

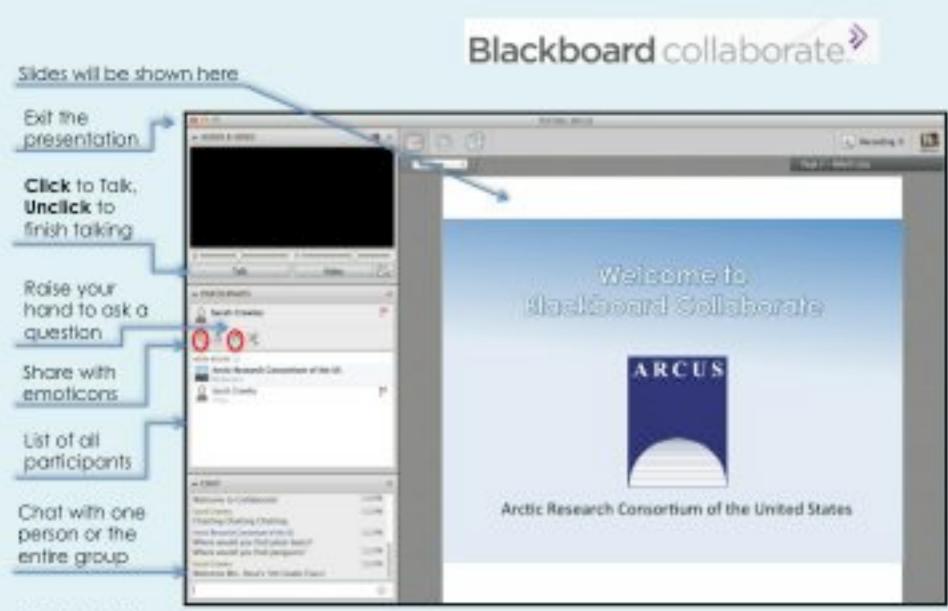
Welcome to PolarConnect

With Elizabeth Eubanks and the expedition team in Costa Rica!

Wednesday 17 October 2012

9:30a.m. AKDT (10:30am PDT, 11:30 am MDT, 12:30 pm CDT, 1:30 pm EDT)

www.polartrec.com



Please Note:

- Participants using the telephone can mute/unmute by pressing *6 on the phone.
- Today's event will be recorded and archived.



Participant Introductions

Please type in the chat box:

- √Name
- ✓ Affiliation (School, Institution, Etc.)
- ✓ The number of students and adults participating with you in the same location

What is PolarTREC?

PolarTREC is a professional development experience in which K-12 teachers are paired with researchers for 2-6 week research experiences in the polar regions.

From 2010-2013, nearly 50 teachers from around the United States will join scientists in the Arctic and Antarctica to learn about science, the polar regions, and to share what they have learned with their students and communities.

Connecting the Poles to Costa Rica



Elizabeth Eubanks St. Mark Catholic School Boynton Beach Florida Dr. Steve Oberbauer Florida International University Miami Florida

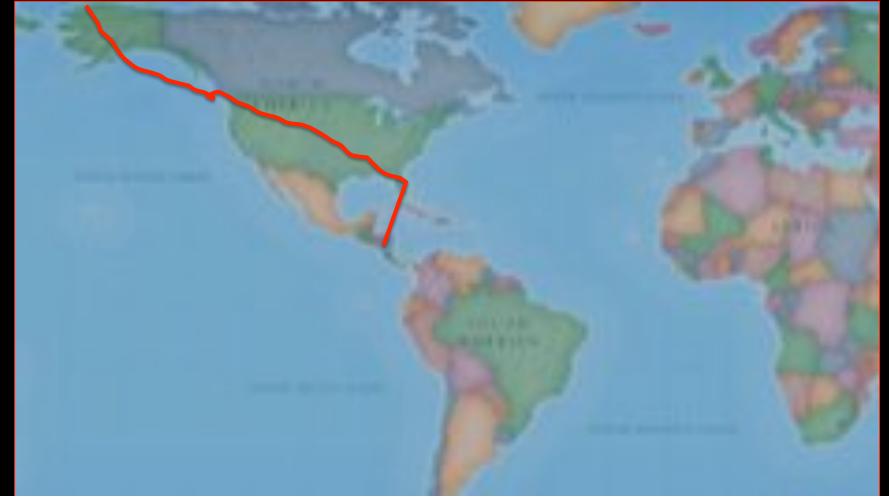
PolarTREC alumni 2008







From Barrow, Alaska to (stop in Florida) to Sarapiqui, Costa Rica



I am staying at place called La Selva Biological Station in Sarapiqui, Costa Rica

LA SELVA

• The field station is run by the **Organization for Tropical Studies**



I have spent time with many researchers of La Selva









And I have been introduced to many

new species



Green honey creeeper Golden hooded Tanager Summer tanager **Black Vultures** Machaca fish Black headed - tody flycatcher Black cowled oriole Rufous tailed Hummingbireaughing falcon Bird eating snake Two toed sloth Litter toad Army ants Broad billed motmot Crested guan Great curassow Squirrel cuckoo Collard Pecca Ho Pig nosed lizard? **Rufous mourner** Crocodile Olive parrot

Spiny orb weaver Crablike spiny orb weaver Chestnut mandibleToucan Pale billed woodpecker Grassqwit **Ground seedeaters** Ani blue black grassqwit Chestnut billed toucan wood creeper White crowned pa vellow warbler Chestnut w ead son thrush Blackcapped tityra Black cheeked woodpecker Male snow cotinga Resident peewee Bronzed cowbird Olive footed parrots Crimson fronted parrot

Variagated squirrel **Tropical kingbird** Yellow warbler Melodious black bird call White tailed kite- flight Variable seed ea Blue black grass Yellow face oded tanager

bill flycatcher red legged honey creeper Straked headed wood creeper Northern rough winged swallow Broad Wong hawk Southern rough winged swallow Swainsons Hawk Buffed throated saltatater Clay coated robin Guapote or cicclid Dacuis **Crested Oropendola** House wren call Golden orb weaver Scarlet rumpled Glossophaga bat tanager Argyrodes- thieves

Possible #1 Hawkmoth?? CRAZY MOST BIZARRE CREATURE...



Front side of critter Looks like poop

Back side of critter Looks like a mean snake



Dr. Steve Oberbauer Florida International Unvervisty



La Selva Biological Station run by the Organization for Tropical Studies



La Selva Biological Station

La Selva Biological Station (Estacion Biologica La Selva) was originally created for scientific purposes in 1954. Since then it has been converted into a leading research center for Costa Rican ecology and has been opened to the public. Providing some of the most immaculate primary tropical rainforest available, the well-kept trail system extends over 31 miles (50 km) and provides visitors the opportunity of exploring La Selva with a knowledgeable guide.

Dr. Oberbauer is the chair of the advisory board for OTS



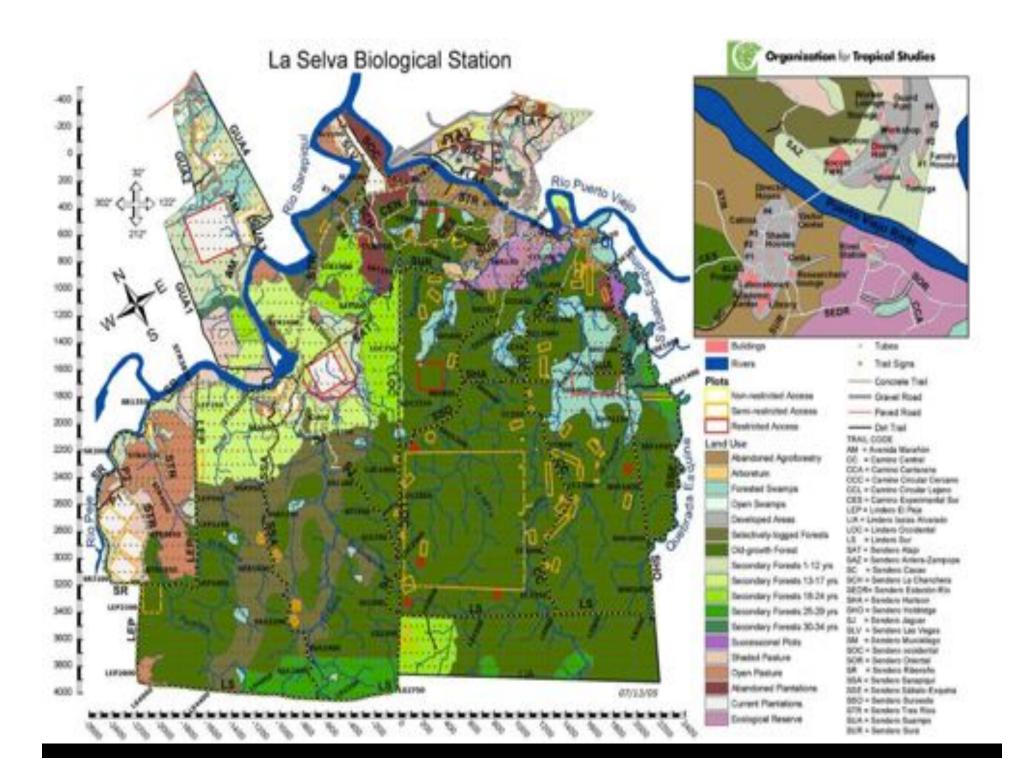


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Home + OTS Hatory

Articles on OTS History, Historical Documents, and the Obituaries of OTS Founders and other Personages Involved with OTS

- . 1957 May Report on proposed center for tropical studies, issued by the University of Michigan. Letter by Dr. Theodore H. Hubbell, Chairman.
- 2. 1964 December 18 Letter from T. Hubbel, University of Michigan to Botany Department, Duke University on Importance of OTS.
- 3. 1967 Article on The Organization for Tropical Studies by Theodore Hubbell, University of Michigan. BioScience, Vol. 7, No. 4, pp 236-240.
- 1967 January 17 Letter from James Bethel to Donald Stone on state of OTS consortium w attachment.
 1967 November 24 Report to Provost, Duke University, from Donald Stone on OTS November 11-12, 1967 Meeting
- 6. 1970 May 21 packet to OTS Executive Committee from Donald Stone on Duke University accrediting OTS graduate courses.
- . 1973, March 21 Letter from Donald Stone requesting scholarship support from Duke due to loss of NSF funding for grad courses
- 1. 1988 Article on The Organization for Tropical Studies, A Success Story in Graduate Training and Research, by Donald Stone, Trop. Forestry.









Interbasin Flow

DICs DOCs CO2



Weir Project

The Towers View from Carbono Tower





Central Tower/ Oberbauer Tow

On tower #3

Most important "Dr. O" fell in LOVE here at La Selva...



JUNGLE LOVE

His wife calls it

She, "MO" is also a scientist.
Mo studies reptiles
she even wrote a book!

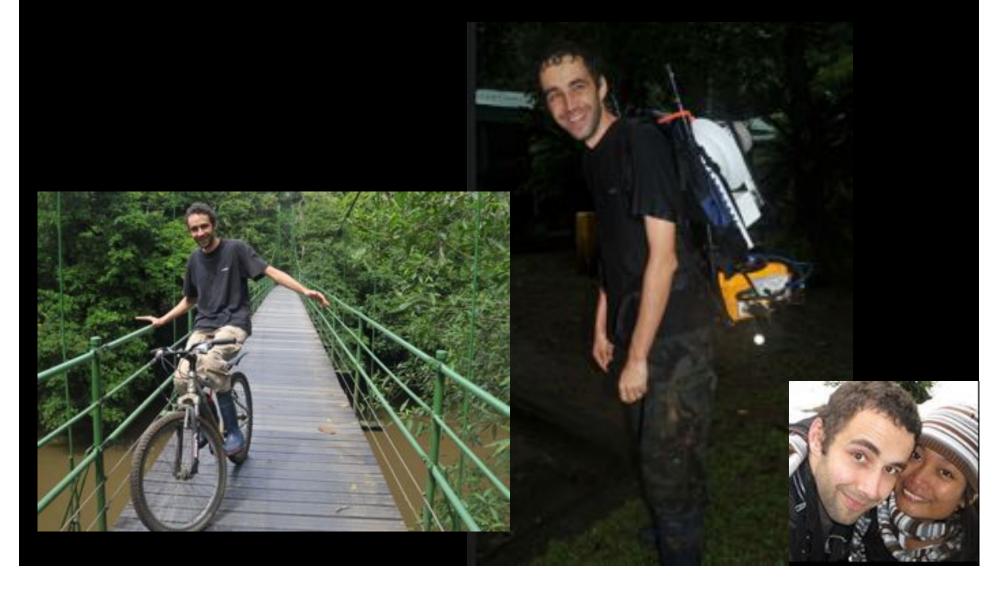
AMPHIBIANS

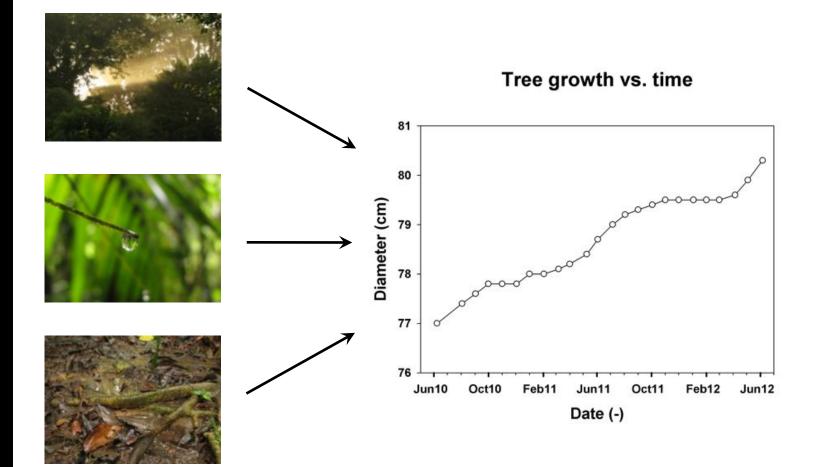
OF LA SELVA, COSTA RICA, AND THE CARIBBEAN SLOPE A COMPREMENSIVE GUIDE

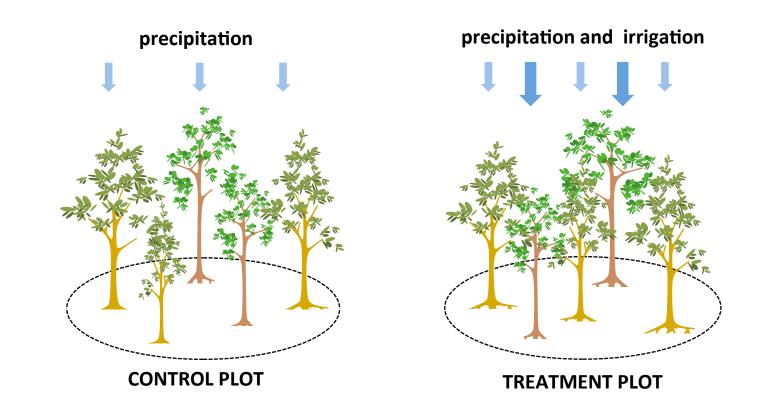


CRAIG GUYER AND MAUREEN A. DONNELLY

Meet Dr. Diego Dierick Florida International University







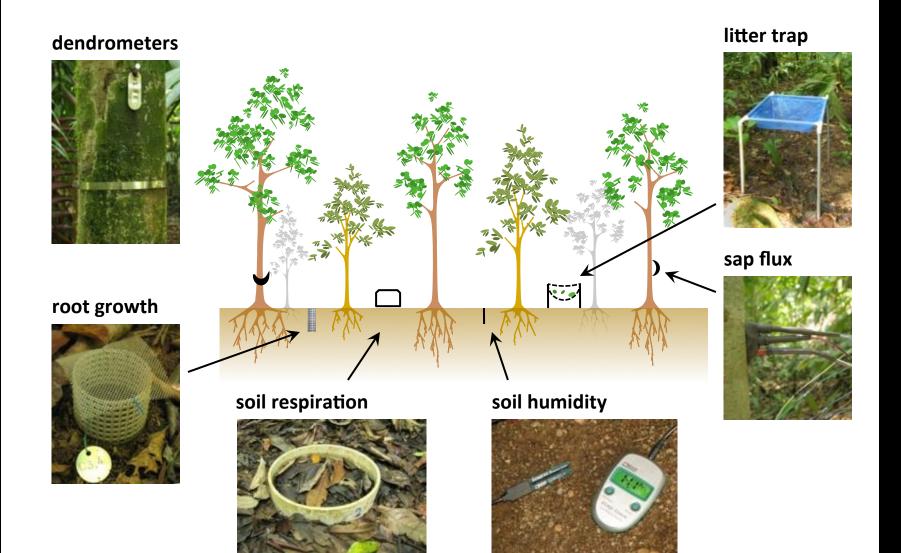
- 3 sites in primary forest with control and treatment plot
- circular plots of 900 m² or about 25 large trees (DBH > 10cm)
- irrigation from Jan-Apr in treatment plots

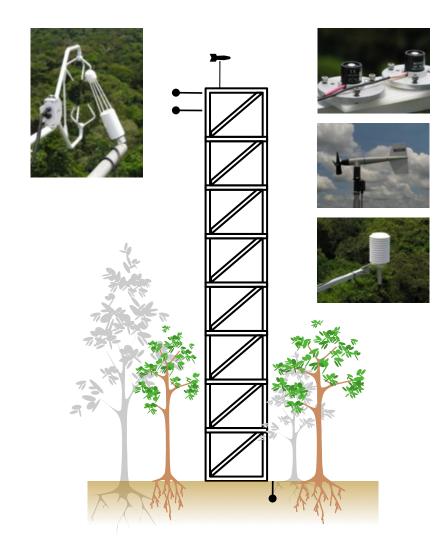






- irrigation at 1 or 2 day intervals during the dry season
- 10 mm day⁻¹ or about 9000 litres per plot day⁻¹





- canopy towers give detailed meteorological data
 - light
 - temperature
 - humidity
 - wind
 - etc...
- have a system to measure CO₂ uptake by the forest

MEGA SPECIAL Thanks to PolarTREC Dr.



and Sarah ©



Dr. Steve Oberbauer



and all the folks at La Selva/OTS

Questions

During the Presentation:

Type your question in the text chat box

At the End of the Presentation:

- Raise your hand with the "hand button".
- PolarTREC staff will call on you.
- Speak loud and clear and directly into the phone to ask your question.

Click on the Talk button to speak. Unclick when you are done.



Teachers: Join PolarTREC!

www.polartrec.com/about/join

Every teacher can participate in different ways:

- Following Expeditions
- Participate in PolarConnect Events
- Join the Polar Education Email List
- Take Online Professional Development Courses
- Become a PolarTREC Teacher!

Upcoming Events

Watch for and register for upcoming events at **www.polartrec.com!**

www.polartrec.com

Thank You!

An archive of the event will be available shortly. http://www.polartrec.com/polar-connect/archive



www.polartrec.com