

CARICOOS Gap Analysis								
Status				Focus Area				Comments
Exists	Need	Priority	Planned	Maritime Operations	Coastal Hazards	Coastal Resources	Climate Variability	
<b>Oceanographic Data Buoys</b>								
Ponce		High		x	x	x	x	
San Juan		High		x	x	x	x	
Vieques		High		x	x	x	x	
St Thomas		High		x	x	x	x	
St John		High		x	x	x	x	
<b>Wave Data Buoys</b>								
Rincon		High		x	x	x	x	
Arecibo		High		x	x	x	x	
Spare		High		x	x	x	x	
<b>Small Buoys or Current Profilers</b>								
	St. Croix South - Small buoy	Medium		x				Provide observations in constrained approaches to critical ports
	Port of San Juan - Small buoy	High	x	x				
	Port of Guayanilla - ATON	High	x	x				
	Port of Las Mareas, Guayama - ATON	High	x	x				
<b>High Frequency Radars</b>								
Añasco		High		x				
North Cabo Rojo		High		x				
South Cabo Rojo Faro		High		x				
Ponce		High		x				
Maunabo		High		x				
	St Thomas South	High	x	x				
	San Juan	High	x	x				
	Fajardo	High	x	x				
	Vega Baja	High		x				
	Arecibo	High		x				
<b>Weather Stations</b>								
Ponce		High			x		x	
Isla Magueyes, La Parguera		High			x		x	
Cabo Rojo South		High			x		x	
Cabo Rojo North		High			x		x	
Puntas, Rincón		High			x		x	
Tres Palmas, Rincón		High			x		x	
Aguadilla		High			x		x	
Gurabo		High			x		x	
Fajardo		High			x		x	
Yabucoa		High			x		x	
Las Mareas, Guayama		High			x		x	
Culebrita		High			x		x	
Ruperts Rock, St. Thomas		High			x		x	
Buck Island, St. Thomas		High			x		x	
Crown Mountain, St. Thomas		High			x		x	
Two Brothers, St. John		High			x		x	
Sandy Point, St. Croix		High			x		x	
	Central Mountainous Range of PR	High	x		x		x	
<b>Water Quality Buoys or Equipment</b>								
La Parguera OA Buoy		High			x	x	x	
	Eco sensor ensemble - South coast of PR	Medium	x		x	x	x	To report salinity, temperature, pH, turbidity, DO, pCO2 and colored dissolved organic matter (discrete sampling as required)
	Eco sensor ensemble - East coast of PR	Medium	x		x	x	x	
	Eco sensor ensemble -North coast of PR	Medium			x	x	x	
	4 Eco sensor ensembles- short term deployments in response to event (Sargasso , riverine plumes, bleaching events)	High	x			x	x	To report salinity, temperature, pH, turbidity, DO, pCO2 and colored dissolved organic matter
<b>Autonomous Underwater Vehicles</b>								
5 NOAA-AOML Seagliders (AUV)		High					x	
1 CARICOOS Seaglider		High					x	
	Shallow Water AUV	Medium		x		x	x	For benthic mapping and nearshore oceanographic assessments in support of rapid response and ecosystem monitoring efforts
<b>Coastal Cameras</b>								
	Ground-based RGB and thermal camera system	Medium	x		x	x		
<b>Streamgauges</b>								
	Stream gauges	Medium			x			
<b>Other</b>								
	Real-time cameras aboard all CARICOOS oceanographic data buoys	Low	x	x				

