



**CONFERENCE**  
San Andres Island, Colombia

HOSTED BY CORALINA

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**71ST ANNUAL GULF AND  
CARIBBEAN FISHERIES  
INSTITUTE**

San Andrés, Colombia  
November 5 -9, 2018

# coralina

Corporación para el Desarrollo Sostenible del Archipiélago de San Andrés, Providencia y Santa Catalina



**NOAA FISHERIES**



**UN environment**



**SCRFA**  
SCIENCE AND CONSERVATION OF FISH AGGREGATIONS



**SLOW FISH CARIBE**



**Sea Grant**  
Puerto Rico



**Sida**

SWEDISH INTERNATIONAL DEVELOPMENT COOPERATION AGENCY



**OSPAR COMMISSION**

Protecting and conserving the North-East Atlantic and its resources



**UNIVERSIDAD NACIONAL DE COLOMBIA**



Observación Internacional Colombia



Gobernación Departamento Archipiélago de San Andrés, Providencia y Santa Catalina



**RBS**  
RESERVA DE BIOSFERA SEAFLOWER



## 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 25 nations and territories representing university faculty and students, governmental agencies, policy-makers, private sector, fishers, non-governmental organizations, and other stakeholders.



## THE HOST

The meeting is being hosted by the Corporation for the Sustainable Development of the Archipelago of San Andrés, Providencia and Santa Catalina (CORALINA). Their mission is to manage and protect the archipelago and ensure sustainable resource use and management, protection of flora and fauna, restoration and scientific research.



## THE VENUE

The meeting venue will be the Convention Centre at the Decameron Isleño Hotel in San Andres Island. The venue is located only a few steps from the airport and opposite the most beautiful beach in San Andrés – Spratt Bight.

## 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

### Friday 2nd November

9:00 - 17:00 Acoustic Workshop

### Saturday 3rd November

9:00 - 17:00 Acoustic Workshop

9:00 - 17:00 UN Environment Workshop

### Sunday 4th November

9:00 - 17:00 Acoustic Workshop

9:00 - 17:00 UNEP Workshop

14:30 GCFI Board of Directors Meeting

16:00 Registration

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

## OPENING CEREMONY (8:00 - 9:00) (CHAIR: ALEJANDRO ACOSTA, GCFI)

Prayer Local Pastor

Opening Remarks by the Governor of the Archipelago of San Andrés, Nueva Providencia y Catalina

Opening Remarks by Minister of Environment and Sustainable Development

Opening Remarks by the Minister of trade, Industry and Tourism

Opening Remarks by Martin Russell- Chair, GCFI Board of Directors

Opening Remarks by Coralina

## Presidium

*Governor of the Archipelago of the Archipelago de San Andrés, Catalina, y Nueva Providencia*

*Minister of Environment and/or his delegate*

*Director of Coralina*

*Minister of Trade, Industry and Tourism*

*Director National University*

*Ambassador of the European Union in Colombia*

*Director of Conservación Internacional Colombia*

*Representative of Slow Fish Caribe*

*Representative of Banco de la República*

*Secretary of Agriculture, Department of the Archipelago*

*Director of the Foundation ACCUA*

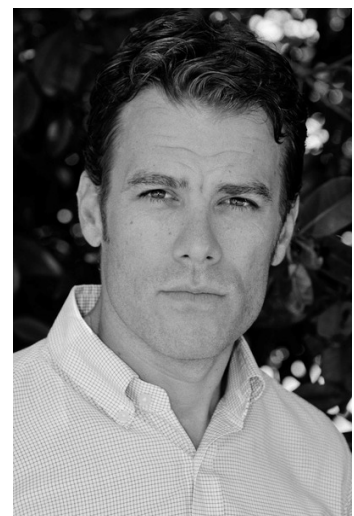
*Executive Director, GCFI*

*Chair, GCFI*

*Program Chair, GCFI*

## KEYNOTE ADDRESS (9:00 - 9:50) MR JAKE KHEEL

Jake Kheel is a sustainability innovator, thought-leader, and award-winning documentary filmmaker. For more than a decade he has confronted social and environmental challenges in the tourism industry as Vice President of Grupo Puntacana Foundation in the Dominican Republic. He leads one of the Caribbean's most expansive coral reef conservation efforts; helped implement Zero Waste at Grupo Puntacana, & directs the Center for Sustainability. Under his leadership, Grupo Puntacana has received numerous international awards, including awards from World Tourism and Travel Council, Conde Nast Traveler, Travel & Leisure, & National Geographic Traveler.



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

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

## TOURISM IN THE CARIBBEAN: CHALLENGES FOR THE MANAGEMENT OF FISHERIES & CORAL REEF ECOSYSTEMS (*Sponsored by CORALINA & GCFI*)

**Moderator: Erick Castro Gonzalez**

10:30 Session Overview Presentation

10:40 **Kyne, Fabian** The role of tourism in protecting Jamaica's fish stock

10:50 **Martijn, Leonel** Staying in the forefront of coral reef conservation amidst growing and changing tourism

11:10 **Moreno, Patricia** Mass tourism impacts on marine ecosystems and protected areas in the Seaflower Biosphere Reserve

11:20 **Boucek, Ross** Exploding tourism and sustainable fisheries: lessons learned from the South Florida flats fishery

11:30 **Adams, Aaron** A multi-methods approach is essential for effective management & conservation of the ecotourism-based recreational flats fishery

11:40 **Barbeito Morandeira, Paula** Identity of origin as a strategy of management & sustainability in the Caribbean: the case of the black crab & the spiny lobster

11:50 **Contreras, Andrea** Ecotourism as a life strategy, conservation and generation of strategic alliances for the communities of the Ciénaga Grande, Santa Marta

12:00 **González Gamboa, Isabella** In the variety is the pleasure: more diversity of morpho-functional coral groups in the reef, more snappers, more tourism.

12:10 **Márquez Pérez, Ana Isabel** Impacts of tourism on fishing communities' social appropriation of marine and coastal ecosystems: two case studies in the Colombian Caribbean

12:20 **Montoya-Maya, Phanor** Meaningful Diving: An initiative to improve the role of dive tourism in the effective conservation of coral reef fisheries and ecosystems in the Caribbean

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

**Slow Fish Caribe, Program Introduction Lunch (By Invitation Only)**

### SOCIO-ECONOMIC AND GOVERNANCE (*Sponsored by GCFI*)

**Moderator: Patrick McConney**

14:00 **\*Wade, Eric** Does experience matter? Assessing the diversity of mental models associated with Belize's Managed Access Fisheries Policy

14:15 **León-Pérez Mariana C.** Initial steps of an adaptive management exercise to strengthen Puerto Rico's Coral Reef Monitoring Program

14:25 **Asraf, Radjes** Establishment of fisherfolk organizations in Suriname

14:35 **Andrews, Melanie** Engaging civil society in the implementation of the Strategic Action Programme for the Sustainable Management of the Shared Living Marine Resources of the Caribbean and North Brazil Shelf Large Marine Ecosystems

14:45 **Altamar, Jairo** Local ecological knowledge and its usefulness for the management of an ancestral artisanal fishery in the Colombian Caribbean

14:55 **Montes de Soto, Nancy** Applying social science theories in fisheries research: The case of FADs in the Caribbean region

- 15:05 \***Reid, Terisa A** A preliminary socioeconomic profile on fishermen in Trinidad
- 15:20 **Garcia-Valencia, Carolina** Towards the management of seagrass in Colombia: La Guajira meadows
- 15:30 **Ochoa, Mariela** Appraisal of the perceptions of artisanal fishermen and government on the benefits offered by the new general registration system for fishermen in Honduras
- 15:40 **Sidman, Charles** A regional approach to facilitate co-management of FAD fisheries in the Caribbean
- 15:50 **Galvis Navarro, Dalmo** Estimation of socioeconomic impacts & economic viability associated with recreational fishing in the Colombian Caribbean.

## CONCURRENT SESSION (14:30 - 17:00)

**CLME+ Meeting - Expand the knowledge base to support habitat protection and restoration in the CLME+ region**

## COFFEE BREAK (16:00 - 16:30)

## FISHERS FORUM – GLADDING MEMORIAL AWARD (GMA)

*(Sponsored BY GCFI; NOAA and Shell)* **Moderator: Will Heyman**

- 16:30 **Heyman, Will** Introduction to Fisheries for Fishers (F4F) initiative, and the 2018 Gladding Memorial Award (GMA)
- 16:35 **Perry, Ruth** Supporting the Fisheries for Fishers Initiative
- 16:40 **[San Andres Speaker]**
- 16:50 **Kinch, Anderson** Fisherman's perspective on managing fisheries for sustainability
- 17:00 **Maldonado, Andres** Championing conservation of Nassau grouper in Puerto Rico
- 17:10 **Mendez, Angelica** Women as active stakeholders in Guatemala's coastal fisheries
- 17:20 **DeMaria, Donald** Fishers and managers can cooperate to manage data-poor fisheries: A fisher's perspective on the marine life fishery in Florida
- 17:30 **McConney, Patrick** Discussion of fisheries sustainability with the GMA winners
- 17:40 **Russell, Martin** Presentation of the 2018 Gladding Memorial Award
- 18:00 Closing

**INFORMAL RECEPTION & WELCOME ADDRESS, ROBERT GLAZER, EXECUTIVE DIRECTOR, GCFI (19:30)**

## CORAL REEFS & ASSOCIATED ECOSYSTEMS IN A CHANGING CLIMATE (Sponsored by UN Environment; SPAW & GCFI)

**Moderator: Sandrine Pivard**

08:00 Opening Remarks

08:15 **Precht, William** Cooperative natural resource damage assessment leads to successful restoration of injured coral resources

08:30 **Garcia Ureña, Rocio** Current status of Acropora populations in the Colombian Caribbean

08:45 **Beck, Brian** NOAA's Coral Reef Conservation Program: Establishing an emphasis on coral restoration

09:00 **Vallès, Henri** Spatio-temporal variability in the benthic composition of the coral reefs of Barbados between 1997 and 2012

09:15 **Irazabal, Iker** Impacts of coastal development on the resilience of coral reefs: Twenty years of monitoring from the Dominican Republic

09:30 **Henderson, Alexander** Photoquadrat and linear point-intercept methods for assessing benthic cover should not be used interchangeably in long-term coral reef survey programmes

09:45 **Galvis, Nohora** Ten years of monitoring artisanal fisheries in relation to climate change, lionfish & industrial fishing in Capurganá-Cabo Tiburón

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

10:15 **Carne, Lisa** Reef resilience and assisted evolution: what do these terms mean for Belize, and what role do coral restoration efforts play? A review of the 2017 bleaching event with this in mind, and with historical context

10:30 **Giro, Ana** Management Effectiveness in the Mesoamerican Reef: Letting fish tell their own story

10:45 **Serrano Jerez, María de los Ángeles** Environmental education for better knowledge management of coral reefs and climate change: Reflections from the National Aquarium of Cuba

11:00 **Edwards, Peter** Integrating biological, physical and social coral reef monitoring data: challenges and solutions

11:15 **Kimball, Justine** U.S. Coral Reef Areas to Inform Conservation and Management

11:30 **Koss, Jennifer** NOAA's New Coral Reef Conservation Strategic Plan: Reducing threats locally – recovering species globally

11:45 **Martinelli, Maurizio** Florida's ongoing coral disease outbreak: Current research, status, and management response

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

### FISHERS FIELD TRIP (SPONSORED BY CORALINA)

## MARINE PROTECTED AREAS (MPAS) SCIENCE AND MANAGEMENT (Sponsored by OSPAR ComMission Italian Agency for Cooperation and Development (IACD) UNEP-CEP-SPAW/CaMPAM GCFI).

**Moderator: Martha Prada**

- 14:00 **Jupp, Lashanti** Marine protected areas providing a sustainable economy for the Bahamas
- 14:15 **Gerhartz-Muro, Jose Luis** An evaluation of the framework for national marine environmental policies in Cuba
- 14:30 **Greaux, Sébastien** A common initiative for sharks and rays at St Barts: the first step for French West Indies?
- 14:45 **Doyle, Emma** Fisheries management capacity and Caribbean MPAs – responding to needs of the MPAConnect network
- 15:00 **López, Victoria Mateo** Ecologic integrity and biodiversity of reef ecosystems in oceanic islands of Colombia in the Caribbean: Serranilla Cay
- 15:15 **de Leon, Ramon** Introducing reef support: an online marine park user fee payment system
- 15:30 **Lohmann, Hilary** A review of Caribbean Socio-economic Monitoring (SocMon) with recommendations for increasing influence in decision-making
- 15:45 **Camejo, José** Characterization of the mangrove in the Guanahacabibes National Park to evaluate its contribution to connectivity and to mitigate the effects of climate change

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

- 16:15 **Espinosa Andrade, Noemi** Diving tourism as a possible protection factor for reef fish communities in the Mexican Caribbean
- 16:30 **Howard, Marion** Forgotten Voices: Connecting indigenous identity and ocean heritage to MPA policy and management
- 16:45 **Nemeth, Richard** Movement of reef fishes between different fishery management zones in the St. Croix East End Marine Park
- 17:00 **Martin, Russell** The Coral Sea Marine Park, protecting a vast ocean and reef wilderness in the Pacific Ocean

### CLIMATE CHANGE (Sponsored by GCFI) Moderator: Bob Glazer

- 17:15 **Kinch, Anderson** Fishers' observations of climate change impacts on the flyingfish fishery in Barbados
- 17:25 **Meiners-Mandujano, Cesar** Preliminary evidence of climate variability impact on the octopus fishery in the Southeastern Gulf of Mexico
- 17:35 **Eckrich, Caren** Local conservation measures paving a prudent path for Bonaire's corals in a changing climate
- 17:45 **Singh, Joth** The CBF's ecosystem based adaptation facility: building resilience and reducing risk for Caribbean people to climate change through natural resources management and ecosystem services..

### POSTER SESSION WITH COCKTAILS & SNACKS: 19:00 (Sponsored by GCFI)

Coordinated by Charlotte Dromard (SEE END FOR LIST)



## FISHING HER - GENDER IN FISHERIES

**Location: Centro Cultural Banco de la Republica. (10-minute walk from the conference hotel)**

This year, the Gender in Fisheries session at GCFI, will feature a special event at Centro Cultural Banco de la República. The session, "Fishing Her" is organized and supported by a number of institutions - Universidad Nacional de Colombia - Sede Caribe (UN Caribe), Centro Banco Cultural Banco de la República (CCBR), Coralina, Gobernación Departamento Archipiélago de San Andrés Providencia y Santa Catalina - Secretaría de Agricultura y Pesca, the Centre for Resource Management and Environmental Studies (CERMES), and GCFI. The evening event from 16:00 - 18:30 will comprise discussions with Colombian fisherwomen, and the 2019 Fishing Her Calendar launch. For more Gender in Fisheries, join the GCFI poster session afterwards starting at 7pm and have a look at the special gender paper and e- posters, the women in fisheries videos from the Gender in Fisheries Team (GIFT).

16:00 **Santos Martinez, Adriana; Bermúdez, Irma and Peña, Maria** Opening remarks

16:10 **Peña, Maria** GIFT activities and the future

16:20 **Dialogue** Women's knowledge about the Sea

Lorena Pushaina, Guajira (Col)

Rafaela Hurtado, Buenaventura (Col)

Marlin Archbold Howard San Andrés(Col)

Leadith de la Cruz Brant, San Andrés (Col)

**Moderator:** María Matilde Rodríguez

17:10 **Dialogue** Fishing Her: Mujeres de Sol

Memories of Fisher Women and San Andres, Providence and Santa Catalina

Leadith de la Cruz Brant, San Andrés (Col)

Marlin Archbold Howard, Providencia(Col)

Virginia Gordon, San Andrés (Col)

**Moderator:** Ana Isabel Márquez

18:10 **Dialogue** Fishing activities of raizal women visible by documenting memories in audiovisual pieces – calendar, video and photos

**Recognition and certification**

Ana María Jessie UN SC

Adriana Santos Martínez - UN SC

Irma Bermúdez y Cira García- CC BR

María Peña CERMES – UWI

Dalila Aldana CINVESTAV MX

18:20 Calendar signing, distribution and photo opportunity - Caribbean and Colombia

19:00 Poster Session (**Hotel Decameron Isleño**)

## HURRICANE IMPACTS ON FISHERIES & MARINE RESOURCES MANAGEMENT RESPONSES AND PLANNING FOR FUTURE STORMS

*(Sponsored by FAO & GCFI)*

**Moderators: Alejandro Acosta, Iris Monnereau & Leroy Creswell**

- 08:15 **Jepson, Michael** Hurricane Harvey damage assessment: Provisional results for the Texas commercial and for-hire fisheries and associated businesses
- 08:30 **Callwood, Teresa** Improving small island resilience and self-sufficiency in habitat monitoring and management
- 08:45 **Mallalieu, Kim** Integration of telecommunications in Caribbean fisheries management: a resilience imperative
- 09:00 **McPherson, Matthew** Hurricane Irma damage assessment: provisional results for the Florida commercial & for-hire fisheries & associated businesses
- 09:15 **Fernando, Melendez Vazquez** Effects of Hurricane Maria on hamlet communities (*Hypoplectrus* spp., Serranidae) in the La Parguera Natural Reserve at Puerto Rico
- 09:30 **Monnereau, Iris** Hurricane preparedness and post-disaster needs of the fisheries sector in the Eastern Caribbean under the CC4FISH project
- 09:45 **Sabine, Alexis** An assessment of damages to the U.S. Virgin Islands fishing industry following Hurricanes Irma and Maria

## CONCURRENT SESSION

### FISHERS KNOWLEDGE EXCHANGE (8:00 - 10:00)

**Moderators: Don DeMaria and Anderson Kinch**

**Don DeMaria** Collecting marine life (tropical fish)

**Andres Maldonado** Conch fishing in Puerto Rico

**Angelica Mendez Gill** Net fishing in Guatemala

**Lalo Boné and Jose Gerhartz** Cuba's Sustainable Fisheries

**Harvey Robinson and Casimiro Newball** Activities in San Andres Islands

**Fermin Perez Orozco** Catching fish safely in Columbia

**Will Heyman** Closing remarks

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

### MEETING OF THE GCFI MEMBERSHIP (10:15 - 11:00)

**Everyone is welcome - Learn about GCFI!**

### REEF FISH ECOSYSTEM: DEMERSAL FISHERIES *(Sponsored by GCFI)*

**Moderator: Arthur Potts**

11:00 **Brownscombe, Jacob** Acoustic telemetry and stable isotopes inform connectivity between habitats and fisheries to influence management

11:10 **Lucena, Marcos B.** Parrotfishes sleeping sites

11:20 **Everett, Aminda** Red snapper movement patterns based on acoustic positioning around oil and gas platforms in the northern Gulf of Mexico

- 11:30 **Minster, Océane** Hogfish otolith shape analysis according to its ontogenic stages, size and collection areas
- 11:40 **Pedraza Marrón, Carmen del Rocio** Genomics to the rescue: when mitochondrial DNA and morphology conflict on the species delimitation of two red snappers
- 11:50 **Flower, Jason** Traps with gaps: testing fish traps with escape gaps as an option to improve the sustainability of the reef fishery in Montserrat
- 12:00 **Rincon-Sandoval, Luis** Factors influencing catchability on longline fisheries: The case of Red Grouper (*Epinephelus morio*), Yucatan Mexico
- 12:10 **Santos-Martínez, Adriana** Evaluation of artisanal fishing (years 2004 to 2017) and proposals for sustainable management, southern area of the Seaflower Biosphere Reserve - Colombian Caribbean
- 12:20 **Castaño, Diana** Use and administration of resources in the Seaflower biosphere reserve, Archipelago of San Andres, Providencia and Santa Catalina, snappers exploratory fishing in the southern keys
- 12:30 **Tewfik, Alexander** A SMARTer approach to collection of catch data for conservation and sustainability.

## LUNCH BREAK (12:40 - 14:00)

**VEMCO "ACOUSTIC TELEMETRY WORKSHOP" 13:30 - 16:00**  
**FOR REGISTRATION CONTACT KEITH.SPAFFORD@VEMCO.COM**

## FIELD TRIPS (14:00)

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

### Moderator: Fadilah Ali

Coral Connections (15:00)

More Corals = More Fish (6:30)

The Quest for 30% Marine Protection - Waitt Institute expeditions the Lesser Antilles (3:49)

Red Grouper - A Fishermen's Awareness Program (15:00)

Sustainable Fisheries Management Pioneer Course in Cuba (13:00)

Belizean Fishers Exchange to Xcalak, Mexico (5:20)

Project Permit (15:00)

De Fisheries (15:00)

Tales of the Belize Barrier Reef - Overfishing (3:21)

The Reef (7:50)

STINAPA Jr Rangers Explore Lac (8:45)

The Reef Protectors (3:20)

Ours to Protect (8:00)

Bonaire Fishermen Shark Project (3:00)

BEST of Sharks and Rays at St Barth (15:00)

## RECENT ADVANCES IN OPTICAL TECHNOLOGIES FOR IMPROVING REEF FISH ECOSYSTEM SURVEYS *(Sponsored by NOAA AND GCFI)*

**Moderator: William Michaels**

- 08:00 **León Rincón, Aicardo Hermann** Submarine geomorphology of the archipelago of San Andrés, Providencia and Santa Catalina (Western Caribbean) and the correlation with the potential distribution of fisheries
- 08:15 **Campbell, Matthew** Evaluation of two habitat complexity metrics and their relationship with fish abundance and diversity.
- 08:30 **Demer, David** The Combined Optical-Acoustic Survey Technique (COAST) for estimating the abundances and distributions of reef fishes, and mapping their seabed habitats
- 08:45 **Bolser, Derek** Spatio-temporal variation in fish density and distribution within a Gulf of Mexico shipping channel
- 09:00 **Egerton, Jack** Hydroacoustics for the discovery and quantification of Nassau grouper (*Epinephelus striatus*) spawning aggregations
- 09:15 **Mayorga Martínez, Melisa** Characterization of mesophotic coral ecosystems through the use of a multibeam sonar and a remotely operated vehicle
- 09:30 **Margolis, Sarah** Accessibility of big data imagery for next generation computer vision applications
- 09:45 **Michaels, William** Building scientific capacity with integrated technologies for the next generation marine ecosystem surveys

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

## REEF FISHERIES AND SPAWNING AGGREGATIONS *(Sponsored by GCFI & SCRFA)* Moderators: Martin Russell, Brad Erisman & Will Heyman

- 10:15 **Schärer-Umpierre, Michelle** Fish communications and associated behaviors: additions to the acoustic repertoire of groupers that aggregate to spawn
- 10:30 **\*Appeldoorn, Eric** Temporal patterns among multiple courtship associated sounds in the red hind *Epinephelus guttatus* indicate two spawning aggregations during a single lunar cycle
- 10:45 **Erisman, Brad** Relationships between spawning behavior and life history traits in Gulf of Mexico fishes: Implications for vulnerability assessments
- 11:00 **Cherubin, Laurent** New insights on fish spawning aggregation dynamics from autonomous robotic platform
- 11:15 **Donaldson, Terry** Male territory swamping increases courtship success in a lek-like mating system of a fish spawning aggregation
- 11:30 **Heyman, Will** Restoring Big Fish: cooperative research, conservation, and management program for spawning aggregations in the wider Caribbean
- 11:45 **Salceda, Ana** Restoring Big Fish: Communication strategy for fish spawning aggregations conservation and management in the wider Caribbean
- 12:00 **Semmens, Brice** Migratory behavior and spawning site fidelity of male tiger grouper (*Mycteroperca tigris*) based on acoustic tagging at a spawning site on Little Cayman, Cayman Islands
- 12:15 **Sherman, Krista** Genetic population dynamics and management of Nassau grouper within the Bahamas

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

## GCFI BOARD OF DIRECTORS MEETING (12:30 - 14:00)

## LIONFISH RESEARCH (Sponsored by GCFI & FWC)

### Moderator: Joanna Pitt

- 14:00 \***Holden, Harris** Efficacy of lionfish traps in the Northern Gulf of Mexico
- 14:15 \***Cambroner, Sergio** Taxonomic positioning and isotopic niche characterization of lionfish species complex (*Pterois volitans/miles*) in the South Caribbean, Costa Rica
- 14:30 \***DeRoy, Emma** Quantifying ecological impact of lionfish relative to co-occurring native predators: the influence of habitat heterogeneity on per capita impact
- 14:45 **Ali, Fadilah** A comparison of lionfish feeding ecology within the invaded region

## HABITAT & ECOSYSTEMS (Sponsored by GCFI) Moderator: Claude Bouchon

- 15:00 **Ashley, Altobelli** Shark movements and residency near artificial habitats in the northern Gulf of Mexico
- 15:10 \***Abigail, Cannon** The role of grazing by fish and sea urchins in structuring seagrass beds in Bocas del Toro, Panamá
- 15:25 \***Rodrigo Adrian, Rodriguez-Vazquez** Spatial analysis of Red Grouper's habitat affinity for decision support in fisheries management
- 15:40 **Aurélien, Japaud** Genetic diversity and connectivity of *Acropora* coral populations in the Lesser Antilles
- 15:50 **Lapointe, Brian** Nutrient enrichment as a factor driving macroalgal blooms on the Belize barrier reef complex
- 16:10 **Wilson, JoEllen** Characterizing sport fish nursery habitat with the help of citizen scientists
- 16:20 **Valderrama, Diego** Measuring environmental, economic and social sustainability of caribbean fisheries through the fishery performance indicators, an innovative rapid assessment tool

## COFFEE BREAK (16:30 - 16:45)

## REEFS AND ASSOCIATED ECOSYSTEMS: LOBSTER, CONCH & OTHER INVERTEBRATES. Sponsored by GCFI; Moderator: LeRoy Creswell

- 16:45 **Aldana Aranda, Dalila** Queen conch as indicator of pollution by microplastics in the Caribbean
- 17:00 \***Cruz-Marrero, Wilmelie** Comparing divers and camera sled surveys: an improvement for fisheries independent data for queen conch in Puerto Rico?
- 17:15 **Bertelsen, Rodney** Emigration patterns and den shifting for two life-stages of *Panulirus argus* (Latreille, 1804) in the Florida Keys, Florida, USA
- 17:30 **Butler, Mark** Directly Ageing the Caribbean Spiny Lobster, *Panulirus argus*
- 17:45 \***Ross, Erica** Avoiding viruses: how does a Caribbean spiny lobster deal with PaV1 and WSSV infected conspecifics

## BANQUET RECEPTION (VENUE & TIME TBC)

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

**Moderator: Emma Doyle**

- 08:00 **Prato Valderrama, Julian** Sargassum influx to the shores of San Andrés Island, Southwestern Caribbean
- 08:15 **Ody, Anouck** Multi-scale analysis of Sargassum aggregations: from in-situ to satellite observations
- 08:30 **Johnson, Donald** Holopelagic Sargassum and the complexities of predicting influxes and impacts on pelagic fisheries of the Lesser Antilles
- 08:45 **Sutton, Marion** Early detection and drift forecast of floating sargassum algae in the Caribbean region
- 09:00 **Weekes, Joseph** Testing the application of drone technologies in quantifying stranded sargassum seaweed
- 09:15 **Cox, Shelly-Ann** Towards the development of a sub-regional sargassum outlook bulletin for the Caribbean
- 09:30 **Speede, Richeda** Best practices for Caribbean fishers coping with sargassum influx events
- 09:45 **Charles, Charleen** Investigating the costs of sargassum impacts on livelihoods in the hotel industry
- 10:00 **Engel, Sabine** Sargassum: impact on tourism and fisheries and its cascading effects on Bonaire, Dutch Caribbean
- 10:15 **Collado-Vides, Ligia** A network to develop a taxonomic, monitoring & citizen's participation program for Sargassum landings in Florida, Mexico, Barbados & Brazil

## COFFEE BREAK (10:30 -10:45)

## PELAGIC AND RECREATIONAL ECOSYSTEM FISHERIES

(Sponsored by GCFI) **Moderator: James Franks**

- 10:45 **Wilson, Margaret** Caribbean FAD fisheries: status, trends, and drivers
- 11:00 **\*Duffing Romero Mareike** Spatial-temporal movement patterns of juvenile Atlantic tarpon (*Megalops atlanticus*) in Brewers Bay, St. Thomas, USVI
- 11:15 **Rubio-Rodríguez, Uriel** Gregarious behavior of the small pelagic fish in the Gulf of California using acoustic methods
- 11:30 **Lewis, Justin** Science that informs conservation for an economically important sport fish: Bahamas Case Study
- 11:45 **Altamar, Jairo** Use of artificial neural networks as a tool to rebuild the landings records of beach seine artisanal fishery in Taganga, Colombia
- 12:00 **Rehage, Jennifer** Tarpon connectivity in Cuba and their relation with the Greater Caribbean
- 12:15 **Santos, Rolando** Disentangling the effects of freshwater inflows, management and restoration on coastal recreational fisheries: Common Snook in the Florida Everglades

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

## CONTINENTAL SHELF FISHERIES (Sponsored by GCFI)

**Moderator: Alexander Tewfik**

- 14:00 **Baldwin, Kimberly** A Participatory GIS to support marine governance and an ecosystem approach for the management of Trinidad's Gulf of Paria shrimp trawl fishery
- 14:10 **Duarte, Luis Orlando** Application of the ecosystem approach to bycatch management plans in the trawl fisheries of Colombia
- 14:20 **Escobar Toledo, Fabian** Reduction of shrimp bycatch of the shallow water trawling fleet on the Colombian Caribbean Sea
- 14:30 **Lucky, Nerissa** Testing of a Bycatch Reduction Device (BRD) on a double rigged industrial trawler off the coast of Trinidad and Tobago
- 14:40 **Maira Alejandra, Torres Cabrera** Analysis of the value chain of bycatch in the shallow water shrimp fishery in the Pacific of Colombia
- 14:50 **Paramo, Jorge** Spatial structure of dwarf dory *Zenion hololepis* (Goode & Bean, 1896) (Zeiformes: Zenionidae): A deep-sea fish in the Colombian Caribbean
- 15:00 **Cuello, Félix De Jesús** Temporal change in landings and fishing effort of the artisanal shrimp trawl fishery in Gulf of Salamanca, Colombian Caribbean
- 15:10 **Willems, Tomas** Improving tropical shrimp trawling through eco-labelling: impacts of MSC certification in the Suriname seabob fishery

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

- 15:20 **Jonathan, Shenker** Bonefish (*Albula vulpes*) Restoration Research Program: reproduction & early life stage studies of bonefish in wild & aquaculture systems
- 15:35 **Ruben, Azcarate** Large scale reef restoration in the Seaflower Biosphere Reserve - San Andres, Providence and Santa Catalina Archipelago, Colombian Caribbean
- 15:50 **Rogers, Arlenie** *Holothuria floridana* and *Isostichopus badionotus* sea cucumber culture in former shrimp ponds, a Belize case study
- 16:05 **Thomas, Lennon R** The ecological and economic potential for offshore mariculture in the Caribbean

## COFFEE BREAK (16:20 - 16:45)

## STUDENT AWARD PRESENTATIONS (16:45)

Presentation of SCRFA Award

Presentation of the Ron Schmied Scholarship

Presentation of the GCFI Outstanding Student Achievement Awards

## CLOSING CEREMONY (17:00)

## Poster Session with Cocktails and Snacks

(Sponsored by GCFI) Coordinated by Charlotte Dromard

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

- 1 **Abril Howard, Omar** The Lanch boat in the islands of Old Providence and Ketlina in the Colombian Caribbean, Colombian Caribbean: The persistence of memory and traditional knowledge
- 2 \***Acevedo, Andrés** Historical changes in the fishing effort of the parguera fleet that operates from Taganga, Colombian Caribbean
- 3 **Acosta, Alejandro** Spatial and temporal recruitment of three young-of-the-year commercial snappers to nearshore seagrass beds in the Middle Florida Keys
- 4 **Alfonso Sanchez, Yusimí** Preliminary results of distribution of order bryopsidales (chlorophyta) in the mesophotic coral reefs of Cuba
- 5 **Altamar, Jairo** Ranking of fishing gear according to the impact that they cause on marine ecosystems in the northern of the Caribbean Sea of Colombia
- 6 **Andrews, Audwin Ashton** Lagoon Restoration - Union's Future
- 7 **Armstrong, Hyacinth** BIOPAMA: From Knowledge to Action for a Protected Planet
- 8 **Avila Cusba, Jose** Spatio-temporal distribution of pelagic species in relation to temperature and salinity in Magdalena, Colombian Caribbean
- 9 **Azcarate, Ruben** Current status (2017) of the queen conch (*Lobatus gigas*) (Linnaeus, 1758) populations in the Seaflower biosphere reserve, Serranilla bank, Courtown and Southwest Cays
- 10 **Azcarete, Ruben** Payment for environmental services scheme BanCO2 in the reef restoration in the San Andres, Providence and Santa Catalina Archipelago, Colombian Caribbean
- 11 **Baldeo, Roland** Giving new life and restoring Grenada's coral reefs through Biorock.
- 12 **Baldwin, Carole** Phylogenetic relationships of the deep-sea fish genus *Polylepidion* (Teleostei: Labridae), with a new species description from the Western Atlantic
- 13 **Becker, Nicholas** Judging Size Limits on Blue Marlin in the Gulf Coast Triple Crown
- 14 **Berline, Leo** Hindcasting the 2017 dispersal of Sargassum in the Tropical North Atlantic
- 15 **Bervoets, Tadzio** The Impacts of Hurricanes Irma and Maria on the Natural Marine Resources on Sint Maarten: Lessons Learned and Updated Management Techniques in Response to Natural Disasters
- 16 **Binder, Benjamin** Depredation mortality associated with catch-and-release angling on offshore Permit (*Trachinotus falcatus*) spawning aggregations in the Lower Florida Keys, USA.
- 17 **Böhm, Alissa** An assessment of the efficacy of Grenada's National Adaptation Plan: Implications for seagrass management in the Caribbean
- 18 **Bone-Moron, Eduardo** Capacity building, a pillar for marine conservation and sustainable fisheries in Cuba.
- 19 **Bouchon, Claude** The significance of the design of ecological moorings to enhance marine biodiversity.



- 20 **Bustos Montes, Diana** Parameters of invasive lionfish growth in the Caribbean coast of Colombia
- 21 **Callahan, Emily** Applications of Rigs-to-Reefs: An Ecotourism Case-Study in Southeast Asia
- 22 **Campbell, Matthew** Evaluation of two habitat complexity metrics and their relationship with fish abundance and diversity.
- 23 **\*Castillo, Monica** The Effects of Coupled Stressors on Estuarine Fish Behavior
- 24 **Cobián Rojas, Dorka** Potential impact of lionfish on the fish community in two marine protected areas of the Caribbean (Cuba and Mexico)
- 25 **Courrau, Jose** The IUCN Green List of Protected and Conserved Areas
- 26 **Cuello, Félix De Jesús** Association between the sea surface temperature & the dynamics of an artisanal fishery in the Gulf of Salamanca, Colombian Caribbean Sea
- 27 **Dalgleish, Fraser** Fish Identification and abundance estimation using eye-safe non-invasive underwater LiDAR detection and classification
- 28 **Daniel, Carla** Sargassum management and responses of the fisheries sector in the Eastern Caribbean under the CC4FISH project
- 29 **D'Cuire, Emilio** Network of Caribbean Municipalities of Honduras for the Conservation of Marine Resources.
- 30 **De León- Martínez, Gloria Cecilia** Biological and population parameters of the crab blue (*Callinectes sapidus*) of the Ciénaga Grande de Santa Marta, Colombian Caribbean
- 31 **De Oliveira, Vanildo** Use of BRDS as a sustainable solution in tourist air
- 32 **De Turrís, Karen** Current characterization of the industrial fishing of the Gulf of Morrosquillo, Colombian Caribbean
- 33 **Delgado Gutiérrez, Augusto, Carlos** Bathymetric characterization of the continental shelf in the departments of La Guajira and Magdalena, Colombian Caribbean
- 34 **Doyle, Emma** Best practices for responding to the sargassum influx
- 35 **\*Duarte Ribeiro, Emanuell** Post-Cretaceous bursts of evolution along the benthic-pelagic axis in marine fishes
- 36 **Duarte, Luis Orlando** Experimental trial of technological improvements in the artisanal trawl nets for the reduction of shrimp by-catch in the Gulf of Salamanca, Caribbean Sea of Colombia
- 37 **Elizondo, Ana Lucrecia** Barra del Colorado: a community of artisan fishermen and shrimp peelers from the Costa Rican Caribbean
- 38 **Escobar Toledo, Fabian** Mitigation of the impact of deepwater shrimp trawling in the Pacific of Colombia
- 39 **\*Estrada Galindo, Ingrid Julieth** State of population *Sphyræna barracuda* on San Andrés island, Bolívar and Albuquerque cays, Colombian Caribbean
- 40 **\*Figueroa Johnson, Gisell** Precision and accuracy of growth parameters for *Opisthonema oglinum* generated from different models and statistical techniques
- 41 **Fogg, Alexander** Monthly growth rate and population structure changes of northern Gulf of Mexico Red Lionfish (*Pterois volitans*) using a length-based population model
- 42 **Gaitan, Saeko** Role of women in aquaculture in the Caribbean region of Colombia
- 43 **Galvis, Nohora** NEW HOPE SPOT was declared based on fishers statistics and community involvement

- 44 **Garcia Monsalvo, Lian** Surface Oceanographic Conditions in the Colombian Caribbean (2003-2017) using remote sensing
- 45 **Garcia, Eduardo R** Biometric relations and maturity of *Xiphopenaeus kroyeri* in the Gulf of Salamanca, Caribbean Sea off Colombia
- 46 **Garcia-Escobar, Martha Ines** Densities, abundance and population structure of *Whelks Cittarium pica* (Linnaeus, 1758) (Mollusca: Gastropoda Trochidae) on the island of San Andres, Seaflower Biosphere Reserve
- 47 **Garcia-Valencia, Carolina** Caribbean Marine Atlas: supporting for decision-making the Caribbean Region
- 48 **Gerhartz-Muro, Jorge Luis** Biological Corridor in the Caribbean: a multinational cooperation approach to conservation in the Caribbean islands
- 49 **Giraldo, Javier** Training project for handcrafted fishermen in the capture and utilization of the lionfish
- 50 **González Máñez, Violeta** In situ measurements of jumbo squid, *Dosidicus gigas* target strength (TS) in the Gulf of California, Mexico
- 51 **González Rojas, Santiago** Feeding habits of large pelagic fish in waters of the Department of Magdalena, Colombia
- 52 **Gonzalez-Bernat, Maria Jose** The reef fish conservation project: recognizing the need for legal protections for the conservation of parrotfish and other herbivorous fish in Latin America
- 53 **Goodbody-Gringley, Gretchen** Molecular characterization of nearshore baitfish populations in Bermuda
- 54 **Goodbody-Gringley, Gretchen** Assessment and Management of Invasive Lionfish Populations in Bermuda
- 55 **Granderson, Ainka** Assessing vulnerability to climate change and disasters in Montserrat's fisheries: Using participatory three-dimensional modelling
- 56 **Griffin, Lucas** Keeping Up with the Silver King: Connecting the Spatial Ecology of Atlantic Tarpon (*Megalops atlanticus*) To Conservation Strategies
- 57 **\*Guyah, Nasheika** Larval fish diversity distribution within a coastal marine reserve: what light traps and plankton nets reveal
- 58 **Hernandez Pineres, Sebastian** Implementation of the colombian fishery observers program - POPC in the Colombian North Caribbean: successful case of the articulation of the public alliances - predicted with the artisan fishermen
- 59 **James, Johannie** Assessment of water use in the island of San Andrés: tourists, hotels and guesthouses
- 60 **Kalicharan, Leanna** Finfish bycatch discards in the artisanal shrimp fishery of Guyana
- 61 **Kington, Kelly** The effects of MPAs on the abundances of top predators, important herbivorous fishes and their health
- 62 **Knowles, Lindy** Findings of the Rapid Ecological Assessment of the Savannah Sound mangrove ecosystem in The Bahamas
- 63 **León-Pérez Mariana C.** Analysis of Historical Aerial Photographs and Satellite Data Reveal an Increase in Seagrass Cover in Caja de Muertos Island Nature Reserve, Puerto Rico: 1950 - 2014
- 64 **Lichtenegger, Juerg** New approach to integrated space-based surveillance of Sargassum

- 65 **Lizcano, Ruby** Evaluation of the jaiba resource fishery (*Callinectes sapidus* and *Callinectes bocourti*) in the Colombian Caribbean
- 66 **Llanos-Ruiz, Claritza** Dynamics of artisanal fishing and composition of fish catches from artisanal fishing landings in the Island Of San Andrés, Biosphere Reserve Seaflower, Colombia
- 67 **Lozano- Beltrán, Germán** Enrique Population and biometrics aspects of the bluntfoot swimcrab (*Callinectes bocourti*) of la Ciénaga Grande De Santa Marta, Colombian Caribbean
- 68 **Lucky, Nerissa** A Comparison of the Catch Composition in Artisanal Trawlers Fishing Within and Outside the One Nautical Mile Exclusion Zone in the Gulf of Paria, Trinidad
- 69 **Mancilla, Johan** TREMARCTOS-CORALINA
- 70 **Marquez, Cecil** A Fishers-led Community Awareness Campaign for the Establishment of a Marine Protected Area: A Case study for from Gouyave, Grenada
- 71 **Martinez, Jonathan** Seaflower Biosphere reserve NIMD-PMA and regional parks financial sustainability
- 72 **Marval Rodriguez, Angel** Inter and intraspecific differences of *Lutjanus campechanus* and *Lutjanus purpureus* in otolith shape
- 73 **Matos Caraballo, Daniel** Description of Hurricane María Impacts on the Puerto Rico's Commercial Fisheries
- 74 **Matos Caraballo, Daniel** Overview of Puerto Rico's Small Scale Commercial Fisheries During 2012-17.
- 75 **Matos Caraballo, Daniel** My First 30 years Studying the Puerto Rico's Commercial Fishery, 1988 – 2018; Achievements and Challenges.
- 76 **Mattos, Jesus** The potential of sport fishing as an alternative to artisanal fishing activities in Taganga, Colombian Caribbean.
- 77 **Maurer, Andrew** Impacts of the Caribbean Sargassum seaweed influx on sea turtle nesting ecology
- 78 **\*McBride, Mariah** Sargassum Landing and Movement as a function of North Atlantic Oscillation Variation and pH Differentials
- 79 **McConney, Patrick** Putting the Small-scale Fisheries Guidelines protocol into practice
- 80 **Moreno Munar, Andrés Alvaro** Control and management of the lionfish (*Pterois volitans*) through the use of nasas as a tool for its capture in the department of Bolívar, Colombian Caribbean
- 81 **Morrall, Clare** Sargassum Update from Grenada, Eastern Caribbean
- 82 **Muñoz-Salas, Karen** Histological development and morfo-cromatic scale of gonadic maturity for *Lutjanus synagris* (Perciformes: Lutjanidae) in the colombian Caribbean
- 83 **Myers, Alyson** Sargassum Aquaculture: Turning a Problem into a Solution
- 84 **Noyes, Timothy J** Biodiversity Responses to Targeted in situ Culling of Invasive Lionfish in Bermuda
- 85 **Olmeda, Manuel** *Diadema antillarum* grazing effects on algal/benthic cover and diversity in La Parguera Natural Reserve
- 86 **Olson, Jack** Recovery When You Are on Your Own: Case Study of the Isolated Mona Island Marine Reserve

- 87 **Perez Ferro, Daniel** State of the depth sea megainvertebrate communities in the Caribbean of Colombia
- 88 **Perez, Cristhian E** Integral management of yellowtail in Honduras's protected areas
- 89 **Perry, Harriet** Dispersal of red snapper larvae in the southern Gulf of Mexico
- 90 **Puritz, Alexandra** Sustainable Tourism as a Path to Preserve Cuba's Coastal and Marine Resources
- 91 **Ram, Mark** Impacts of mangrove habitat degradation on fish community structure along Guyana's coastal regions
- 92 **Robinson, Gianluc** Analysing the Mean Length of Sexual Maturity for the Lane Snapper (*Lutjanus synagris*) in Trinidad for Proper Catch Size Limits
- 93 **Rodriguez De Hoyos, Jorge Luis** Historical changes in the catch rates of the different types of Guajira coast gill net fisheries (colombian Caribbean)
- 94 **Rodriguez Redondo, Manuel Alejandro** Participative restoration of coastal habitats in Sosúa Submarine Park, Dominican Republic
- 95 **Rubio-Rodríguez, Uriel** A Practical Approach to Monitoring Marine Protected Areas
- 96 **Rueda, Mario** From research to political incidence: Fishing agreement between industrial and artisanal fishermen in a protected marine area of the Colombian Pacific
- 97 **Sanchez Pimienta, Mirla** Discards of the artisanal shrimp trawl fishery in the Gulf of Salamanca, Colombian Caribbean Sea
- 98 **Sandré, Fidji** Contamination of marine sediments by microplastics and adsorbed organochlorine pollution (chlordecone) in coral reefs of Guadeloupe (Lesser Antilles)
- 99 **Santaquiteria, Aintzane** Ultraconserved elements reveal an Indo-Pacific origin of Syngnatharia
- 100 **Schärer-Umpierre, Michelle** Deeper water fauna revealed incidentally by the Puerto Rico fishery
- 101 **Scott, Serena** Swordfish Management: How one exemption could impact a decade long management techniques' success.
- 102 **\*Sierra Condarcuri, Luis Enrique** Identification of marine emblematic and charismatic species, A sociocultural and ancestral approach for the indigenous community of Taganga-Colombian Caribbean.
- 103 **Sierra Escrigas, Silvia Lorena** Characterization of Isla Arena's Reef Community Through the use of Aerial Images and Actualization of its Ecological Units
- 104 **Sierra-Correa, Paula Cristina** Mangroves, Sea-grasses and Local Communities: Governance and experiences exchange of the integral management of biodiversity and its services at the Caribbean (MAPCO)
- 105 **Sintura Arango, Juliana** The Seaflower Scientific Expeditions as a strategy for the monitoring and appropriate management of fishing resources
- 106 **Thigpen, Robert** The Nexus of Marine Conservation Science Education and Fishing Communities of the Greater Caribbean Basin
- 107 **Torres Cabrera, Mayra Alejandra** Changes in fishing technology to improve the economic profitability indexes with environmental responsibility of the trawl fishery in Colombia
- 108 **Vallès, Henri** A quantitative description of marine fisheries in the southeast of Haiti

- 109 **Van Lavieren, Hanneke** More than a Decade of Protection of Marine Turtles of the Guianas
- 110 **Vasquez-Carrillo, Catalina** Eastern Guajira's Artisanal Fishery and Marine Turtle's Aggregations: Characteristics, Challenges and Opportunities for Conservation
- 111 **Viaggi, Castiglioni Jemilli** A portrait of the reef fish community from an important touristic destination in Southeastern Brazil
- 112 **Villamizar, Natalia** Traceability of common snook (*Centropomus undecimalis*) in Santa Marta markets.
- 113 **Walcott, Julian** Advancing an Ecosystem-Based Management Decision Support System (EBM/DSS) in the Caribbean
- 114 **Walcott, Julian** Increasing the visibility and influence of data in decisions for Biodiversity and Protected Area Management
- 115 **Whittaker, Kerry** Molecular divergence of holopelagic Sargassum species using extensive field samples from the tropical and subtropical Atlantic
- 116 **Willems, Tomas** Evaluating Turtle Excluder Devices (TEDs) with reduced bar spacing for bycatch reduction in the Suriname seabob shrimp trawl fishery
- 117 **Willems, Tomas** Testing flexible Turtle Excluder Devices (TEDs) in the demersal trawl fishery off Suriname
- 118 **\*Wilson Aguirre, Hugo Alejandro** Analysis of the artisanal capture of ThunnusSpp and its relation with parameters Oceano-Atmoferico "Sea surface temperature, waves, winds and currents" on the island of San Andrés insular Caribbean
- 119 **Zamora Bornachera, Anny Paola** Impacts of climate change on tourism in Colombian Caribbean coastal zone
- 120 **Zuñiga Clavijo, Harley** Technological changes in encircling gillnets operating in the Colombian Caribbean and its effect on landings and fishing sites

## GENDER IN FISHERIES POSTER SESSION

- 121 **Enriquez Diaz, Martha** Gourmet Plate of Yucatan Fishing in the hands of women
- 122 **Joseph, Debra** Story-telling with photo-voice: Women fisherfolk Barbados-a gendered lens
- 123 **McConney, Patrick** Caribbean Fisheries: Perspectives On Gender Too
- 124 **Simmons, Bertha** Women at work in the Barbados fishing industry: fortunes of a female forklift driver

### E- Posters

- Peña, Maria** How has organization benefited women in the Barbados flyingfish fishery A look from within
- Simmons, Bertha** Caribbean Small-Scale Fisherwoman Learning Exchange in Costa Rica: Women's Voices
- Perch, Lisa** Gender-transformative approaches to development in coastal and fishing communities in the English-speaking Caribbean