

NCRMP conducts nationally coordinated, sustained, and consistent coastal ocean observations to develop biological, climate, and socioeconomic status and trends indicators for priority U.S. coral reef areas



Coordinating coastal ocean observations of priority U.S. coral reef areas



NCRMP provides a steady flow of scientific information required to track the health of coral reefs. This monitoring plan consists of a broad, overarching framework within which scientific research is conducted to achieve coral reef conservation. The four primary goals of NCRMP are:

- Monitor the status and trends of coral reef ecosystems (including human communities),
- Monitor and assess climate-related threats to coral reefs,
- Provide a consistent flow of data and information to communities in coral reef jurisdictions, and
- Foster partnerships to expand the scope and scale of coral reef monitoring.



- NCCOS and NMFS/SEFSC
- Biennial fish and benthic surveys
- Grid based stratified random design
- Hardbottom habitats to 30 m
- Fish and coral independent survey design





Current methodology

Mission pre-planning

- Select sites
- Determine collection method at each site
- Determine depth at each site
- Create overview map for coordinator
- Create master site table
- Create organization chart for each boat

Station	Latitude	Longitude	Habitat	Depth	Target	Survey	Date	Time	Fish Diver	LPI Diver	Demo Diver	Demo 2 Diver	AUX Diver	Notes
E1	18.2212	-64.6779	HARD	90	1	F_L_D								
E2	18.225	-64.6656	HARD	98	1	F_L								
E3	18.23	-64.6614	HARD	81	1	W F L D								
E4a	18.1872	-64.7404	HARD	95	alt									
E5a	18.2033	-64.7165	HARD	98	alt									
J6	18.32	-64.6954	Agg Reef	49	1	W F_L_D								
J7	18.3209	-64.6519	Agg Reef	95	1	F_L_D								
J8	18.3375	-64.6601	Agg Reef	54	1	W F L D								
J9	18.3577	-64.823	Agg Reef	48	1	W F L								
J10	18.3405	-64.8252	HARD	81	1	W F L D								
J11	18.3459	-64.8324	HARD	57	1	W F_L_D								
J12	18.3472	-64.8333	HARD	62	1	F_L								
J13	18.3612	-64.8311	HARD	85	1	F_L_D								
J14	18.3612	-64.8306	HARD	84	1	W F_L								
J15	18.3116	-64.6769	Patch Reef	97	1	F_L_D								
J16	18.3291	-64.6917	Patch Reef	82	1	W F_L								
J17	18.3295	-64.6941	Patch Reef	81	1	F_L_D								
J18	18.348	-64.6526	Patch Reef	76	1	F_L_D								

E-Edge, J-St. John Open, M-Midshelf reef area Open, MJ-Monument (VICR) St. John, MM-Monument (VICR) midshelf reef area, P-Park (VIIS), S-Sail Rock, ST-STEER, T-St. Thomas Open



Current methodology

Mission

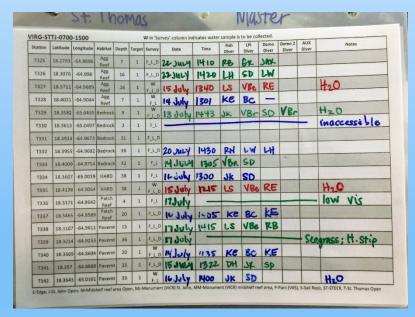
Coordinator

- Identify sites and assign to boats
- Copy data to master spreadsheet
- Mark off sites on map



Boat

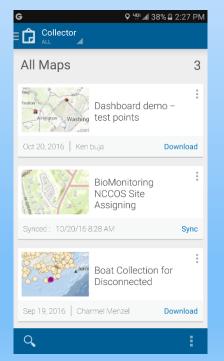
- Record date, time, divers
- Record dive status





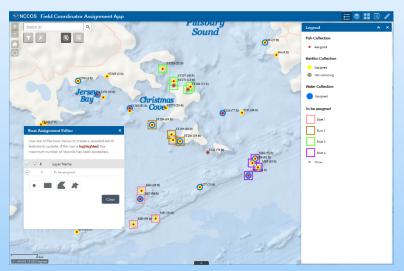
Esri tools to assign, collect, and view

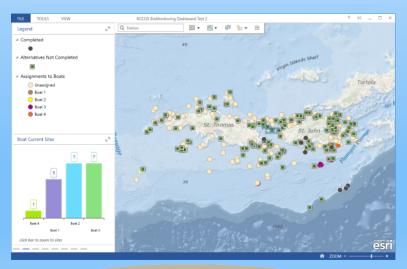
Assignment



Collector

Dashboard

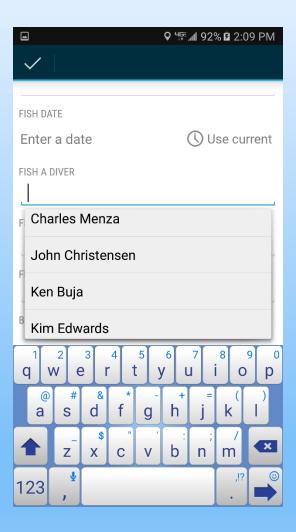




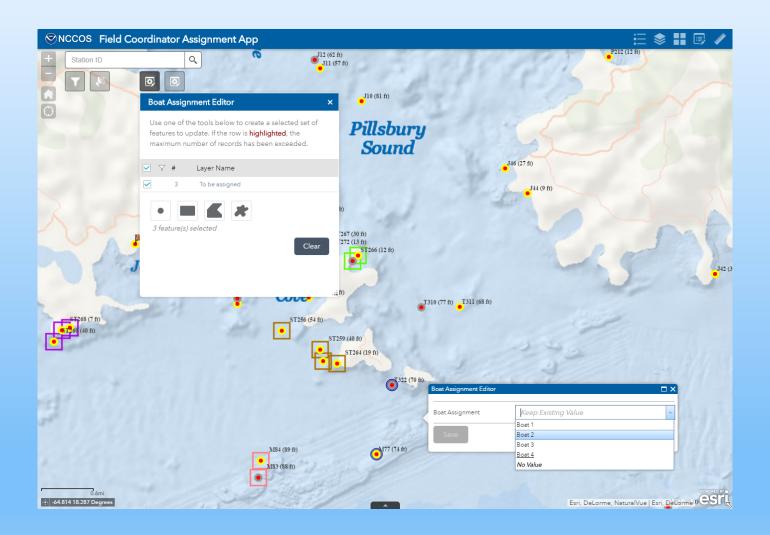


Assignment App Dashboard

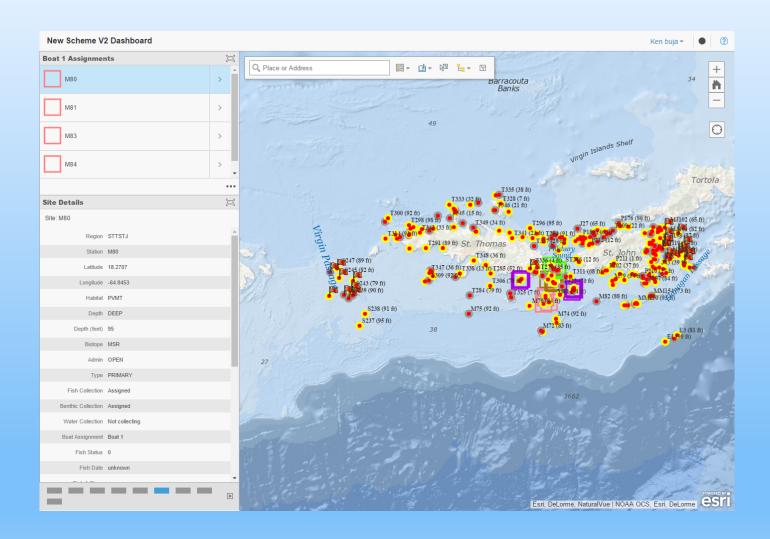














Next steps

Collector

- Customize actions
- Use related tables to record lat/long of multiple dives

Assignment

Customize Web Mapping App



Next steps

Testing

- Local testing
- Field testing
 - 1. NCRMP training (May)
 - 2. St. Croix USVI (June)





More information

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https://coastalscience.noaa.gov/projects/detail?key=180



Collector

