NOAA in the Caribbean 101

Bill O'Beirne NOOA in the Caribbean Chair NOAA Office for Coastal Management Carolina Hincapié-Cárdenas NOAA NWS Caribbean Tsunami Warning Program



NOAA in the Caribbean





NOAA In the Caribbean - Steering Committee Members

NOAA in the Caribbean Steering Committee Members and Backups

First	Last Name	Office	Back Up	
		NMFS Southeast Regional Office /Sustainable		
Bill	Arnold	Fisheries	Maria Lopez	
Brad	Benggio	NOS - Office for Response and Restoration	Jason Rolfe	
David	Brown	NESDIS Climate Services		
Lisamarie	Carrubba	NMFS Southeast Regional Office / Protected Resources	Jocelyn Karazsia	
		Puerto Rico Department of Natural and	Jocelyn Narazsia	
Ernesto	Diaz	Environmental Resources (CZM/NERR/Coral)		
Roberto	García	NWS San Juan Forecast Office	Ernesto Morales	
Bob	Glazer	Gulf and Caribbean Fisheries Institute	Alejandro Acosta	
Kunt	C	Puerto Rico Sea Grant College Program (UPP-		
Kurt	Grove	Mayaguez)	F P	
Jim	Hendee	OAR Atlantic Oceanographic and Meteorological Lab	Erica Rule	
Michael	Henderson	NOS - Office of Coast Survey		
Ron	Hill	NMFS Southeast Fisheries Science Center NMFS Southeast Regional Office / Habitat	Jen Schull	
Jocelyn	Karazsia	Conservation	Lee Carrubba	
Tom	Moore	NMFS Southeast Regional Office / Restoration Center		
Ernesto	Morales	NWS San Juan Forecast Office		
Meredith	Muth	OAR Climate Program Office	Erin Eastwood	
Bill	O'Beirne	NOS Office for Coastal Management	Marlon Hibbert	
Makeda	Okolo	NOAA Legislative Affairs		
Geno	Olmi	NOAA SE & Caribbean Regional Collaboration Team (Coordinator)	Jeff Payne and David Brown	
Jean-Pierre	Oriol	US Virgin Island Department of Planning and Natural Resources (CZM/Coral)		
Jeff	Payne	NOS Office for Coastal Management		
Simon	Pittman	NOS National Centers for Coastal and Ocean Science	Chris Jeffrey	
Staci	Rijal	NOAA International Affairs		
Miguel	Rolón	Caribbean Fisheries Management Council	Graciela Garcia-Moliner	
Christa	von Hillebrandt- Andrade	NWS Tsunami Warning Program	Carolina Hincapié	
Dana	Wusinich-Mendez	NOS Office for Coastal Management / Coral Reef Conservation Program Marlon Hibbert		

NOAA In the Caribbean Mission

- Initiated by NOAA's Southeast And Caribbean Regional Collaboration Team in 2011
- A forum for communication, partnership, and user engagement to:
 - improve coordination and application of NOAA capabilities by enhancing internal NOAA communications on Caribbean efforts
 - identify and respond to local and regional challenges, needs, and opportunities in the Caribbean
 - work within NOAA to inform and champion resourcing of and support for Caribbean efforts



<u>NOAA Carib Scope – Caribbean LME</u>





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NOAA Caribbean e-Newsletter

To subscribe *e-mail us at CaribbeanNews@noaa.gov*

NOAA Southeast and Caribbean Regional Team. Caribbean Caribbean Caribbean

CONNECTING NOAA & PARTNERS ACROSS THE CARIBBEAN

In this issue:

Feature Stories

NOAA Engages with Cuba on New Projects

CARIBE WAVE 16

Update on CREWS Network

Dredge Disposal Impacts Mesophotic Coral Ecosystems

Citizen Science: Improving the Quality of Marine Mammal Research

Yarari Joins the North Atlantic Sister Sanctuary Program

Cabo Rojo Watershed Plan

Sustainable Seafood Initiative in USVI

Upcoming Events

Announcements

NOAA in the Caribbean News Spring 2016

Message from the Steering Committee

On behalf of the NOAA in the Caribbean (NOAACarib) Steering Committee, I want to welcome you to the first issue of the new NOAACarib E-Newsletter! We've switched the format of our flagship newsletter from a stand-alone pdf document to an e-newsletter in response to changes in membership, budget, and technology. The new format will by necessity be a bit shorter, but we intend to provide more timely information by publishing more frequently. We will continue to report on NOAA partnerships in the Caribbean, and provide news items of interest, updates on new data, announcements of funding opportunities, upcoming events and more.

We welcome feedback on the e-newsletter style and content; as with any new product, there is always room for improvement. As always, we want to hear your stories--stories that help connect NOAA and partners in the Caribbean. And of course, we want you to read and share the newsletter!

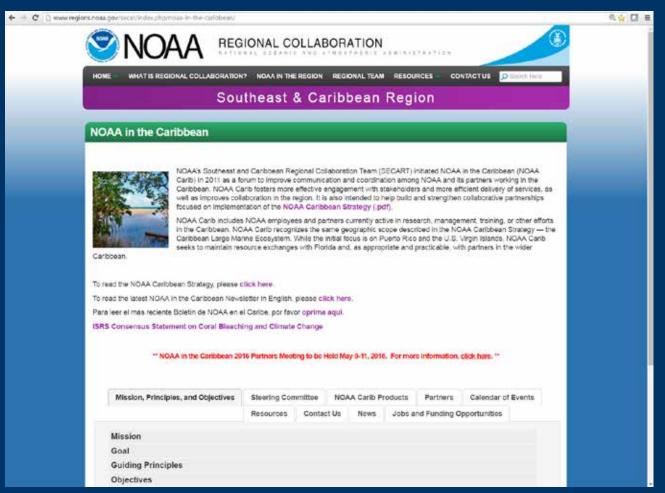
We would also like to take this opportunity to send a special shout out to Simon Pittman, our NOAACarib Steering Committee member who has more than capably served as editor-in-chief of the NOAA in the Caribbean Newsletter for the last four years. Simon has set some very high standards for the newsletter that we will strive to maintain. Thanks SimonII

Bill O'Beirne, Chair NOAACarib Steering Committee bill.obeirne@noaa.gov





NOAA In The Caribbean Website



http://www.regions.noaa.gov/secar/index.php/noaa-in-the-caribbean/



National Oceanic and Atmospheric Administration Caribbean Strategy

June 23, 2014

Goal 1: Improved Conservation and Management of Ocean and Coastal Ecosystems and Resources

Goal 2: Strengthened Understanding of, and Adaptation to, a Changing Climate

Goal 3: Enhanced multi-hazard monitoring, forecasting, and risk management

http://www.regions.noaa.gov/secar/wp-content/uploads/2014/07/NOAA-Caribbean-Strategy-Final-June-23-2014-FINAL.pdf



2016 NOAA Carib Partners Meeting

- Trainings
 - Coastal Resilience / Grants writing training
- Highlights NOAA activities in Caribbean
 - Coral work
 - Hazards
 - Placed based efforts
- Priority setting

Updating and prioritizing Carib Strategy goals 1 & 3

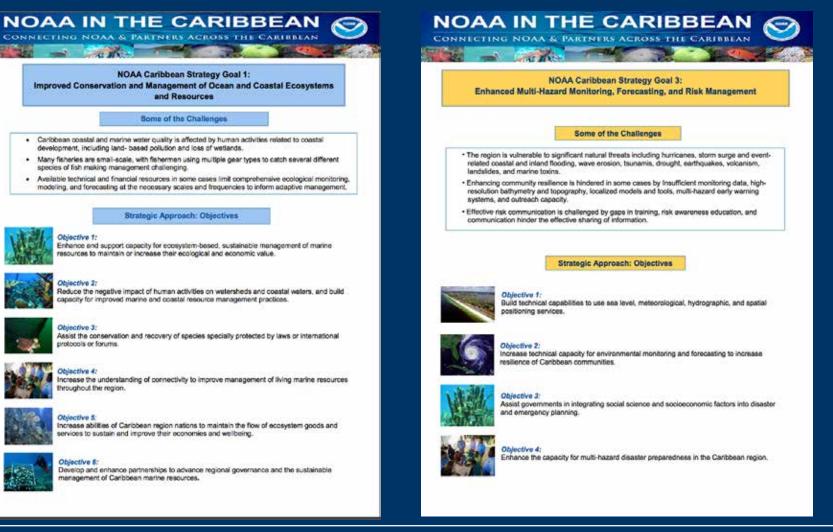


NOAA Activities

NOAA ACTIVITIES (GENERALLY) IN THE CARIBBEAN							
	National Marine Fisheries Service	National Ocean Service	National Weather Service	Office of Oceanic and Atmospheric Research	National Environmental Data (NESDIS)		
RESEARCH	restoration; OPR: ESA and	Office for Coastal Management OCM): socio - economic ; National Centers for Coastal Ocean Science (NCCOS): corals, Sociio-Economic,	Hurricane, Tsunamis, Weather, Tornadoes	Marine Lab (AOML) - Oceanographic, Climate Program Office (CPO) -	Center for Satellite Applications and Research (STAR), National Centers for Environmental Information (NCEI) science projects and assessments		
MODELING	Modeling, Stock Assessment Modeling	CariCOOS, wind, wave, circulation	Climate, weather, hydrology, Storm surge, tsunamis, water resources, hydrology	AOML/CIMAS: dynamic downscaled climate models			
MAPPING	species, tracking marine	NCCOS- Fish distribution, sea floor habitat; EFH OCM- land cover	tsunamis), Hurricane tracking, Climate, drough outlooks	Okeanos Explorer mapping expeditions	Real-time satellite imagery and data (e.g., GOES-R, JPSS)		
REAL TIME INFO		CariCOOS - various oceanographic data; CO- Ops - water level	Weather, Hurricane, Tsunamis, Tornadoes, Flood (including coastal); Sea level, weather data;	Warning System network; CHAMP,	Weather and Sea Level (GOES/GTS)		
	Commercial and recreational fishery statistics and fishery independent surveys, Office of Science and Technology data portal, species information (ESA, MMPA, fisheries), socioeconomic data; Voice from the Fisheries (oral histories from fishers)		Climate, Weather, Water. Hurricane, Tsunamis, Tornadoes, Flood (including coastal)		NCEI, world's leading repository of environmental data		



2016 Partners Meeting Focus on Hazards and Ecosystems





Preliminary Priorities for Ecosystems Goal

- Better execute existing laws and regulations on critical habitats, protected species and protected areas through multiagency effort.
- Enhance fisheries regulatory compliance though increased enforcement capacity and strength and leverage Joint Enforcement agreements.
- Economic valuation for marine resources and criteria for prioritization of areas through implementation of the SPAW.
- Enhance biogeographic assessment to map and characterize coastal and marine ecosystems to identify and develop ecosystem based decision-making tools and trainings.



Preliminary Priorities for Hazards Goal

- Increase the dissemination of timely and effective warnings and forecasts and increase the number and frequency of multi-hazard outreach and education through partnerships with community groups, schools, and the media.
- Provide expertise, training and equipment to advance seafloor mapping (bathymetry, habitat, and sediment /sand) mapping, focusing on the nearshore, coastal lagoons, nearshore riverine and estuarine areas in the US Caribbean.
- Strengthen and maintain a modernized and sustainable sea level, meteorological, hydrographic survey framework, maintain and expand water level and geophysical observation stations; and construct a regional integrated knowledge management and archival for oceanographic observation, social and economic data and information to facilitate data acquisition, sharing, and archiving.



Next Steps

- Share all identified priority activities with meeting attendees and key NOAA and Partner offices that were absent.
- Have them all provide input on the priorities to NOAA Carib SC
- Provide another opportunity (virtual) to prioritize activities
- Settle on one or two that we want to take to partner and NOAA leadership to push forward.



Questions?

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- Goal 1: Improved Conservation and Management of Ocean and Coastal Ecosystems and Resources
 - Enhance And Support Capacity For Ecosystem-Based, Sustainable Management Of Marine Resources To Maintain Or Increase Their Ecological And Economic Value
 - Reduce the negative impact of human activities on watersheds and coastal waters, and build capacity for improved marine and coastal resource management practices
 - Assist the conservation and recovery of species specially protected by laws or international protocols or forums
 - Increase the understanding of connectivity to improve management of living marine resources throughout the region
 - Increase abilities of Caribbean region nations to maintain the flow of ecosystem goods and services to sustain and improve their economies and well-being
 - Develop and enhance partnerships to advance regional governance and the sustainable management of Caribbean marine resources



- Goal 2: Strengthened Understanding of, and Adaptation to, a Changing Climate
 - Improve scientific understanding and prediction of changing climate in the Caribbean
 - Improve scientific understanding of how Caribbean resources and ecosystems are impacted by a changing climate
 - Support adaptation and mitigation options through sustained, reliable, and timely climate services
 - Foster a climate-literate public that understands its vulnerabilities to a changing climate and is able to make informed decisions



- Goal 3: Enhanced multi-hazard monitoring, forecasting, and risk management
 - Build technical capabilities to use sea level, meteorological, hydrographic and spatial positioning services
 - Increase technical capacity for environmental monitoring and forecasting to increase resilience of Caribbean communities
 - Assist governments in integrating social science and socioeconomic factors into disaster and emergency planning
 - Enhance the capacity for multi-hazard disaster preparedness in the Caribbean region



NOAA Carib Strategy Goals and Objectives

NOAA CARIBBEAN STRATEGY GOALS & OBJECTIVES

Goal 1: Improved Conservation and Management of Ocean and Coastal Ecosystems and Resources

Objective 1	Enhance And Support Capacity For Ecosystem-Based, Sustainable Management Of Marine Resources To Maintain Or Increase Their Ecological And Economic Value					
Objective 2	Reduce the negative impact of human activities on watersheds and coastal waters, and build capacity for improved marine and coastal resource management practices					
Objective 3	Assist the conservation and recovery of species specially protected by laws or international protocols or forums					
Objective 4	Increase the understanding of connectivity to improve management of living marine resources throughout the region					
Objective 5	Increase abilities of Caribbean region nations to maintain the flow of ecosystem goods and services to sustain and improve their economies and well-being					
Objective 6	Develop and enhance partnerships to advance regional governance and the sustainable management of Caribbean marine resources					
Goal 2: Strengthened Understanding of, and Adaptation to, a Changing Climate						
Objective 1	Improve scientific understanding and prediction of changing climate in the Caribbean					
Objective 2	Improve scientific understanding of how Caribbean resources and ecosystems are impacted by a changing climate					
Objective 3	Support adaptation and mitigation options through sustained, reliable, and timely climate services					
	Foster a climate-literate public that understands its vulnerabilities to a changing climate and is able to make informed decisions					
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	Increase technical capacity for environmental monitoring and forecasting to increase resilience of Caribbean communities					
Objective 3	Assist governments in integrating social science and socioeconomic factors into disaster and emergency planning					
Objective 4	Enhance the capacity for multi-hazard disaster preparedness in the Caribbean region					

