



# **Bahamian Reef Survey: Team IV**

## **17 Nov – 24 Nov 2007**





## Contents

- **Introducing Earthwatch: Make a Difference**
- **San Salvador Day 1-7 Routine**
- **Introducing San Salvador, Bahamas**
- **San Salvador Day 1-7 Techniques for Data Collection**
- **Purpose of Data Collection and Future Aims for the Project**
- **Conclusion: Items I missed & Benefits of the Trip**



## Introducing Earthwatch: Make a Difference

- **Mongolia water irrigation (2 weeks by camel back)**
- **Coral (animal)**
- **Application form: Research (time)**
- **Offer: Very surprised + excited + adventurous**





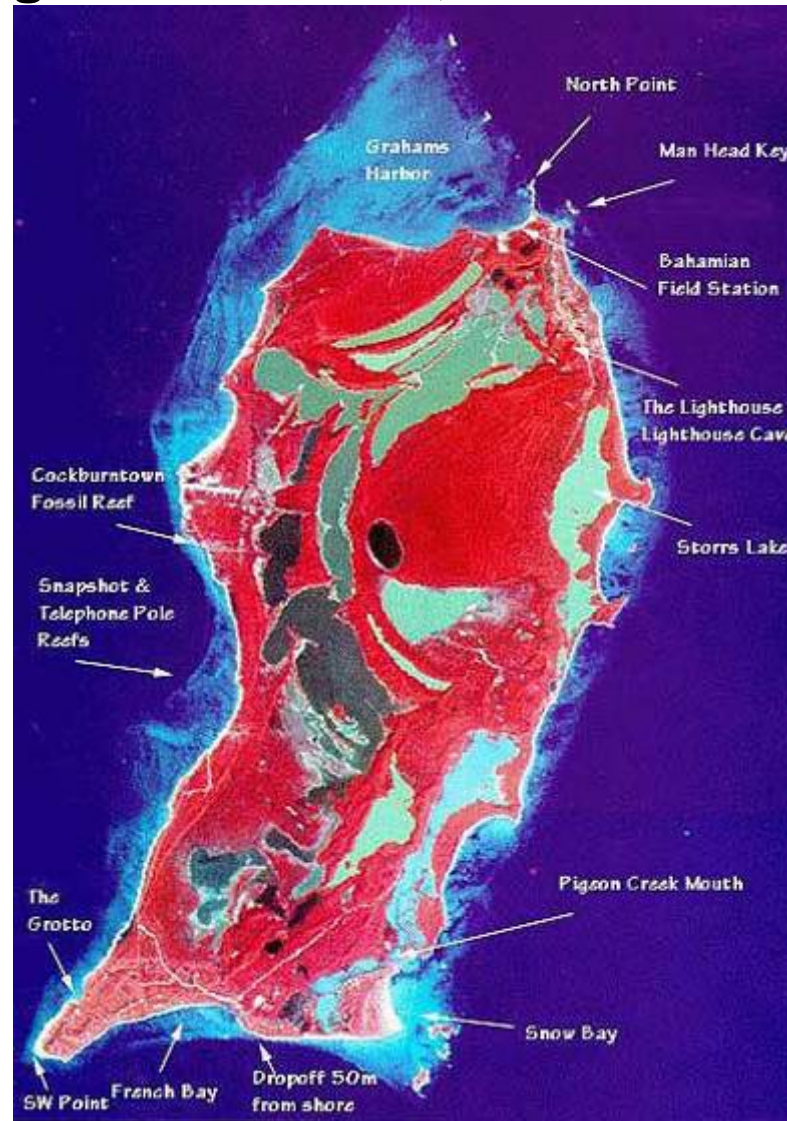
## San Salvador Day 1-7 Routine



- The Team: 12 women, 2 men. 1 principal investigator (PI), and 3 staff scientists (also women). The volunteers included 2 other Alcoans.
- 7:30 a.m. Breakfast
- Noon Lunch
- 5:30 p.m. Dinner
- 2 beaches a day and some recreational visits. Lectures in evening.
  - Visiting the island's manually Lighthouse and cave
  - Ruins of a former plantation and bat cave
  - Lunch at a local restaurant: eating tiger fish for the first time Geology, fish, glass figurines



# Introducing San Salvador, Bahamas



The College of The Bahamas  
**Gerace Research Centre**  
San Salvador, Bahamas





## San Salvador Day 1-7 Techniques for Data Collection

- Transects
  - Bleaching percentage
  - Temperature and water sample
  
- Visibility Readings
  - A secchi wheel (20/20 vision)
  
- Point Intersect
  - To throw a grid 1m by 1m with 25 intersects equally spaced in the reef at random points and put down what you see in categories: hard coral, soft coral, algae, sponges, rock, sand, others
  
- Elevation Readings
  - Measure sedimentation build-up or coast erosion.



## Purpose of Data Collection and Future Aims for the Project

- Monitoring Transects
  - To collect data and compare with existing data set.
  - Is there an increase/ decrease on bleaching of coral population?
  
- Restore Coral Reef
  - Transplant coral tissue
  - Concrete cast to help 3 dimensional nature of the reef of the reef and increase fish population.
  
- Get Local Population to Collect Data
  - Many locals cannot swim, and there needs to be an incentive for them to learn.
  - Living Jewels (marine park/ protected areas around the island)



## Conclusion: Items I missed & Benefits of the Trip

- Take 2 towels.
- Check in toiletries
- Sunscreen SPF 35 or higher
- Strong mask; better still, one that has lenses. Fins—Long, not short (ineffective). Snorkel bag
- Underwater flashlight
- 2 waterproof watches
- Alarm clock
- 2 pairs of shoes
- Jungle pants
- Long sleeve shirts
- Sunglasses
- Coca Cola
- The Tiger fish I ate at the local restaurant
- People; cultures, attitudes
- Coral
- Swimming with fish
- Snorkelling
- Wetsuit
- Caving
- San Salvador
- Nassau
- Plane journey: dash turbo
- Getting to know experts in their field
- Contributing to the longest running coral reef survey in the west.



# Links

Earthwatch

<http://www.earthwatchexpeditions.org/US/exped/rollino.html>

Diary Entry

<http://www.alcoa.com/global/en/environment/ew/2007/reef.asp>

Living Jewels

<http://www.savesansalvador.com>

