

PROCEEDINGS OF THE 34TH SCIENTIFIC MEETING OF THE
MEMORIAS DE LA 34^{VA} REUNIÓN CIENTÍFICA DE LA
ASSOCIATION OF MARINE LABORATORIES OF THE CARIBBEAN (AMLC)
ASOCIACIÓN DE LABORATORIOS MARINOS DEL CARIBE (ALMC)

Roseau, Dominica, May 25-29, 2009

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Institute for Tropical Marine Ecology Inc. (ITME), Roseau, Dominica

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LeGore Environmental Associates, Holmes Beach, Florida, USA

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Florida International University, Miami, Florida, USA

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US Geological Survey, St. Petersburg, Florida, USA

Paul, W. Sammarco

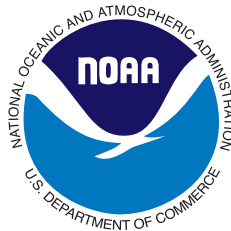
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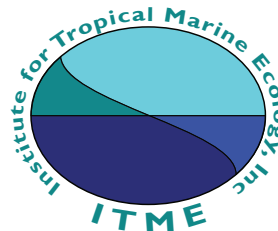
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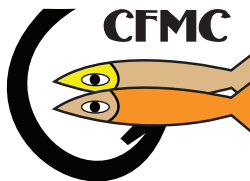
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The Association of Marine Laboratories of the Caribbean (AMLC): New Thoughts, New Directions

Firstly, may I say that it is an honor and a privilege to be able to serve the Association of Marine Laboratories of the Caribbean (AMLC) as its Executive Director – to lead and help manage this excellent scientific organization. We are fortunate to have some of the finest marine laboratories in the world as members. The Association carries with it a rich history spanning over 50 yrs. Indeed, we started with a handful of marine labs from the Caribbean in the 1950s, with the intention of facilitating information exchange between institutions, to help them run more effectively and efficiently, and possibly embark on collaborative research programs. We have developed over the years and grown greatly, to the point where we now boast of some 30 marine institutions. These institutions are from 20 countries, encompassing the Antilles and the Americas and beyond - spanning from Bermuda to Venezuela. This is quite an accomplishment, and my compliments to all of those who contributed to this successful expansion in representation. We can be proud that we are a group of scientists and administrators who respect each other's science, each other's countries, and each other's cultures. We are multi-national, multi-cultural, and multi-lingual, and this is clearly evident at each of our meetings which offer translator services for each talk. In addition, all of our conferences use a single-session format, and this allows all of us – from all walks of science and all corners of the Greater Caribbean – to hear about each other's work. I am very proud of this approach to scientific information transfer.

Our meetings continue to foster graduate student research through awards for excellence in presentation. We are also a “user-friendly” environment for students. We recently adopted an exercise at our meetings to help expose students to the different career opportunities that may be available to them through a dedicated Graduate Student Night. On that evening, all attendees introduce themselves and their institutions. Senior researchers discuss the course of their personal career development. After this, the floor is opened for discussion and questions from the graduate students regarding coursework, career opportunities, career directions, etc. We will now be repeating this exercise at each conference.

Also, at this meeting, we sponsored an evening of discussion of potential new AMLC initiatives. In Dominica, we discussed the possibility of the Association becoming involved in other movements in the Caribbean addressing international oceanic governance. This concept is now being developed through the newly created Caribbean Sea Commission (CSC), in association with the Association of Caribbean States (ACS). It would seem fitting that we as an international scientific body investigate the links between our organization to serve as a source of unbiased and objective scientific information which may be used for regulating activities which affect the environment of our region - the Greater Caribbean. Discussions and debate continue as the concept develops.

We are proud to once again this year publish our Proceedings in *Revista de Biología Tropical*, a publication of the University of Costa Rica. J. Cortes, N. Quinn, and I co-edited this volume, and personally, I am most thankful for for Jorge's and Norm's assistance. The papers cover a variety

of marine science research projects pursued throughout the Caribbean. This year's Proceedings are special, however, in that they feature the reports of the various AMLC laboratories that participated in the Caribbean Coastal Marine Productivity Program (CARICOMP). This was a research program designed to monitor environmental variables throughout the Greater Caribbean. Two things made this program special. Firstly, all environmental variables were monitored in a standard fashion. Secondly, sampling was performed at the same time – over a period of 25 yrs. This has created an extraordinary environmental database for the Caribbean. You will find several of the reports from this research program in this issue.

There are many other papers of great interest here as well. We are fortunate to have so much talent represented from so many different member countries throughout the region. I'm sure you will enjoy reading this issue.

Next year, our conference is scheduled to be held at the University of Costa Rica in San Jose. We anticipate it to be an even greater success than this last one. And, of course, we invite all interested parties to attend and make a presentation (see www.amlc-carib.org).

Paul W. Sammarco

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Professor

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PROGRAM

(Scientific Program as of May 5, 2009)

Monday, May 25, 2009		
8:00 AM	REGISTRATION	
Time	Presenter	Authors & Title
8:30	Sammarco, P. & Steiner, S.	Greetings
8:50	Lessios H.	Keynote
9:45-10:00	Break	
ECOLOGY (mesophotic reefs, refugia, species response to severe weather)		
10:00	Hinderstein, L.	Hinderstein, Lara M., Kimberly Puglise, David Zawada, Michael J. Dowgiallo, Felix A. Martinez and John Marr: MESOPHOTIC ECOSYSTEM RESEARCH STRATEGIES
10:20	Reaka, M.	Reaka, Marjorie L., Safra Altman, David L. Ballentine, Michael J. Dowgiallo, Darryl L. Felder, Richard Pyle, John Reed, Heather Spalding, Emma Palacios Theil and Ernesto Weil: BIODIVERSITY IN SHALLOW, MESOPHOTIC AND DEEPER CORAL REEFS
10:40	Rivero-Calle, S.	Rivero-Calle, Sara and Roy A. Armstrong: DIVERSITY AND ABUNDANCE OF SPONGES AT THE MESOPHOTIC REEF OF BAJO DE SICO, PUERTO RICO
11:00	Sherman, C.	Sherman, Clark, M. Nemeth, H. Ruíz, I. Bejarano, R. Appeldoorn, F. Pagán, M. Schärer and E. Weil: GEOMORPHOLOGY AND MESOPHOTIC CORAL ECOSYSTEMS OF THE UPPER INSULAR SLOPE OF SOUTHWEST PUERTO RICO
11:20	Riegl, B. (Chair)	Riegl, Bernhard, Samuel Purkis, Jennifer Keck, Gwilym Rowlands and Richard Dodge: A LIKELY OFFSHORE REFUGE FOR AN ENDANGERED CARIBBEAN CORAL (A. <i>CERVICORNIS</i>) IN HONDURAS
11:40	Calnan, J.	Calnan, Jacquelyn, Tyler Smith, Richard Nemeth, Jeremiah Blondeau and Elizabeth Kadison: SPECIES-SPECIFIC RESPONSES OF CORALS TO SEVERE SEAWATER WARMING AND CHRONIC HUMAN DISTURBANCE ACROSS CORAL REEF SYSTEMS IN THE UNITED STATES VIRGIN ISLANDS
12:00-1:00	Lunch	
CARICOMP		
1:00	Koltes, K.	Koltes K and Thomas B. Opishinski. PATTERNS OF WATER QUALITY AND MOVEMENT IN THE VICINITY OF CARRIE BOW CAY, BELIZE
1:20	Cortés, J. (Chair)	Cortés, Jorge, Ana Fonseca, Jaime Nivia, Vanessa Nielsen, Jimena Samper, Eva Salas, Solcíré Martínez and Priscilla Zamora: MONITORING CORAL REEFS, SEAGRASSES AND MANGROVES
1:40	Rodríguez, S.	Rodríguez, S., C. Bastidas, A. Cróquer and D. Bone: MANGROVE AND SEAGRASS PRODUCTIVITY AND ITS RELATION TO 15 YEARS OF ENVIRONMENTAL DATA IN PARQUE NACIONAL MORROCOY, VENEZUELA
2:00	Weil E.	Weil, Ernesto, Isabel Urreiztieta, Katie Flynn and Jorge Pinzon: FOURTEEN YEARS OF CARICOMP REEF MONITORING IN LA PARGUERA, PUERTO RICO: ENVIRONMENTAL AND REEF COMMUNITY TRENDS
2:20	Ogden, J.	Ogden, John and Paul W. Sammarco: SCIENCE AND POLICY CONSIDERATIONS FOR CARIBBEAN OCEAN GOVERNANCE
2:40	Helmle, K.	Helmle, Kevin P., Richard E. Dodge and Peter K. Swart: CORAL SCLEROCHRONOLOGY FROM THE UPPER FLORIDA KEYS AND INFLUENCES OF CLIMATE CHANGE: NO DECLINE IN CALCIFICATION FROM 1937 TO 1996.
3:00-3:30	Break	

Cont. CARICOMP, RESEARCH AND EDUCATION PLATFORMS

3:30	Jaffe, R. (Chair)	Jaffe, Rudolf, Youhei Yamshita, Joseph Boyer and Diane Williams: WATER QUALITY MONITORING ALONG THE FLORIDA REEF TRACT: ASSESSMENT OF DISSOLVED ORGANIC MATTER SOURCE AND COMPOSITIONAL VARIATIONS
3:50	Renaud, P.	Renaud, Philip and Andrew W. Bruckner: THE GLOBAL REEF EXPEDITION: SCIENCE WITHOUT BORDERS
4:10	Bayer, M.	Bayer, Michael: PLANNING FOR A MARINE LAB ON ST. CROIX
4:30	Drost, D.	Drost, Donald M.: A CARIBBEAN-FOCUSED SCIENCE COURSE FOR FRESHMEN AT THE UNIVERSITY OF THE VIRGIN ISLANDS: HEIGHTENING AWARENESS OF THE MARINE ENVIRONMENT OF THE CARIBBEAN
4:50		
6:00	POSTER PRESENTATIONS & CASH BAR	

Tuesday, May 26, 2009

BIOLOGY & ECOLOGY (Cnidaria, Arthropoda, Echinodermata)

Time	Presenter	Authors & Title
8:30	Hayes, R. (Chair)	Hayes, Raymond, Julia Kleymann, Thomas Goreau and Nora Goreau: ELEMENTAL ANALYSIS OF THE CORAL SKELETON USING X-RAY FLUORESCENCE
8:50	Hendler, G.	Hendler, Gordon and Il-Hoi Kim: THE REMARKABLE BIOLOGY OF COPEPOD PARASITES IN BRITTLER STAR'S STOMACHS
9:10	Williams, S.	Williams, Stacey M. and Jorge Garcia-Sais: TEMPORAL AND SPATIAL ABUNDANCE AND DISTRIBUTION PATTERNS OF ECHINODERM LARVAE IN LA PARGUERA, PUERTO RICO
9:30	Rojas, M.	Rojas, Mónica L.: GENETIC POPULATION STRUCTURE OF TWO BRITTLE STARS (<i>OPHIOCOMA ECHINATA</i> AND <i>AMPHIPHOLIS SQUAMATA</i>) WITH CONTRASTING LIFE HISTORIES
9:50	Henry, D.	Henry, Denise, Mona Webber and Dale Webber: SEA URCHIN ABUNDANCE AND DISTRIBUTION IN THE PORT ROYAL CAYS AREA, JAMAICA.
10:10 – 10:40 Break		

ECOLOGY (seagrasses)

10:40	Steiner, S.	Steiner, S.C.C., K.J. MacFarlane, L.M. Price and D.A. Willette: DISTRIBUTION PATTERNS IN SEAGRASSES OF DOMINICA
11:00	Willette, D. (Chair)	Willette, Demian A. and Richard F. Ambrose: THE EFFECTS OF THE INVASIVE SEAGRASS <i>HALOPHILA STIPULACEA</i> ON THE NATIVE SEAGRASS <i>SYRINGODIUM FILIFORME</i> AND ON NEAR-SHORE FISH RESOURCES IN DOMINICA
11:20	Coates, K.	Coates, Kathryn A. and W. Judson Kenworthy: EXCLUSION OF MEGAGRAZERS FROM SEAGRASS HABITAT IN BERMUDA – A PILOT STUDY
11:40	Manuel, S.	Manuel, Sarah A., Kathryn A. Coates, James W. Fourqurean and W. Judson Kenworthy: SEAGRASS HABITAT MONITORING AND MANAGEMENT IN BERMUDA
12:00-1:30	Lunch	

ECOLOGY (coral diseases, wound repair)

1:30	Gantar, M.	Gantar, M., L.T. Kaczmarek, D. Stannic, K.S. Rein and L.L. Richardson: ANTIBACTERIAL ACTIVITY OF CYANOBACTERIA FROM BLACK BAND DISEASE OF CORAL
1:50	Borger, J.	Borger, Jill L. and Susan Colley: THE EFFECTS OF A CORAL DISEASE ON THE REPRODUCTIVE OUTPUT OF <i>MONTASTRAEA FAVEOLATA</i>
2:10	Miller, A.	Miller, Aaron W., Patricia Blackwelder, Husain Al-Sayegh and Laurie L. Richardson: AN ULTRASTRUCTURAL CHARACTERIZATION OF BLACK BAND DISEASE INFECTING <i>MONTASTRAEA ANNULARIS</i>

2:30	Muller, E.M	Muller, Erinn M. and Robert van Woesik: SHADING SLOWS CORAL-DISEASE PROGRESSION
2:50	Richardson, L. (Chair)	Richardson, Laurie L.: THE ROLE OF CYANOBACTERIAL LIGHT RESPONSES IN BLACK BAND DISEASE OF CORALS
3:10 –3:40	Break	
3:40	Yoshioka, P.M. (Chair)	Yoshioka, Paul M. and Aldo Croquer: THE EPIDEMIOLOGY OF CORAL DISEASES: A SPATIAL PATTERN APPROACH
4:00	Mege, P.	Mege, Pascal, Eoin L. Brodie, Todd Z. DeSantis, Kate Goldfarb, Tomas Hrbek and Gary L. Andersen: PROFILING CORAL-ASSOCIATED BACTERIAL COMMUNITIES USING 16S rDNA MICROARRAYS IN HEALTHY AND DISEASED COLONIES OF THE ELKHORN CORAL <i>ACROPORA PALMATA</i>
4:20	Kuehl, K.	Kuehl, Kristin, Ross Jones and Laurie Richardson: DIFFERENCES IN VIRULENCE OF BLACK BAND DISEASE (BBD) OF TWO SPECIES OF THE HOST CORAL <i>DIPLORIA</i> ON BERMUDA REEFS
4:40	Renegar, D.	Renegar, D. Abigail, Patricia L. Blackwelder and Alison L. Moulding: EFFECT OF NUTRIENTS AND PCO ₂ ON WOUND REPAIR IN <i>MONTASTREA CAVERNOSA</i> AND <i>PORITES ASTREOIDES</i>
5:00	Fischel, A.	Fischel, Andrea, Marit-Solveig Seidenkrantz, and Antoon Kujipers: LATE HOLOCENE WATER-MASS EXCHANGE THROUGH THE ANEGADA-JUNGFERN PASSAGE, NE-CARIBBEAN
5:00	Adjourn for day	

Wednesday, May 27, 2009

FIELD TRIPS

All Trips Departing from Fort Young Hotel

Thursday, May 28, 2009

RESOURCE MANAGEMENT (coral recruitment, restoration, fisheries)

Time	Presenter	Authors & Title
8:30	Moulding, A. (Chair)	Moulding, Alison L., David S. Gilliam, Vladimir N. Kosmynin and Richard E. Dodge: CORAL RECRUITMENT AND IMPLICATIONS FOR REEF RESTORATION IN SOUTHEAST FLORIDA, USA
8:50	St. Gelais, A.	St. Gelais, Adam T., Alison L. Moulding, David S. Gilliam and Vladimir N. Kosmynin: COORDINATION OF GAMETOGENESIS AND SPAWNING IN <i>SIDERASTREA SIDEREA</i> , SOUTHEAST FLORIDA, USA
9:10	Brownlee, A.	Brownlee, Allison S., David S. Gilliam, Alison L. Moulding, Vladimir N. Kosmynin, Kenneth W. Banks and Louis E. Fisher: TRANSPLANTATION SUCCESS AND PREDATION PRESSURE ON SMALL (<10 CM DIAMETER) <i>SIDERASTREA SIDEREA</i> COLONIES OFFSHORE SOUTHEAST FLORIDA, USA
9:30	Goergen, E.	Goergen, Elizabeth A., David S. Gilliam and Meaghan Johnson: TRANSPLANTATION OF <i>ACROPORA CERVICORNIS</i> (STAGHORN CORAL) FRAGMENTS: EVALUATION OF GROWTH AND SURVIVORSHIP IN BROWARD COUNTY, FLORIDA USA
9:50	Bruckner, A.	Bruckner, Andrew and Eric H. Borneman: IMPLICATIONS OF CORAL HARVEST AND TRANSPLANTATION ON REEFS IN NORTHWESTERN DOMINICA
10:10 – 10:40	Break	
10:40	Sammarco, P.	Sammarco, Paul W., J. Sinclair, G.S. Boland, A. Lirette and Y.H. Tung: EFFECTIVENESS OF OIL/GAS PLATFORMS VS. "RIGS-TO-REEFS" STRUCTURES ON PROMOTING CORAL DEVELOPMENT IN THE GULF OF MEXICO

11:00	Zawada, D. (Chair)	Zawada, David G., Clifford J. Heam and Gregory A Piniak: ROUGHNESS SPATIAL VARIABILITY WITHIN AND BETWEEN REEFSCAPENS
11:20	González Marrero, R	González Marrero, Rosa L. and Paul M. Yoshioka: RECRUITMENT OF GRUNTS (HAEMULIDAE) ON STAGHORN CORAL <i>ACROPORA CERVICORNIS</i> : EFFECTS OF FISH MOVEMENT
11:40	LeGore, R.S.	LeGore, R.S. and C.G. Lilyestrom: BAIT FISHERIES SERVING MARINE RECREATIONAL FISHERIES OF PUERTO RICO
12:00	Kadison, E.	Kadison, Elizabeth, Wes Toller, Richard Nemeth, Jeremiah Blondeau, Jacquelyn Calnan and Tyler Smith: A COMPARISON OF FISHERIES INDEPENDENT DATA ACROSS TWO ISLANDS IN THE US VIRGIN ISLANDS: IS ST. CROIX REALLY THE UGLY STEPCHILD?
12:00-1:30	Lunch	
RESOURCE MANAGEMENT (reserves, population structure analysis) + Venezuela Group		
1:30	Forrester, G. (Chair)	Forrester, Graham and Tracey Dalton: WHAT ENVIRONMENTAL, POLITICAL, SOCIAL, AND GOVERNANCE FACTORS BEST EXPLAIN THE PERFORMANCE OF CARIBBEAN MARINE RESERVES?
1:50	Schizas, N	Schizas, Nikolaos V.: ONE OR TWO ARE NOT ENOUGH! A MULTISPECIES APPROACH TO THE ANALYSIS OF POPULATION STRUCTURE IN CRAIBBEAN FAUNA
2:10	Aguado García, N.	Aguado García, Nieves and Abul Bashirullah: PARASITOS DEL CAMARÓN CAFÉ <i>FARFANTEPENAEUS SU BTILIS</i> DE LA REGIÓN ORIENTAL DE VENEZUELA
2:30	Fuentes, H.	Fuentes H., María Valentina, Luisa Rojas de Astudillo, Blanca Rojas de Gascue, José A. Bucarito and J.L. Prin: ESTUDIO SOBRE METALES TOTALES, METALES BIODISPONIBLES Y TOXICIDAD EN AL AGUA DE PORO DE LOS SEDIMENTOS SUPERFICIALES DEL SACO DEL GOLFO DE CARIACO, ESTADO SUCRE, VENEZUELA
2:50	Cooper, C.	Cooper, Cara H: THE TRADE IN CORAL REEF SPECIES: IMPACTS, MANAGEMENT AND POLICY OPTIONS
3:10	Robinson, W.	Robinson, Whitney: CATCH SHARES: THE MOST EFFECTIVE METHOD FOR ENDING OVERFISHING AND REBUILDING STOCKS
3:30	Break	
3:30	Late Poster Session	Late Poster Session
7:00	Awards Dinner	Awards Dinner

Friday, May 29, 2009

RESOURCE MANAGEMENT

Time	Presenter	Authors & Title
8:30	Goreau, T. (Chair)	Goreau, Thomas J., Lucy Wells, Fernando Perez, Marlon Hibbert and Luc Clerveaux: EFFECT OF HURRICANES ON BIOROCK CORAL REEF RESTORATION PROJECTS IN GRAND TURK, TURKS AND CAICOS ISLAND
8:50	Walker, B.	Walker, Brian K., Joanna Walczak, Chantal Collier and Richard E. Dodge: USING BENTHIC HABITAT MAPS AND LIDAR TO EVALUATE LARGE VESSEL ANCHORAGE PLACEMENT
9:10	Schittone, J.	Schittone, Joe: RESTORATION AND MONITORING OF A VESSEL GROUNDING SITE ON A SHALLOW REEF IN THE FLORIDA KEYS
9:30	Persad, G.	Persad, Gale and Mona Webber: MODELLING TROPHIC INTERACTIONS IN THE ZOOPLANKTON COMMUNITY OF DISCOVERY BAY, JAMAICA: A NEW APPLICATION OF ECOPATH SOFTWARE
9:50	Shein, K.	Shein, Karsten A.: IDENTIFYING KEY CLIMATE CHANGE INFORMATION FOR MARINE ECOLOGICAL RESEARCH
10:10 – 10:40 Break		

10:40	Pierce, R.	Pierce, Richard, Michael Henry, Patricia Blum, Rebecca Medvecky, Erich Bartels and Cory Walter: PERSISTENCE OF MOSQUITO CONTROL PESTICIDES, PERMETHRIN AND NALED, IN THE FLORIDA KAYS
11:00	Sandeman, I.	Sandeman, Ian M.: OBSERVATIONS ON SOLAR RADIATION AND THE TEMPERATURE OF CORALS
11:30	General Meeting – Student Achievement Awards & Adjourn	

Monday, May 25, 2009

6:00 PM POSTER SESSION

Poster # Presenter(s) & Title

- 1 **Aldana Aranda**, Dalila, Erick Baqueiro Cárdenas: THE ROLE OF TEMPERATURE ON THE OCCURRENCE OF A COCCIDEAN (APICOMPLEXA) INFECTING *STROMBUS GIGAS* (MOLLUSCA GASTROPODA) IN THE CARIBBEAN REGION.
- 2 **Broderick, Emily M.**, Aaron W. Miller, Dina Stanic, Miroslav Gantar and Laurie L. Richardson: EFFECTS OF THE CYANOTOXIN MICROCYSTIN ON BACTERIA FROM THE MICROBIAL MAT OF BLACK BAND DISEASE AND NON-INFECTED CORALS
- 3 **Chin, Denise**, Mona Webber, Judith Mendes and Dale Webber: A DESCRIPTION OF THE CORAL REEF COMMUNITY OF FOUL BAY AND FOLLY BAY, MORANT WETLANDS, JAMAICA
- 4 **Coates, Kathryn A.**, Jaret M. Bilewitch, Sarah A. Manuel, James W. Fourqurean and W. Judson Kenworthy: THE SEAGRASS HALODULE IN BERMUDA: MORPHOLOGY, GENETICS, DISTRIBUTION AND ECOLOGY
- 5 **Colmenares, Marcos** and José G. Rodríguez-Quintal: ESTATUS TRÓFICO DE *BATHYGObIUS SOPORATOR* (PISCES: GOBIIDAE) EN UNA LITORAL ROCOSO DE LA PENINSULA DE PARAGUANA, EDO. FALCÓN, VENEZUELA
- 6 **P. Gayle**, B. Charpentier and O. Spence The Jamaican CARICOMP site: using a temporal data set to inform future management actions
- 7 **Floos, Yahya**: REPRODUCTION OF THE RED SEA CORAL *POCILLOPORA DAMICORNIS* AND *POCILLOPORA VERRUCOSA*
- 8 **Foster, Alison**, Mona Webber and Dale Webber: SEAGRASS BEDS AND ASSOCIATED BIOTA IN THE MORANT WETLANDS AREA, SOUTHEAST COAST JAMAICA
- 9 **Harris, Nicole** and Mona Webber: ZOOPLANKTON AS INDICATORS OF WATER QUALITY IN FOUL AND FOLLY BAYS, MORANT WETLANDS AREA, JAMAICA
- 10 **Hayes, Raymond**, Wil Nagelkerken, Dennis Knepper and Francois van der Hoeven: UNDERWATER ARCHAEOLOGICAL SURVEYS OF HISTORICAL ANCHORAGE SITES IN DOMINICA.
- 11 **Jiménez Prieto, Mayré**, Samuel Narciso, Thays Allen and Estrella Vilamizar: CRIPTOFAUNA MALACOLOGICA DEL PARQUE NACIONAL ARCHIPIÉLAGO DE LOS ROQUES, VENEZUELA
- 12 **López-Ordaz**, Adriana, J.G. Rodriguez, A.T. Herrera and M. Colmenares: ICTIOFAUNA ASOCIADA A UN ARRECIFE SOMERO EN EL PARQUE NACIONAL MORROCOY, VENEZUELA
- 13 **Lueg, Jenna R.**, David S. Gilliam, Alison L. Moulding and Vladimir N. Kosmynin: *SOLENASTREA BOURNONI* AND *STEPHANOCOENIA INTERSEPTA* SEXUAL REPRODUCTION OFFSHORE SOUTHEAST FLORIDA, USA
- 14 **Manuel, Sarah**, Samia Sarkis, and Kathryn Coates: QUEEN CONCH POPULATIONS IN BERMUDA: STATUS AND DISTRIBUTION
- 15 **Martínez, Gregorio**, Ivis Fermín, Francia Castellar, William Senior and Arístide Márquez: FRACCIONAMIENTO GEOQUÍMICO DE METALES PESADOS EN EL MATERIAL EN SUSPENSIÓN DE LA CUENCA BAJA Y PLUMA DEL RÍO MANZANARES, ESTADO SÚBRE, VENEZUELA
- 16 **Mege, Pascal**, Joselyd Garcías Reyes, Nikolaos Schizas and Tomas Hrbek: MICROSATELLITE AND MITOCHONDRIAL MARKERS SHOW LOW GENETIC STRUCTURE IN THE ELKHORN CORAL OF PUERTO RICO

- 17 **Narciso, Samuel:** CORAL SPECIES AND THEIR COVER OF REEFS OF TORTUGA ISLAND AND NEARBY KEYS, VENEZUELA
- 18 **Núñez Flores, Mónica,** José Gregorio Rodríguez and María Cristina Díaz: DISTRIBUCION DE ESPONJAS A LO LARGO DE UN GRADIENTE DE PROFUNDIDAD EN UN ARRECIFE CORALINO, PARQUE NACIONAL SAN ESTEBAN CARABOBO-VENEZUELA
- 19 **Polidoro, Beth,** Kent E. Carpenter, Suzanne R. Livingstone and Jonnell Sanciangco: A COMPREHENSIVE ASSESSMENT OF SPECIES-SPECIFIC THREATS AND EXTINCTION RISK IN THE CARIBBEAN
- 20 **Renegar, D. Abigail,** Alison L. Moulding, Patricia L. Blackwelder, Vladimir N. Kosmymin, David S. Gilliam and Richard E. Dodge: SUCCESS OF *MONTSTRAEA CAVERNOSA* AND *PORITES ASTREOIDES* FRAGMENTS IN THE FIELD AND IN A LAND-BASED NURSERY
- 21 **Rodríguez, Sebastian,** Carolina Bastidas, Also Cróquer and David Bone: ASSESING THE SEVERYTY OF THE 1998 AND 2005 BLEACHING EVENTS IN CARIBBEAN
- 22 **Rodríguez-Quintal, José:** PECES CRIPTOBENTONICOS ARRECIFALES DEL PARQUE NACIONAL SAN ESTEBAN, VENEZUELA
- 23 **Ruiz Diaz,** Claudia Patricia, Carlos Toledo Hernández, Mariano Marcano and Alberto Sabat: THE SIMULATION OF THE INTERACTION BETWEEN SEA FAN COLONY, ITS IMMUNE SYSTEM, AND A POTENTIAL PATHOGEN
- 24 **St.Gelais, Adam T.,** Allison S. Brownlee, David S. Gilliam, Alison L. Moulding and Vladimir N. Kosmymin: GAMETE PRODUCTION IN SMALL *SIDERASTREA SIDEREA* COLONIES OFFSHORE BROWARD COUNTY, FLORIDA, USA
- 25 **Settar, Christine** and Teresa Turner: CORAL REEFS AND ISLANDERS: A RELATIONSHIP OF KNOWLEDGE, OUTDOOR INVOLVEMENT AND STEWARDSHIP
- 26 **Weil, Ernesto,** Emmanuel Irizarry, Aldo Croquer and Isabel Urreiztieta: A RAPID CORAL REEF DDECLINE ON THE SOUTHWEST COAST OF PUERTO RICO
- 27 **Wilmot, Inilek** and Dale Webber: PHYTOPLANKTON DISTRIBUTION AND THE ASSOCIATED CIRCULATION PATTERN IN FOUL BAY AND FOLLY BAY, MORANT WETLANDS, JAMAICA
- 28 **Zubillaga L.,** Ainhoa, T. Shearer, C. Bastidas and M.A. Coffroth: GENETIC POPULATIONS OF *ACROPORA PALMATA*: A TALE FROM MESOAMERICAN BARRIER REEF SYSTEM, PANAMA, VENEZUELA AND PUERTO RICO

Thursday, May 28, 2009

3:30 PM POSTER SESSION

Poster # Presenter(s) & Title

- 1 **Acosta, Vanessa,** Marbelis Montes and César Lodeiros: CRECIMIENTO DE LOS MEJILLONES *PERNA PERNA* Y *PERNA VIRIDIS* (BIVALVIA: MYTILIDAE) EN CULTIVO SUSPENDIDO Y DE FONDO EN EL GOLFO DE CARIACO, VENEZUELA
- 2 **Amaro, María Elena** and Jorge Barrios: INVENTARIO DE LAS COMUNIDADES BENTÓNICAS DEL MORRO DE CHACOPATA, ESTADO SUCRE, PENINSULA DE ARAYA, VENEZUELA
- 3 **Barrios, Jorge,** María Elena Amaro and Juan Bolaños: FAUNA ASOCIADA AL ALGA INVASORA *KAPPAPHYCUS ALVAREZII* (RHODOPHYTA) EN ISLA CUBAGUA, VENEZUELA
- 4 **Brito L.,** Leonor and Oscar Crescente: EVALUACIÓN DE LA ACTIVIDAD TÓXICA Y CITOTÓXICA DE EXTRACTOS DE MACROALGAS MARINAS DEL ORIENTE DE VENEZUELA
- 5 **D'Armas, Haydelba,** Yáñez Dayanis, Reyes Dilia and Salazar Gabriel: FATTY ACIDS COMPOSITION OF MARINE SNAILS *PHYLLONOTUS POMUM* AND *CHICOREUS BREVIFRONS* (MURACIDAE) FROM PUNTA ARENAS, SUCRE STATE, VENEZUELA
- 6 **D'Armas, Haydelba,** Douglas Bermúdez and Bernardo Méndez: ISOLATION AND STRUCTURAL CHARACTERIZATION OF A NEW TRITERPENE FROM THE OCTOCORAL *PLEXAURA FLEXUOSA* LAMOROU

- 7 **Jiménez Prieto**, Mayré, Jannellys Cedeño, Luissana Pereda and Thays Allen: ABUNDANCIA Y RIQUEZA DE MOLUSCOS Y CRUSTACEOS ASOCIADOS A LAS RAÍCES SUMERGIDAS DE MANGLE ROJO EN LA LAGUNA DE BOPCARIPO, ESTADO SUCRE, VENEZUELA
- 8 **Márquez, Brightdoom**, L.M. Marcano, J.M. Morales, T. Allen and Baumar Marín: VARIACIONES ESPACIO-TEMPORALES DE LA BIOMASA, DENSIDAD Y ESTRUCTURA COMMUNITARIA DEL ZOOPLANCTON EN DOS LOCALIDADES DEL GOLFO DE CARIACO, EDO, SUCRE, VENEZUELA
- 9 **Narváez Hernández**, Mayra, Luisa Rojas de Astudillo and José Luis Prin: HEAVY METAL DETERMINATION IN EDIBLE TISSUE OF MOLLUSC *ARCA ZEBRA* COMMERCIALIZED IN THE NUEVA ESPARTA STATE, VENEZUELA
- 10 **Rojas de Astudillo**, Luisa, Valentina Fuentes, Alfredo Diaz and Gregorio Martínez: HEAVY METAL DISTRIBUTION IN GEOCHEMICAL FRACTIONS OF SURFACE SEDIMENTS FROM THE GULF OF CARIACO, VENEZUELA
- 11 **Ruiz, Lilia J.**, José G. Núñez, Alejandro Ariza and Mariange López: BIOVERSIDAD Y ABUNDANCIA ICTICA EN PRADERAS DE *THALASSIA TESTUDINUM*, DE LA COSTA SUR DE LA PENÍNSULA DE ARAYA
- 12 **Segnini de Bravo, Mary Isabel**: COMA TÉRMICO DEL MEJILLÓN VERDE, *PERNA VIRIDIS* (BIVALVIA: MYTILIDAE) A DIFERENTES TEMPERATURAS DE ACLIMATACIÓN
- 13 **Villafranca, Sioliz**, Juan Bolaños, Thays Allen, Mayré Jiménez and Jesús Hernández: ALGUNOS ASPECTOS POBLACIONALES DEL MEJILLÓN VERDE *PERNA VIRIDIS* EN LA LAGUNA HIPERSALINA DE LA RESTINGA, ISLA DE MARGARITA, VENEZUELA