## **TENTATIVE AGENDA**



## https://conference.ifas.ufl.edu/floridakeys/

The Florida Keys are one of the most iconic places in the Unites States. Not only are the islands themselves rich with culture and natural beauty, but the Florida Keys region serves as a biodiversity hotspot, supporting life stages for numerous marine organisms, including nurseries to spawning grounds. The area also supports economically valuable recreational and commercial fisheries, which contribute hundreds of millions of dollars annually to the local and statewide economy.

This marine ecosystem is grappling with a combination of stressors, including marine heat waves, habitat degradation, pollution, and intense resource use, leading to significant ecosystem-wide shifts. These changes include widespread sponge die-offs, coral losses driven by bleaching and disease, eutrophication caused by non-point source pollution, and fish kills linked to harmful algal blooms and extreme heat events. These impacts jeopardize not only the ecological health of the region but also the sustainability of its culturally and economically vital fisheries.

The Florida Keys Marine Science Conference and Workshop unites scientists, natural resource managers, resource users and other interested parties to assess the current state of the ecosystem and engage in meaningful discussions about future research, management, and restoration priorities. As the largest gathering in a decade focused exclusively on the Florida Keys Marine Ecosystem, it offers a unique opportunity to expand collaboration and work collectively toward achieving the best outcomes for the Florida Keys marine environment.

Join us and be a part of the conversation.

	Monday, October 27, 2025	
4:00 PM - 6:30 PM	Conference Registration Opens Sponsors/Exhibitors and GROUP 1 Poster Presenters Move-In Displays	
5:00 PM - 6:30 PM	Welcome & Networking Social	
	Tuesday, October 28, 2025	
7:00 AM - 5:00 PM	Conference Registration Open	
7:30 AM - 8:15 AM	Morning Refreshments in Exhibit and Poster Hall	
8:15 AM - 10:00 AM	Opening Plenary – Setting the Stage (Grand Floridian Ballroom) <u>Welcome and Opening Remarks</u> 8:15 am - Danielle Morley, Conference Chair, Research Administrator I	
	Florida Fish and Wildlife Conservation Commission, Marathon, Florida	
	8:25 am - <b>Dr. Steve Gittings,</b> Retired Science Coordinator, NOAA Office of National Marine Sanctuaries, Dayton, MD 9:05 am - <b>Dr. Mark J. Butler IV</b> , Professor and Eminent Scholar - Retired, Newfound Harbor Marine Institute, Big Pine Key, FL	
	9:30 am - <b>Dr. James W. Fourqurean</b> , Distinguished University Professor and Director of the Coastlines and Oceans Division Florida International University – Institute of Environment, North Miami, FL	
	9:50 am <b>- Q&amp;A</b>	
10:00AM - 10:30AM	Refreshment Break in Exhibit and Poster Hall	

	Tuesday, October	28, 2025
	CONCURRENT SESSIONS - 10:30 AM - 12:00 PM	
	SESSION 1	SESSION 2
	Grand Cypress	Royal Poinciana
	Understanding Changes in Coral Community Structure and Function Over Time	Assessing Shifting Dynamics in Fish and Fisheries Management
	<b>Kimberly Ritchie</b> University of South Carolina, Beaufort, South Carolina	<b>Danielle Morley</b> Florida Fish and Wildlife Research Institute, Marathon, Florida
10:30 AM	Opening Remarks	Opening Remarks
	The National Coral Reef Monitoring Program's Environmental Monitoring in the Florida Keys National Marine Sanctuary	Multidecadal Analysis of Fish Community Change Across the Florida Keys Reef Tract
10:35 AM	<b>Nicole Besemer</b> NOAA/Atlantic Oceanographic and Meteorological Laboratory, Miami, Florida	<b>Dakota Lewis</b> University of Florida, Gainesville, Florida
	The Boom and Bust of Coral Reef Accretion Potential Associated with Restoration and Coral Bleaching	Length-Based Risk Analysis of Management Options for the Southern Florida USA Multispecies Coral Reef Fishery
10:50 AM	<b>Dr. Lauren Toth</b> US Geological Survey, St. Petersburg, Florida	<b>Dr. Jerald Ault</b> University of Miami, Miami, Florida
	Octocoral Population Response and Recovery to Reef Disturbances	Decades of Dedication: Fish Spawning Aggregation Research in the Florida Keys
11:05 AM	Lindsay Huebner University of Miami Cooperative Institute for Marine and Atmospheric Science, Miami, Florida	<b>Danielle Morley</b> Florida Fish and Wildlife Conservation Commission/Fish and Wildlife Research Institute, Marathon, Florida
	Assessing the Long-Term Growth and Survival of Boulder Corals Outplanted in the Florida Keys	Integrated Science for Atlantic Tarpon Conservation in the Florida Keys
11:20 AM	<b>Dr. Lindsay Spiers</b> Florida Fish and Wildlife Conservation Commission, Marathon, Florida	<b>Dr. Lucas Griffin</b> University of South Florida, Tampa, Florida
	The Last Genotypes: Elkhorn Coral Demography, Genotypic Diversity, and Restoration in Florida	Incorporating Mutton Snapper Spawning Aggregation Data Reveals Differential Estimates of Biological and Behavioral Reproductive Size-at-Maturity
11:35 AM	<b>Dr. Mark Ladd</b> NOAA/Southeast Fisheries Science Center, Miami, Florida	<b>Jesse Secord+D44</b> Florida Fish and Wildlife Conservation Commission, Marathon, Florida
11:50 AM	Discussion Period	Discussion Period
12:00PM - 1:30PM	Networking Lunch I	Buffet for Attendees

	Tuesday, October 28, 2025	
	CONCURRENT SESSIONS - 1:30 PM - 3:00 PM	
	SESSION 3	SESSION 4
	Grand Cypress	Royal Poinciana
	Science for Species at Risk: Research on Imperiled Wildlife in the Region	Shifts and Strategies for Seagrass, Sponges, and Nearshore Hardbottom Habitats
	<b>Dr. Kristen Hart</b> US Geological Survey, Davie, Florida	<b>Shelly Krueger</b> Florida Sea Grant/University of Florida, Key West, Florida
1:30 PM	Opening Remarks	Opening Remarks
	Biodiversity Hotspots of Satellite-Tracked Marine Turtles in the Florida Keys National Marine Sanctuary	The Potential of South Florida Seagrass Meadows as Natural Climate Solutions
1:35 PM	Dr. Kristen Hart US Geological Survey, Davie, Florida	<b>Dr. Johannes Krause</b> Florida International University, Miami, Florida
	Smalltooth Sawfish: 15 Years of Research to Promote Recovery of a Critically Endangered Species	What Happens in Florida Bay Does Not Stay in Florida Bay: Seagrass Die-Off Under Climate Change
1:50 PM	<b>Dr. Dean Grubbs</b> Florida State University Coastal and Marine Laboratory, St. Teresa, Florida	<b>Dr. Marguerite Koch</b> Florida Atlantic University, Boca Raton, Florida
	Eighteen Years of Goliath Grouper Research in Florida: Documenting the Recovery of an Iconic Fish	Development of a Sponge Restoration Strategy for Florida Bay
2:05 PM	<b>Dr. Robert Ellis</b> Florida Fish and Wildlife Research Institute, St. Petersburg, Florida	<b>William Sharp</b> Florida Fish and Wildlife Conservation Commission, Marathon, Florida
	Horror, Homing and Habituation: Effects of Translocation Between Aggregations of Queen Conch in the FKNMS	Hallow Havens: Documenting a Decline of Solution Hole Habitats in Florida Bay
2:20 PM	<b>Dr. Andrew Kough</b> John G. Shedd Aquarium, Chicago, Illinois	<b>William Bigelow</b> Florida Fish and Wildlife Conservation Commission, Marathon, Florida
	Migratory Patterns and Seasonal Habitat Use of Great Hammerhead Sharks ( <i>Sphyrna mokarran</i> ) in the Southeastern United States	Seagrass Non-Cryptic Fish Assemblage Across the Florida Keys National Marine Sanctuary - USA Seascape
2:35 PM	Ben Daughtry Aquarium Encounters/Dynasty Marine, Marathon, Florida	Paula Pabon Quintero Florida International University, North Miami, Florida
2:50 PM	Discussion Period	Discussion Period
3:00PM - 3:30PM	Refreshment Break in	Exhibit and Poster Hall

	Tuesday, October	28, 2025
	CONCURRENT SESSIONS - 3:30 PM - 5:00 PM	
	SESSION 5	SESSION 6
	Grand Cypress	Royal Poinciana
	Mystery in Motion: The Spinning Fish and Sawfish Mortality Event in the Florida Keys	Voices of the Keys: Integrating Communities, Science, and Stewardship
	<b>Dr. Michael Parsons</b> Florida Gulf Coast University, Ft. Myers, Florida	<b>Dr. Manoj Shivlani</b> University of Miami, Miami, Florida
3:30 PM	Opening Remarks	Opening Remarks
	The Dance of Death Returns: Keys Spinning Fish Event, Historical Context and Overview from FWC	Getting the Water Right: Economic Links Between Everglades Restoration and the Florida Keys
3:35 PM	<b>Micah Bakenhaster</b> Florida Fish & Wildlife Conservation Commission, St. Petersburg, Florida	<b>Dr. Paul Hindsley</b> The Everglades Foundation, Palmetto Bay, Florida
	Benthic Dinoflagellates, Spinning Fish, and Sawfish Mortalities: Is There a Connection?	Moving Beyond Ecology: Valuing Restoration Success with Socioeconomics
3:50 PM	<b>Dr. Michael Parsons</b> Florida Gulf Coast University, Fort Myers, Florida	Madeline Rothwell Coral Restoration Foundation, Tavernier, Florida
4:05 PM	Pioneering a First-in-Kind, Fishing Guide-Led Model for Rapid Scientific and Ecological Response	Florida's Marine Aquarium Fishery: Integrating Regulatory Strengths with Fisher Engagement for Coral Reef Conservation
	Allison Delashmit Key West and Lower Keys Fishing Guides Association, Summerland Key, Florida	<b>Dr. Paul Anderson</b> Aquarium Fisheries, Groton, Connecticut
	Spinning Sawfish in the Florida Keys: Weather Conditions, Movements, and Mortality	The Human Side of Spiny Lobsters: Situation Assessment of the Commercial Fishery
4:20 PM	<b>Dr. Gregg Poulakis</b> Florida Fish and Wildlife Conservation Commission, Port Charlotte, Florida	<b>Dr. May Lehmensiek</b> Florida Fish and Wildlife Conservation Commission/Fish and Wildlife Research Institute, Marathon, Florida
	Seascape and Food Web Impacts of the Fish Spinning Phenomenon in the Florida Keys	Collaborative Fisheries Science with a SMILE (Size Matters: Innovative Length Estimates)
4:35 PM	<b>Dr. W. Ryan James</b> Florida International University, Miami, Florida	<b>Dr. Jennifer Loch</b> REEF/Reef Environmental Education Foundation, Key Largo, Florida
4:50 PM	Discussion Period	Discussion Period
5:00PM - 7:30PM	Poster Session & Network (hors d'oeuvres & b	king Reception - GROUP 1 Deverages provided)

	Wednesday, Octobe	er 29, 2025
7:00 AM - 5:00 PM	Conference Registration Open	
7:30 AM - 8:30 AM	Morning Refreshments in Exhibit and Poster Hall	
	CONCURRENT SESSIO	NS - 8:30 AM - 10:00 AM
	SESSION 7 SESSION 8	
	Grand Cypress	Royal Poinciana
	Coral Reef Restoration Interventions to Mitigate Stressors	Emerging Technologies and Techniques for Improving Science in the Florida Keys
	<b>Dr. Andy Bruckner</b> NOAA/Florida Keys National Marine Sanctuary, Key Largo, Florida	<b>Dr. Benjamin Binder</b> Florida International University, North Miami, Florida
8:30 AM	Opening Remarks	Opening Remarks
	Building Capacity for Resilience on Florida's Coral Reef Through Coral Rescue and Propagation	The Aquarius Coral Reef Observatory: A Flexible Remote Sensing Solution in the Florida Keys
8:35 AM	<b>Stephanie Schopmeyer</b> Florida Fish & Wildlife Conservation Commission, St. Petersburg, Florida	<b>Dr. Benjamin Binder</b> Florida International University, North Miami Beach, Florida
	Diadema antillarum Production and Distribution to Florida Partners – Creating a Growout and Stocking Network	Prototyping a Modular Autonomous Data Buoy for Video and Data Monitoring in the Florida Keys
8:50 AM	<b>Dr. Joshua Patterson</b> University of Florida, Apollo Beach, Florida	<b>Lauren Gentry</b> Florida Fish and Wildlife Research Institute, St. Petersburg, Florida
	Developing SNP Based Genomic Markers for 20 Scleractinian Caribbean Corals	Novel Methods for Tracking Shell-Crushing Predation in the Florida Keys
9:05 AM	Alicia Vollmer Florida Fish and Wildlife Conservation Commission, St. Petersburg, Florida	<b>Dr. Matthew Ajemian</b> Florida Atlantic University Harbor Branch Oceanographic Institute, Fort Pierce, Florida
	Restoration Under Stress: Understanding Bleaching Risk in Large-Scale Coral Outplanting	Developing a Machine Learning-Powered Boat Detector for Underwater Acoustic Data
9:20 AM	<b>Nicole Merck</b> Florida Fish and Wildlife Conservation Commission, Marathon, Florida	<b>Dr. David Kochan</b> Florida Fish and Wildlife Conservation Commission, St. Petersburg, Florida
	Restoration Strategies are Preventing the Local Extirpation of Florida's Acropora Species	Assessing Coastal Blue Carbon Residence Times Using Radiocarbon Techniques
9:35 AM	<b>Dr. Erinn Muller</b> Mote Marine Laboratory, Sarasota, Florida	<b>Dr. Amy Scott</b> SGS Beta, Miami, Florida
9:50 AM	Discussion Period	Discussion Period
10:00AM - 10:30AM	Refreshment Break in Exhibit and Poster Hall GROUP 1 Posters Removed	

	Wednesday, October 29, 2025		
	CONCURRENT SESSIONS - 10:30 AM - 12:00 PM		
	SESSION 9	SESSION 10	
	Grand Cypress	Royal Poinciana	
	Benthic Biodiversity in Flux: Changes in Invertebrate Communities	From Flats to Reefs: Spatial Ecology of Fishes in the Florida Keys	
	<b>William Sharp</b> Florida Fish and Wildlife Conservation Commission, Marathon, Florida	<b>Dr. Lucas Griffin</b> University of South Florida, Tampa, Florida	
10:30 AM	Opening Remarks	Opening Remarks	
	Drivers of Spiny Lobster ( <i>Panulirus argus</i> ) Population Trends and Emerging Risks to Sustainability in Florida	Movement, Home Range, and Habitat Selection of Mesopredators in the Florida Keys National Marine Sanctuary	
10:35 AM	<b>Thomas Matthews</b> Florida Fish and Wildlife Conservation Commission, Marathon, Florida	<b>Dr. Margaret Malone</b> Florida International University, North Miami, Florida	
	From Nurseries to Reefs: Spiny Lobsters as Lenses of Habitat Degradation in the Florida Keys	Longterm Use of a Shark Breeding Ground: Three Decades of Mating Site Fidelity in the Nurse Shark	
10:50 AM	<b>Casey Butler</b> Florida Fish and Wildlife Conservation Commission/Fish and Wildlife Research Institute, Florida International University, Marathon, Florida	<b>Dr. Nicholas Whitney</b> New England Aquarium, Boston, Massachusetts	
	A Regional Survey of Clypeasteroid and Spatangoid Echinoids of the Central Florida Keys	Movement, Habitat Use, and Seasonality of Coastal Sharks in the Lower Florida Keys	
11:05 AM	<b>Prof. Michael Kowalewski</b> University of Florida, Gainesville, Florida	<b>Dr. Matthew Smukall</b> Bimini Biological Field Station, Hollywood, Florida	
	Will Stone Crab Larvae Be Able to Swim Away From Their Future Climate Troubles?	Permit Spatial Ecology at Western Dry Rocks: Insights from a Newly Established Seasonal Fishing Closure in the Florida Keys	
11:20 AM	<b>Prof. Philip Gravinese</b> Eckerd College, St. Petersburg, Florida	<b>Jessica Robichaud</b> Carleton University, Ottawa, Ontario	
	Crumbling Coral: Investigating How Changes in Structural Complexity Impact Cryptofauna Communities	Mapping Undiscovered Bonefish Spawning Aggregation Sites in the Florida Keys	
11:35 AM	Luke Stoeber Clemson University, Clemson, South Carolina	<b>Dr. Ross Boucek</b> Bonefish and Tarpon Trust, Marathon, Florida	
11:50 AM	Discussion Period	Discussion Period	
12:00PM - 1:30PM		Lunch Buffet sters Installed	

	Wednesday, Octobe	er 29, 2025
	CONCURRENT SESSIONS - 1:30 PM - 3:00 PM	
	SESSION 11	SESSION 12
	Grand Cypress	Royal Poinciana
	Mapping of Marine Resources, Use, and Habitat Dynamics in the Keys	Watershed to Reef: Assessing Hydrology and Water Quality Challenges in the Florida Keys
	<b>Dr. David Kochan</b> Florida Fish and Wildlife Conservation Commission, St. Petersburg, Florida	<b>Dr. Laurent Cherubin</b> Florida Atlantic University - Harbor Branch, Ft. Pierce, Florida
1:30 PM	Opening Remarks	Opening Remarks
	High Resolution Bathymetric and Seismic Imaging of the Near-Subsurface in the Shallow Coastal Waters of the Florida Keys	Hydrologic Connectivity between the Everglades and the Florida Bay Through Coastal Mangroves and Freshwater Sloughs
1:35 PM	<b>Dr. Matthew McClellan</b> Walker Marine Geophysical Company, LLC, Boca Raton, Florida	<b>Dr. Wei Huang</b> Florida International University, Miami, Florida
1:50 PM	Mapping Seagrass-Coral Reef Mosaics Using Satellite Imagery to Quantify Seascape Structure in the Florida Keys Marianna Coppola Florida International University, North Miami, Florida	Hydrodynamic and Salinity Modeling in Florida Bay Dr. Kelin Hu Tulane University, New Orleans. Louisiana
	Quantifying and Modeling the Spatial Patterns of the Florida Keys Recreational Reef Fishery	Restoring Balance: Tracing Nutrient Patterns from Ridge to Reef
2:05 PM	Matthew Marrero Florida International University, Miami, Florida	<b>Dr. Paul Julian</b> Everglades Foundation, Palmetto Bay, Florida
	Photogrammetric Analysis Reveals Distinct Topographic Footprints for Stony Coral Genera in Dry Tortugas National Park	Florida's Coral Reef Water Quality Data Compilation, Analysis, and Decision Supports
2:20 PM	<b>Christina Mallica</b> Florida Fish and Wildlife Research Institute, St. Petersburg, Florida	Jade Lee Florida Fish and Wildlife Conservation Commission/Fish and Wildlife Research Institute, St. Petersburg, Florida
	Mapping Spatial-Temporal Changes in Restored Coral Reefs using Multiple Mapping Technologies	Water Mass Histories Modulate Reef Carbonate Chemistry: A High-Resolution Model for the Florida Keys
::35 PM	<b>Prof. Jennifer Dijkstra</b> University of New Hampshire, Durham, New Hampshire	<b>Dr. Heidi Hirsh</b> Cooperative Institute for Marine and Atmospheric Studies, Miami, Florida
2:50 PM	Discussion Period	Discussion Period
3:00PM - 3:30PM	Refreshment Break in I	Exhibit and Poster Hall

	Wednesday, Octobe	er 29, 2025	
	CONCURRENT SESSIONS - 3:30 PM - 5:00 PM		
	SESSION 13	SESSION 14	
	Grand Cypress	Royal Poinciana	
	Reefs in Transition: Understanding Change and Mitigating Loss of Ecosystem Services in the Florida Keys	Integrating Science and Decision Tools to Examine Ecosystem Responses in the Region	
	<b>Casey Butler</b> Florida Fish and Wildlife Conservation Commission, Marathon, Florida	<b>Jennifer Waldo</b> Florida Fish and Wildlife Conservation Commission, Division of Marine Fisheries Management, Marathon, Forida	
3:30 PM	Opening Remarks	Opening Remarks	
	A Decade of Rapid Coral Community Change on the Florida Reef Tract: Insights from NCRMP	Characterizing and Forecasting Reef Responses to Multiple Stressors Across the Florida Keys National Marine Sanctuary	
3:35 PM	Nicole Krampitz CSS, Inc./NOAA National Centers for Coastal Ocean Science, Fort Lauderdale, Florida	<b>Dr. Ian Enochs</b> NOAA/Atlantic Oceanographic and Meteorological Laboratory, Miami, Florida	
	From Top to Bottom: Rethinking Coral Reef Community Structure After Decades of Disturbance	Development of a Comprehensive Decision Support System for Florida's Coral Reef	
3:50 PM	<b>Dr. Michael Childress</b> Clemson University, Clemson, South Carolina	<b>Nick Alcaraz</b> Florida Fish and Wildlife Research Institute, St. Petersburg, Florida	
	The Influence of Structural Complexity on the Fine-Scale Diurnal Space Use of Reef Fishes	Spatiotemporal Analyses of the Biological Condition Gradient Model on Florida's Coral Reef	
4:05 PM	<b>Dr. Alastair Harborne</b> Florida International University, North Miami, Florida	<b>Maya Becker</b> Nova Southeastern University, Davie, Florida	
	Modeling the Impacts of Coral Reef Restoration on Wave Energy Dissipation at Eastern Dry Rocks, Florida	Identifying Nutrient Sources Driving Algal Blooms in Florida Bay: A Causal Modelling Approach	
4:20 PM	<b>Prof. Jim Hench</b> Duke University, Beaufort, North Carolina	<b>Dr. Jonathan Rodemann</b> Florida International University, North Miami, Florida	
	Using Habitat Support Structures to Address Habitat Deficits within the Florida Keys National Marine Sanctuary	Modeling Anthropogenic Impacts on Long-Term Community Dynamics of Coral in the Florida Keys	
4:35 PM	<b>Dr. Hanna Koch</b> Monroe County Board of County Commissioners, Marathon, Florida	<b>Kelsey Vaughn</b> University of Georgia, Athens, Georgia	
4:50 PM	Discussion Period	Discussion Period	
5:00PM - 7:30PM	Poster Session & Network (hors d'oeuvres & b		

Thursday, October 30, 2025		
7:00 AM - 12:00 PM	Conference Registration Open	
7:30 AM - 8:30 AM	Morning Refreshments in Exhibit and Poster Hall	
8:30 AM - 10:00 AM		
10:00AM - 10:30AM	Refreshment Break in Exhibit and Poster Hall	
10:30 AM- 12:00 PM	Workshop Discussons Continue	
12:00 PM	Florida Marine Science Conference & Workshop Concludes Group 2 Posters and Sponsor Display Removal	