



CARICOOS 2017 General Assembly

Rincón Beach Resort, Añasco, PR

Friday April 28, 2017

Goal: To have a participatory stakeholder-centered meeting where users can learn about CARICOOS products and services while providing direct feedback and foreseeable needs to be addressed by the observing system.

AGENDA

8:00-9:00 AM	REGISTRATION, POSTERS & EXHIBITS (light breakfast provided)
9:00-9:30 AM	WELCOME REMARKS Prof. Ruperto Chaparro, Chairman of the Board & PR Sea Grant Director PR & USVI Government representatives (to be confirmed) University of Puerto Rico System (to be confirmed) University of Puerto Rico-Mayaguez (UPRM) Chancellor's Office (to be confirmed)
9:30-9:45 AM	TEN YEARS OF CARICOOS Prof. Julio Morell, CARICOOS Executive Director
9:45-10:00 AM	CHAIRMAN'S REPORT Prof. Ruperto Chaparro, Chairman of the Board & PR Sea Grant Director
10:00-10:15 AM	MESSAGE FROM THE IOOS DIRECTOR Carl Gouldman, IOOS Director
10:15-10:30 AM	TOWARDS NEW OCEAN OBSERVING AND PREDICTION CAPABILITIES IN THE CARIBBEAN Dr. Miguel Canals, CARICOOS Technical Director
10:30-11:00 AM	COFFEE BREAK, POSTERS & EXHIBITS
11:00-1:15 PM	OCEAN OBSERVING IN THE CARIBBEAN: Current Applications and Foreseeable Needs We want to hear from you, our stakeholder. We've asked some key stakeholder representatives to bring some examples of how they are using CARICOOS, and what ocean observing and forecasting needs they are anticipating for the future. These short 5-minute talks will be followed by 10 minutes of discussion. We want this

to be a very interactive session. Please bring your comments and suggestions and help us shape the future of CARICOOS! Topics include:

- **The Challenge of Outreach** – Moderator: Ruperto Chaparro
- **Navigation & Marine Operations** – Moderator: Julio Morell
- **Commercial Fishers Perspective** – Moderator: Miguel Canals
- **Beach Hazards: Drowning Prevention & Water Quality** – Moderator: Sylvia Rodriguez
- **Animal Tracking (Fish, Marine Mammals, Larvae)** – Moderator: Miguel Canals
- **Erosion & Coastal Infrastructure** – Moderator: Ernesto Díaz
- **Search and Rescue** – Moderator: Julio Morell

1:15-2:00 PM

LUNCH, POSTERS AND EXHIBITS

2:00-4:00 PM

BREAKOUT SESSION, POSTERS & EXHIBITS (coffee and snacks provided)

We've saved this time to discuss one-on-one your specific sector needs. We will break out in small groups to assess your particular data needs, get feedback on our products and services, and discuss any other way we can make ourselves useful to your user group.

- **Breakout group #1: Using CARICOOS products for recreational and commercial fishing.**
- **Breakout group #2: Using CARICOOS products to promote beach safety.**
- **Other breakout groups will be set up upon request!**

POSTER SESSION: Want to learn more about the science involved in developing CARICOOS products and services? The general assembly will showcase several posters focused on the technical aspects behind our most accessed data services. Waves, currents, winds, water quality, you will find a poster for each and many more.

CARICOOS EXHIBITS: Not a tech savvy? No worries! We will have plenty of exhibits with CARICOOS products and services aimed at getting you up to speed on using our products. Our staff will be scattered around the room to give you one-on-one help, assist you on getting CARICOOS on your mobile device, among other hacks.

LIST OF POSTERS	
TITLE	AUTHORS
Eight years of wave observations in the US Caribbean	Miguel Canals & the CARICOOS Team
UPRM-CAOSE: The UPRM Center for Applied Ocean Science and Engineering	Miguel Canals, Julio Morell, Sylvia Rodríguez-Abudo & the CARICOOS team
Model and Data Based Hydrodynamic Connectivity Study for the Marine Protected Area Network off Western Puerto Rico	Jorge E. Capella, Miguel Canals, Julio M. Morell, Estefanía Quiñones, and Fabián García
A two-way grid refinement application of the Regional Ocean Modelling System for Puerto Rico and the US Virgin Islands	Miguel Solano, Juan González-López, Miguel Canals, Jorge Capella, Julio Morell, and Stefano Leonardi
The CARICOOS Wave Model v8.0	Miguel Canals
Breaking Wave Height Predictions Using 2D Spectral Partitioning	Miguel Canals
Life Cycle Cost Analysis of Beach Restoration: Rincón, PR Testbed	Francisco Villafañe and Luis Aponte, Miguel Canals
Using QG based reconstruction of sub-surface fields from surface data for modeling particle transport in the upper ocean	Sonaljit Mukerjee
Process Automation & File Distribution of Oceanographic Research Data	Andy Breton
CARICOOS Outreach, Education & Engagement	Adolfo González, Sylvia Rodríguez-Abudo and the CARICOOS team
An operational circulation model for the US Caribbean based on the Finite Volume Coastal Ocean Model (FVCOM)	Adail Rivera, Patricia Chardón and Miguel Canals
Latest applications of ADCIRC+SWAN for storm surge, hurricane waves, and hydrology coupling in Puerto Rico and the U.S. Virgin Islands	Juan Gonzalez-Lopez, Giovanni Seijo, Jaynise Perez, Felix Santiago, Walter Silva-Araya, Joannes Westerink, Andre van der Westhuisen

The impact of large scale processes on CARICOOS regional currents	Luis Pomales and Julio Morell
AOML/CARICOOS Sea Glider Collaboration	Luis Pomales, Julio Morell y Gustavo Goni
An Assessment of Enteric Bacteria Abundance in Playa Santa Beach, Southwest Puerto Rico	Geraldine Gómez, Julio Morell,
Development and launching of the CARICOOS ocean-shelf current forecasting model	Juan Gonzalez-Lopez, Giovanni Seijo, Luis Pomales, Miguel Solano, Julio Morell, Miguel Canals, Jorge Capella
A Calibrated Combined Storm Surge-Inland Runoff Model for the Coastal Zone of Arecibo, Puerto Rico	Félix Santiago, Walter Silva and Juan González-López
CariCOOS Computer/Network Infrastructure	José Torres and Jorge Capella
Lagrangian Drifter Dispersion in the Mona Passage	Estefanía Quiñones, Miguel Canals
Spatial and Temporal Variability of Jobos Bay Coastal Waters	Carla Lorraine Mejías-Rivera, Julio M. Morell
Beach Water Quality at Rincón Public Beach: A 48-hr Sampling Campaign	Priscila Vargas-Babilonia, Sylvia Rodríguez-Abudo and Peter Rivera-Casillas
Puerto Rico Northwest Ecological Corridor: A case study of competing economies in oceanic islands	Hall KV, Figuerola-Hernández MG, Villanueva-Cubero L, Lebrón G, Torres MF, Quirós S
Toward Beach Water Quality Modeling in Dorado, PR: Preliminary Hydrodynamic Simulations	Daniel Martínez and Sylvia Rodriguez
Numerical modeling of beach nourishment and shoreline protection performance during Hurricane Matthew	Gabriela Salgado, Miguel Canals
CariCOOS High-Frequency Radar Network Expansion and Data Quality Assessment	Colin Evans, Patricia Chardon
Carbon dynamics in La Parguera Bioluminescent Bay	Erick García and Julio Morell
Wave observations using HF Radar in the US Caribbean	Colin Evans, Miguel Canals
Implementation of the Finite Volume Coastal Ocean Model (FVCOM) for the Parguera Ocean Acidification Testbed	Fabian Garcia, Adail Rivera, Miguel Canals, Julio Morell

Nearshore hydrodynamics during Hurricane Matthew	Patricia Chardon, Miguel Canals, Gabriela Salgado
Hydrodynamic Connectivity off Belize	David Lindo
Water Quality Information Flows and Engagement Routes: The Reciprocal Roles of a Community-Based Science Program and CariCOOS with Stakeholder Groups	Steve Tamar, Yamilette Colón
Recycled Glass as Beach Nourishment Material: Preliminary Feasibility Study	Argelys Monserrate-Cid and Sylvia Rodríguez-Abudo
Recycled Glass as Beach Nourishment Material: Grain Characterization	Juan Vargas-Martínez, Sylvia Rodríguez-Abudo, O. Marcelo Suárez, and Jonathan Ambrose
Combined Effect of Ocean Acidification and Fluid Turbulence on Coastal Barriers: Experimental Setup	Jorge Algarín, Nérida de Jesús-Villanueva, Sylvia Rodríguez-Abudo, Julio Morell
CARICOOS Beach Water Quality Products	Peter Rivera-Casillas, S. Rodríguez-Abudo, Priscila Vargas-Babilonia
Mean Currents at La Parguera Marine Reserve: A Case Study during November 2016	Sylvia Rodríguez-Abudo
Automated, Portable Fecal Bacteria Biosensor for Recreational Water	Pedro Resto Irizarry, Dong Wang, Ubec Carambot, Osvaldo Duran, Luis Rosa, Gabriel Cordero, Azaria Feliciano, Jesus Aponte, Steve Tamar
Observations of the Surface Circulation Around Puerto Rico	Daniel Prakash, Colin Evans and Hugh Roarty