

Tupper 4pm seminar

During the upcoming week there will be Carnivals in Panama. Tuesday is a holiday for STRI.

Arrivals

Louis Santiago, University of California, Riverside, to study nutrient limitation of physiological processes in lowland tropical forest trees, on BCI.

Saskia Rehse, University of Ulm, Germany, to study the echolocation and foraging behavior of Neotropical bats, on BCI.

Joachim Beyschlag, Carl von Ossietzky Universität Oldenburg, to study the ecology of tropical epiphytes, on BCI.

Eben Kirksey, University of Pittsburgh, to study the tropical forest as a boundary object, in Gamboa.

Inga Geipel, University of Ulm, to study the echolocation and foraging behavior of the Neotropical bats *Micronycteris microtis* and *Macrophyllum macrophyllum* and its significance for biomimetic applications, on BCI.

Katia Silvera, University of Nevada, to study crassulacean acid metabolism in tropical plants.

Kevin Tidgewell, University of California, San Diego, to work with the ICBG, in training, conservation and drug discovery using Panamanian microorganisms, in Bocas del Toro.

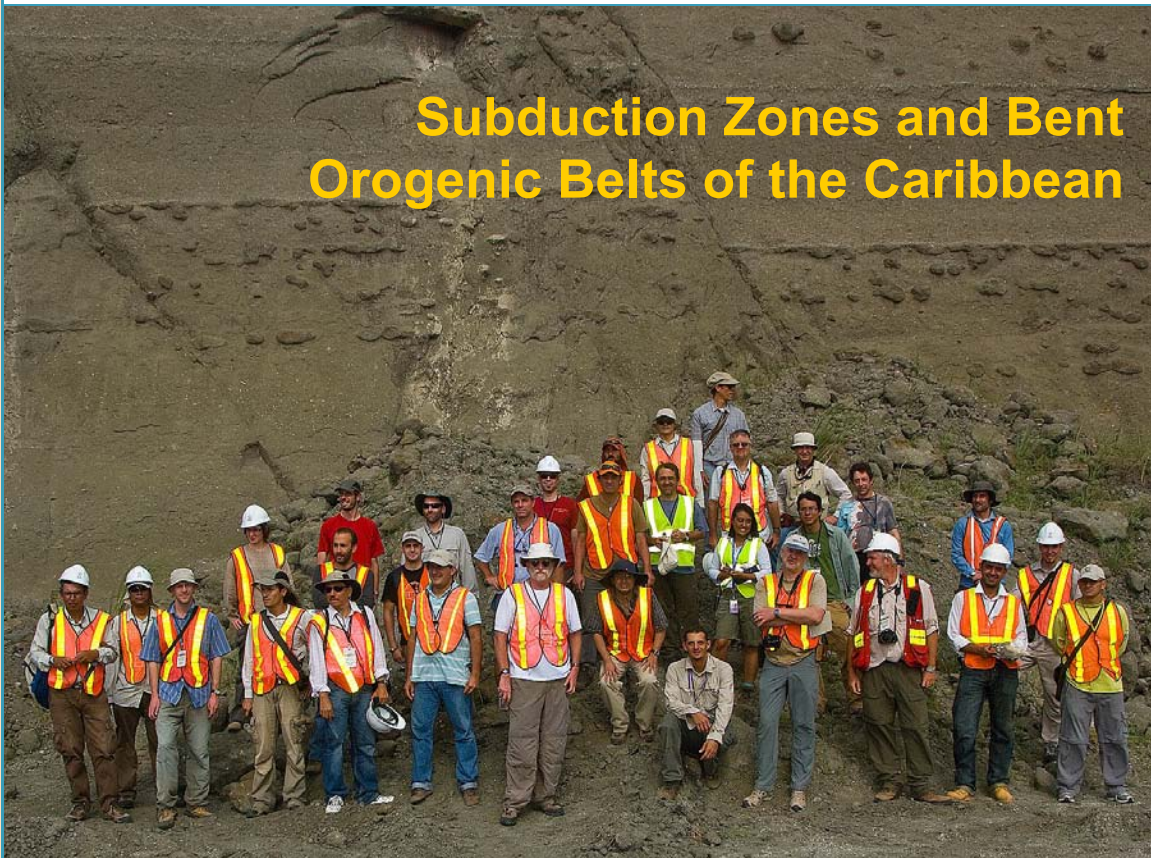
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Smithsonian Tropical Research Institute, Panamá

www.stri.org

February 12, 2010



Subduction Zones and Bent Orogenic Belts of the Caribbean

During the past year, a wealth of new geological data was collected in Panama, including new radiometric ages, paleomagnetic investigations, geochemical analyses and field mapping. The workshop “Subduction Zones and Bent Orogenic Belts of the Caribbean” held at STRI from February 8-11 and field trips to East Panama and the Canal basin, placed this information in a regional context. The workshop received support from SENACYT.

The meeting provided an opportunity to discuss the

evolution of the Isthmus and its place in the subduction zones of the Caribbean and the development of oroclinal belts. It was convened by STRI’s Camilo Montes and Agustín Cardona from the Center for Tropical Paleoecology and Archaeology, Antonio García-Casco from the University of Granada and Stephen T. Johnston, University of Victoria, Canada.

Thirty-four specialists from the US, France, Switzerland, Australia, UK, Panama, Portugal, Spain, Colombia,

Costa Rica and Canada attended the event.

The official group photo was taken at the Gatún Formation, 9-10 million years old, on the Caribbean side of the Isthmus.

Durante el año pasado, una gran cantidad de datos nuevos se colectaron en Panamá, incluyendo nuevas edades radiométricas, investigaciones paleomagnéticas, análisis geoquímicos y mapeo de campo. El taller “Subduction Zones and Bent Orogenic Belts of the Caribbean” que se llevó a cabo

More arrivals

Marcy Balunas, University of California, San Diego, to study tropical disease drug discovery from marine and plant sources in Panama (as part of the existing ICBG project).

Riccardo Papa, University of Puerto Rico-Rio Piedras, to study the evolution of mimicry in *Heliconius*, in Gamboa.

Sergio Cordoba and Maria A. Echeverry-Galvis to participate as professors in the 2010 Princeton Field Course.

Eric Lewallen, to participate as a professor in the 2010 University of Toronto at Scarborough Field Course on Marine Ecology and Evolution, in Bocas del Toro.

Adam Summers, University of Washington, to participate as a professor in the 2010 University of Toronto at Scarborough Field Course on Marine Ecology and Evolution, in Bocas del Toro.

Kristen Brochu, University of Toronto, to participate in the 2010 University of Toronto at Scarborough Field Course on Marine Ecology and Evolution, in Bocas del Toro.

Departures

David Roubik, to Nairobi, to participate in the proposal writing meeting that will be held at the ICIPE - African Insect Science for Forest & Health.

STRI in the news

“Wild sloth killed by small spectacled owl in Panama” by Jody Bourton. 2010. *BBC Earth News*: February 4, at http://news.bbc.co.uk/earth/hi/earth_news/newsid_848600/8486128.stm

en STRI del 8 al 11 de febrero y los viajes al este de Panamá y a la Cuenca del Canal de Panamá, pusieron esta información en un contexto regional. El taller recibió apoyo de SENACYT.

El congreso ofreció la oportunidad de discutir la evolución del Istmo y su lugar en las zonas de subducción del

SNI names Ibáñez as distinguished researcher

Panamá's Sistema Nacional de Investigación, SNI, [National Research System] has named Roberto Ibáñez, STRI's research associate and director of the Amphibian Rescue and Conservation Project (ARC), as a member of SNI in the category of distinguished researcher.

The note sent to Ibáñez from Ruben Berrocal, SNI acting technical secretary and national secretary of Science, Technology and Innovation (SENACYT), congratulates and highlights the contributions made by Ibáñez during his

Caribe y el desarrollo de los cordones oroclinales. La reunión fue una iniciativa de Camilo Montes y Agustín Cardona del Centro de Paleocología y Arqueología de STRI, Antonio García-Casco de la Universidad de Granada y Stephen T. Johnston, de la Universidad de Victoria, en Canadá.

Treinta y cuatro especialistas de

career to increasing scientific knowledge on the Isthmus of Panama.

El Sistema Nacional de Investigación de Panamá (SNI) seleccionó a Roberto Ibáñez, investigador asociado de STRI y director del Proyecto de Conservación y Rescate de Anfibios (ARC), como miembro del SNI en calidad de Investigador Distinguido.

En la nota enviada a Ibáñez por Rubén Berrocal, secretario técnico encargado de SNI y dirigente de la Secretaría Nacional de Ciencia, Tecnología

EU, el Reino Unido, Francia, Suiza, Australia, Panamá, Portugal, España, Costa Rica, Colombia y Canadá asistieron a la reunión.

La foto oficial del grupo se tomó en la Formación Gatún, que tiene entre 9 y 10 millones de años, en la costa caribe del Istmo de Panamá.



e Innovación (SENACYT), felicita a Ibáñez y destaca sus contribuciones científicas durante su carrera para el enriquecimiento de las ciencias en el Istmo de Panamá.

Centennial Committee seeks documentation



Mrs. Adela Gómez

The STRI Centennial Resources Group is looking for photographs, slides and videos that document STRI's past. If you would like to donate something, please bring it to the Office of Bioinformatics, fifth floor at the Tupper Laboratories, where it will be digitized and then returned to you. Please provide as much

information about each item (date, location, occasion and/or names of people) as you can. For more information, please contact Steven Paton, Lina Gonzalez or Gloria Jované.

El Grupo de STRI de Recursos para el Centenario de STRI busca fotografías, diapositivas y videos que documenten el pasado de STRI. Si usted quiere contribuir con alguno de estos recursos, favor de llevarlo a la Oficina de

BioInformática, 5to piso de los Laboratorios del Tupper para digitalizarlos y devolverlos. Se agradecerá la mayor cantidad de información sobre cada recurso (fecha, localización, ocasión y/o personas). Para mayor información favor ponerse en contacto con Steve Paton, Lina González o Gloria Jované.



New publications

Balunas, Marcy, Linington, Roger G., Tidgewell, Kevin, Fenner, Amanda M., Urena, Luis-David, Togna, Gina Della, Kyle, Dennis E., and Gerwick, William H. 2010.

"Dragonamide E, a modified linear lipopeptide from *Lynghya majuscula* with antileishmanial activity." *Journal of Natural Products* 73(1): 60-66.

Baugh, Alexander T. and Ryan, Michael J. 2010. "Mate choice in response to dynamic presentation of male advertisement signals in tungara frogs." *Animal Behaviour* 79(1): 145-152.

Boyle, Sarah Ann and Smith, Andrew T. 2010. "Behavioral modifications in northern bearded saki monkeys (*Chiropotes satanas chiropotes*) in forest fragments of central Amazonia." *Primates* 51(1): 43-51.

Caldwell, Michael S., McDaniel, J. Gregory, and Warkentin, Karen Michelle. 2010. "Is it safe? Red-eyed treefrog embryos assessing predation risk use two features of rain vibrations to avoid false alarms." *Animal Behaviour* 79(2): 255-260.

Cardona, Agustin, Chew, David M., Valencia, V.A., Bayona, German, Miskovic, Aleksandar, and Ibañez-Mejía, M. 2010. "Grenvillian remnants in the Northern Andes: Rodinian and Phanerozoic paleogeographic perspectives." *Journal of South American Earth Sciences* 29(1): 92-104.

Dechmann, Dina K.N., Kranstauber, Bart, Gibbs, David, and Wikelski, Martin C. 2010. "Group hunting—A reason for sociality in molossid bats?" *PLoS ONE* 5(2): e9012.

Women's Committee visits STRI

Members of the Smithsonian Institution Women's Committee traveled to Panama to visit STRI facilities, get acquainted with new and on-going projects, especially those supported by their Committee.



The staff of Punta Culebra Nature Center and the Director's Office presented the group with a commemorative plaque inscribed with the words: "To the Smithsonian Women's Committee in appreciation for their invaluable support to Punta Culebra Nature Center and to the thousands of students who have participated in our educational program."

In the photo, Joseph Salterio, president of Fundación



Smithsonian de Panamá, STRI director Eldredge Bermingham and Lidia de Valencia, present the plaque to the group.

Miembros del Comité de Mujeres del Smithsonian viajaron a Panamá para visitar las instalaciones de STRI, familiarizarse con proyectos, nuevos y en curso, y especialmente aquellos a los que ofrecen apoyo financiero.

El personal del Centro Natural Punta Culebra y la Oficina del Director hizo entrega de una placa al grupo con el mensaje:

"Para el Comité de Mujeres del Smithsonian, como aprecio por su invaluable apoyo al Centro Natural Punta Culebra y a los miles de estudiantes que han participado en nuestro programa educativo."

En la foto, Joseph Salterio, presidente de la Fundación Smithsonian, el director de STRI Eldredge Bermingham y Lidia de Valencia, hacen entrega de la placa al grupo.

More publications

Fonseca, Ana C., Guzman, Hector M., Cortes, Jorge, and Soto, Carlomagno. 2010. "Marine habitats map of "Isla del Caño", Costa Rica, comparing Quickbird and Hymap images classification results." *Revista de Biología Tropical* 53(1): 373-338.

Guerrieri, Emilio, Huigens, Martinus E., Estrada, Catalina, Woelke, Jozef B., de Rijk, Marjolein, Fatouros, Nina E., Aiello, Annette, and Noyes, John S. 2010. "*Ooencyrtus marcelloi* sp. nov. (Hymenoptera: Encyrtidae), an egg parasitoid of Heliconiini (Lepidoptera: Nymphalidae: Heliconiinae) on passion vines (Malpighiales: Passifloraceae) in Central America." *Journal of Natural History* 44(1/2): 81-87.

Laurance, Susan G.W., Laurance, William F., Andrade, Ana C.S., Fearnside, Phillip M., Harms, Kyle Edward, Vicentini, Alberto, and Luizao, Regina C.C. 2010. "Influence of soils and topography on Amazonian tree diversity: a landscape-scale study." *Journal of Vegetation Science* 21(1): 96-106.

Oelmann, Yvonne, Potvin, Catherine, Mark, Timo, Werther, Lisa, Tapernon, Simone, and Wilcke, Wolfgang. 2010. "Tree mixture effects on aboveground nutrient pools of trees in an experimental plantation in Panama." *Plant and Soil* 326(1-2): 199-212.

Sumner, Seirian, Kelstrup, Hans, and Fanelli, Daniele. 2010. "Reproductive constraints, direct fitness and indirect fitness benefits explain helping behaviour in the primitively eusocial wasp, *Polistes canadensis*." *Proceedings of the Royal Society B: Biological Sciences Online*.

Story:
Stanley Heckadon-Moreno
Edited by M Alvarado
& ML Calderon
Photo: MA Guerra

Key to the mangroves in Galeta

Smithsonian Tropical Research Institute, February 12, 2010

On Tuesday February 9, a group of Princeton students led Yves Bassett visited Galeta Point Marine Laboratory, becoming acquainted with the ongoing research on coastal and marine habitats— coral reefs, seagrass beds and mangroves— as well as with the dynamic environmental education and public outreach programs at the Station.

Galeta nature guide Marianne Akkars (to the left, with hat), led the students into the mangrove forests to teach them tips on how to identify the four local species of mangroves, that inhabit this section of the Caribbean.

After visiting the destruction of mangroves by development projects, students held a workshop on the future of the mangroves in and around the city of Colón.

El martes 9 de febrero, un grupo de estudiantes de Princeton liderados por Yves Bassett, visitó el Laboratorio Marino de Punta Galeta, para familiarizarse con los

proyectos que se llevan a cabo en sus hábitats marinos y costeros —arrecifes coralinos, lechos de paja marina y manglares— así como la dinámica de los programas de extensión y de educación ambiental que se llevan a cabo en la Estación.

Marianne Akkars, guía naturalista en Galeta (a la izquierda con sombrero) acompañó a los estudiantes a los bosques de manglares para enseñarles las claves para identificar las cuatro especies de manglar local, que habitan esta sección del Caribe.

Luego de visitar la destrucción de los manglares por los proyectos de desarrollo, los estudiantes llevaron a cabo un taller sobre el futuro de los manglares en y alrededor de la ciudad de Colón.



