



GULF AND CARIBBEAN
FISHERIES INSTITUTE, INC.

PROGRAM

GULF AND CARIBBEAN FISHERIES INSTITUTE 62nd Annual Conference



2 NOVEMBER 2009 - 7 NOVEMBER 2009

HOSTED BY:

Instituto Oceanográfico de Venezuela - Universidad de Oriente



AT THE NUEVA TOLEDO HOTEL & SUITES
CUMANA, VENEZUELA



62th Annual Conference of the Gulf and Caribbean Fisheries Institute

2 November 2009 – 6 November 2009

Monday: November 2, 2009

OPENING CEREMONY (08:30 - 10:15)

Opening Address: James Franks, **Chairman, Board of Directors, GCFI**

Program Chair: Alejandro Acosta, GCFI and Freddy Arocha, Instituto Oceanográfico de Venezuela.

Dignitaries:

Milena Bravo, Rectora UNIVERSIDAD DE ORIENTE

William Senior, Decano NUCLEO DE SUCRE-UDO

Luis Acuña, MIN Educación Superior

Gilberto Gimenez, Presidente de INSOPESCA

Representante, MIN AMBIENTE

Carlos Gimenez, Presidente de FUNDATUN

H.E. Dr. Mikko Pyhälä, AMBASSADOR OF FINLAND TO VENEZUELA, concurrent in Barbados, Colombia, Dominican Republic, Guyana, Jamaica and Trinidad and Tobago and the Plenipotentiary Representative Designate to CARICOM

Mayré Jiménez, Directora INSTITUTO OCEANOGRÁFICO DE VENEZUELA - UDO

Keynote Address: Dr. Daniel Pauly

"If you didn't like overfishing, you sure won't like global warming"

Break (10:15 - 10:45)

COASTAL RESOURCES AND HABITAT (10:30-12:30)

Session Moderator: Graciela Moliner

- 10:45** Gibson, T. Coastal construction decisions based on water-user knowledge and science: East Florida Products.
- 11:00** Ramos, A.F. Precautions and tools for management of tropical fish resources in artisanal fisheries.
- 11:15** Begin, C. Relationships between reef composition and sediment size and source in the eastern Caribbean.
- 11:30** Vaslet, A. Mangroves and seagrass beds as feeding areas for fishes of commercial interest in a Caribbean island.
- 11:45** Rosales, A. Attraction or production of fishes in artificial habitats: a review. (*Student*)

12:00 Jeffrey, C. F.G. Spatial patterns in benthic composition of nearshore seascapes and implications for reef fish populations and fisheries.

Lunch Break (12:15-13:30)

GCFI SPECIAL SESSION: 'ARE TROPICAL BOTTOM TRAWL FISHERIES SUSTAINABLE? IMPLICATIONS AND ALTERNATIVES' (13:30-17:30)

Session Moderator: Jeremy Mendoza

13:30 Mendoza, J. Autopsy of the Eastern Venezuela trawl fishery: analysis of landings and fishing effort data.

13:45 Gonzalez, L. Spatial and distribution of the demersal fishing resources exploited by industrial fleet of trawlers the Gulf of Venezuela

14:00 Alio, J. Techniques for reducing bycatch in the shrimp fisheries of Eastern Venezuela

14:15 Escobar-Toledo, F.D. Bycatch reduction in a tropical shrimp fishery. experimental results of changing the material of trawl nets

14:30 Nalovic, M.A. Reducing the effects of shrimp trawl fisheries on the Guiana's Shield Ecosystem: a regional perspective

14:45 Altamar, J. Are traps an alternative to shrimp trawling fishery?

15:00 Alvarez, R. Population parameters and exploitation status for some indicator species of industrial trawl fishing in the Gulf of Venezuela, during the period 1995-2001.

Break (15:15-15:30)

15:30 Molinet, R. Trawl fishery in Venezuela: an historical analysis and alternatives evaluation

15:45 Paramo, J. Morphological homogeneity of shrimp *Farfantepenaeus notialis* (Pérez Farfante, 1967) in Colombian Caribbean Sea. (*Student*)

16:00 Pomares-Ferraz, O. Why the trawl fishery became unsustainable in Venezuela? Case Study: the trawl fishery of the Gulf of Venezuela (1956-2008).

16:15 Duarte, L, O. Bottom trawl bycatch assessment of the shrimp fishery in the Caribbean Sea off Colombia: experimental test of mitigation measures.

16:30 Marval Rodriguez, A.L. Ecological indicators of fish species captured by the artisanal fisheries trawlers shrimp in the Gulf of Paria.

16:45 Panel Discussion and Recommendations

Informal Reception & Welcome Address (19:00)

Robert Glazer, Executive Director, GCFI

Student Social: Students and GCFI Board of Directors (20:00)

TUESDAY: November 3, 2009

GCFI BUSINESS MEETING (07:15 - 08:20)

GMA REGIONAL FISHERS SUMMIT -- PLENARY SESSION (08:30-12:15)

8:30 Welcome and introduction -- Anderson Kinch, Chairman and GMA winner, Barbados with Will Heyman, Co-chairman and scientist, USA

- 8:40** Keynote: Challenges and opportunities for sustainable fisheries -- Jaime Medina, GMA winner, Mexico
- 9:00** Ecosystem Based Management and fishers' vision for sustainability -- Mitchell Lay, GMA winner, Antigua and Barbuda
- 9:20** Enforcement and compliance: priority issues for fishers -- Claudio Gonzalez, GMA winner, Dominican Republic
- 9:40** Opportunities to diversify fisheries to sustain fishers' livelihoods -- Eloy Cuevas, GMA winner, Belize

Break (10:00 – 10:20)

- 10:20** Fishers involvement in fisheries management and policy -- GMA panel of keynote speaker, topic presenters and other GMA winners Harvey Robinson (Colombia), Ceylon Clayton (Jamaica), Carlton 'Jack' Young (Belize), Toribio Mata (Venezuela) plus Anderson Kinch (Barbados and panel chair)
- 10:50** Discussion between GMA panel and audience on presentations, priority actions and partnerships -- discussion moderated by the Chair and Co-chair
- 11:50** Closing summary and follow-up action -- Chair and Co-chair
- 12:15** Close

Lunch (12:15-13:30)

SOCIO-ECONOMICS AND FISHERIES MANAGEMENT (13:30- 1715)

Session Moderator: Martha Prada

- 13:30** Parsram, Kemraj. People, Issues and Networks in Small-scale Fisheries in the Eastern Caribbean. *(Student)*
- 13:45** Castro Gonzalez, E.R. Effects of the economic recession and other political factors on the spiny lobster industrial fishery in Colombia.
- 14:00** Ballesteros, C. The finfish fishery in the Archipelago of San Andres, Providencia and Santa Catalina, Colombia: status and management proposals.
- 14:15** Cárdenas J.J. Artisanal marine fisheries in eastern Venezuela: evolution and behavior during the last 20 years.
- 14:30** Johnson, A. E. Escape gaps reduce fish trap bycatch without reducing catch value. *(Student)*

Break (14:45-15:00)

- 15:00** Chavez, E.A. Bioeconomic assessment of a spiny lobster fishery of the Northwestern Caribbean.
- 15:15** Roche, J. Networks among the fishers: network analysis among fishers and the associate livelihoods in the fisheries sector in Trinidad and Tobago.
- 15:30** Vang, S. Marine debris reduction using community-based social marketing and other behavioral change.
- 15:45** Norris, N. Ghost fishing by lost and derelict fish pots in Commonwealth of Dominica.
- 16:00** Laurent, L.J. The artisanal coastal net fishery in Guadeloupe and Martinique, FWI.
- 16:15** Alvarez-Ereipa, B. Strategy of trading in small-scale fisheries: Case the fish market of Palamós in the fisheries harbour and their application for small-scale fisheries in Venezuela. *(Student)*
- 16:30** Tavares, Rafael. Fishery Production Trends of Elasmobranchs From Venezuela: With Emphasis On Sharks.

16:45 Shivilani, M. Impacts of non-fishery factors on the performance of commercial fisheries and the sustainability of fishing.

17:00 Maharaj, B. Using the 'la pêche' system in understanding the seasonal incomes of artisanal fishers in Trinidad.

TUESDAY EVENING

GCFI POSTER SESSION – RECEPTION (19:30)

Poster Session Coordinator: Read Hendon

AQUACULTURE

- 1** Aguado, Nieves. Epibionts and Parasite of Juvenile Penaeid Shrimp from the North-Eastern Region of Venezuela.
- 2** Parra Medina, Juan de la Cruz. Effect of the Density of the Mollusk Bivalves *Polymesoda solida* and *Geukensia demissa* in the Formation of Nitrogenous Products and Their Implications in the Use as Biofilters in Aquaculture.

COASTAL RESOURCES AND HABITAT

- 3** Carne, Lisa. Conch-like Sand at Laughing Bird Caye National Park, Belize.
- 4** Castillo, Isabel. Recovery of the Natural Bank of the Mangrove Oyster, *Crassostrea rhizophorae*, from Nacional Parque Laguna of La Restinga, Margarita Island, Venezuela.
- 5** Edwards, Kimberly. A Comparison of Benthic Habitat Survey Methodologies as part of an NCCOS Integrated Assessment within the Tortugas Ecological Reserve.
- 6** Ferrer, Orlando. Early Life Stages of Fishes in Plant Communities in a Cove at Aliceville Lake, Alabama-Mississippi, USA.
- 7** Hendon, Read. Acoustic Mapping of Nearshore Coastal Waters: a Cost-effective Method for Delineating Benthic Habitats.
- 8** Herrera-Moreno, Alejandro. Fishery Ecological Complexes in Samaná Bay, Dominican Republic.
- 9** Quinn, Norman. Habitat Description of the St. Croix, U.S. Virgin Islands South Coast Mutton Snapper (*Lutjanus analis*) Conservation Area.
- 10** Sullivan Sealey, Kathleen. Threats to Marine Food Chains from Persistent Marine Debris and Accumulation of Organic Pollutants: the Pangaea Expedition Survey of Atlantic Gyres.
- 11** Wallace, Cherece. Utilizing Three-Dimensional Ocean Model Maps of Buccoo Reef for Marine Park Management.

BIOLOGY AND FISHERIES OF DEMERSAL AND REEF FISHES

- 12** Doncel, Oscar. Spatial Segregation in Diet of the Lane Snapper, *Lutjanus synagris* (Perciformes: Lutjanidae), in the North Zone of the Colombian Caribbean.
- 13** Hernandez Pulido, Guillermo. Feeding Behavior of the Joso Catfish (*Sciades couma*) in the Mouth of the Caño Macareo, Orinoco Delta, Venezuela, During the Dry Season of 2009.
- 14** Houtman Gonzalez, Ondina. Reproduction and Fecundity of Joso Catfish (*Sciades couma*) in Caño Macareo, Orinocos Low Delta, Venezuela.
- 15** Manzanero-Vázquez, Eddie. Fishing, Management and Conservation of the Negrillo (Black Grouper), *Mycteroperca bonaci*, Off the Northern Yucatan Peninsula.

- 16 Meza-León, Aída. Age and Growth of *Rhomboplites aurorubens* (Cuvier, 1829) (Perciformes: Lutjanidae) Captured in the Continental Platform of the Department of Atlántico, Colombian Caribbean, 2007-2008.
- 17 Pardo, Rafael. Effects of Small-scale Fisheries on Lengths of *Lutjanus synagris* in the Gulf of Salamanca, Colombia Caribbean Sea.
- 18 Rivera-Reyes, Jemimah. Discriminant Morphometric Analysis of Five Species of the Genus *Mugil* (Teleostei: Mugilidae).
- 19 Rodríguez-Quintal, José Gregorio. Cryptobenthic Coral Reef Fishes at Isletas de Píritu, Edo, Anzoátegui, Venezuela.
- 20 Ruiz, Lilia. Distribution, Abundance, and Biometric Aspects of *Lutjanus griseus* (Lutjanidae) in Bocaripo Lagoon, State of Sucre, Venezuela.
- 21 Tzadik, Orian. Rugosity as a Determinant of Scarid Species Composition on Shelf Edge Reefs in La Parguera, Puerto Rico.

BIOLOGY AND MANAGEMENT OF INVERTEBRATES

- 22 Aldana-Aranda, Dalila. Reproductive Cycle of the Queen Conch *Strombus gigas* (L. 1758) in Belize.
- 23 Burgos-León, Aretha. Discards from the Artisanal Shrimp Fishery in a Protected Natural Area, Mexico.
- 24 Butler, Mark. Comparison of Lobster Postlarval Recruitment Patterns in the Caribbean: a CRTR Project.
- 25 Chávez Villegas, José Francisco. Abundance of Veliger Larvae of *Strombus gigas* (Linnaeus, 1758) in the Mesoamerican Reef.
- 26 Hernández, Oscar. Fishery of the Mangrove Oyster, *Crassostrea rhizophorae*, in Parque Nacional La Laguna de La Restinga, Margarita Island, Venezuela.
- 27 Manzo, Nathaly. Evaluation of the Lobster Fishery (*Panulirus argus*) in the Los Roques Archipelago National Park (Venezuela), through a "ParFish" analysis.
- 28 Marval Rodríguez, Angel Luis. Size Selection of White Shrimp, *Litopenaeus schmitti*, and Three Fish Species Caught by Shrimp Trawl Fishing in the Gulf of Paria.
- 29 Mass, Francis. Mollusk Community of the Punta de Piedras Coastal Lagoon System, Isla de Margarita, Venezuela.
- 30 Montserrat, Bravo. Abundance and Distribution of Queen Conch (*Strombus gigas*) Veligers of Quintana Roo, Yucatan Peninsula, Mexico.
- 31 Ríos Lara, Gloria Verónica. Analysis of Juvenil Lobsters *Panulirus argus* Length-Growth Relationship in Biosphere Reserve of Banco Chinchorro, Quintana Roo, Mexico, Using Tagged-Recapture Data.
- 32 Santos-Valencia, Josefina. Composition of species, morphometry and catch efficiencies of marine gastropods in Campeche State, Mexico.

SCIENCE AND MANAGEMENT OF MARINE PROTECTED AREAS

- 33 Arceo-Carranza, D. Day-Night Variation of Fish Assemblages at two Habitat types in a Reserve: Laguna Costera De Celestún.
- 34 Danicumuru, Danieli Marinho. The Fisherman and the Sea: Marine Protected Area Sustainability in the Extreme Southern Bahia.
- 35 Cazaubon, N. The Soufriere Marine Management Area: Success Story and Lessons Learned.

- 36 Herrera-Reveles, Ana. Ichthyoplankton Spatial Comparison over Different Marine Environments on Two Mochima Bay Inlets, Mochima National Park, Venezuela.
- 37 Garcia, Jessica. Movement Ability of Coral Fish and the Effect on the Connectivity between Marine Protected Areas (MPA).
- 38 McField, Melanie. Using an Eco-Health Report Card to Catalyze Management Actions in the Mesoamerican Reef.
- 39 Requena, Nicanor. Using Incentives to Manage Fisheries in Marine Reserves: Community-Based Management and Catch Shares.

PELAGICS AND RECREATIONAL FISHING

- 40 Ault, Jerry. Bonefish and Tarpon Conservation Research: Improving Understanding of Bonefish and Tarpon Stock-wide Movements and Population Dynamics throughout the Southeastern U.S., Gulf of Mexico and Caribbean Sea.
- 41 Cervigon, Fernando. First Report of a Whale Shark Neonate (*Rhyncodon typus*) for Venezuela.
- 42 Correia, Manuel. Marine Mammal Sightings in the Caribbean and Western Central Atlantic during an Onboard Pilot Monitoring Program on Venezuelan Tuna Seiners
- 43 Giménez-Hurtado, Enrique. Sport Recreational Fishing in the Coastal Sector Sierra Morena - Punta Higuereta, Villa Clara North Coast, Cuba.
- 44 Gonzalez, Luis. Comparison of the Morphological Structure of the Fish Schools Determined in the Atlantic Eastern Center (Senegal) and Western Center (East of Venezuela).
- 45 Lasso-Alcalá, Oscar. First Record of Oarfish, *Regalecus russellii* (Shaw, 1803) (Lampriformes, Regalecidae), from the Atlantic Ocean (Northern South America), with Comments on the Species of the Genus.
- 46 Gonzalez, Luis. Ichthyoplankton in the Cariaco Basin during the Rainy Season.
- 47 Pomare, Clinton. Fishing Biology of *Elagatis bipinnulata* (Quoy & Gaimard, 1824) on San Andres Island, the Colombian Caribbean.
- 48 Pomare, Clinton. History of the Bonito, *Thunnus atlanticus* (Lesson, 1831), Commercial Species and Traditional Fish Bait of the Island of San Andre, the Colombian Caribbean.
- 49 Monroe, Joel. Analysis of Water Mermaid Loss of Tuna, *Katsuwonus pelamis*, during Storage, Prior to Processing, in a Fishery on Cumana City, Venezuela.
- 50 Tavares, Rafael. Artisanal Fishery and Catch Structure of the Smalleye Smooth-hound Shark, *Mustelus higmani* (Springer & Low, 1963), from the Northeastern Region of Venezuela.
- 51 Sánchez, Leonardo. The Maracaibo System and its Importance as Shark Nursery Area.

SOCIO-ECONOMICS AND FISHERIES MANAGEMENT

- 52 Bustos-Montes, D.M. Ichthyofauna discarded by an artisanal shrimp fishery in Isla del Rosario coast, Colombia, southern Caribbean Sea.
- 53 Castro Gonzalez, E.R. Integrated actions implemented in the recovery of the queen conch (*Strombus gigas*) in two reef complex of the Seaflower Biosphere Reserve, Colombia.
- 54 Claro, Rodolfo. A Database on the Fishes of Cuba.

- 55 Cordoves, Minerva. Catch Composition of the Longnose Stingray, *Dasyatis guttata* (Bloch & Schneider, 1801), from the Artisanal Fishery Conducted in the Cubagua Island, Venezuela.
- 56 Correia, Manuel. Venezuela National Observer Program: 10 Years of Monitoring Aboard Vessels of Different Fisheries.
- 57 Cox, Shelly-Ann. A Resilience Based Framework for Evaluating Adaptive Co-management of the Sea Urchin Fishery in Barbados.
- 58 D'Amico, Andrea. Evaluation of the Banning of Bottom Trawl Fishing on the Offer of Fish and Seafood in Caracas' City Fishing Parlors.
- 59 Debrot, Denise. Evolutionary Relationships of Bonefishes (*Albula* spp) from Venezuela (South Caribbean), Based on Cytochrome b Sequence Analyses.
- 60 Ernesto, Ron. Description of the Artisanal Fisheries of Skates (Pisces: Elasmobranchii) Made in Cubagua, Venezuela.
- 61 Ferrer, Orlando. Catch Dynamics, Growth, and Reproduction of Striped Mojarra, *Eugerres plumieri*, in Lake Maracaibo, Venezuela.
- 62 Garcia-Hernandez, Victor. Evaluation of Juvenile Fish Assemblages Pre- and Post-Hurricane: the Impact of Hurricane Wilma on Beta Diversity.
- 63 Guardiola, Oneida. A Vision of Competitive Traditional Fishing in the Department of Atlantico, the Colombian Caribbean.
- 64 Haynes, Carmel. Consensus Building in Developing the CRFM Common Fisheries Policy and Regime.
- 65 Herrera-Reveles, Ana. Two Methods of Sampling Larvae and Pelagic Fishes Over Coastal Marine Ecosystems: a Comparison from the Bahía de Mochima, Mochima National Park, Venezuela.
- 66 Jue, Nathaniel. What Can Patterns in Effective Population Size Tell Us About Real Populations? Reconciling Population Dynamics and Population Genetics Using Approximate Bayesian Computations.
- 67 Keithly, Walter. An Econometric Model of the World Shrimp Market and Estimated Impacts Associated With Increasing Cultured Production.
- 68 Manzanares, Marcos. Theoretical Morphology of the Characiidae (Actinopterygii: Characiiiformes) Pectoral Fins.
- 69 Keithly, Walter. Oyster Demand Response to a Change in Regulatory Environment.
- 70 Matos, Daniel. Comprehensive Census of the Marine Fishery of Puerto Rico, 2008.
- 71 McConney, Patrick. Networks in the Governance of Fisheries in Trinidad and Tobago.
- 72 Medina-Quijano, Humberto. Integral Evaluation of the Shrimp Artisanal Fishery in a Coastal Lagoon of the Yucatan Peninsula, Mexico.
- 73 Michaels, William. Quality Assurance of Scientific Integrity for Fisheries Management in the United States.
- 74 Nuñez, Enrique. A Composed Indicator of Sustainable Artisanal Fishery on Coastal Zones by Multifactorial Analysis of the Relationship of Ecological Metrics and Socioeconomical Variables: Campeche State, Gulf of Mexico.
- 75 Olaya-Nieto, Charles. Length-weight Relationship of Striped Mojarra, *Eugerres plumieri*, in the Cordoba's Caribbean Sea.
- 76 Paramo, Jorge. Relationship of Spatial Structure of *Eucinostomus argenteus* (Pisces: Gerreidae) with Habitat Conditions in the North Zone of the Colombian Caribbean Sea.

- 77 Pedroza, Carmen. From Reactive to Proactive Change and the Business Management Philosophy in the Fishing Activity of Yucatan.
- 78 Pena, Maria. Socio-economic Monitoring by Caribbean Fishery Authorities.
- 79 Posada, Juan Manuel. Online Electronic Guide on the Coastal Fishes of Venezuela.
- 80 Potts, Arthur. Evaluating the Needs of the Fishing and Associated Livelihoods in the Coastal Fishing Sector of Trinidad and Tobago.
- 81 Ran, Tao. The Influence of Economic Factors in Location Choice Behavior by Gulf of Mexico Shrimp Fishermen and Management Implications.
- 82 Salas, Silvia. Factors that Enhance Resilience in Coastal Communities: a Case Study in Yucatan, Mexico.
- 83 Silva Acuña, Annie. Population Structure and Reproductive Indices of mullet, *Mugil liza* (Valenciennes, 1836) (Pisces: Mugilidae), in Pedernales, Delta Amacuro State, Venezuela.
- 84 Soomai, Suzuette. Information and Influence in Fisheries Management: A Case Study of the Shrimp and Groundfish Resources in the Brazil-Guianas Continental Shelf.
- 85 Valles, Henri. A Preliminary View of the Artisanal Fishery in the Southeast of Haiti.
- 86 Zúñiga, Harley. Advantages and Disadvantages of Incorporating Machinery into the Artisanal Fleet "Parguera" Operating in the Caribbean Sea of Colombia.

WEDNESDAY: November 4, 2009

**GMA REGIONAL FISHERS SUMMIT -- FISHERS FORUM (limited participation) (08:00-10:00)
(Concurrent session)**

- 8:00 Introduction to Forum aims, outputs and organization -- Mitchell Lay, GMA winner, Antigua and Barbuda, Chair
- 8:10 Summary of main discussion topics from Summit plenary and field trip
- 8:30 Small group discussions for final fisher agreement on priorities, actions and means of implementation
- 9:30 Summary presentations; recording all recommendations for the report
- 10:00 Close

BIOLOGY AND FISHERIES OF DEMERSAL AND REEF FISHES (08:00-10:30)

Session Moderator: Alfonso Aguilar-Perera

- 8:00 Gomez, G. Biology of the southern kingcroaker, *Menticirrhus americanus*, in the Gulf of Paria, Venezuela
- 8:15 Molinet, R. Evaluation of the fishing resources in the Venezuelan eastern region.
- 8:30 Aiken, K. First characterization of the Jamaica spearfishing sector.
- 8:45 Rincón-Sandoval, L. Diet of Yellowtail Snapper *Ocyurus chrysurus* (Lutjanidae: Lutjaninae) and its Temporal Dietary Shifts in the Yucatan Coast, Mexico. (*Student*)
- 9:00 Kingon, K. Movement and distribution patterns of the recovering goliath grouper population in Florida. (*Student*)
- 9:15 Nuñez, E. Separating spatial and environmental variation of reef fish communities: pcnm and partitioning analyses.
- 9:30 Lindeman, K. Dog snapper (*Lutjanus jocu*) in riverine through reef habitat systems, Abrolhos Bank, Brazil.
- 9:45 Pitt, J. M. Bluestriped grunt (*Haemulon sciurus*) in Bermuda: age, growth and reproduction studies.
- 10:00 Bouchon, C. Are shipwrecks good habitats for reef fish communities? The case of "Augustin Fresnel" in Guadeloupe.

10:15 Marval, J.L. Fisheries activities at Nueva Esparta State, Venezuela.

Break (10:30 - 10:45)

BIOLOGY AND MANAGEMENT OF SPAWNING AGGREGATIONS (10:45-1300)

Session Moderator: Tammy Trott

- 10:45** Aguilar-Perera, A. Grouper spawning aggregations off the Yucatan Peninsula, Mexico: fishing, management, and conservation.
- 11:00** Schärer, M. Protecting a multi-species spawning-aggregation at Mona Island, Puerto Rico.
- 11:15** Trott, T.M. Occurrence and management of a spawning aggregation of bluestriped Grunt (*Haemulon sciurus*) in Bermuda.
- 11:30** Castellano-Zapata, E. Validating a spawning aggregation of red hind, *Epinephelus guttatus*, in the Alacranes Reef National Park, off northern Yucatan Peninsula, Mexico. (*Student*)
- 11:45** Kojis, B. Validation of a mutton snapper (*Lutjanus analis*) spawning aggregation off St. Croix, U.S. Virgin Islands.
- 12:00** Kadison, E. Evidence for a Nassau grouper (*Epinephelus striatus*) spawning aggregation recovery on the Grammanik Bank, U.S. Virgin Islands.
- 12:15** Donaldson, T. Spawning aggregations of two nesting triggerfishes (Balistidae).
- 12:30** Pina-Amargos, F. Dynamics of an aggregation site of groupers (Serranidae) en Jardines de la Reina, Cuba.

Lunch Break (12:45-13:45)

FIELD TRIP (14:00- 17:00)

Visit to Cumana.

CINEFISH (Wednesday evening, 18:30-21:00)

THURSDAY: November 5, 2009

GCFI SPECIAL SESSION: ‘SUCCESS STORIES IN MARINE CONSERVATION IN THE WIDER CARIBBEAN: APPLYING ECOSYSTEM-BASED MANAGEMENT AND FACING THE CLIMATE CHANGE’ (08:00-12:00)

Session Moderator: Georgina Bustamante

- 8:00** Garbutt, L. et al. Towards a mature and organized tourism.
- 8:15** Foster, N. et al. TIDE’s Enhancing marine conservation through community participation.
- 8:30** Hernández Avila, A. et al. The implementation of Cuba’s National Subsystem of Marine Protected Areas since its creation in 2001: highlights and lessons learned.
- 8:45** Prada, M. et al. Ecosystem-based approach applied to an adaptive management plan in the Seaflower MPA: a pilot experience facing the global climate change adaptation.
- 9:00** Torres, R. The miracle of fish at la caleta, Dominican Republic.
- 9:15** MacIntosh, S. et al. The development of a Caribbean regional network of fisherfolk organisations and its role in influencing fisheries policy.
- 9:30** Gluck, S. Accomplishments and lessons learned in marine protected area management in the Tobago Cays Marine Park, St. Vincent & the Grenadines.

Break (9:45 - 10:00)

- 10:00** Zenny, N. Fisher exchanges, a vehicle for change: case study with Belize and Jamaica.
- 10:15** Klein, E. et al. Planning for the conservation of marine biodiversity in face of offshore gas exploitation in Venezuela
- 10:30** Medina, J and B Reveles. Chinchorro Biosphere Reserve 10th years of work
- 10:45** Sullivan Sealey, K. et al. Fifty years of marine park and marine reserve history in the Bahamas: the role of partnerships, people and conservation focus
- 11:00** Aldana-Aranda, D. Histories of success for the conservation of populations of queen conch (*Strombus gigas*) population.
- 11:15** Panel Discussion and Recommendations

Lunch Break (12:00-13:00)

GCFI SPECIAL WORKSHOP: CHARACTERIZATION AND PREDICTION OF TRANSIENT REEF FISH SPAWNING AGGREGATIONS IN THE GULF AND CARIBBEAN REGION. (invited participants) (13:00- 17:00) Session Moderator: Will Heyman Kim Waddell and Rick Nemeth

SCIENCE AND MANAGEMENT OF MARINE PROTECTED AREAS (13:00-16:30)

Session Moderator: Ken Lindeman

- 13:00** Chávez-Hidalgo, A. Evidences on the connectivity of coral reefs of the Gulf of Mexico and the Mexican Caribbean.
- 13:15** Dalton, T. Social and ecological factors affecting the performance of marine reserves in the wider Caribbean.
- 13:30** Diaz- Vescas, R. Exploring the role of a tropical marine protected area to mitigate fishing impacts on ecosystem: a meso-scale spatial simulation approach.
- 13:45** Hawtof, D. Evaluation of spillover using lobster size and catch rates from commercial traps fished near and distant from marine protected areas in the Florida Keys.
- 14:00** Paris, C. Influence of projected temperature changes in the Caribbean on population networks of coral reef fishes.
- 14:15** Paramo, J. Marine Protected Areas (MPAs) as tool for demersal fisheries management in the North Zone of Colombian Caribbean. (*Student*)
- 14:30** McCoy, C. An evaluation of Grand Cayman MPA performance: a comparative study of coral reef fish communities.
- 14:45** Lancaster, A. Towards a TBMPA network in the Caricom Caribbean: charting a course from international and regional policy. (*Student*)

Break (15:00 – 15:15)

- 15:15** Forrester, G. Social and governance factors influence the biological success of Caribbean marine reserves
- 15:30** Villagran, J.C. Integrating sustainable fisheries as a socioeconomic target in Marine Protected Areas Planning in the Mesoamerican.
- 15:45** Brandt, M. The opportunities and challenges in development of a multi-agency program to monitor and assess reef fish populations in the Florida Keys coral reef ecosystem.
- 16:00** Parkinson, R. Findings from a long-term coral reef monitoring program in Tobago, West Indies.

INVASIVE SPECIES (16:30-17:30)

Session Moderator: Lad Akins

- 16:30** Akins, L. Lionfish early detection/rapid response workshops in the invaded Western Atlantic.
16:45 Green, S. Consumption potential of invasive Lionfish (*Pterois volitans*) on Caribbean coral reefs. (Student)
17:00 Molina-Ureña, H. Lionfish National Task Force: facing a new threat to Costa Rican coral reef communities.
17:15 Lasso-Alcalá, O. Invasion of the muzzled blenny *Omobranchus punctatus* (Perciformes, Blenniidae) in the coasts of Central and South America.

18:00 GCFI BOARD OF DIRECTORS MEETING (18:00 - 19:20)

19:30 Cocktail Reception provided by the Universidad de Oriente

FRIDAY: November 6, 2009

GCFI SPECIAL WORKSHOP: MARINE INVASIVE SPECIES: INVASIVE LIONFISH BIOLOGY AND MANAGEMENT IN THE CARIBBEAN SEA AND GULF OF MEXICO.
Concurrent Session. Contact person Lad Akins.

BIOLOGY AND MANAGEMENT OF INVERTEBRATES (08:30-12:15)

Session Moderator: Dr. Dalila Aldana

- 8:30** Butler, M. Behavior and oceanographic environments constrain Caribbean spiny lobster dispersal.
8:45 Rios_Lara, V. Determination of distribution patterns of spiny Lobster (*Panulirus argus*) in two places of the Yucatan Shelf using geostatistical techniques.
9:00 Behringer, D. Ecology and epidemiology of a viral disease in the Caribbean spiny lobster, *Panulirus argus*.
9:15 Cabrera, M. Use of artificial habitats to lobster fishing: expectations and experiences in Yucatan.
9:30 Chavez, E. A. Conceptual framework for estimating annual quotas in Mexican queen conch (*Strombus gigas*) fisheries.
9:45 Bissada- Gooding, C.E. Estimating home range and density of a queen conch aggregation using acoustic telemetry and conventional tagging. (Student)
10:00 Chalifour, J. Monitoring of the queen conch (*Strombus gigas*) resources in 6 stations of Guadeloupe, in 2009.

Break (10:15-10:30)

- 10:30** Isaac, C. Fisheries management planning for the Grenada sea urchin fishery.
10:45 Rangel González, M.S. Abundance, distribution, reproductive parameters and description of the fishery of the bivalve *Atrina seminuda* in northeastern Venezuela.
11:00 Santos Valencia, J. Reproductive cycle of *Turbinella angulata* (Mollusca: Gastropoda) in Campeche, Gulf of Mexico.
11:15 Tello, J. Habitat Fragmentation and genetic variability in two populations of *Crassostrea rhizophorae* Guilding 1828, in Adyascetes Regions at the Laguna de Términos, Campeche, Mexico.

- 11:30** Parra Medina, J.C. Influence of the salinity and temperature on the tolerance, adaptability and preference in larvae of the shrimp *Macrobrachium amazonicum*(Heller, 1862), of the Maracaibo System (*Student*).
- 11:45** Andrade de Pasquier, G. Impact of the long line for catching blue crab, *Callinectes sapidus*, on size structure of landings in lake Maracaibo, Venezuela.

Lunch Break (12:00-13:30)

PELAGICS AND RECREATIONAL FISHING (13:30-15:15)

Session Moderator: James Franks

- 13:30** Medina, E. Preliminary results about the age and growth of the Caribbean sharpnose shark, *Rhizoprionodon porosus* (Poey, 1861), from the Northeastern Region of Venezuela. (*Student*)
- 13:45** Tavares, R. Preliminary results from tag-recapture procedures applied to lemon sharks, *Negaprion brevirostris* (Poey 1868), at Los Roques Archipelago, Venezuela.
- 14:00** Figueredo Martín, T. Recreational fisheries in Jardines de la Reina, Cuba (*Student*)
- 14:15** Barrios Rodriguez, A.J. Growth parameters and total mortality of the sardine *Sardinella aurita* (Valenciennes, 1810) in northeastern Venezuela in the period 1990-2008.
- 14:30** Rodriguez-Ferrer, Y. Characterization of highly migratory species fisheries outside fishing tournaments.
- 14:45** Ramos Gutierrez, A.F. Spatio-temporal variation of functional groups catches in small-scale fisheries of the upwelling area off Colombian Caribbean Sea.
- 15:00** Cuello, F.J. Artisanal fishermen, a source of ecological information for fisheries management measures in the Colombian Caribbean Sea.

Break (15:15-15:30)

AQUACULTURE (15:30-16:30)

Session Moderator: Denise Debrot

- 15:30** Jamir T. Aquaculture development strategies for the Gulf of Mexico and Greater Caribbean Regions with particular emphasis on the artisanal sector.
- 15:45** Brito-Manzano, N. Induction to spawning in the oyster *Crassostrea virginica* employing salinity shock technique.
- 16:00** Rengel, J. Induction to the spawning and larval development of the bivalve mollusk *Chione cancellata*.
- 16:15** Rivas, K. Characterization of water quality in potential areas for aquaculture on the southern coast of the Gulf of Cariaco, Sucre State, Venezuela.

STUDENT AWARD PRESENTATIONS (16:45)

CLOSING CEREMONY (17:00)

SATURDAY: November 7, 2009 (depending in number of participants)

Field trips: Guácharo Cave, Caripe; Cueva de Guacharo Caripe
Mochima National Park; Parque Nacional Mochima



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