

## Program Agenda

### Tuesday, October 19, 2010

- 5:00pm - 7:00pm Registration Opens [*Ballroom Foyer & Reef Room*]
- 5:00pm - 6:30pm Informal Welcome Social - Session One Poster Presenters Put up Displays [*Key Deer, Sea Turtle, Manatee & Dolphin Deck*]
- 6:30pm - 7:30pm **Remembering Brian Keller**
- 8:00pm - 10:00pm Screening of the movie “**Sizzle: A Global Warming Comedy**” by Randy Olson

### Wednesday, October 20, 2010

- 7:00am - 5:30pm Registration Opens [*Ballroom Foyer & Reef Room*]
- 7:00am - 8:00am Morning Refreshments [*Key Deer, Sea Turtle, Manatee & Dolphin Deck*]

**8:00am - 10:00am** **Session I: Opening Plenary**  
*Moderator: John Hunt*, Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute, Marathon, FL

- 8:00am **Welcome, Introductions, Remembrances — John Hunt**, Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute, Marathon, FL
- 8:05am **Keynote Presentation — Jeremy Jackson**, Ritter Professor of Oceanography and Director of the Center for Marine Biodiversity and Conservation at the Scripps Institution of Oceanography, La Jolla, CA
- 9:00am **Today’s Management Challenges: Issues for the Keys Marine Ecosystem — Billy Causey**, NOAA’s Office of National Marine Sanctuaries, Southeast Atlantic, Gulf of Mexico and Caribbean Region, Key West, FL
- 9:30am **Human Dimensions and the Florida Keys National Marine Sanctuary (FKNMS): Reflections of Two Decades of Change in the Wider Socioeconomic Environment and Stakeholders in the Florida Keys — Manoj Shivlani**, NTVI, Center for Independent Experts, Miami, FL
- 10:00am Break [*Key Deer, Sea Turtle, Manatee & Dolphin Deck*]

**10:30am - 12:00pm** **Session II: Large-Scale Processes Affecting the Keys Marine Ecosystem**  
*Moderator: John Hunt*, Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute, Marathon, FL

- 10:30am **Physical Factors Driving the Oceanographic Regime around the Florida Keys — Villy Kourafalou**, Rosenstiel School of Marine and Atmospheric Science, University of Miami, Miami, FL
- 11:00am **Geological Underpinnings of Keys Reefs, from Jurassic Park to the Conch Republic — Gene Shinn**, University of South Florida, St. Petersburg, FL
- 11:30am **Florida’s Coral Reefs in a Caribbean Context — Rich Aronson**, Florida Institute of Technology, Melbourne, FL
- 12:00pm Lunch Provided [*The Terrace Restaurant*]

**Wednesday, October 20, 2010** (continued)

<b>1:10pm - 3:15pm</b>	<p><b>Session III: Present State of the Keys Marine Ecosystem</b>  <b>Moderator:</b> <i>Sarah Fangman</i>, NOAA's Office of National Marine Sanctuaries, Southeast Atlantic, Gulf of Mexico and Caribbean Region, Savannah, GA</p>
1:10pm	<p><b>Session Introduction</b> — <i>Sarah Fangman</i>, NOAA's Office of National Marine Sanctuaries, Southeast Atlantic, Gulf of Mexico and Caribbean Region, Savannah, GA</p>
1:15pm	<p><b>Compound Interest: The Value of Long-Term Water Quality Monitoring in the FKNMS</b> — <i>Joe Boyer</i>, Florida International University, Southeast Environmental Research Center, Miami, FL</p>
1:45pm	<p><b>Long-Term Monitoring of Benthic Community Structure Points Decadal-Scale Increases in Nutrient Availability in the Florida Keys</b> — <i>Jim Fourqurean</i>, Florida International University, Biological Sciences and SERC, North Miami, FL</p>
2:15pm	<p><b>Long-Term Changes in Benthic Community Composition Observed by CREMP in the FKNMS</b> — <i>Rob Ruzicka</i>, Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute, St. Petersburg, FL</p>
2:45pm	<p><b>Population Assessments of Benthic Coral Reef Organisms in the Florida Keys: 1999-2009</b> — <i>Steven Miller</i>, UNC Wilmington, Key Largo, FL</p>
3:15pm	<p>Break [<i>Key Deer, Sea Turtle, Manatee &amp; Dolphin Deck</i>]</p>
<b>3:30pm - 5:30pm</b>	<p><b>Session III: Present State and Change Over time of the Keys Ecosystem</b> (continued)  <b>Moderator:</b> <i>Sarah Fangman</i>, NOAA's Office of National Marine Sanctuaries, Southeast Atlantic, Gulf of Mexico and Caribbean Region, Savannah, GA</p>
3:30pm	<p><b>Fishery Dynamics of the South Florida Marine Ecosystem</b> — <i>Jerry Ault</i>, Rosenstiel School of Marine and Atmospheric Science, University of Miami, Miami, FL</p>
4:00pm	<p><b>Science and Policy Considerations for Coastal and Marine Spatial Planning in Florida and the Wider Caribbean</b> — <i>John Ogden</i>, University of South Florida, St. Petersburg, FL</p>
4:30pm	<p>Panel Discussion</p>
5:30pm - 8:00pm	<p>Poster Session One &amp; Networking Social  <i>[Key Deer, Sea Turtle, Manatee &amp; Dolphin Deck]</i>  <b>NOTE: Session One presenters to remove poster displays upon conclusion.</b></p>

**Thursday, October 21, 2010**

7:00am - 5:30pm Registration Opens [*Ballroom Foyer & Reef Room*]

7:00am - 8:00am Morning Refreshments [*Key Deer, Sea Turtle, Manatee & Dolphin Deck*]

**8:00am - 10:00am Session IV: Coral Reef Ecology and Restoration**  
 Moderator: *Kim Ritchie*, Mote Marine Laboratory, Sarasota, FL

- 8:00am **Spatial Dynamics of Scleractinian Coral Populations in the Florida Keys — *Dione Swanson***, Rosenstiel School of Marine and Atmospheric Science, University of Miami, Miami, FL
- 8:15am ***Acropora* Coral Species Status and Trends in Dry Tortugas National Park (DTNP) — *Douglas Morrison***, Dry Tortugas National Park, South Florida Natural Resources Center, Homestead, FL
- 8:30am ***Acropora cervicornis* Restoration: Coral Restoration Foundation's Seven-Year Summary for the Upper Keys — *Katie Grablow***, Coral Restoration Foundation, Tavernier, FL
- 8:45am **Testing Coral Transplant Performance: Aquarius Coral Restoration/Resilience Experiments (ACRRE) — *Margaret Miller***, NOAA/NMFS, Southeast Fisheries Science Center, Miami, FL
- 9:00am **Drivers of Population Decline in *Acropora palmata* in the Florida Keys National Marine Sanctuary — *Dana Williams***, Rosenstiel School of Marine and Atmospheric Science, University of Miami, Miami, FL
- 9:15am **Coral Reefs of the Lower Florida Keys (1970-1974): A Re-analysis — *Steven Miller***, UNC Wilmington, Key Largo, FL
- 9:30am **Fertilization Ecology and Early Life Stages in Threatened Caribbean Acroporid Corals — *Nicole Fogarty***, Smithsonian Marine Station, Fort Pierce, FL
- 9:45am **Variation in the Genetic Response to High Temperatures in *Montastraea faveolata* Embryos from the Florida Keys and Mexico — *Nicholas Polato***, Penn State University, Department of Biology, University Park, PA
- 10:00am Break [*Key Deer, Sea Turtle, Manatee & Dolphin Deck*]

**10:30am - 12:45pm Session IV: Coral Reef Ecology and Restoration (continued)**  
 Moderator: *Kim Ritchie*, Mote Marine Laboratory, Sarasota, FL

- 10:30am **Towards a Better Understanding of Coral Recruitment — *Raphael Ritson-Williams***, Smithsonian Marine Station, Fort Pierce, FL
- 10:45am **Using Early Life Stages of Hard Corals to Understand Coral-Bacterial Relationships — *Koty Sharp***, Ocean Genome Legacy, Ipswich, MA
- 11:00am **Gene Transfer Agents in the Reef Environment — *John Paul***, University of South Florida, College of Marine Science, St. Petersburg, FL
- 11:15am **Using Microarrays to Compare Bacterial Community Changes between Healthy and Diseased Corals — *Christina Kellogg***, US Geological Survey, St. Petersburg Coastal and Marine Science Center, St. Petersburg, FL
- 11:30am **Black Band Disease Pathogenesis and Impacts in the Florida Keys — *Joshua Voss***, Harbor Branch Oceanographic Institute at Florida Atlantic University, Fort Pierce, FL

**Thursday, October 21, 2010** (continued)

- 11:45am **Ecological Impacts of Sponge Nutrient Cycling on the Florida Keys Reef Ecosystem** — *Patrick Gibson*, University of North Carolina at Chapel Hill, Department of Marine Sciences, Chapel Hill, NC
- 12:00pm **Florida’s “Redwood of the Reef”: Growth, Age, Demographics and Bleaching of the Caribbean Giant Barrel Sponge, *Xestospongia*** — *Joseph Pawlik*, University of North Carolina Wilmington, Wilmington, NC
- 12:15pm Panel Discussion
- 12:30pm - 2:00pm Lunch Provided [*The Terrace Restaurant*]

**2:00pm - 3:45pm** **Session V: Climate Change and the Florida Keys Marine Ecosystem**  
 Moderator: *Jim Fourqurean*, Florida International University, Biological Sciences and SERC, North Miami, FL

- 2:00pm **Ocean Heat Budget for the Florida Reef Tract: Methods, Climatology, and the Thermal Siphon** — *Lewis Gramer*, University of Miami, Cooperative Institute for Marine and Atmospheric Studies, Miami, FL
- 2:15pm **Sea Surface Temperature, Salinity, and Chlorophyll Variability in the Florida Keys and Surrounding Coastal Waters, 1997 - 2010: Means, Seasonal Patterns, Interannual Variability, and Extreme Events** — *Elizabeth Johns*, NOAA/AOML, Miami, FL
- 2:30pm **Application of Downscaled Climate Models to the Florida Keys and Florida Bay Marine Ecosystems** — *Barbara Muhling*, University of Miami, Cooperative Institute for Marine and Atmospheric Studies, Miami, FL
- 2:45pm **Responses of a Nearshore Seagrass Community to In Situ CO<sub>2</sub> Fertilization** — *Justin Campbell*, Florida International University, Biological Sciences, North Miami, FL
- 3:00pm **Halimeda Dynamics Relative to Nutrients Availability in the Florida Keys National Marine Sanctuary: A Good Indicator of Productivity and Acidification** — *Ligia Collado-Vides*, Florida International University, Biological Sciences and SERC, Miami, FL
- 3:15pm **Calcification in a Changing Ocean Environment** — *Ilsa Kuffner*, US Geological Survey, St. Petersburg, FL
- 3:30pm **Coral Sclerochronology in the Florida Keys: Historical Variability, Climate Change, and Ocean Acidification** — *Kevin Helmle*, University of Miami, Cooperative Institute for Marine and Atmospheric Studies and NOAA/AOML, Miami, FL
- 3:45pm-4:15pm Break [*Key Deer, Sea Turtle, Manatee & Dolphin Deck*]

**Thursday, October 21, 2010** (continued)

<b>4:15pm - 5:30pm</b>	<b>Session V: Climate Change and the Florida Keys Marine Ecosystem</b> (continued) <i>Moderator: Jim Fourqurean</i> , Florida International University, Biological Sciences and SERC, North Miami, FL
4:15pm	<b>Forecasting Coral Bleaching Weather for the Florida Reef Tract — Tyler Christensen</b> , NOAA Coral Reef Watch, Silver Spring, MD
4:30pm	<b>An Assessment of Five Years of Large Scale Coral Bleaching Monitoring across the South Florida Reef Tract — Meaghan Johnson</b> , The Nature Conservancy, Sugarloaf Key, FL
4:45pm	<b>Catastrophic Mortality on Inshore Reefs of the Florida Keys: Cold Water Physiology of Three Common Reef-Building Corals — Dustin Kemp</b> , University of Georgia, Odum School of Ecology, Athens, FL
5:00pm	Panel Discussion
5:30pm - 8:00pm	Poster Session Two & Networking Social [Key Deer, Sea Turtle, Manatee & Dolphin Deck]

**Friday, October 22, 2010**

<b>8:00am - 9:30am</b>	<b>Session VI: Food Webs, Trophic Cascade, and Population Ecology</b> <i>Moderator: Kristen Hart</i> , US Geological Survey, Southeast Ecological Science Center, Davie, FL
8:00am	<b>How to Disassemble a Coral Reef: Historical Declines in Florida Keys' Reef Ecosystems — Loren McClenachan</b> , Scripps Institution of Oceanography, La Jolla, CA
8:15am	<b>From the Macro to the Micro: Testing the Cascading Effects of Nutrient Pollution and Over-Fishing on Multiple Levels of Coral Reef Biodiversity — Deron Burkpile</b> , Florida International University, Biological Sciences, North Miami, FL
8:30am	<b>A Bay Anchovy Induced Trophic Cascade in Florida Bay — Christopher Kelble</b> , University of Miami, Cooperative Institute for Marine and Atmospheric Studies and NOAA/AOML, Miami, FL
8:45am	<b>Impacts of the Spotted Spiny Lobster (<i>Panulirus guttatus</i>) on Coral Patch Reef Communities of the Florida Keys — Meredith Kintzing</b> , Old Dominion University, Norfolk, VA
9:00am	<b>Impact of Mass Sponge Mortality and Juvenile Density on Spiny Lobster Recruitment in Florida Bay — Michael Childress</b> , Clemson University, Biological Sciences, Clemson, SC
9:15am	<b>Thirty Years of Change in Reef Fish Communities in the Florida Keys: Results from a Long-Term Monitoring Program — Benjamin Ruttenberg</b> , NOAA/NMFS, Southeast Fisheries Science Center, Miami, FL
9:30am	Panel Discussion

**Friday, October 22, 2010** (continued)

<b>9:45am - 10:30am</b>	<b>Session VI: Connectivity and the Efficacy of No-take Marine Reserves</b> <i>Moderator: David Hallac</i> , Everglades and Dry Tortugas National Parks, Homestead, FL
9:45am	<b>Spawning Aggregations and Migration Patterns of Mutton Snapper in Dry Tortugas, Florida</b> — <i>Michael Feeley</i> , Florida Fish & Wildlife Conservation Commission, Fish & Wildlife Research Institute, Marathon, FL
10:00am	<b>Connectivity, Environmental Degradation, and Behavioral Influences on Disease in Lobster</b> — <i>Donald Behringer</i> , Program in Fisheries & Aquatic Sciences, University of Florida, Gainesville, FL
10:15am	<b>Persistence of Dispersal Kernel Features in the Florida Keys under Average and Extreme Climatic Conditions</b> — <i>Claire Paris</i> , Applied Marine Physics, Miami, FL
10:30am - 11:00am	Break [ <i>Key Deer, Sea Turtle, Manatee &amp; Dolphin Deck</i> ] <b>NOTE: Session Two presenters to remove poster displays upon conclusion.</b>
<b>11:00am - 12:30pm</b>	<b>Session VI: Connectivity and the Efficacy of No-take Marine Reserves</b> (continued) <i>Moderator: David Hallac</i> , Everglades and Dry Tortugas National Parks, Homestead, FL
11:00am	<b>Larval Reef Fish Assemblages in the Florida Keys and the Influence of Mesoscale Eddies</b> — <i>Kathryn Shulzitski</i> , Rosenstiel School of Marine and Atmospheric Science, University of Miami, Marine Biology and Fisheries Department, Miami, FL
11:15am	<b>Condition of Coral Reef Fish Larvae along the Florida Keys Shelf: Implications for Connectivity</b> — <i>Martha Hauff</i> , Rosenstiel School of Marine and Atmospheric Science, University of Miami, Marine Biology and Fisheries Department, Miami, FL
11:30am	<b>Population Connectivity of Coral Reef Fishes along the Florida Keys Shelf: An Integrated Field and Modeling Analysis</b> — <i>Su Sponaugle</i> , Rosenstiel School of Marine and Atmospheric Science, University of Miami, Marine Biology and Fisheries Department, Miami, FL
11:45am	<b>Why Sanctuary Preservation Areas (SPAs) are Necessary for the Sustainable Management of Queen Conch in the Florida Keys</b> — <i>Robert Glazer</i> , Florida Fish & Wildlife Conservation Commission, Fish & Wildlife Research Institute, Marathon, FL
12:00pm	<b>Spiny Lobster Movement and Population Metrics at the Western Sambo Ecological Reserve</b> — <i>Rodney Bertelsen</i> , Florida Fish & Wildlife Conservation Commission, Fish & Wildlife Research Institute, Marathon, FL
12:15pm	<b>Coral Reef Fishes within the Dry Tortugas National Park: Effects of Three Years of Protection by the Research Natural Area</b> — <i>Sean Keenan</i> , Florida Fish & Wildlife Conservation Commission, Fish & Wildlife Research Institute, Marathon, FL
12:30pm-2:00pm	Lunch Provided [ <i>The Terrace Restaurant</i> ] <b>NOTE: Poster boards will be removed by exhibit services vendor at this time.</b>

**Friday, October 22, 2010** (continued)

<b>2:00pm - 3:15pm</b>	<b>Session VI: Connectivity and the Efficacy of No-take Marine Reserves</b> (continued) <i>Moderator: David Hallac</i> , Everglades and Dry Tortugas National Parks, Homestead, FL
2:00pm	<b>Biodiversity and Ecosystem Function of Shallow Bank Systems within the Florida Keys National Marine Sanctuary</b> — <i>John Burke</i> , NOAA, NOS, CCFHR, Beaufort, NC
2:15pm	<b>Responses of Benthic Coral Reef Organisms to the Zoning Action Plan for the Florida Keys National Marine Sanctuary</b> — <i>Mark Chiappone</i> , University of North Carolina-Wilmington, Center for Marine Science, Key Largo, FL
2:30pm	<b>Coral Loss and the Long-Term Effects of No-Take Reserves on Florida's Coral Reefs</b> — <i>Lauren Toth</i> , Florida Institute of Technology, Biological Sciences Department, Melbourne, FL
2:45pm	Panel Discussion
3:15pm - 3:45pm	Break [ <i>Key Deer, Sea Turtle, Manatee &amp; Dolphin Deck</i> ]
<b>3:45pm - 5:00pm</b>	<b>Session VII: Science Synthesis for Managers</b> <i>Moderator: John Hunt</i> , Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute, Marathon, FL
3:45pm	<b>A Decision Support System for Ecosystem-Based Management of Tropical Coral Reef Environments</b> — <i>Frank Muller-Karger</i> , University of South Florida, College of Marine Science, St. Petersburg, FL
3:55pm	<b>Incorporating Ecosystem Services into Coastal and Watershed Management</b> — <i>Patricia Bradley</i> , US EPA, Office of Research and Development, Key West, FL
4:05pm	<b>Ecological Scorecards: A Powerful Communication Tool Capable of Distilling Complex Technical Information into a Format Useable by Many</b> — <i>Robert Brock</i> , National Oceanic & Atmospheric Administration, National Marine Protected Areas Center, Silver Spring, MD
4:15pm	<b>Methods and Benefits of Incorporating Human Dimensions into Integrated Conceptual Ecosystem Models</b> — <i>Grace Johns</i> , Hazen and Sawyer, Hollywood, FL
4:25pm	<b>An Assessment of Science Needs Based on an Integrated Conceptual Ecosystem Model of the Florida Keys: The MARES Project</b> — <i>Peter Ortner</i> , Rosenstiel School of Marine and Atmospheric Science, University of Miami, Miami, FL
4:35pm	Panel Discussion
5:00pm	Conference Concludes