

**PROGRAM**



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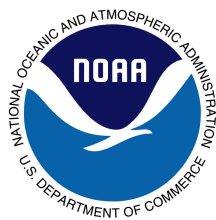


# 72ND ANNUAL GULF & CARIBBEAN FISHERIES INSTITUTE

November 4 – 8, 2019

Punta Cana, Dominican Republic

# BACKGROUND & PRE-MEETING ACTIVITIES



GOVERNMENT OF BERMUDA  
Ministry of Home Affairs  
Department of Environment and Natural Resources



SCRFA  
SCIENCE AND CONSERVATION  
OF FISH AGGREGATIONS



Monday 4 November	Tuesday 5 November			Wednesday 6 November	Thursday 7 November		Friday 8 November	
Opening Ceremony	Spawning Aggregations			Effective Fisheries Management	BIOPAMA	Invertebrates	Too Big To Ignore	Sargassum
Keynote Address								
Break	Break			Break	Break			Break
Marine Litter	Marine Protected Areas			Effective Fisheries Management	BIOPAMA	Habitats & Ecosystems		Lionfish
Lunch / Cacú	Lunch			Lunch	Lunch			Coral Disease
Recreational Fisheries	Vemco	Socio Econ	Fishers Field Trip	Field Trips	Demersal Fisheries			Lunch
Break	Break				Break			Climate Change
Fishers Forum	GCFI Membership				Demersal Fisheries			Aquaculture
	Communication							Break
Free Time	Free Time			Free Time	Free Time			Student Awards
								Closing Ceremony
Informal Reception	Poster Session			CINEFISH	Banquet Reception		Albatross Film Screening	

# BACKGROUND & PRE-MEETING ACTIVITIES

## ABOUT GCFI

The Gulf and Caribbean Fisheries Institute (GCFI) was founded in 1947 to promote the exchange of information on the use and management of marine resources in the Gulf and Caribbean Region. From its beginning, GCFI has endeavored to involve scientific, governmental, and resource-use sectors in providing a broad perspective on relevant fisheries issues. The GCFI membership comprises over 40 nations and territories representing university faculty and students, governmental agencies, policy-makers, private sector, fishers, non-governmental organizations, and other stakeholders.



## THE HOSTS

GCFI is partnering with the Dominican Council for Fisheries and Aquaculture (CODOPESCA – Spanish abbreviation), Fundación Grupo Punta Cana, and Reef Check Dominican Republic to host GCFI72



## THE VENUE

The meeting venue will be at the the Now Larimar Convention Centre in Punta Cana, Dominican Republic with accommodation at the Secrets Royal Beach Punta Cana, located 25 minutes from the Punta Cana International Airport

## THE MEETING

This annual meeting represents a platform for information exchange among various groups. There will be symposia, forums and workshops on topical issues to facilitate translation of knowledge into effective actions to inform the conservation, management, and restoration of fisheries and aquatic resources within the region.

**Any presentation with a \* indicates a student presenter**

## PRE - MEETING ACTIVITIES

### Saturday 2nd November

9:00 - 17:00 Workshop: Improving the Monitoring and Abundance Estimation of Fish Spawning Aggregations (Day1)

### Sunday 3rd November

09:00 - 17:00 Workshop: Improving the Monitoring and Abundance Estimation of Fish Spawning Aggregations (Day 2)

15:30 - 19:00 GCFI Board of Directors Meeting

16:00 Registration

19:30 Student-Board Social: for registered students & GCFI Board Members



## OPENING CEREMONY (8:30 - 9:10) (CHAIR: ALEJANDRO ACOSTA, GCFI)

Opening Remarks

Ing. Osmar Benitez / Lic. Milton Ginebra Morales

Rosa Magarita Bonetti de Santana

Jake Kheel

Martin Russell

### Presidium

Ing. Osmar Benitez - Minister of Agriculture

Lic. Milton Ginebra Morales - Executive Director at CODOPESCA

Dr. Alejandro Acosta, Program Chair, GCFI

Ms. Rosa Magarita Bonetti de Santana - Vice-President, Propagas Board of Directors

Dr. Ruben Torres, Director of Reef Check, Dominican Republic

Mr. Martin Russell, Chair, GCFI

Mr. Jake Kheel, Vice President Grupo Puntacana Foundation

Ms. Jeannette Mateo, Director of Fisheries Resources at CODOPESCA

Ms. Nina Lysenko, Ministry of Environment and Natural Resources

Mr. Robert Glazer, Executive Director, GCFI

Ms. Gladys Rosado, Director of the Marine Biology Research Center (CIBIMA), of the Autonomous University of Santo Domingo (UASD)

## KEYNOTE ADDRESS (9:10 - 9:50) DR SELINA HEPPEL

Professor and Head of Fisheries and Wildlife, Oregon State University.

"Conservation success scales with successful partnerships"

## OPENING BELL (9:50) LEROY CRESSWELL, GCFI EXECUTIVE SECRETARY

## COFFEE BREAK (10:00 - 10:30)

## SCIENCE, MANAGEMENT & SOLUTIONS TO ADDRESS MARINE LITTER IN THE CARIBBEAN & GULF OF MEXICO (Sponsored by GPML-Caribe: A partnership between GCFI & UNEP) Moderator: Bob Glazer

10:30 **Corbin, Christopher** Solid waste and marine litter management trends in the Wider Caribbean Region

10:45 **Ali, Fadilah** Introducing the Caribbean Node of the Global Partnership on MarineLitter (GPML-Caribe)

11:00 **Caporusso, Carolyn** Harmonizing marine litter monitoring in the Wider Caribbean Region: A hybrid approach

11:15 **Taylor, Michelle** Not Just Plastic! An update from Grenada, West Indies

11:30 **Ambrose, Kristal** Spatial trends and drivers of marine debris accumulation on shorelines in South Eleuthera, The Bahamas using citizen science

11:45 \***Jaggernaut, Adara** Impact of marine debris among different coastline types in Grenada, West Indies

12:00 **Siqueira Morais, Leonardo Mario** The sea anemone *Bunodosoma cangicum* as a potential sentinel species for microplastic pollution on the Amazonian coast

12:15 **Aldana Aranda, Dalila** Microplastics in the food chain using molluscs as indicators

## LUNCH (12:30 - 14:30)

### SPECIAL FILM SCREENING: *Cacú: A Change for Life* (12:30 - 14:30)

What does it take to transform a sea turtle nest predator into a conservationist of endangered species? With electrifying images, *Cacú: A Change for Life* follows five fishermen from Manresa, a poor neighborhood to the West of Santo Domingo, as they learn from marine biologist Omar Shamir Reynoso's one-of-a-kind plan to protect nesting sea turtles. With the scientist's guidance and the community's collaboration, the fishermen become sea turtle advocates and custodians in this story of conservation success. *Cacú* is a hopeful environment story of success and inclusion.



### RECREATIONAL & PELAGIC ECOSYSTEM FISHERIES (Sponsored by GCFI)

**Moderator: Jeremy Higgs**

- 14:30 \***Torres, Jashira** Analysis of management strategies for red snapper recreational fisheries in the Gulf of Mexico
- 14:45 \***Millender, Anna** A preliminary life history assessment of Swordfish, *Xiphias gladius*, landed in the northern Gulf of Mexico recreational fishery
- 15:00 **Villaseñor-Derbez, Juan Carlos** Documenting status and mapping suitability of Caribbean moored Fish Aggregating Device (MFAD) fisheries
- 15:15 **Pitt, Joanna** The reproductive biology of baitfish species in Bermuda
- 15:30 **Welch, Jirani** Examining the temporal and spatial distribution of baitfish species in Bermuda's coastal waters

## COFFEE BREAK (15:45 - 16:00)

### FISHERS FORUM – GLADDING MEMORIAL AWARD (GMA)

(Sponsored BY GCFI; NOAA and Shell) **Moderator: Don DeMaria**

- 16:00 **DeMaria, Don** Opening and introduction to the Fisher Forum
- 16:10 **Marquez, Cecil** Big fish from small boats - pelagic longline fishing
- 16:20 **DeMaria, Don** Florida marine life fishery
- 16:30 **Maldonado, Andres** A fisher's experience with scientific research
- 16:40 **Surrency, Ron** Powerhead and bandit fishing in Florida
- 16:50 **Mendez, Angelica** Cooperative fisheries management in Guatemala
- 17:00 **Hickman, Scott** Catch shares in the Gulf of Mexico
- 17:10 **Fisher Forum Question & Answer period**
- 17:50 **Russell, Martin** Presentation of the 2019 Gladding Memorial Award
- 18:00 **Closing remarks**

### INFORMAL RECEPTION & WELCOME ADDRESS BY GCFI EXECUTIVE DIRECTOR: ROBERT GLAZER (19:30)

## REEF FISHERIES & SPAWNING AGGREGATIONS (Sponsored by GCFI & SCRFA)

**Moderator: Martin Russell**

- 08:15 \***Zayas-Santiago, Carlos M** Red hind *Epinephelus guttatus* vocal repertoire characterization, behavior and temporal patterns
- 08:30 **Morley, Danielle** Reef fish spawning aggregation research in the Florida Keys: how technology has informed management
- 08:45 **Rowell, Timothy J.** Female abundance and spawning prospects drive sound production in a territorial male grouper: Implications for monitoring fish spawning aggregations
- 09:00 **White, Allison** A comparison of the practical and statistical sampling considerations between parallel line and star survey designs for hydroacoustically - derived abundance estimates of goliath grouper (*Epinephelus itajara*) spawning aggregations
- 09:15 **Taylor, Chris** Results of the workshop to improve monitoring and analysis of fish spawning aggregations

## COFFEE BREAK (9:30 - 9:45)

## MARINE PROTECTED AREAS (MPAS) SCIENCE & MANAGEMENT (Sponsored by BIOPAMA; CaMPAM and GCFI) Moderator: Hyacinth Armstrong-Vaughn

- 09:45 **Young, Jayron** Use of S.M.A.R.T. in the Turneffe Atoll Marine Reserve
- 10:00 **Rios Sais, Gerardo Antonio** Collective construction of the CAMPAM comprehensive database of marine protected areas necessary to improve the conservation of marine biodiversity in the Caribbean
- 10:15 **Camejo Lamas, Jose Alberto** National Park to evaluate its contribution to connectivity and to mitigate the effects of climate change
- 10:30 **Torres, Ruben** Hispaniola Reef Health Monitoring: Status and Trends of Dominican Republic and Haiti
- 10:45 **Cruz-Motta, Juan Jose** Inferring marine protected areas effectiveness out of temporal patterns alone: the case of two Marine Reserves of Puerto Rico
- 11:00 **Eckrich, Caren** Striving for a blue destination – finding common ground
- 11:15 **Fulton, Stuart** We're going to make a marine reserve, but who is going to pay for it?
- 11:30 **Lysenko, Nina** Decision Support System, based on a set of information, data and indicators, for integrated management of the coastal-marine environment. Final outcomes of the Caribbean EBM-DSS pilot project of Dominican Republic
- 11:45 **Walcott, Julian** The Caribbean Protected Areas Gateway – supporting better MPA management

## LUNCH (12:00 - 14:00)

## FISHERS FIELD TRIP: BOCA DE YUMA (SPONSORED BY CODOPESCA)

## VEMCO ACOUSTIC TELEMETRY WORKSHOP (14:00 - 16:00)

## **SOCIO-ECONOMICS & GOVERNANCE (Sponsored by GCFI) Moderators: Maria Pena & Manoj Shivlani (10 minute presentations, Students 15 min)**

- 14:00 \***Bowman, Chad** Managed access applied to the fisheries of Belize: stakeholder perceptions of the social and economic impacts
- 14:15 **Mateo, Jeannette** An overview of 20 years of fisheries management in the DR
- 14:25 **Zambrano, Someira** The National Strategic Framework for Fisheries in Dominican Republic: 2019 – 2024
- 14:35 **Olivares-Bañuelos, Nadia Citlali** The sum of the diagnoses: prioritizing actions adding all voices in fisheries management
- 14:45 **Karnauskas, Mandy** Identifying priorities for ecosystem-based management in the Gulf of Mexico through a participatory process
- 14:55 **Cabrera-Pichardo, Joandry** Participation of Dominican women in the fisheries sector
- 15:05 **Botto-Barrios, Darlin** State of fishery resources in the north of the Colombian Pacific facing the implementation of the exclusive zone of artisanal fishing in a socio-ecological context
- 15:15 **Margolis, Sarah** Modernizing fisheries information in the Gulf Of Mexico and Caribbean
- 15:25 **Hawk, Marin** Challenges and successes in small-scale fisheries in the Marine Stewardship Council's program
- 15:35 **Vallès, Henri** The impact of moored fish aggregating devices (FAD) on the artisanal marine fishery in Southeast Haiti

## **COFFEE BREAK (15:45 - 16:15)**

## **MEETING OF THE GCFI MEMBERSHIP (16:15 - 17:00) Everyone is welcome**

## **COMMUNICATION & POLICY (Sponsored by GCFI) Moderator: Fadilah Ali (10 minute presentations, Students 15 min)**

- 17:00 \***Wade, Eric** A methodological approach to systematically assess stakeholder perspectives in fisheries management
- 17:15 **Poon Kong, Nakita** Establishing a coral restoration program on Mustique
- 17:25 **Montes de Soto, Nancy** A profile of the Gulf and Caribbean Fisheries Professional Development Program
- 17:35 **Altamar, Jairo** What size should we catch? A strategy for disclosure in a simple language
- 17:45 **Confair, Rachel** Update on the U.S. Marine Mammal Protection Act import provisions: Implementation process and analysis of marine mammal bycatch in commercial fisheries

## **POSTER SESSION WITH COCKTAILS & SNACKS (19:00) (Sponsored by GCFI)** **Full list at end of Program**

## EFFECTIVE FISHERIES MANAGEMENT: REDEFINING FISHERIES POLICIES IN THE GULF OF MEXICO & THE CARIBBEAN REGION

(Sponsored by Environmental Defense Fund & GCFI) Moderator: Valerie Miller

- 08:20 **Miller, Valerie** Overview - Effective fisheries management session
- 08:30 **Alzugaray, Romina** Cuba - Catch quotas for a finfish fishery in Cuba: Lane snapper (*Lutjanus synagris*)
- 08:40 **Carrillo, José Luis & Medellín, Alfonso** Mexico - Exploring management measures towards sustainability in the Mexican red grouper fishery
- 08:50 **Rodriguez, Elmer** Belize - Managed access committees
- 09:00 **Mateo, Jeannette & Zambrano, Someira** Dominican Republic - Analysis of the effectiveness of the parrotfish ban in Dominican Republic: lessons learned from 2 years
- 09:10 **Belize, Cuba, D.R., Mexico & U.S.** Multinational panel 1 - Effective fisheries management practices

### COFFEE BREAK (10:10 -10:25)

- 10:25 **Miller, Valerie** Overview - Fisheries policies guided by effective management session
- 10:30 **Puga, Rafael** Cuba - Cuba's new Fisheries Law, a call for sustainability and adaptive management.
- 10:40 **Aldana, Andrés** Belize - Highlights of the new Fishing Bill in Belize
- 10:50 **Santos, Josefina & Sánchez, Manuel** Mexico - Participatory governance through advisory committees
- 11:00 **Silleck, Elizabeth** U.S. - Recreational Fisheries Reform in the Gulf of Mexico
- 11:10 **Manjarrés Martínez, Luis** The management of fishery resources in Colombia: an analysis of their relevance and appropriateness from a historical outlook
- 11:20 **Acosta, Alejandro** Developing a process for identifying fisheries research priorities
- 11:30 **Belize, Cuba, D.R., Mexico & U.S.** Multinational panel 2 - Policies guided by effective fisheries management
- 12:20 **Whittle, Dan** Closing remarks and conclusions

### LUNCH BREAK (12:30 - 14:00)

#### FIELD TRIPS (14:00)

- a) **Tour of the Grupo Puntacana Foundation projects** (Beekeeping, worm composting, Center for Marine Innovation, and Indigenous Eyes Ecological Reserve. (Need reservation, limited to 40 people) Cost: \$12.00
- b) TBC

#### CINEFISH (19:30) (Sponsored by GCFI)

Moderator: Fadilah Ali



## CONCURRENT SESSION (08:00 - 12:00) BIOPAMA: The Caribbean Protected Areas Gateway - supporting better MPA Management

### REEFS & ASSOCIATED ECOSYSTEMS: LOBSTER, CONCH & OTHER INVERTEBRATES (*Sponsored by GCFI*) Moderator: LeRoy Creswell

- 08:00 **\*Issac, Laura E** Preliminary findings: testing an egg farm as a method to increase reproduction of queen conch, *Lobatus gigas*, in The Bahamas
- 08:15 **Joseph, Allena** Overcoming the challenges facing spiny lobster mariculture in small island developing states (SIDS).
- 08:30 **Santos-Valencia, Josefina del Carmen** Reproductive cycle of *Lobatus gigas* in Chinchorro Bank, Mexico
- 08:45 **Appeldoorn, Richard** Maturation and fecundity in the queen conch: individual variability and the effects of density
- 09:00 **Aldana Aranda, Dalila** Steroid hormones in the Queen conch, *Lobatus gigas* and their association with the spawning
- 09:15 **Kitson-Walters, Kimani** Population genetics informs management of a commercially endangered species: first insights into Jamaica's queen conch fishery
- 09:30 **Forbes-Pacheco, Trisha** Experimental culture of *Cittarium pica* in the reef platform of Old Providence and Santa Catalina Island
- 09:45 **Matthews, Thomas R.** Value enhancement of spiny lobster (*Panulirus argus*) for the live-lobster export market

### COFFEE BREAK (10:00 - 10:15)

### HABITATS & ECOSYSTEMS (*Sponsored by GCFI*) Moderator: Mark Peterson

- 10:15 **\*Stoffers, Twan** Spatial distribution, relative abundance and size composition of reef-associated sharks on St Eustatius, Saba and the Saba Bank (Caribbean Netherlands)
- 10:30 **McPherson, Matthew** Using oral histories and participatory mapping to understand the biological impacts and resilience of fishermen to red tides on the West Florida coast
- 10:45 **Hiwat, Michael** Engaging stakeholders in marine spatial planning in Suriname through participatory 3-D modelling of the coastal and marine area
- 11:00 **Furman, Kelsi** Spatial variation and social equity in shore-based recreational fisheries in Key West, Florida.
- 11:15 **Charles, Kate** Sea turtles in Grenada, West Indies: Celebrating 20 years of conservation
- 11:30 **Cambronero-Solano, Sergio** New reports of echinoderms on the Caribbean continental slope of Central America
- 11:45 **Wongbusarakum, Supin** Do scientists and managers think and feel the same about data? Insights from the Pacific island region
- 12:00 **Abril-Howard, Omar** Deep Sea Monitoring Using ROV Technologies in the San Andres, Providence and Santa Catalina Archipelago, Colombian Caribbean

## LUNCH BREAK (12:15 - 14:00)

## GCFI BOARD OF DIRECTORS MEETING (12:15 - 14:00)

## REEF FISH ECOSYSTEMS: DEMERSAL FISHERIES (Sponsored by GCFI)

**Moderator: Yvette DieiOuadi**

- 14:00 **\*Bolser, Derek** Environmental and structural drivers of fish distributions among petroleum platforms across the U.S. Gulf of Mexico
- 14:15 **\*Escalante-Dominguez, Andy** Age and growth of gray snapper (*Lutjanus griseus*) in the Northern Coast of the Yucatan Peninsula
- 14:30 **Chamberlin, Derek** Examining aging error in northern Gulf of Mexico gray triggerfish (*Balistes capriscus*) via multiple hard part age estimates
- 14:45 **Paris, Morgan** Validation of annular increments and formation timing in otoliths of Red Snapper *Lutjanus campechanus*.
- 15:00 **Pineda-Muñoz, Alexandra** Multiannual changes in shallow coral reefs of Albuquerque Islands in the Seaflower Biosphere Reserve, Colombia
- 15:15 **Tzadik, Orian** Using opportunistic datasets to infer spatial management strategies of endemic fisheries in the U.S. Caribbean region
- 15:30 **Giro, Ana** Ecosystem health and management effectiveness in the Mesoamerican Reef

## COFFEE BREAK (15:45 - 16:15)

- 16:15 **Santos-Martínez, Adriana** Dynamics of artisanal fisheries and proposals for sustainable management, zone Providencia and Santa Catalina, Colombian Caribbean Seaflower Biosphere Reserve
- 16:30 **Semmens, Brice** Long-term trends in Caribbean parrotfish abundance at local, regional and basin-wide scales: Implications for fisheries and ecosystem management
- 16:45 **Pattengill-Semmens, Christy** A Clearer Picture: how digital cameras have changed marine life surveys over the last three decades
- 17:00 **Johnson, Matthew** From habitat mapping to fish abundance: NOAA's coral reef monitoring program, methodologies, and usefulness as a Caribbean-wide tool for fishery-independent sampling
- 17:15 **Maskrey, Ben** Ciguatera poisoning in Antigua and Barbuda: working towards a risk management strategy

## BANQUET RECEPTION (Sponsored by CODOPESCA)

## CONCURRENT SESSION (08:00 - 17:00)

### Too Big to Ignore (TBTI): Training-of-the-Trainers Training Workshop: Transdisciplinarity in Fisheries & Ocean Sustainability

## SARGASSUM IN THE GULF AND THE CARIBBEAN (*Sponsored by GCFI*)

**Moderator: Emma Doyle**

- 08:00 **Beltré Díaz, Maria J.** Monitoring evaluation of the arrival of the sargazo (Sargassum) to the Dominican coasts: its impact on fishery production
- 08:15 **Iporac, Lowell Andrew** Lessons and challenges in piloting a citizen science project to monitor pelagic Sargassum landings in South Florida
- 08:30 **Baldwin, Kimberly** A geospatial approach to quantifying stranded Sargassum seaweed using drones
- 08:45 **Johnson, Donald** Pelagic Sargassum blooms and dynamics of the north Tropical Atlantic
- 09:00 **Martinez-Daranas, Beatriz** Arrival of pelagic Sargassum to the Cuban coasts, 2012-2019
- 09:15 **Suarez, Ana M.** Ideas for the management of the unusual arrival of Sargassum to the cuban coasts
- 09:30 **Collado-Vides, Ligia** Variability of nutrient and metals tissue content in pelagic Sargassum spp from South Florida compared with global data

## COFFEE BREAK (09:45 - 10:00)

## LIONFISH & OTHER INVASIVE SPECIES RESEARCH (*Sponsored by GCFI, FWC*) Moderator: Joanna Pitt (10 minute presentations, Students 15 min)

- 10:00 **\*Harris, Holden** Substantial population declines in the northern Gulf of Mexico invasive lionfish following disease emergence
- 10:15 **Bolaños Cubillos, Nacor** First 11 years of the lionfish invasion in Colombia: achievements, difficulties and challenges of the different government institutions in the country
- 10:25 **Candelmo, Allison** A deep dive into lionfish
- 10:35 **Hutchinson, Emily** Development of a trap to catch the invasive lionfish
- 10:45 **Schärer-Umpierre, Michelle** The purr of the lionfish: Sound and behavioral context of wild lionfish in the Greater Caribbean
- 10:55 **Eddy, Corey** The Reef Sweeper: A remotely operated vehicle for harvesting invasive lionfish without bycatch at depths to 300 m
- 11:05 **Hunt, Christina** Invasive lionfish decrease shelter-use in the presence of native spiny lobster
- 11:15 **Kingon, Kelly** A NEW alien fish species discovered in Trinidad, this is NOT another lionfish talk!

## CORAL DISEASE (*Sponsored by GCFI*) Moderator: Scot Frew

- 11:30 **Gonzalez, Melina** Distribution, abundance and prevalence of coral diseases along the coast of the Dominican Republic
- 11:45 **Berkebile, Nate** Multi-species coral rescue in response to the Stony Coral Tissue Loss Disease on the Florida Reef Tract
- 12:00 **Doyle, Emma** Caribbean cooperation on response to Stony Coral Tissue Loss disease epidemic
- 12:15 **Bervoets, Tadzio** Capacity building efforts to address the emerging issue of Stony Coral Tissue Loss Disease in the Caribbean

## LUNCH BREAK (12:30 - 14:00)

## CLIMATE CHANGE (*Sponsored by GCFI*) Moderator: Sandrine Pivard

- 14:00 **Glazer, Robert** Applying a Climate-Smart approach to marine adaptation planning in Southwest Florida
- 14:15 **Eyzaguirre, Jimena** A Climate-Smart fisheries toolkit for the Caribbean: Part 1 - Results of a regional ecological and economic assessment of climate change impacts on Caribbean fisheries
- 14:30 **Tamburello, Natascia** A Climate-Smart fisheries toolkit for the Caribbean: Part 2 - A monitoring and management framework for guiding climate change adaptation in the fisheries sector
- 14:45 **Jiménez-Badillo, Lourdes** Strengthening capacities in fishing communities for adaptation to climate change
- 15:00 **Theophile, Derrick** Vulnerability and adaptive capacity of the fisheries sector in Dominica: Impacts from climate change and hurricanes
- 15:15 **Singh, Joth** Moving to implementation of Ecosystem based Adaptation (EbA) approaches to alleviate the effects of Climate Change in the Insular Caribbean: The CBF's EbA Facility and Partners.
- 15:30 **Felix, Marie-Louise** Strengthening fisher resilience to the impacts of climate change through the use of vulnerability and capacity assessment tools in 3 communities in Saint Lucia.

## AQUACULTURE (*Sponsored by GCFI*) Moderator: Luis Orlando Duarte

- 15:45 **Enriquez Diaz, Martha** Educational programs on the Queen conch in the Caribbean
- 16:00 **Davis, Megan** Development of a fishermen operated pilot-scale queen conch (*Lobatus gigas*) hatchery and nursery facility for sustainable seafood supply and restoration of wild populations in Puerto Rico
- 16:15 **Prada, Martha** Improving mariculture development in the archipelago of San Andres, Providencia and Santa Catalina
- 16:30 **Sánchez-García, Camila** Small scale fish mariculture for artisanal fishers of the islands of Providencia and Santa Catalina, Colombia

## COFFEE BREAK (16:45 - 17:00)



## STUDENT AWARD PRESENTATIONS (17:00)

Presentation of the Ron Schmied Scholarship

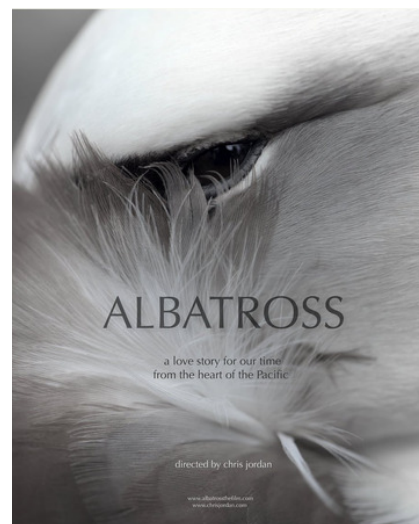
Presentation of the GPML-Caribe Marine Litter Awards

Presentation of the GCFI Outstanding Student Achievement Awards

## CLOSING CEREMONY (17:15)

## SPECIAL FILM SCREENING: ALBATROSS (19:30) (Sponsored by GPML-Caribe)

ALBATROSS is a powerful visual journey into the heart of an astonishingly symbolic environmental tragedy. On one of the remotest islands on our planet, tens of thousands of baby albatrosses lie dead on the ground, their bodies filled with plastic. The viewer will experience stunning juxtapositions of beauty and horror, destruction and renewal, grief and joy, birth and death, coming out the other side with their heart broken open and their worldview shifted. Stepping outside the stylistic templates of traditional environmental or documentary films, ALBATROSS delivers a profound message of reverence and love that is already reaching an audience of millions of people around the world.



## POST-CONFERENCE ACTIVITIES

### SATURDAY 9TH NOVEMBER

#### CONCURRENT SESSIONS:

TooBig to Ignore (TBTI): Training-of-the-Trainers Training Workshop  
"Transdisciplinarity in Fisheries & Ocean Sustainability (08:00- 12:30;  
14:00- 17:00)

Introduction to FishPath: Tools to Promote Sustainable Fisheries  
Management in Data Limited Situations. (08:00- 12:30; 14:00- 17:00)

### SUNDAY 10TH NOVEMBER

#### CONCURRENT SESSIONS:

TooBig to Ignore (TBTI): Training-of-the-Trainers Training Workshop  
"Transdisciplinarity in Fisheries & Ocean Sustainability (08:00- 12:30;  
14:00- 17:00)

Introduction to FishPath: Tools to Promote Sustainable Fisheries  
Management in Data Limited Situations. (08:00- 12:30; 14:00- 17:00)

**Presenters should be at odd numbered posters from 19:00-20:00 and even numbered posters from 20:00 – 21:00**

- 1 **\*Alves, Catherine** Assessing fisher perceptions of the Territorial User Rights for Fishing (TURF) program: A Belizean case study
- 2 **Alzugaray, Romina** Bioeconomic modeling of multispecific fisheries in the southeast platform of Cuba
- 3 **Andrés, Navia** *Hypanus americanus* In San Andres Island, Colombian Caribbean, and their relationships with supplementary food as a touristic activity.
- 4 **\*Appeldoorn Sanders, Eric** Comparing the diversity of the soundscapes at two fish spawning aggregation sites in western Puerto Rico
- 5 **Atis, Maxene** Sustaining Fisheries and Livelihoods in Haiti's, Three Bays Protected Area Community
- 6 **Azcarate, Ruben** Large scale reef restoration in the Seaflower Biosphere Reserve - San Andres, Providence and Santa Catalina Archipelago, Colombian Caribbean
- 7 **Azcarate, Ruben** Status of the queen conch (*Lobatus gigas*) (Linnaeus, 1758) populations in the Seaflower biosphere reserve and sustainable management implications.
- 8 **Bernus, Jeffrey** CARI'MAM (Caribbean Marine Mammal Preservation Network): Standardized monitoring protocols across the Caribbean
- 9 **Conruyt, Geraldine** Carib'Coast project (Caribbean coastal risks related to climate change: for a monitoring and prevention network); Management plans, human activities and marine mammals
- 10 **Helion, Mike** CariMam: The Caribbean Marine Mammals Preservation Network project
- 11 **Cambronero-Solano, Sergio** Hybrid solution? Building the case for Acroporid restoration in Costa Rica
- 12 **Castro Munoz, Laura M.** Community participation in the control and use of IAS in the International GEF / UNDP Project "Improving the Prevention, Control and Management of Invasive Exotic Species in Vulnerable Ecosystems in Cuba"
- 13 **\*Cordero, Katelin** Spatial Analysis of Billfish Species Using Geographic Information Systems (GIS) and Implications for Future Management
- 14 **Cortes Gomez, Rodolfo Adrian** Integral Exploitation of Fishing in Yucatan
- 15 **Cortés-Useche, Camilo** Optimizing coral reef restoration across network of coral nurseries within the Dominican Coastal Restoration Consortium (CDRC)
- 16 **Croquer, Aldo** Grounding Coral Reef Restoration in an Experimental Ecology Framework: A Case Study in Bayahibe, Dominican Republic
- 17 **Duarte, Luis Orlando** Status of fishery resources exploited by small-scale fisheries in the Caribbean Sea of Colombia. Approach based on simple indicators
- 18 **\*Esteves Dias, Ana Carolina** Mobilizing action towards social-ecological changes in coastal communities through co-creation of ideas and visual arts
- 19 **Fogg, Alexander** The Continental United States First Fish Aggregating Device Network: Opportunities for Tourism and Pelagic Fisheries Monitoring
- 20 **Furnish, Abigail** Data Gaps and Alternative Approaches: Applying National Standard 1 to Data Limited Stocks

- 21 **\*Garcia, Eduardo R.** Length-based growth parameters of *Xiphopenaeus kroyeri* in the Gulf of Salamanca, Caribbean Sea off Colombia
- 22 **\*Garcia, Rebecca** The Effects of Water Quality and Sediment Grain Size on the Presence of *Emerita talpoida* at High (Clearwater Beach, FL) and Low (Indian Rocks Beach, FL) Human Impact Beaches.
- 23 **Higgs, Jeremy** Diet observations from tournament landed Swordfish, *Xiphias gladius*, in the north central Gulf of Mexico
- 24 **Andres, Michaels** Integrating parasites into the trophic ecology of the Swordfish, *Xiphias gladius*
- 25 **Kimak, Erin** Distribution & composition of fishaggregating devices as marine debris
- 26 **\*Lo Verso Alonso, Gian Luca** Historical changes in catch and composition rates by species of batoids exploited by artisanal fisheries in the Colombian Caribbean Sea.
- 27 **Lohmann, Hilary** A Review of SocMon Caribbean: Challenges and opportunities for improving the visibility and relevance of social science in management and policy
- 28 **Lozano-Beltrán, Germán** Ovarian Histological Development of *Callinectes bocourti* From Cienaga Grande De Santa Marta, Colombian Caribbean
- 29 **\*MacDonnell, Conor** A comparison of biogeochemical and fitness effects of fertilizers on subtropical seagrasses
- 30 **Mateo, Jeannette** Chronology of events of massive fish mortality in the Dominican Republic: possible causes and impacts on local fishing communities
- 31 **Matos-Caraballo, Daniel** Description of Puerto Rico's Queen Conch (*Lobatus gigas*) Fishery Trends After Two Years of the Impact of Hurricane María in Puerto Rico.
- 32 **Matos-Caraballo, Daniel** Puerto Rico's Active Fishing Centers and Fishing Villages after Two years of the Impact of Hurricane María.
- 33 **McBride, Mariah** Five Key Factors to Elevating Sargassum Mitigation Efforts
- 34 **\*Méndez Arce, Sofia** Maritime pollution by microplastics in the Gulf of Nicoya of Costa Rica
- 35 **Mitchell, Peter** Generating high-resolution seabed habitat maps around the coast of Saint Lucia to support future development
- 36 **Montero-Fortunato, Emmanuel** Characterization of the Fisheries of Marine Organisms with Ornamental Purposes in the Dominican Republic
- 37 **Navarro, Zenaida** Sportfishing in Cuba: A Sustainable, Conservation-based, Economic Opportunity
- 38 **Noh-Quñones, Virginia** Reproductive aspects of the lionfish, *Pterois volitans*, in the Parque Nacional Arrecife Alacranes, southern Gulf of Mexico
- 39 **Olszak, Sammy** Using citizen science photographs and in situ sampling to measure abundance and biomass of Sargassum landings
- 40 **Pitt, Joanna** An evaluation of the baitfish fisheries in Bermuda
- 41 **Posada Riaño, Violeta** Culture of Macroscopic Marine Algae Gracilaria Spp. E Hypnea Musciformis In the Reef Platform of Old Providence and Santa Catalina Islands, Biosphere Reserve Seaflower
- 42 **Puga, Rafael** The lobster fishery in Cuba, a decade after the implementation of catch quotas
- 43 **Ram, Mark** Distribution, abundance, and types of plastic debris along beaches in Demerara Mahaica, Guyana.

- 44 **\*Ramos Luna, Luis Felipe** Historical Changes in the Capture Rates of an Artisanal Ancestral Fishery of Beach Seine in Taganga, Caribbean Sea of Colombia
- 45 **Richards, Travis** Food web structure of deep-pelagic micronekton assemblages in the Gulf of Mexico
- 46 **Rivera, Antonella** Socioeconomic landscape of a small-scale reef fishery transitioning to co-management
- 47 **Roa, Camilo** Taxonomical classification of reef fish based on a swimbladder BEM, broadband echosounder modeling; and Bayesian, SVM, and KNN estimators
- 48 **Rodriguez, Manuel** Trends on reef fish populations inside and outside no take zones after 10 years in Sosua Bay, Dominican Republic
- 49 **Rodriguez-Duarte, Joel** Characterization of the queen conch fishery (*Lobatus gigas*) in the Banco Chinchorro Biosphere Reserve in the Mexican Caribbean 2018
- 50 **Rosemond, Claire R.** Estimating Red Hind (*Epinephelus guttatus*) population structure, movement, and vital rates in the US Virgin Islands to inform stock assessment and fisheries management
- 51 **Rowell, Timothy J** Soundscape monitoring in U.S. National Marine Sanctuaries
- 52 **Surmont, Emily** Variables Influencing Spat Recruitment of *Crassostrea virginica* and *Crassostrea rhizophorae* in an Estuarine Environment
- 53 **Sys, Kim** Bycatch of endangered, threatened and protected species in the coastal artisanal fishery in Suriname
- 54 **Theophille, Derrick** Expanded biological data collection of Dominica key commercial fish species in support of sustainable management
- 55 **\*Tisseaux Navarro, Alexandre** The need to check the connectivity of tarpon (*Megalops atlanticus*) in Central America due to inconsistencies in their fishing regulations
- 56 **Torres-Pineda, Patricia** Getting to know the coastal-marine biodiversity of a promising area aided by citizen science
- 57 **Torres-Pineda, Patricia** Marine and estuarine fishes of the scientific collection of the National Museum of Natural History "Prof. Eugenio de Jesús Marcano" in Dominican Republic
- 58 **Vignaud, Lea** Use of fish fins as a non-destructive method for isotopic analysis
- 59 **Zambrano Romero, Someira** Dominican Reef Network, A Conservation Alliance in Dominican Republic
- 60 **Zúñiga, Harley** Comparative evaluation of the CPUE before and after the installation of artificial reefs in the Pozos Colorados sector, Caribbean Sea of Colombia

## GENDER IN FISHERIES POSTER SESSION

- 61 **Alvarez Carrazana, Yunaika** Communication and the gender approach as a process of change for the sustainable fishing A community look
- 62 **Fletcher, Pamela** Empowering women and girls in fisheries research and ecotourism: Case Study from Leon, Nicaragua
- 63 **Pena, Maria** Occupying similar occupations in the Barbados fisheries value chain: what differences make a difference for women and men?