

# Addendum

As of Monday, June 30, 2008



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# Proclamation

REQUESTED BY THE  
BOARD OF COUNTY COMMISSIONERS  
BROWARD COUNTY

**WHEREAS**, coral reef ecosystems locally, nationally, and globally represent extraordinary biological, geological, and economic resources; and

**WHEREAS**, coral reefs protect coastal shorelines from erosion, produce sand for beaches, create habitat for diverse animals and plants, and provide nurseries, breeding grounds, and food for fish, thus creating a tremendous economic value through fishing, diving, recreation, and enjoyment; and

**WHEREAS**, the coral reefs of southeast Florida, including those of Broward County, generate over \$6 billion in sales and income, and sustain more than 61,000 jobs annually; and

**WHEREAS**, coral reefs worldwide, as well as in Florida, are suffering degradation from effects of overfishing, coastal construction and development, land based sources of pollution, and global climate change; and

**WHEREAS**, coral reefs and their associated ecosystems can and do rebound if protections exist and stressors do not become overwhelming; and

**WHEREAS**, 2008 has been designated as the International Year of the Reef (IYOR) by the International Coral Reef Initiative. IYOR is a worldwide campaign to raise awareness about the value and importance of coral reefs and to motivate people to take action to protect them; and

**WHEREAS**, SEFCRI, the Southeast Florida Coral Reef Initiative, led by the Florida Department of Environmental Protection, is a local action strategy for collaborative action among government and non-governmental partners to identify and implement priority actions needed to reduce key threats to southeast Florida coral reef resources, and SEFCRI has developed outstanding public service announcements about coral reefs; and

**WHEREAS**, the 11th International Coral Reef Symposium (ICRS) will be held in Broward County from July 7 through 11, 2008, and Broward County is donating use of space in the Greater Fort Lauderdale/Broward County Convention Center for the symposium; and

**WHEREAS**, the 11th ICRS will be the premier meeting of its kind and the largest meeting of coral reef scientists, managers, conservationists, and students in the world. The conference will highlight important areas of knowledge, concern, and management of coral reefs to address their most pressing threats; and

**WHEREAS**, this is the first time that the ICRS has been held in the continental United States in over 30 years; and

**WHEREAS**, the State of Florida and the U.S. Coral Reef Task Force, a coalition of federal agencies, states, and territories that have interests in or purview over corals reefs, are co-hosting the 11th ICRS; and

**WHEREAS**, Nova Southeastern University, through its Oceanographic Center, is spearheading the organization of this important conference; and

**WHEREAS**, the Broward County Environmental Protection and Growth Management Department is leading several field trips to show local reefs to Symposium participants; **NOW, THEREFORE,**

**BE IT PROCLAIMED BY THE BOARD OF COUNTY COMMISSIONERS OF BROWARD COUNTY, FLORIDA:**

That the Board hereby supports the International Year of the Reef 2008, recognizes the work of the Southeast Florida Coral Reef Initiative, and designates the week of July 7 through July 11, 2008, as "**11<sup>th</sup> INTERNATIONAL CORAL REEF SYMPOSIUM**" in Broward County, Florida.

*July 7, 2008*  
Date



*Lois Wexler*  
Mayor



# United States Senate

WASHINGTON, DC 20510-0905

BILL NELSON  
FLORIDA

July 7, 2008

Richard E. Dodge, Ph.D  
Nova Southeastern University  
Oceanographic Center  
8000 North Ocean Drive  
Dania Beach, Florida 33004-3078

Dear Friends:

Greetings and welcome to the state of Florida. I am delighted that you chose Fort Lauderdale to convene your 11th International Coral Reef Symposium.

With global climate change, coral reefs face significant challenges from warming seas, ocean acidification, and degradation from other natural processes and human actions. We need the best science available to guide our management of this vital resource.

I want to thank all of the researchers and organizations participating in the symposium, particularly those with the National Coral Reef Institute at Nova Southeastern University's Oceanographic Center, for your research that helps us better understand, preserve, and restore these fragile ecosystems.

Best wishes for a successful symposium.

Sincerely,

A handwritten signature in blue ink that reads "Bill Nelson".

# United States Senate

WASHINGTON, DC 20510-0906

June 30, 2008

NSU Oceanographic Center  
8000 North Ocean Drive  
Dania Beach, Florida 33004

Dear Attendees:

It is with great pleasure that I welcome you to South Florida and the 11th International Coral Reef Symposium.

As you gather at the largest coral reef conference in the world, I would like to take this opportunity to salute the work that each and every one of you do in the areas of coral reef research, monitoring, restoration and mitigation activities of coral reefs in the United States. As someone who enjoys Florida's natural resources, I commend your efforts to ensure that the many beautiful coral reefs along Florida's coast line are protected and preserved.

I offer my best wishes for a successful symposium and hope you enjoy your time here in South Florida.

Sincerely,



Mel Martinez  
United States Senator



**Congress of the United States  
House of Representatives  
Washington, DC 20515**

**11<sup>th</sup> International Coral Reef Symposium  
Abridged Address  
Rep. Ron Klein (FL-22)  
July 7, 2008**

I want to thank everyone for coming to South Florida for the first international coral reef symposium held on U.S. soil in over 30 years, and during the International Year of the Reef, no less. It's amazing to think that here in this room are over 2,500 of the leading coral reef scientists, managers, and conservationists in the world, and you've all come with the same purpose and dedication: to preserve and protect coral reef ecosystems.

Just as a keystone holds an arch bridge together, so too are coral reefs the keystone of our tropical and subtropical waters, providing levels of biodiversity equal to the great rain forests of the world. And right here in South Florida, we are blessed with the third largest coral reef ecosystem in the world and the only living barrier reef in the continental United States.

The importance of coral reefs to South Florida cannot be overstated. In addition to erecting a vital first-line of defense against hurricanes and storm surges for our coastal communities, coral reefs have an immeasurable environmental value. They provide awe and inspiration to divers and snorkelers from all over the world, and are a driving force for our tourism and fishing industries.

In Congress, we like to use data to quantify the importance of issues. On a commercial level, coral reefs equate to \$6 billion and 60,000 jobs in Southeast Florida. Those figures are produced by a joint study by Broward County and NOAA and demonstrate the staggering annual economic impact of coral reefs for Southeast Florida. In Broward County alone, the economic impact is over \$2 billion.

Since coral reefs are the keystones to our tropical and subtropical waters, their absence could prove disastrous. And the reality is, coral reefs are in crisis. Faced with dangers both man-made and natural, including global warming, overfishing, coastal pollution, and bleaching, coral reefs are dying in alarming numbers. In fact, scientists estimate that 60 percent of coral reefs may disappear before 2050.

We must remember that coral reefs are not ours to use and exploit. They are an integral part of our underwater ecosystems, and as such we must act as responsible and respectful stewards. If not, history will remember us as the irresponsible generation that allowed their destruction.

Saving coral reefs will require dedication from all stakeholders, including snorkelers, fisherman, recreational boaters, commercial shipping interests, and scientists spearheading the latest research. And of course that includes policymakers in Washington.

Last October, the U.S. House of Representatives passed H.R. 1205, the *Coral Reef Conservation Amendments Act of 2007*. This important legislation reauthorized the *Coral Reef Conservation Act of 2000* while making some key changes, such as utilizing the vast resources and expertise at the coral reef conservation institutions in Hawaii, Puerto Rico, and in South Florida, through permanent authorizing language.

These institutions provide outstanding scientific research and capacity and critical support to state and local coral reef resource managers and a highly coordinated approach to pure scientific research. They are exemplary programs, and I will continue to fight for their full funding while in Congress.

If we are to save coral reefs, our work must begin here, today. Although the obstacles may seem great, I have long believed that we can meet any challenge and solve any problem, if we work together. All of us have a stake in saving our reefs, and all of us must use whatever resources available to find a lasting solution.

## LUGGAGE CHECK

You can check your suitcases with the luggage attendant on **Friday, July 11 from 7:00AM to 4:00PM**. Luggage check is only available on Friday. Cost is \$2.00 per bag.

## TICKETS

Tickets can be purchased on site for the following events:

- Accompanying Guest Tours
- Hard Rock Casino
- Field Trips
- Closing Banquet
- Opening Reception

Tickets are limited so purchase early.

## UPDATED ASSOCIATED MEETINGS, EVENTS & WORKSHOPS

### Open to All

*Mini-Symposium 6 – Ecological and evolutionary genomics of coral reef organisms*

Open Discussion

Tuesday, July 8, 2008

5:15-6:00 PM

Room Floridian Ballroom A

*500 Years of Antiquarian Books on Corals and Coral Reefs: The Professional Library of Dr. James W. Porter*

Tuesday and Thursday

4:00-6:00 PM

Room 213

*Indo-Pacific Ancient Ecosystems Group (IPAEG) Meeting*

Tuesday, July 8, 2008

5:00-6:00 PM

Room 118/119

*Building Capacity of Marine Conservation Area Managers to Manage and Analyze Marine Protected Area Knowledge and Data*

Wednesday, July 9, 2008

12:30-2:00 PM

Room 207 & 208

### Invitation Only

*ISRS Council Meeting*

Tuesday, July 8, 2008

7:30-9:00PM

Room 317

*Management Effectiveness Workshop: A Global Decision Tool for Marine Managed Areas*

Tuesday, July 8, 2008

6:00 – 8:30 PM

Room 301 & 302

Giselle Samonte Tan, Ph.D., g.samontetan@conservation.org

*Marine Management Area Science Program Reception*

Wednesday, July 9, 2008

6:00-8:30 PM

Room 301

Leah Karrer, lkarrer@conservation.org

## ABSTRACT CORRECTIONS

Abstract 5-39, Roberto Iglesias-Prieto, will be presented as a Plenary Tuesday, July 8, 2008 at 8:30 AM

Affiliation Change: Abstract 23-53, Daniel Egli, PHD Wildlife Conservation Society

Added Co-Authors: Abstract 22-2, IM Cote (Presenting Author), G.M.Pilling, S. Jennings and NK Dulvy

Country Change: Abstract P-5.102 & P-8.234, The University of Liege, Belgium

Title Change:

Poster 10.313, New Title: Visual habitat selection by a coral reef fish

Poster 22.838, New Title: Mangrove/seagrass nurseries do not enhance growth of a juvenile coral reef fish

## NEW ORALS

### Mini-Symposium: 16. Ecosystem Assessment and Monitoring of Coral Reefs - New Technologies and Approaches

**Date:** Thursday, July 10, 2008

**Time:** 10:00-10:15 AM

**Room:** Room 315

**Title:** The Florida Area Coastal Environment (FACE) Program

**Presenting Author:** Tom Carsey

**Abstract:** Addendum

### Mini-Symposium: 22. Coral Reef Associated Fisheries

**Date:** Wednesday, July 9, 2008

**Time:** 10:30-10:45 AM

**Room:** Palm A

**Title:** Simulating overfishing in a near-pristine coral reef

**Presenting Author:** Derek Tittensor

**Abstract:** Addendum

## UPDATED ORALS (POSTERS SWITCHED TO ORALS)

### Mini-Symposium: 10. Ecological Processes on Today's Reef Ecosystems

**Date:** Wednesday, July 9, 2008

**Time:** 4:15-4:30 PM

**Title:** Differential effect of early post-settlement processes on the abundance of two concurrently settling coral reef fishes

**Presenting Author:** Henri Valles

**Abstract:** P-10.382, Page 357

### Mini-Symposium: 14. Reef Connectivity

**Date:** Tuesday, July 8, 2008

**Time:** 10:00-10:15 AM

**Title:** Coral Recruits to Settlement Plates at Remote Locations throughout the U.S. Pacific

**Presenting Author:** Jean Kenyon

**Abstract:** P-14.443, Page 374

**Mini-Symposium: 15. Progress in Understanding the Hydrodynamics of Coral Reef Systems**

**Date:** Monday, July 7, 2008

**Time:** 4:15-4:30 PM

**Title:** A Multi-Scale, Large-Area Analysis of Coral Reef Roughness

**Presenting Author:** David G. Zawada

**Abstract:** P-15.518, Page 392

**Mini-Symposium: 21. Social-Ecological Systems**

**Date:** Monday, July 7, 2008

**Time:** 5:45-6:00 PM

**Title:** Marine resource management in Aceh, Indonesia: practice and perception

**Presenting Author:** Stuart Campbell

**Abstract:** P-21.813, Page 467

**Mini-Symposium: 22. Coral Reef Associated Fisheries**

**Date:** Friday, July 11, 2008

**Time:** 10:15-10:30 AM

**Title:** Abundance of Economically Important Fish Species Inhabiting Patch Reefs in Shallow Water near South Eleuthera, The Bahamas: Implications for MPA Development

**Presenting Author:** Annabelle Oronti

**Abstract:** P-22.824, Page 470

**NEW POSTERS ADDED**

**Mini-Symposium: 10. Ecological Processes on Today's Reef Ecosystems**

**Poster Board Number:** 10.297

**Title:** Ecological indicators at community and population level of corals in impacted and unimpacted sites at the west coast of Havana bay.

**Presenting Author:** Patricia Gonzales

**Abstract:** Addendum

**Poster Board Number:** 10.305

**Title:** 'Holobiont Assemblages ( Symbiodinium Type And Coral Species) Shapes Caribbean Reefs Community Structure

**Presenting Author:** Alejandro Grajales

**Abstract:** Addendum

**Mini-Symposium: 14. Reef Connectivity**

**Poster Board Number:** 14.437

**Title:** A Comparison of Reef Fish Assemblages on the East and West Sides of Eleuthera, Bahamas

**Presenting Author:** Robert Patterson

**Abstract:** Addendum

**Mini-Symposium: 23. Reef Management**

**Poster Board Number:** 23.983

**Title:** Effects of fishing activity reduction in Jardines de la Reina Marine Reserve, Cuba

**Presenting Author:** Fabian Pina Amargos

**Abstract:** Addendum

**Poster Board Number:** 23.992

**Title:** The Decline of Coral Reef Conditions Caused by Extensive Land Modification: a Case Study of the Shiraho Area on Ishigaki Island, Okinawa, Japan

**Presenting Author:** Hitoshi Hasegawa

**Abstract:** Addendum

**Updated POSTERS  
(Orals switched to Posters)**

**Mini-Symposium: 10. Ecological Processes on Today's Reef Ecosystems**

**Poster Board Number:** 10.266

**Title:** Contrasting Effects of Benthic Algae on Coral Recruits in an Upwelling Reef from the Colombian Caribbean

**Presenting Author:** Dagoberto Venera-Ponton

**Abstract:** 10-4, Page 73

**Mini-Symposium: 12. Reef Resilience**

**Poster Board Number:** 12.417A

**Title:** Variation in Bleaching Susceptibility Among Color Morphs in the Reef-Building Coral *Acropora millepora*, Great Barrier Reef (GBR)

**Presenting Author:** Allison S Paley

**Abstract:** P-12.417A, Page 367

**Mini-Symposium: 16. Ecosystem Assessment and Monitoring of Coral Reefs - New Technologies and Approaches**

**Poster Board Number:** 16.530A

**Title:** New Approach for Coral Surface Area Calculation Using Computerized Tomography and 3D Modelling

**Presenting Author:** Wolfgang Niggel

**Abstract:** 16-21, Page 133

**Poster Board Number:** 16.551A

**Title:** Coral Surface Area Estimation by Computer Tomography – Comparison with Established Methods and Application in Ecological Studies

**Presenting Author:** Malik Naumann

**Abstract:** 16-19, Page 133

**Poster Board Number:** 16.552A

**Title:** A simple, low-cost system for determining high resolution particle distributions on coral reefs

**Presenting Author:** Alex Wyatt

**Abstract:** P-16.552A, Page 401

**ORALS WITHDRAWN**

**Mini-Symposium: 1. Lessons From the Past**

**Date:** Thursday, July 10, 2008

**Time:** 12:00-12:15 PM

**Title:** Evolution of the Coral Reef Ecosystem under a Jurassic Perspective: From Mixotrophy towards Superoligotrophy

**Presenting Author:** Reinhold LEINFELDER

**Mini-Symposium: 2. Biotic Response to Ancient Environmental Change in Indo-Pacific Coral Reefs**

**Date:** Tuesday, July 8, 2008

**Time:** 3:30-3:45 PM

**Title:** Spatial and Temporal Variations in Pleistocene Coral Assemblages in the South and Central Ryukyu Islands

**Presenting Author:** Marc Humblet

**Mini-Symposium: 4. Coral Reef Organisms as Recorders of Local and Global Environmental Change**

**Date:** Tuesday, July 8, 2008

**Time:** 12:00-12:15 PM

**Title:** Stable Isotopes in Corals under Decreased pH Conditions

**Presenting Author:** Shani Krief

**Mini-Symposium: 8. Coral Microbial Interactions**

**Date:** Tuesday, July 8, 2008

**Time:** 10:45-11:00 AM

**Title:** Microbial communities associated with reef-building corals of Ningaloo Reef in Western Australia

**Presenting Author:** Janja Ceh

**Date:** Tuesday, July 8, 2008

**Time:** 4:30-4:45 PM

**Title:** Coral-Associated Fungal Communities under Decreased pH Conditions

**Presenting Author:** Lena Hazanov

**Mini-Symposium: 10. Ecological Processes on Today's Reef Ecosystems**

**Date:** Wednesday, July 9, 2008

**Time:** 4:15-4:30 PM

**Title:** Competition amongst Labrid Recruits: The Importance of Sequence and Timing of Settlement

**Presenting Author:** Shane Geange

**Mini-Symposium: 11. From Molecules to Moonbeams: How is Reproductive Timing Regulated in Coral Reef Organisms?**

**Date:** Monday, July 7, 2008

**Time:** 3:45-4:00 PM

**Title:** Patterns of Egg Predation at Reef Fish Spawning Aggregation Sites and the Role of Target Egg Predators

**Presenting Author:** Matthew Fraser

**Mini-Symposium: 12. Reef Resilience**

**Date:** Thursday, July 10, 2008

**Time:** 5:30-5:45 PM

**Title:** Coral reefs under the impact of internal waves, Similan Islands, Andaman Sea: coral growth and calcification

**Presenting Author:** Gertraud Schmidt

**Mini-Symposium: 15. Progress in Understanding the Hydrodynamics of Coral Reef Systems**

**Date:** Monday, July 7, 2008

**Time:** 4:15-4:30 PM

**Title:** Heat exposure of corals: Investigating the "other" diffusive boundary layer

**Presenting Author:** Isabel Jimenez

**Mini-Symposium: 16. Ecosystem Assessment and Monitoring of Coral Reefs - New Technologies and Approaches**

**Date:** Friday, July 11, 2008

**Time:** 10:45-11:00 AM

**Title:** A simple, low-cost system for determining high resolution particle distributions on coral reefs

**Presenting Author:** Alex Wyatt

**Date:** Thursday, July 10, 2008

**Time:** 10:00-10:15 AM

**Title:** New Approach for Coral Surface Area Calculation Using Computerized Tomography and 3D Modelling

**Presenting Author:** Wolfgang Niggel

**Date:** Thursday, July 10, 2008

**Time:** 5:45-6:00 PM

**Title:** The Indo Pacific Coral Finder: an easy-to-use underwater coral identification tool.

**Presenting Author:** Russell Kelley

**Date:** Wednesday, July 9, 2008

**Time:** 4:15-4:30 PM

**Title:** Coral Surface Area Estimation by Computer Tomography – Comparison with Established Methods and Application in Ecological Studies

**Presenting Author:** Malik Naumann

**Mini-Symposium: 21. Social-ecological Systems**

**Date:** Monday, July 7, 2008

**Time:** 11:00-11:15 AM

**Title:** Watch the Coast! Sustainability is Local. Case Study Belize

**Presenting Author:** Dr. Jeff Schroeder

**Date:** Monday, July 7, 2008

**Time:** 12:00-12:15 PM

**Title:** Assessing economic and ecological thresholds in artisanal reef fisheries

**Presenting Author:** Louise Teh

**Date:** Monday, July 7, 2008

**Time:** 5:45-6:00 PM

**Title:** "Coastal and Marine Indicators at Your Doorstep" – a participative environmental outreach program for schools in Thailand

**Presenting Author:** Petchrung Sukpong

**Date:** Tuesday, July 8, 2008

**Time:** 10:15-10:30 AM

**Title:** LOCAL ECOLOGICAL KNOWLEDGE AND THE MANAGEMENT OF MARINE PROTECTED AREAS IN BRAZIL

**Presenting Author:** Eduardo Godoy

**Date:** Tuesday, July 8, 2008

**Time:** 12:15-12:30 PM

**Title:** The Impact of Hurricanes on the Socio-Economic Resilience of Caribbean Reef-Dependent Livelihoods

**Presenting Author:** Johanna Forster

**Mini-Symposium: 22. Coral Reef Associated Fisheries****Date:** Friday, July 11, 2008**Time:** 10:15-10:30 AM**Title:** Integrating fisher interview, log book, and available life history data to reconstruct an IUCN-listed seahorse fishery in the Philippines: a first step toward recovery targets**Presenting Author:** Kerrie O'donnell**Date:** Wednesday, July 9, 2008**Time:** 10:30-10:45 AM**Title:** The Need for Adaptive Management and the Challenges of Climate Change**Presenting Author:** Brigid Kerrigan**Mini-Symposium: 25. Predicting Reef Futures in the Context of Climate Change: Is 500 ppm CO<sub>2</sub> and 2°C of warming the 'tipping point' for coral reefs?****Date:** Tuesday, July 8, 2008**Time:** 5:00-5:15 PM**Title:** Clade D Symbiodinium does not confer resistance to bleaching of coral reefs at Kish Island (Northern Persian Gulf)**Presenting Author:** Pargol Ghavam Mostafavi**Mini-Symposium: 26. Biodiversity and Diversification of Reef Organisms****Date:** Monday, July 7, 2008**Time:** 3:30-3:45 PM**Title:** Coastal Fish Communities of the Socotra Archipelago: "Pseudo-reefal" Diversity and Ecology Without Coral Reefs.**Presenting Author:** Uwe Zajonz**Date:** Wednesday, July 9, 2008**Time:** 10:15-10:30 AM**Title:** Phylogenetic relationships of members of the Family Euphyllidae (Bubble Corals)**Presenting Author:** Katrina Luzon**Date:** Wednesday, July 9, 2008**Time:** 5:15-5:30 PM**Title:** Gene genealogies reveal phylogenetic species of Clade C Symbiodinium associating with corals of the Great Barrier Reef**Presenting Author:** Dee Carter**POSTERS WITHDRAWN****Mini-Symposium: 4. Coral Reef Organisms as Recorders of Local and Global Environmental Change****Poster Board Number:** 4.81**Title:** Reconstruction of environmental conditions and coral nutrition using coral cores**Presenting Author:** Cornelia Roder**Mini-Symposium: 5. Functional Biology of Corals and Coral Symbiosis: Molecular Biology, Cell Biology and Physiology****Poster Board Number:** 5.125**Title:** Genetic Diversity within the Endolithic Alga *Ostreobium quekettii* that Harbor the Scleractinian Corals Skeleton**Presenting Author:** Eldad Hoch**Poster Board Number:** 5.126**Title:** Physiological Adjustments To Depth- Dependent Changes in Light Quantity and Quality of the Red Sea Coral *Stylophora pistillata* And Its Symbiotic Zooxanthellae**Presenting Author:** Zvy Dubinsky**Poster Board Number:** 5.131**Title:** A Mechanism of Alloimmune Response in Primitive Phylum: Apoptosis in the Gorgonian Coral *Swiftia exserta***Presenting Author:** Charles Bigger**Poster Board Number:** 5.137**Title:** Wound Healing in the Gorgonian Coral *Swiftia exserta***Presenting Author:** Charles Bigger**Mini-Symposium: 7. Diseases on Coral Reefs****Poster Board Number:** 7.175**Title:** Prevalence of diseases in the coral communities of the Western Indian Ocean**Presenting Author:** Maria Joao Rodrigues**Mini-Symposium: 9. Chemical Ecology On Coral Reefs****Poster Board Number:** 9.253**Title:** Long term, low dose exposure of *Leptasrea purpurea* larvae to herbicide**Presenting Author:** Ingeborg Iping Petterson**Mini-Symposium: 10. Ecological Processes on Today's Reef Ecosystems****Poster Board Number:** 10.266**Title:** Effect of Terrestrial-derived Sediment on Coral Recruitment in Asan Bay, Guam.**Presenting Author:** Dwayne Minton**Poster Board Number:** 10.297**Title:** Physical forcing of alternative stable states on coral reefs**Presenting Author:** Christopher Fulton**Poster Board Number:** 10.305**Title:** Off Bottom Culture of *Caulerpa lentillifera* Agardh in Different Water**Presenting Author:** Serapion Tanduyan**Poster Board Number:** 10.310**Title:** Effects of the Long-spined Sea Urchin *Diadema antillarum philippi* on Benthic Sediments**Presenting Author:** Esther Rodriguez-Iglesias**Poster Board Number:** 10.339**Title:** Growth Rate of *Caulerpa lentillifera* Agardh in Different Substrates in the Marine Waters of San Francisco,, Cebu, Philippines**Presenting Author:** Serapion Tanduyan**Poster Board Number:** 10.351**Title:** Effects of an experimentally-generated macroalgal bloom on *Acropora* juveniles after a bleaching event**Presenting Author:** Maria Joao Rodrigues**Poster Board Number:** 10.359**Title:** Population Projections and Management Recommendations for the Threatened *Acropora palmata*: What Life History Stage Should We Protect?**Presenting Author:** Tali Vardi

**Poster Board Number:** 10.366  
**Title:** Deriving Conservation Strategies from Philippine Reef Fish Distributions  
**Presenting Author:** Cleto Nañola Jr.

**Poster Board Number:** 10.377  
**Title:** Effect of Short-Term Nutrient Enrichment on Photosynthesis in Crustose Coralline Algae  
**Presenting Author:** Cheryl Squair

**Poster Board Number:** 10.382  
**Title:** Differential effect of early post-settlement processes on the abundance of two concurrently settling coral reef fishes  
**Presenting Author:** Henri Valles

#### **Mini-Symposium: 13. Evolution and Conservation of Coral Reef Ecosystems**

**Poster Board Number:** 13.421  
**Title:** The deep connection: deep-water corals and their importance for the evolution and conservation of reef coral diversity  
**Presenting Author:** Alberto Lindner

**Poster Board Number:** 13.431  
**Title:** Ancestral Foundations and Geomorphology in Conserving Habitats and Communities of the Ningaloo Reef, Western Australia  
**Presenting Author:** Emily Twiggs

#### **Mini-Symposium: 14. Reef Connectivity**

**Poster Board Number:** 14.437  
**Title:** Genetic connectivity in viviparous hydrophiine sea snakes: the effect of spatial scale, habitat type and reproductive mode for levels of gene flow  
**Presenting Author:** Vimoksalehi Lukoschek

**Poster Board Number:** 14.439  
**Title:** Genetic connectivity of coral reef fish populations in the Red Sea  
**Presenting Author:** Tawfiq Froukh

**Poster Board Number:** 14.464  
**Title:** Recruitment and Recruit Survival of Scleractinian Corals on a Shallow Ship-Grounded Site in Banilad, Dumaguete City, Philippines  
**Presenting Author:** Clarissa Reboton

**Poster Board Number:** 14.473  
**Title:** Scale-dependent variability in larval supply in coastal Kenya: towards estimating connectivity of reef sites  
**Presenting Author:** Boaz Kaunda-Arara  
**Poster Board Number:** 14.476  
**Title:** Connectivity of West Javanese coral reefs and coastal ecosystem: the results of datamining  
**Presenting Author:** Karen von Juterzenka

#### **Mini-Symposium: 15. Progress in Understanding the Hydrodynamics of Coral Reef Systems**

**Poster Board Number:** 15.518  
**Title:** A Multi-Scale, Large-Area Analysis of Coral Reef Roughness  
**Presenting Author:** David G. Zawada

#### **Mini-Symposium: 17. Emerging Techniques in Remote Sensing and Geospatial Analysis**

**Poster Board Number:** 17.593  
**Title:** Delineating the acoustic signature of coralline tissue  
**Presenting Author:** Gal Mor

#### **Mini-Symposium: 18. Reef Status and Trends**

**Poster Board Number:** 18.610  
**Title:** Regeneration of a Coral Reef Community After Decimation by a Volcanic Eruption off the Coast of Gunung Api, Banda Islands, Indonesia  
**Presenting Author:** Tanya Ribakoff

**Poster Board Number:** 18.616  
**Title:** Coral Reefs in Costa Rican Caribbean: Enough Reason to Redesign Conservation Areas?  
**Presenting Author:** Isabel CHACÓN-GÓMEZ

**Poster Board Number:** 18.631  
**Title:** Declining Coral Health and Fish Diversity in the Solomon Islands, Melanesia  
**Presenting Author:** Paul McCurdy

**Poster Board Number:** 18.655  
**Title:** Faunal Inventory in the Mangrove Areas  
**Presenting Author:** Serapion Tanduyan

**Poster Board Number:** 18.740  
**Title:** Comparative Structure of Fish and Benthos Assemblages In Belize and Brazil.  
**Presenting Author:** Burton Shank

**Poster Board Number:** 18.752  
**Title:** Comparison of Nutrient Level and Variation in Coral Reefs in the Ryukyu Archipelago, Japan  
**Presenting Author:** Naoko Morimoto

#### **Mini-Symposium: 21. Social-Ecological Systems**

**Poster Board Number:** 21.812  
**Title:** Destructive Fishing Practices: Identifying Its Triggering Factors and Understanding the Interplays of Institutions in Coral Reef Management in Spermonde Archipelago Indonesia  
**Presenting Author:** Rio Deswandi

**Poster Board Number:** 21.813  
**Title:** Marine resource management in Aceh, Indonesia: practice and perception  
**Presenting Author:** Stuart Campbell

#### **Mini-Symposium: 22. Coral Reef Associated Fisheries**

**Poster Board Number:** 22.824  
**Title:** Abundance of Economically Important Fish Species Inhabiting Patch Reefs in Shallow Water near South Eleuthera, The Bahamas: Implications for MPA Development  
**Presenting Author:** Annabelle Oronti

**Poster Board Number:** 22.861  
**Title:** Effects of Filamentous Green Algae (Enteromorpha intestinales Linn.) and Commercial Feeds Given to Milkfish (Chanos-chanos Forsskal) Fingerlings  
**Presenting Author:** Serapion Tanduyan

**Poster Board Number:** 22.876

**Title:** Aspects of the reproductive biology of two Serranidae species in The Bahamas: *Epinephelus guttatus* (Red Hind) and *Mycteroperca venenosa* (Yellowfin Grouper)

**Presenting Author:** Nicolle Cushion

**Poster Board Number:** 22.888

**Title:** Temporal and spatial fluctuations in abundance of four species of herbivorous acanthurids over a 25 year period on four patch reefs in Kaneohe Bay, Hawaii

**Presenting Author:** John Stimson

#### **Mini-Symposium: 23. Reef Management**

**Poster Board Number:** 23.1005

**Title:** Hawai'i Institute of Marine Biology (HIMB) - Northwestern Hawaiian Islands Research Partnership

**Presenting Author:** Carlie Wiener

**Poster Board Number:** 23.1013

**Title:** Impact of Tourism Development on Mabul Island, Sabah, Malaysia

**Presenting Author:** Soo Ling Aw

**Poster Board Number:** 23.1017

**Title:** Recreational Diving Management in the Coral Reefs of Cozumel, Mexico

**Presenting Author:** Luis Santander

**Poster Board Number:** 23.1022

**Title:** MONITOREO ARRECIFAL REEF CHECK EN LA REPUBLICA DOMINICANA

**Presenting Author:** Ruben Torres

**Poster Board Number:** 23.923

**Title:** A case study of customary coral reef management; Silom village, New Ireland Province, Papua New Guinea.

**Presenting Author:** Tau Morove

**Poster Board Number:** 23.929

**Title:** Anthropogenic Activities in the Mangrove Areas of Camotes Islands, Central Philippines: Basis for a Proposed Mangrove Management Plan

**Presenting Author:** Serapion Tanduyan

**Poster Board Number:** 23.945

**Title:** Strengthening Management of U.S. Coral Reef Ecosystems

**Presenting Author:** Takiara Ingram

**Poster Board Number:** 23.949

**Title:** The state of marine managed areas (MMAs) to conserve U.S. coral reef ecosystems

**Presenting Author:** Lisa WOONINCK\*, Rikki GROBER-DUNSMORE, Mimi D'IORIO, Charles WAHLE

**Poster Board Number:** 23.961

**Title:** The effect of the Interpretation Learning Process on snorkeler behavior in coral reefs, Thailand

**Presenting Author:** Petchrung Sukpong

**Poster Board Number:** 23.973

**Title:** Valuation of Coastal Ecosystem Goods and Services in East-Central, Florida

**Presenting Author:** Brian KELLY\*

**Poster Board Number:** 23.983

**Title:** Laying the baseline for community-based monitoring of coral reefs in Hawai'i

**Presenting Author:** Manuel Mejia

**Poster Board Number:** 23.992

**Title:** An Integrated Methodology for the Management of Coral Reef Systems: a Beloi (Timor-Leste) case study

**Presenting Author:** Leo Dutra

#### **Mini-Symposium: 26. Biodiversity and Diversification of Reef Organisms**

**Poster Board Number:** 26.1169

**Title:** Species boundaries and evolutionary lineages in the blue green damselfishes *Chromis viridis* and *C. atripectoralis* (Pomacentridae)

**Presenting Author:** Tawfiq Froukh

**Poster Board Number:** 26.1207

**Title:** Does vertical symbiont transmission always lead to a 'closed' association? Symbiont diversity of parents, planulae and recruits of the brooding Caribbean coral *Porites astreoides*

**Presenting Author:** Mary Alice Coffroth

**Poster Board Number:** 26.1234

**Title:** Zooplankton Of The Coral Reef Area At Denglujiao, Leizhou Peninsula, Guangdong Province, China

**Presenting Author:** Jianqiang Yin

#### **ORAL ABSTRACTS**

#### **Mini-Symposium 16, Thursday, July 10, 2008, 10:00 - 10:15, Room 315**

##### **The Florida Area Coastal Environment (FACE) Program**

**John Proni**<sup>1</sup>, Thomas Carsey<sup>1</sup>, Jia-Zhong Zhang<sup>1</sup>, Kevin Sullivan<sup>1</sup>, Rik Wanninkhof<sup>1</sup>, Peter Swart<sup>2</sup>, Courtney Drayer<sup>2</sup>, Charles Featherstone<sup>1</sup>, Jack Stamates<sup>1</sup>, Shailer Cummings<sup>1</sup>, Christopher Sinigalliano<sup>1</sup>, Natchanon Amornthammamong<sup>3</sup>, Jules Craynock<sup>1</sup>, Paul Dammann<sup>1</sup>, James Hendee<sup>1</sup>  
<sup>1</sup>Atlantic Oceanographic and Meteorological Laboratory, National Oceanic and Atmospheric Administration, <sup>2</sup>Rosenstiel School for Marine and Atmospheric Sciences, University of Miami, <sup>3</sup>Cooperative Institute for Marine and Atmospheric Studies, University of Miami

The Florida Area Coastal Environment (FACE) program is carrying out long term studies and measurements in the south Florida coastal ocean and environs of nutrient sources and processes controlling the transport and dispersion of said nutrients. Related chemical and microbiological studies are also underway. Three sources of nutrients to the coastal ocean which have so far received the most attention in FACE are inlets, treated waste water effluent (TWWE) and oceanic upwelling. Exposure possibilities for selected coral reefs to these nutrient sources are also being studied. External tracers, such as Rhodamine Dye and Sulfur hexafluoride (SF<sub>6</sub>) have been injected into both TWWE plumes and inlet plumes. Acoustical data have long indicated that under most circumstances that the effluent plumes are positively buoyant and generally reside within the upper several meters of the water column adjacent to the ocean's surface. Recent Face tracer studies carried out in February 2007 on the South Central effluent outfall indicate that over a distance of several kilometers that the effluent plume largely remains within the upper part of the water column for the ambient conditions

present at the time of the study. Tracer studies are complemented by isotopic ratio studies to examine nitrogen in algae and sediments. Measurements in the Boynton Inlet indicate that nutrient concentrations are much higher in flows exiting the inlet than entering the inlet. A high frequency, ultra sensitive towed ammonium measurement system has been used to measure the rapid diminution of total ammonia about the effluent discharge site.

**Mini-Symposium 22, Wednesday, July 9, 2008, 10:30-10:45, Room Palm A**

**Simulating Overfishing in A Near-Pristine Coral Reef**

**Douglas MCCAULEY\*1**, Daniel BRUMBAUGH2, Katherine HOLMES3, Heike LOTZE4, Elizabeth MADIN5, Lisa MAX5, Fiorenza MICHELI6, Jennifer SMITH7, Derek TITTENSOR4, Boris WORM4, Hillary YOUNG8

1Hopkins Marine Station, Stanford University, Pacific Grove, CA, 2American Museum of Natural History, Santa Cruz, CA, 3American

Museum of Natural History, New York, NY, 4Dalhousie University, Halifax, NS, Canada, 5University of California at Santa Barbara, Santa Barbara, CA, 6Stanford University, Pacific Grove, CA, 7National Center for Ecological Analysis and Synthesis, Santa Barbara, CA, 8Stanford University, Stanford, CA Overfishing is one of the most serious threats to coral reef health. Most studies of overfishing in coral reefs are generated in moderate to heavily fished systems. This body of work has vastly improved our understanding of the ecology of fishing in coral reefs, but tells us little about the effects that fishing has when first initiated in pristine reefs. Because fishers preferentially remove the largest reef fish first, and these large fish may have disproportionately strong influences on reef ecology, we hypothesized that the initial years of fishing may have a disproportionately strong impact on reefs. To quantify the magnitude of the possible direct and indirect first effects of fishing and to better understand the ecological implications of removing a reef's largest fish, we experimentally simulated overfishing in the near-pristine coral reefs of Palmyra Atoll. Large fish (e.g. snappers, sharks, large parrotfish) were excluded on portions of the forereef at Palmyra using enclosure cages. Removing large fish altered fish behavior and had cascading effects on ecological processes that shape coral communities, including rates of herbivory and coral recruitment. Data from this experiment helps historicize the impacts of fishing on coral reefs and demonstrate the ecological importance of large reef fish.

**POSTER ABSTRACTS**

**Poster 10.297, Patricia Gonzales**

**Ecological indicators at community and population level of corals in impacted and unimpacted sites at the west coast of Havana bay.**

\*González-Díaz, S.P.; \*G. González-Sansón and \*S. Álvarez Fernández

\*Center for Marine Research. University of Havana, Cuba. 16 Street, No 114, Miramar, Playa. Ciudad Habana. Cuba. Phone: 0537-2030617 [patricia@cim.uh.cu](mailto:patricia@cim.uh.cu)

The research was carried out between July 2006 and July of 2007 at four sites (two reference sites and two impacted sites) at the west coast of Havana bay. The biotope selected was a slope of reef. Our goal was to assess spatial and temporal ecological indicators at community and population level of

corals as indicators of anthropogenic disturbances. Selected indicators at community level was diversity of corals, substratum cover (corals and algae), species composition, density (corals, gorgonians and sponges); and at population level was density, population structure, and health before and after summer of *Siderastrea siderea* and *Montastraea cavernosa*. The main results show significance difference between impacted and unimpacted sites related to substratum cover of algae and corals, density of corals and gorgonians, diversity index and diameter (cm) for both species. Both species shows biggest size class in unimpacted sites and was healthier before summer. The site that shows less unhealthy colonies is in the entrance to Havana bay. This result is possible that is explained because the colonies that survive are very resistant or because the drastically conditions can't permit the existence of pathogens that cause disease in the reefs and the layer of pollutants to avoid the higher temperature that produce bleaching. The differences between reference and impacted sites emphasize the significance of use together ecological indicators as complementary indicators. The use of one or other can produce misses conclusions and, as a consequence, ineffective management.

**Poster 10.305, Alejandro Grajales**

**Holobiont Assemblages (symbiodinium Type And Coral Species) Shapes Caribbean Reefs Community Structure**

**Alejandro GRAJALES\*1**, Juan Armando SÁNCHEZ1  
1Biological Sciences, Universidad de los Andes, Bogotá, Colombia

Recent findings on coral reef community structure suggest that fine spatial-temporal stochasticity drives biodiversity patterns in coral reefs. The combination of coral and zooxanthella or holobiont may be the entity favored by certain fine combination of environmental factors. Moreover, coral community structure should be better understood using the holobiont as the community indivisible unit. Recent research in zooxanthellae (Symbiodinium) diversity has allowed the identification of specific or generalist host associations. The distribution of specific symbionts depends of the host identity and environmental conditions. This study determined the identity on these symbionts within hard corals communities (Scleractinia and Milleporina), at 28 stations on the upper slope habitat (mixed zone) in Cartagena, Colombia (Southern Caribbean). Zooxanthellae identification was made with RFLPs analysis (18S, SSU, rDNA), DGGE, and DNA sequencing (ITS2, rDNA). Intraand intercolony variation in the type of symbiont was found, depending on the coral host. After the identification of symbionts in each coral species, different combinations of coral species and their specific Symbiodinium types (holobionts) were determined as different ecological units. Taking each holobiont as a variable, a community structure analysis was made and compared to the obtained pattern from the distribution of the coral species alone. Different groups were formed in each cluster analysis, but the best community definition and higher similarities were found with the holobiont approach. Percentages and prevalence of some holobionts in the groups formed were indicative of the relevance of using this approach in the analysis of coral reef community structure. Since the dominant species *M. annularis* and *M. faveolata* are broadcast spawners, and their larvae must get zooxanthellae from the environmental pool, their relative abundance will depend on the availability of the different types of the symbionts for the larvae and their Symbiodinium preference can be under higher selection than previously thought.

#### **Poster 14.437, Robert Patterson**

##### **A Comparison Of Reef Fish Assemblages On The East And West Sides Of Eleuthera, Bahamas**

**Robert B. PATTERSON\***<sup>1</sup>, Lance K.B. JORDAN<sup>1,2</sup>, David R. BRYAN<sup>3</sup>, Richard E. SPIELER<sup>4,5</sup>

<sup>1</sup>Nova Southeastern University Oceanographic Center, Dania Beach, FL, <sup>2</sup>National Coral Reef Institute, Dania Beach, <sup>3</sup>National Coral Reef Institute, Dania Beach, FL, <sup>4</sup>National Coral Reef Inst., Nova Southeastern University Oceanographic Center, Dania Beach, FL, <sup>5</sup>Guy Harvey Research Institute, Dania Beach

Eleuthera is a long (144km), narrow (5km), crescent-shaped Atlantic margin island on the eastern edge of the Great Bahama Bank in the central Bahamas. Fringing reefs with vertical relief up to 5m in depths of 6m are found approximately 500m offshore from the eastern side of the island. The western side has stretches of rock cliffs and large submerged boulders providing reef habitat with similar vertical relief. Since no open passes exist through the island, no direct larval transport from one side to the other appears possible. We compared both post-settlement reef fish assemblages and larval supply on the east and west sides of central Eleuthera quarterly from July 2003 through July 2004. Twelve point-counts were performed at each of two replicate sites (3km apart) on both sides of the island to census post-settlement reef fishes. To examine larval supply, three light traps were moored 40–50m from the reef at each site for three nights bracketing the new moon. Point-count and light trap data indicate dissimilar assemblage structure on either side of the island with significantly greater abundance and species richness of reef fish on the eastern side. Neither resource limitation nor differential predation appears to account for all species-specific variability between sites. The two assemblages, despite close linear proximity, are likely under different hydrologic regimes and are supplied by different natal populations. Genetic analysis of several species present on both sides of the island is planned to examine this possibility.

#### **Poster 23.983, Fabián Pina Amargós**

##### **Effects of fishing activity reduction in Jardines de la Reina Marine Reserve, Cuba**

Fabián Pina Amargós<sup>1</sup>, Gaspar González Sansón<sup>2</sup>, Yureidi Cabrera Páez<sup>2</sup> y Pedro E. Cardoso Gómez<sup>1</sup>.

<sup>1</sup>Centro de Investigaciones de Ecosistemas Costeros, Cayo Coco, Morón, Ciego de Ávila, CP 69 400, Cuba.

fabian@ciec.fica.inf.cu, fabianpina@yahoo.es.

<sup>2</sup>Centro de Investigaciones Marinas, Ciudad de la Habana, Cuba. [ggs@cim.uh.cu](mailto:ggs@cim.uh.cu)

Several studies compare fisheries among areas under different fishing pressure (from heavily exploited to marine protected areas). However, few researches study fisheries quantitatively before the declaration of marine reserves to know the effects of this activity on fish communities before and after their establishment and very few focus on non commercial fisheries (game, collateral, poaching and subsistence). These aspects were studied on Jardines de la Reina archipelago, where the largest marine reserve of the Caribbean is located. We analysed catch and effort statistics and made underwater visual censuses, interviews and sampling of capture. The declaration of the marine reserve reduced fishing effort inside the reserve by about two thirds. One third of the original total

effort was completely eliminated but the other third was relocated to the surrounding zones near the reserve. As a consequence, total landings from the archipelago area were reduced by a third. Finfish fisheries made by lobster's fishermen and poachers boats are the most important harvesting activities inside the marine reserve. The homogeneous distribution of finfish catches through Jardines de la Reina archipelago before the declaration of the reserve and the strong relationship between catch and abundance after it, support the hypothesis of positive effects of the Jardines de la Reina Marine Reserve on the conservation of fisheries resources on this Cuban archipelago.

#### **Poster 23.992, Hitoshi Hasegawa**

##### **The Decline Of Coral Reef Conditions Caused By Extensive Land Modification: a Case Study Of The Shiraho Area On Ishigaki Island, Okinawa, Japan**

**Hitoshi HASEGAWA\***<sup>1</sup>

<sup>1</sup>Geography, Kokushikan University, Tokyo, Japan

Okinawa, which was under the U.S. administrative authority following the World War II, was returned to Japan in 1972. Thereafter, Okinawa was incorporated in the Japanese economy under the three Okinawa Development Plans in order to rapidly accomplish the social transformation that was lacking in area of great significance for Japan. In Okinawa, several land improvement projects were performed under this special development program, followed by large-scale topographic changes accompanying large-scale deforestation and a sudden change of the land use practices. As a result, red soil outflow, overloaded runoffs from the farmlands, eutrophication, environmental perturbations of shallow-water reef ecosystems and quasi-extinction of hermatypic corals occurred.

In this study, the impacts of the development process and change of land use patterns on Ishigaki Island after 1972 were reconstituted through land use mapping. Extensive land use maps and shallow lagoon maps were generated using the combination of a variety of topographical maps and chronological aerial photographs.

The Shiraho coral reef has been gradually changing. The ratio of the sea grass bed colonizing the coral reef moat in 1972 was only 1.2%. After about 30 years (2004), the sea grass bed spread over 7.5% of the same area. The sea grass bed spread most extensively in the place adjacent to land improvement projects where large accumulation of nutrients took place. The combination of the impact of land improvement projects, the excrement of artificial manure and the runoff flow to the moat from the beef cattle breeding caused the spatial extension of the sea grass bed. As sea grass grows faster spreading more extensively than hermatypic corals, corals are gradually being expelled from the shallow lagoon.

## EXHIBITS

### CANCELLATIONS

Boat Moorings  
Fathoms Magazine  
Touch Tank for Kids

### EXHIBITORS NOT LISTED IN THE PROGRAM

#### Association of Marine Laboratories of the Caribbean (AMLC)

##### Booth 303

2804 Gulf Drive N.  
Holmes Beach N, FL 34217  
Phone: 941 778-4650 Fax: 941 778-4650  
Web: [www.amlc-carib.org/](http://www.amlc-carib.org/)  
Email: [slegore@mindspring.com](mailto:slegore@mindspring.com)

The Association of Marine Laboratories of the Caribbean (AMLC) is an organization aimed at fostering communication and collaboration among researchers and research institutions throughout the wider Caribbean. We have over 30 institutional members. AMLC hosts a scientific meeting in alternate years that attracts coral reef researchers from around the world.

#### Coastal Planning & Engineering, Inc.

##### Booth 403

2481 Boca Raton Boulevard  
Boca Raton, FL 33431  
Phone: 561 391-8102  
Web: [www.coastalplanning.net](http://www.coastalplanning.net)  
Email: [abuchar@coastalplanning.net](mailto:abuchar@coastalplanning.net)

#### Fuhrman Diversified, Inc.

##### Booth 419

2912 Bayport Boulevard  
Seabrook, TX 77586  
Phone: 281 474-1388  
Fax: 281 474-1390  
Web: [www.fieldcam.com](http://www.fieldcam.com)  
Email: [fdi@flash.net](mailto:fdi@flash.net)

FIELD CAM custom closed circuit video systems are designed and manufactured by Fuhrman Diversified for all field, underwater, laboratory, scientific, educational and interactive applications since 1987.

Over 750 systems are in use on all seven continents including over 100 systems on endangered species projects. The new AUDTLV (Autonomous Underwater Time Lapse Video) system is presently in use on reefs in Chesapeake Bay and Midway Island.

#### Herbert W Hoover Foundation

##### Booth 613

220 Market Avenue S, Suite GL40  
Canton, OH 44702  
Phone: 330 453-5555 Fax: 330 453-5622  
Web: [www.hwhfoundation.org](http://www.hwhfoundation.org)  
Email: [herbertwhoover@neo.rr.com](mailto:herbertwhoover@neo.rr.com)

The Herbert W Hoover Foundation takes a leadership role in funding unique opportunities that provide solutions to issues related to the Community, Education, and the Environment.

#### Greater Fort Lauderdale Convention & Visitors Bureau Booth 313

100 E. Broward Boulevard, Suite 200  
Fort Lauderdale, FL 33301  
Phone: 954 767-2476 Fax: 954 765-4687  
Web: [www.sunny.org](http://www.sunny.org)  
Email: [ktortoriello@broward.org](mailto:ktortoriello@broward.org)

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#### Living Shores

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Phone: 727 596-8020 Fax: 727 596-8086  
Web: [www.seagrassrecovery.com](http://www.seagrassrecovery.com)  
Email: [kwright@seagrassrecovery.com](mailto:kwright@seagrassrecovery.com)

#### Ocean Research and Education Foundation Inc.: AGRRA Booth 318

4600 Rickenbacker Cswy  
Miami, FL 33134  
Phone: 305 421-4664  
Web: [www.agrra.org](http://www.agrra.org)  
Email: [rginsburg@rsmas.miami.edu](mailto:rginsburg@rsmas.miami.edu)

Ocean Research and Education Foundation Inc: AGRRA, the only regional assessment of Caribbean reef communities, with a new searchable database for 800+ sites. Plus video and charts of Mesophotic Reefs at 30-80 m, a new research frontier the regional extent of which rivals that of shallower-water reefs.

#### The Nature Conservancy

##### Booth 512

4245 North Fairfax Drive, Suite 100  
Arlington, VA 22203  
Phone: 703 841-5300  
Web: [www.nature.org](http://www.nature.org)  
Email: [hawaii@tnc.org](mailto:hawaii@tnc.org)

The Nature Conservancy is dedicated to protecting coral reef ecosystems and the people that rely on them. Guided by cutting-edge science and working with local communities, partners, and governments, the Conservancy applies innovative strategies for coral reef conservation. Publications, materials related to our coral reef conservation activities, and audio/visual resources will be available to visitors.

## **Pro-Oceanus Systems**

### **Booth 412**

665 LaHave Street  
Bridgewater, NS B4V2V2  
Canada  
Phone: 902 530-3550 Fax: 902 530-3551  
Web: [www.pro-oceanus.com](http://www.pro-oceanus.com)  
Email: [Jordan@pro-oceanus.com](mailto:Jordan@pro-oceanus.com)

Pro-Oceanus Systems Inc. provides exceptional precision and accuracy in our line of dissolved gas sensors. Our highly experienced and knowledgeable staff strives for excellence to make your project a success. Communication is the key, not only between the instruments and you, but between your team and ours.

## **The Reef Ball Foundation**

### **Booth 605**

3305 Edwards Court  
Greenville, NC 27858  
Phone: 941 720-7549  
Web: [www.reefball.org](http://www.reefball.org)  
Email: [reefball@reefball.com](mailto:reefball@reefball.com)

The Reef Ball Foundation is a 501(c) 3 publicly supported non-profit and international environmental NGO. The Foundation mission is to rehabilitate our world's ocean reef ecosystems and to protect our natural reef systems using Reef Ball artificial reef technologies. Reef Balls are artificial reef modules placed in the ocean to form reef habitat.

## **Reef Environmental Education Foundation**

### **Booth 508**

PO Box 246  
Key Largo, FL 33037  
Phone: 305 852-0030 Fax: 305 852-0301  
Web: [www.reef.org](http://www.reef.org) Email: [joe@reef.org](mailto:joe@reef.org)

The Reef Environmental Education Foundation (REEF) is an international, non-profit, marine conservation organization that develops and implements hands-on grassroots programs to engage local communities in conservation-focused activities. REEF links the diving community with scientists, resource managers and conservationists through marine-life data collection and related activities.

## **Reef Fest**

### **Booth 504**

4035 SW 15th Street, #F304  
Pompano Beach, FL 33069  
Phone: 954 317-2932 Fax: 954 623-7115  
Web: [www.reeffest.org](http://www.reeffest.org)  
Email: [erin@reeffest.org](mailto:erin@reeffest.org)

Reef Fest is a series of concerts and musical events to raise awareness for the need to conserve and protect coral reefs throughout the world. It is an official project of the International Year of the Reef, a global campaign undertaken by the International Coral Reef Initiative.

## **US DOC/CFMC**

### **Booth 609**

268 Muno 2 Rivera Avenue, Suite 1108  
San Juan, PR 00918  
Phone: 787 766-5926 Fax: 787 766-6239  
Web: [www.caribbeancfmc.com](http://www.caribbeancfmc.com)  
Email: [Diana\\_martino\\_cfm@yahoo.com](mailto:Diana_martino_cfm@yahoo.com)

## **U.S. Environmental Protection Agency**

### **Booth 416**

Mail Code: 4504T  
1200 Pennsylvania Avenue NW  
Washington, DC 20460  
Phone: 202 566-2129  
Email: [power.Lucinda@epa.gov](mailto:power.Lucinda@epa.gov)

U.S. EPA has numerous programs that contribute to coral reef protection. Primarily under the Clean Water Act, EPA provides grant funding and technical assistance to states and territories to control the impacts of land-based sources of pollution on coral reefs. In addition, EPA supports research on climate change and coral reefs. Finally, EPA is a member on the U.S. Coral Reef Task Force.

## **U.S. Geological Survey**

### **Booth 408**

12201 Sunrise Valley Drive  
Reston, VA 20192  
Phone: 304 724-4507 Fax: 304 724-4505  
Web: [www.usgs.gov](http://www.usgs.gov) Email: [gbrewer@usgs.gov](mailto:gbrewer@usgs.gov)

As a Bureau within the U.S. Department of the Interior, the U.S. Geological Survey (USGS) serves the Nation by providing reliable scientific information to describe and understand the earth. Multidisciplinary expertise enables USGS to conduct comprehensive research and monitoring of terrestrial, freshwater and marine resources, including investigations of shallow and deep coral ecosystems.

## **World Wildlife Fund**

### **Booth 219**

1250 24th Street, NW  
Washington, DC 20037  
Phone: 202 861-1184 Fax: 202 293-9211  
Web: [www.worldwildlife.org](http://www.worldwildlife.org)  
Email: [Helen.fox@wwfus.org](mailto:Helen.fox@wwfus.org)

For more than 45 years, WWF has been protecting the future of nature. The largest multinational conservation organization in the world, WWF works in 100 countries and is supported by 1.2 million members in the United States and close to 5 million globally. WWF's unique way of working combines global reach with a foundation in science, involves action at every level from local to global, and ensures the delivery of innovative solutions that meet the needs of both people and nature.

## **EDUCATION CENTER**

### **Biscayne Bay Aquatic Preserves, FDEP**

#### **Booth E11**

1277 NE 79<sup>th</sup> Street  
Miami, FL 33138  
Phone: 305 795-3485 Fax: 305 795-3470  
Web: [www.dep.state.fl.us/coastal/sites/biscayne](http://www.dep.state.fl.us/coastal/sites/biscayne)  
Email: [Marsha.Colbert@dep.state.fl.us](mailto:Marsha.Colbert@dep.state.fl.us)

Snapper, grouper, pink shrimp, and manatees live among the seagrass flats and mangrove islands that make up the 67,000 acres of the Biscayne Bay Aquatic Preserves. South Florida's Aquatic Preserves are two of forty-one preserves managed by the Florida Department of Environmental Protection's Office of Coastal and Aquatic Managed Areas.

### **Census of Coral Reef Ecosystems, Census Marine Life**

#### **Booth E4**

1601 Kapiolani Boulevard, Suite #1110  
Honolulu, HI 96814  
Phone: 808 944-2116 Fax: 808 941-8705  
Web: [www.creefs.org](http://www.creefs.org)  
Email: [bonnie.DeJoseph@noaa.gov](mailto:bonnie.DeJoseph@noaa.gov)

The Census of Marine Life, Census of Coral Reef Ecosystems (CReefs) project, in its effort to unite leading coral reef experts, is creating [www.creefs.org](http://www.creefs.org) as a biodiversity informational site. Join us in populating the CReefs Biodiversity Resource Locator, beginning with "People and Places", connecting institutions and individuals around the world.

### **Florida Park Service**

#### **Booth E8**

3900 Commonwealth Boulevard  
Tallahassee, FL 32399-3000  
Phone: 850 245-2154 Fax: 850 245-3091  
Web: [www.floridastateparks.org](http://www.floridastateparks.org)  
Email: [carlene.barrett@dep.state.fl.us](mailto:carlene.barrett@dep.state.fl.us)

Whether you enjoy hiking a rugged trail, kayaking an ancient river, sunbathing at the world's best beaches, learning about ancient cultures or helping to preserve fragile environments and ecosystems, you will find just the right setting at any one of Florida's 161 state parks. The mission of the Florida Park Service is to preserve and protect our natural and cultural resources and to provide recreational opportunities to park visitors. Visit us soon and often.

### **Marine Animal Rescue Society (MARS)**

#### **Booth E12**

PO Box 833356  
Miami, FL 33283  
Phone: 305 546-1111  
Web: [www.marineanimalrescue.org](http://www.marineanimalrescue.org)  
Email: [mars@marineanimalrescue.org](mailto:mars@marineanimalrescue.org)

Marine Animal Rescue Society is a nonprofit organization dedicated to the conservation of marine animals through, rescue, rehabilitation, research, and education. MARS holds a Letter of Agreement from NOAA to rescue, rehabilitate, and release whales and dolphins stranded in South Florida and from the US FWS to rescue injured manatees.

### **Ocean Conservancy**

#### **Booth E14**

1300 19th Street NW  
Washington, DC 20036  
Phone: 202 351-0441  
Web: [www.oceanconservancy.org](http://www.oceanconservancy.org)  
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Ocean Conservancy promotes healthy and diverse ocean ecosystems and opposes practices that threaten ocean life and human life. Through research, education, and science-based advocacy, Ocean Conservancy informs, inspires, and empowers people to speak and act on behalf of the oceans, striving to be the world's foremost advocate for the oceans.

#### **Disclaimer**

**Participation in the Exhibits Program does not constitute on endorsement by the participating societies of the claims, products, or services offered**

**11<sup>th</sup> ICRS  
EDUCATION CENTER PROGRAM  
IN THE CORAL THEATER**  
*Coral Theater Sponsored by the Southeast Florida Coral Reef Initiative (SEFCRI)*

**MONDAY, July 7, 2008**

**“Coral Reef Films and Videos”**

9:30 a.m. – 12:45 p.m.

**Agenda:**

- 9:30 – 10:15 a.m. Series of Short Films and Videos from the Southeast Florida Coral Reef Initiative (SEFCRI), National Oceanic and Atmospheric Administration (NOAA), National Fish and Wildlife Foundation (NFWF), National Park Service, Environmental Protection Agency (EPA), Everglades National Park, Florida Keys National Marine Sanctuary, Project Aware, Wyland Foundation, Synchro Swimming USA, For the Sea (Hawaii), ReefCheck, and The Body Glove
- 10:15 – 10:45 a.m. BBC World Earth Report (TV): Cold Coral Deep, United Nations Environment Programme
- 10:40 – 11:15 a.m. Waterways TV: “Adopt-a-Reef” and “Reef Medics”
- 11:15 – 11:45 a.m. Grouper Moon, by Reef Environmental Education Foundation (REEF) and the Cayman Islands Department of the Environment
- 11:45 a.m. – 12:15 p.m. A Fisher’s Journey, by Corinne McAfee, Daring or Nothing Productions; Juan M. Posada, Universidad Simón Bolívar; and William D. Heyman, Texas A&M University; with Dalston Samuels, Antigua and Barbuda
- 12:15 – 12:45 p.m. A Sea Change (an excerpt for preview), by Barbara Ettinger, Nijii Films

**“11<sup>th</sup> ICRS Photo Contest Award Presentations”**

12:45 – 1:00 p.m.

Wendy Wood, National Coral Reef Institute, will present awards to the top three winners in each category.

**“Special Film”**

1:00 – 1:45 p.m.

Symbiotic: Coral Bleaching as Told through Dance, by LINK Dance Foundation, introduced by Isabelle Côté and Michelle Paddock, Simon Fraser University

**“IYOR 2008 Celebration”**

2:00 – 4:30 p.m.

**Agenda:**

- 2:00 – 2:30 p.m. IYOR 2008: Activities around the World, by Francis Staub, ICRI, IYOR, and AJH Environmental Services
- 2:30 – 3:00 p.m. IYOR Brazilian Activities: Brazilian Coral Reef Projects, by Ana Paula Leite Prates, Brazilian Ministry of the Environment, Coastal and Marine Division
- 3:00 – 3:30 p.m. IYOR in the Union of the Comoros: Raising Coral Reef Awareness, by Chris Poonian, Community Centred Conservation
- 3:30 – 4:00 p.m. Pacific Students’ Action Plan: “Challenge: Coral Reef” Competition, by Caroline Vieux, Secretariat of the Pacific Regional Environment Programme
- 4:00 – 4:30 p.m. IYOR U.S. Public Service Announcements and U.S. Messaging Campaign by U.S. National Oceanic and Atmospheric Administration and the National Fish and Wildlife Foundation, by Stephanie Pendergrass, National Fish and Wildlife Foundation

**TUESDAY, July 8, 2008**

**“Educational Activities: For K-12 Teachers or Students”**

10:00 a.m. – 4:30 p.m.

**Agenda:**

- 10:00 – 11:00 a.m. Educational Resources for Coral Reef Awareness and Conservation, by Marci Wulff and Paulo Maurin, NOAA Coral Reef Conservation Program
- 11:00 – 11:30 a.m. Guardians of the Reef, by Romina King, Guam Coastal Management Program
- 11:30 a.m. – 12:00 p.m. A Strategy for Youth Engagement and Constituency Building: Virgin Islands Youth Summit on the Oceans, by Nick Drayton, Ocean Conservancy
- 12:00 – 1:00 p.m. Student Interviews of Scientists, Professors, and Other Professionals Who Work with Coral Reefs, by Students from Local Broward and Miami-Dade High Schools and Miami-Dade College
- 1:00 – 2:30 p.m. Lleve su Bolsita (Bring Your Own Bag) of Puerto Rico, by Brandi Todd, University of Puerto Rico
- 2:30 – 3:30 p.m. AWARE Kids’ Program for Educators and Dive Professionals: Marine Science & Conservation Activities for K–5<sup>th</sup>, by Jenny Miller Garmendia, Project AWARE Foundation
- 3:30 – 4:00 p.m. Supporting Coral Reefs through Environmental Monitoring, Restoration, and Education: “Students Can Do It!” by Students from MAST Academy High School, Advisor Mark Tohulka
- 4:00 – 4:30 p.m. South Florida Student Shark Program Using ROV Technology, by Students from South Broward High School, Advisors Sharon Thomas and Debra Hixon

**WEDNESDAY, July 9, 2008**

**“Focus: Florida”**

10:00 a.m. – 4 p.m.

**Agenda:**

- 10:00 – 11:00 a.m. The Smithsonian in Florida: Making Marine Research Available to Everyone, by Laura Diederick, Smithsonian Marine Station
- 11:00 – 12:00 noon Gifts from the Sea, by Gary Bremen, Biscayne National Park
- 12:00 – 12:15 p.m. Waterways TV: Biscayne National Park
- 12:15 – 1:00 p.m. Student Interviews of Scientists, Professors, and Other Professionals Who Work with Coral Reefs, by Students from Local Broward and Miami-Dade High Schools and Miami-Dade College
- 1:00 – 2:00 p.m. Stop the Spread of Non-Native Marine Species, by Maia McGuire, University of Florida Sea Grant
- 2:00 – 3:00 p.m. The Southeast Florida Coral Reef Initiative: A Regional Approach to Coral Reef Conservation, by Christopher Boykin, Florida Department of Environmental Protection, Coral Reef Conservation Program and Southeast Florida Coral Reef Initiative
- 3:00 – 3:30 p.m. *Acropora* Nursery & Restoration Project/ RECON Reef Assessment, by Students from Coral Shores High School, Advisors Dave Makepeace and Ken Nedimyer
- 3:30 – 4:00 p.m. Monitoring (Benthic and Fish Communities) Mitigation Reef Structures in Tampa Bay, Florida, USA, by Students from Scubanauts International, Advisors Walt Jaap, Jennifer Dupont, Christopher Moses, and David Palandro

**THURSDAY, July 10, 2008**

**“Coral Reef Conservation”**

10:00 a.m. – 2:30 p.m.

**Agenda:**

- 10:00 – 12:00 noon Jamaica’s Forgotten Frontier: Bringing Pedro Bank into the Conservation Fold, by Nathalie Zenny and Julianne Robinson, The Nature Conservancy
- 12:00 – 12:30 p.m. Demonstration of ReefBase Information Systems Focused on Coral Reef Resources & Management, by Moi Khim Tan and Pip Cohen, The WorldFish Center
- 12:30 – 1:00 p.m. Use of GPS-Based Techniques to Document Reef Fish Spawning Aggregations: Baselines and Future Change, by Patrick L. Colin, Coral Reef Research Foundation, and Terry J. Donaldson, University of Guam Marine Laboratory; on behalf of the Society of the Conservation of Reef Fish Aggregations
- 1:00 – 2:00 p.m. Demonstration of the CoralWatch Reef Monitoring Program for Educators and Dive Professionals, by Ania Budziak, Project AWARE Foundation, and Dave Logan, CoralWatch, University of Queensland
- 2:00 – 2:30 p.m. REEF Volunteer Fish Survey Project and Database, by Christy Pattengill-Semmens, Reef Environmental Education Foundation (REEF)