated with teams from France, Germany and UK.
- All country teams have agreed to make their data open and freely available through the IRIS Data Management System and other data centers.
- This collaborative international approach can serve as a model for future aftershock deployments around the world.
- A recently funded NSF MRI award will support continued collaboration between IRIS and the University of Chile with the installation of 10 permanent geophysical observatories as part of a new 60 station Chilean National Seismic Network.

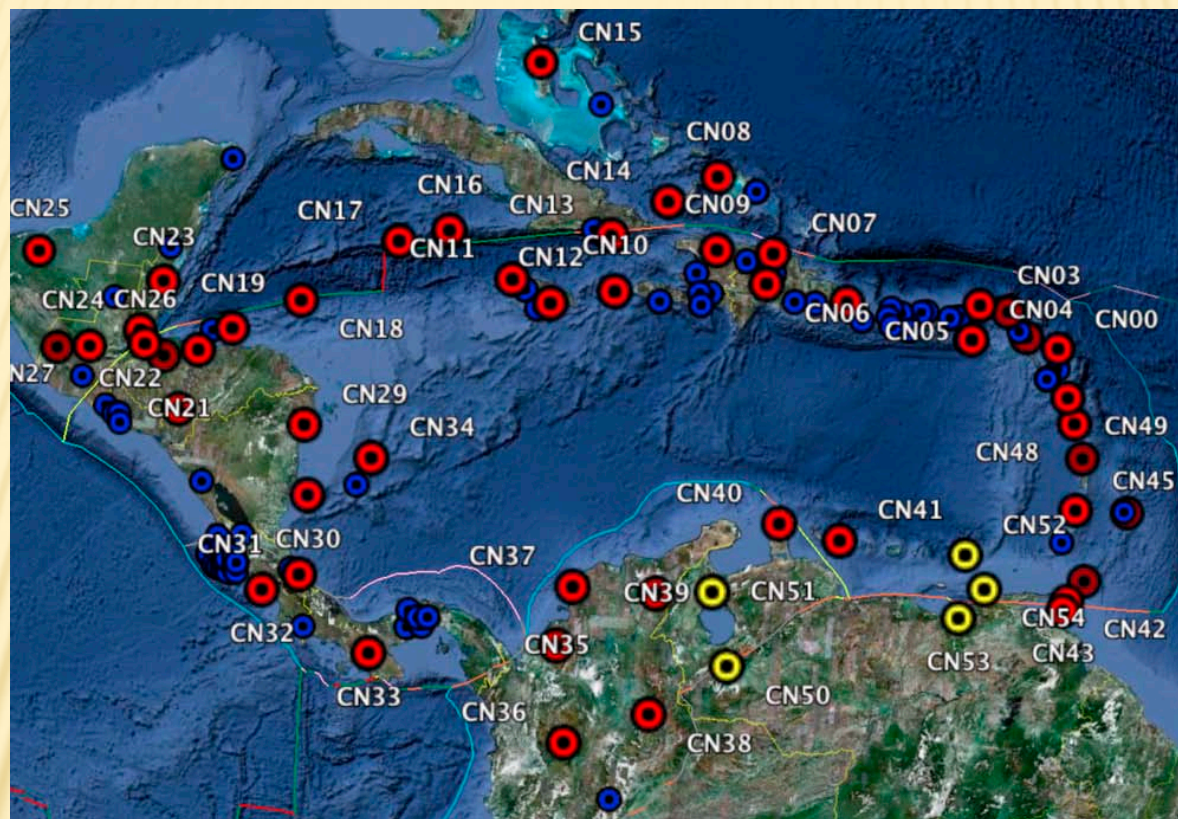


North-south, east-west and vertical components from the July 14, 2010 Mw=6.5 aftershock in Chile as recorded by three RAPID-funded CHAMP stations. Data from these stations were transmitted via cell modem in real-time to the University of Chile and IRIS.



US and Chilean teams are in the field now demobilizing 58 portable broadband seismic instruments from IRIS PASSCAL and EarthScope USArray along the 600 km rupture zone. Stations were installed in late March and service runs to collect data were conducted in May and July.

COCONet (Continuously Operating Caribbean GPS Observational Network)



- 50 new & 50 existing station continuous GPS & weather network for Caribbean multi-hazard science
- UNAVCO and UCAR lead institutions, with Purdue and U of Puerto Rico
- Multiple international partnerships between US and Caribbean scientists on research, network design and operations, and use of data for societal needs
- 5 year, \$6.7M project conceived in response to Haiti earthquake

Global Science Needs New Partnerships



NSF

- Mission: scientific research
- Primary client: US science community
- Funding to US institutions
- Awards based on merit review

MOU

USAID

- Mission: foreign assistance
- Primary clients: developing countries
- Funding to foreign partner via US institution
- Bureaus, regions, and missions need buy-in

Benefits of Leveraged Funding



NSF Benefits:

- **US science is more effective with fully engaged and funded international partners**
- **Foreign scientists possess local and regional knowledge**
- **Research questions span borders and are global in nature**

USAID Benefits:

- **Scientist-to-scientist relationships build capacity**
- **Development needs and perspective included in research effort**
- **Institutional linkages endure over time**
- **Scientists communicate when politicians don't or won't**

NSF & USAID: Partners in Science for Development



- NSF and USAID are leveraging funding on a case-by-case basis
- Joint Activities in Latin America
 - Peru Workshop
 - Costa Rica Workshop
 - Climate 1-Stop & SERVIR
- NSF and USAID are developing a mechanism to facilitate joint funding of awards



ADAPTING TO A WORLD WITHOUT GLACIERS: realities, challenges and actions



Lima and Huaraz- July 7 to 15, 2009



Adapting to a World without Glaciers

Questions:

- What do you do when the water cycle changes?
- How do we begin to adapt to such a different future?

Outcomes:

- Research and action agendas for water, agricultural, and biodiversity sectors



Pastoruri Glacier, July, 2009

Activities Generated from Peru Workshop

NSF - funding 4 U.S. institutions over 3 years to investigate:



USAID
FROM THE AMERICAN PEOPLE

- impact of glacial recession in tropical highlands on downstream watersheds and communities
- resilience of livelihood systems
- critical information for adaptive strategies and responses to global climate change

USAID - funding The Mountain Institute over 3 years to develop:



- Vulnerability assessments
- Stakeholder workshops
- Information and Outreach

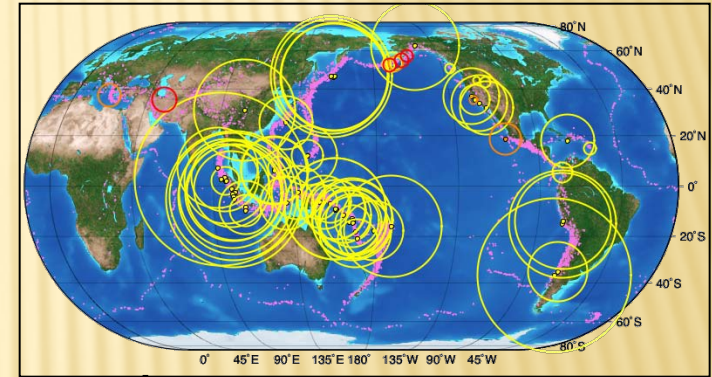
CONCYTEC - Developing research agenda/strategy



Geophysical Hazards and Plate Boundary Processes in Central America, Mexico and the Caribbean

A Workshop to Build Seismological
Collaboration and Capacity

- Geophysical Hazards and Plate Boundary Processes
- Costa Rica – October 24-28, 2010
- Co-Funded by NSF and USAID
- Workshop focus:
 - Scientific issues that derive from the unique tectonic environment of the region
 - Strengthen the regional infrastructure and science community for seismological research
 - Generate products with immediate regional societal benefits



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- climate data

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Community

Featured Stories



Report: Climate science panel needs change at top - WASHINGTON - Scientists reviewing the acclaimed but beleaguered international climate change panel called Monday for major changes in the way it's run, but stopped short of calling for the ouster of the current leader. The independent review of the UN... [Read More]

2 of 5

Featured Media

From UNDP:



Ten years ago we were down there.

TAKAARE TEBUAKA
President of Kiribati

Kiribati - A Climate Change Reality

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- 9/2/2010 [Preservation in Chennai](#) added by [Prasanth](#)
- 9/2/2010 [Prasanth](#) has joined
- 8/31/2010 [USEPA - State and Local Climate and Energy Program](#) added by [NateK \(IAGT\)](#)
- 8/31/2010 [Climate Change Mitigation and Transport in Developing Nations](#) added by [NateK \(IAGT\)](#)
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- 8/30/2010 [Climate Change Mitigation - What Do We Do?](#) added by [NateK \(IAGT\)](#)
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News and Bookmarks

News Feeds Bookmarks Latest Q/A

3 feeds being polled:

Yahoo News: Climate Change (Yahoo Inc.)

- » New website to track climate aid, key to UN talks (Reuters)
- » EPA to issue more rules in climate fight (Reuters)
- » Nations meet on climate cash, U.N. sees long haul (Reuters)
- » Disasters show 'screaming' need for action - climate chief (AFP)
- » UN: Climate funds shouldn't divert poverty aid (AP)
- » Climate change puts China harvests at risk (AFP)
- » India backs embattled IPCC chief Pachauri (AFP)
- » In Pennsylvania, signs that 'Republican revolution' could repeat itself (The Christian Science Monitor)

ClimateChangeNews.org

- » Ethics and the Greenhouse
- » Ten Nations at 'Extreme Risk' Because of Water Shortages, Report Says
- » 'Resilient growth' for renewables
- » UK Guardian slams Morano for cyber-bullying and for urging violence against climate scientists
- » The challenge of China's green technology policy
- » Climate scientists: 'The urgent need to act cannot be overstated.' - "Climate change caused by humans is already affecting our lives and livelihoods - with extreme storms, unusual floods and droughts, intense heat waves, rising seas and many changes in biological systems - as climate scientists have projected."
- » IPCC Fumbles Media Relations Strategy, Must Review Basic Principles of Public Relations
- » American Petroleum Institute's Revisionist History on Climate Change Position

Pew Center on Global Climate Change

- » Climate Bill: Where to from Here?
- » New Paper Makes Case for Cap and Trade
- » U.S. Agriculture & Climate Change Legislation: Market Myths & Opportunities
- » Bayer Joins Pew Center's Business Environmental Leadership Council
- » Pew Center Newsletter: Getting a Senate Energy-

Pan-American Advanced Studies Institute - PASI



- PANAMA – Integration of Research on Climate Change and Hazards in the Americas: July 2010
- ARGENTINA – Dynamics & Chemistry of the Upper Atmosphere: Oct 2010
- COSTA RICA - Volcanic Hazards and Remote Sensing in Pacific Latin America: Jan 2011
- ECUADOR - New Frontiers in Seismological Research: Sustainable Networks, Earthquake Source Parameters, and Earth Structure: July 2011

