It’s Better in Bermuda!

Tri-State Best Practices Conference
March 9, 2013

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What we will discuss

- How to get started with Short-Term Study Abroad, and have fun doing it!
Step-By-Step

• How to do it
Step 1

• Have a course or courses in mind
Our Course: Statistics

- Project-oriented
- Data Gathering
- Statistical Analysis
- Offered Online
Step 2

- Select a destination
Our Destination: Caribbean
Step 3

- Discuss with International Education Center
Step 4

- Discuss with your Department
- Get Colleagues involved
Step 5

- Join a Study Abroad trip as a faculty observer
Step 6 - Make Site Visits

- Word of Mouth

- Internet Search: “Field Stations in Caribbean” or “Research Stations in Europe”
Step 7

- Finalize destination
Step 8 – Recruit Students

- Hold Information Sessions
- Present at Conferences
- Create a Webpage
Step 9

- Finalize Itinerary
Step 10

- Pre-departure Meeting
Step 11

- Go! (for 1 – 2 weeks)
Step 12

- Return and finish course Online
Faculty Observer to Costa Rica

- Solar Energy course
- Rancho Mastatal – Sustainable Community in Countryside
Faculty Observers Costa Rica Study Abroad January 2012
Rancho Mastatal Owners – Tim and Robin
Showers and Laundry
Composting Toilet
Costa Rica Study Abroad Students
Fer-de-Lance viper
Conclusion from the trip

- We can do this!
- Rancho Mastatal is possible destination
Site Visit to BFREE

- Belize Foundation for Research and Environmental Education (BFREE) and Tobacco Caye Marine Station, arranged by BFREE

By word of Mouth from Costa Rica participant
6 mile Road to BFREE
(Photo Paul Pickhardt)
BFREE Leaders – Jacob Marlin and Judy Dourson
BFREE - Eating/Study Quarters
Inside Thatched Hut
BFREE - Student Dormitory
Cacao Plantation
Cacao Plantation
Cacao Pods
Cacao Seeds
BFREE – Student Bug Bites (Photo Paul Pickhardt)
“Snakebite” (Photo Paul Pickhardt)
Tobacco Caye
Tobacco Caye Marine Station
How to arrange a site visit

• See if you can visit when other colleges are there.

• Ask how much it will cost (preferably nothing!)

• Ask your college for support.
What to do on Site Visits

- Take pictures
- Talk to the people you will be working with
- Tour housing, classrooms, dining
- Talk to students
- Go on excursions
What to do after Site visits

- Write reports
- Work with International Center to select best location.
- Recruit co-leader
- Market the study abroad course
Site Visit to Bermuda Institute of Ocean Sciences
BIOS Campus
Student Dormitory
Lab at BIOS
Dining at BIOS
Kaitlyn Baird, BIOS Education Coordinator
Why we chose BIOS

- Health and Safety
- Facilities
- Academics
- Cost
- Ability to complete our projects
- Pink sand beaches....
Pink Sand Beach
Unique Data for Projects at BIOS

- Lion Fish Data
- Algal Biofuels Data
- Ocean Floor Cover Data
- Plankton Data
- Coral Growth Data
- Snorkeling Data
Snorkeling Data

- Location: Shore, Shipwreck, Offshore Reef, Mangroves
- Number of fish
- Number of species
Shore Snorkel
Offshore Snorkeling
Shipwreck Snorkel
Webpage

- MATH 131 Statistics Online and Abroad
Answers to your Questions

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Lionfish – an invasive species
Lionfish Data Collection

LIONFISH SIGHTING and COLLECTION FORM
OCEAN SUPPORT FOUNDATION
Form is available online at: www.oceansupport.org

Please complete section 1, using pencil if possible.
Include the Form with the Lionfish(s) by: putting the lionfish(s) in a plastic bag, press air out, and seal. (Note: bags are not required for the permit form.) Place bag in freezer or on ice for collection. Take the lionfish(s) to your local dive shop, the Aquarium, or contact the Ocean Support Foundation for collection at lionfish@oceansupport.org.

1. GENERAL INFORMATION (please use pencil to avoid smearing)
   - Name: ____________________________
   - Address: ________________________
   - Phone: __________________________
   - Email: ____________________________
   - Lionfish permit holder: Y / N  Permit #: ______________________

Sighting / Collection Information
   - Date: ____________  Time: ____________  Location: (Please be as specific as possible)
   - GPS: ______________________

2. SPECIMEN COLLECTION INFORMATION
   - Weight: (g / oz):
   - Total Length: (mm / in):
   - Sex: M / F
   - Gonad length (mm): __________________
   - Width: __________________
   - Standard Length (mm): __________________
   - Gonad weight (g): __________________
   - Gonads fixed: Y / N  Otoliths: Y / N  Gill Clip: Y / N
   - Plumage: Y / N  Fin rays (count): _______ Top _______ Bottom
   - Gut content volume (ml): ____________

Gut content: ____________________________

Comments: ______________________________

3. ACCURATE DESCRIBING THE LIONFISH
   - Here are what else you can do if you need more information:
     - Prey species
     - Length of prey
     - Since they took off

4. CONTACT INFORMATION
   - Ocean Support Foundation
   - Address: 123 Main St., Suite 101, SeaCity, CA 90210
   - Phone: (123) 456-7890
   - Email: info@oceansupport.org
   - Website: www.oceansupport.org

5. REMEMBER TO FOLLOW THE COAST GUARD REGULATIONS
   - Your local dive shop can provide information on regulations.

6. ARCHIVAL RECORDS
   - The Ocean Support Foundation will keep these records for future research.

7. CONCLUSION
   - Thank you for your participation in the lionfish data collection program.
Algae Samples for Biofuel Study
Biofuel data

- Algae species
- Number of cells
- Lipid Content

Lipid Content: 64
Ocean Floor Cover
Ocean Floor Cover Data

- Location: Rim Reef or Patch Reef
- Number of points that are Coral
- Number of points that are rock, algae, sand.
Plankton Counter
Plankton Data

- When plankton gathered: Day or Night

- Using plankton counters and microscopes:
  - Total number of zooplankton
  - Number of a specific species of zooplankton