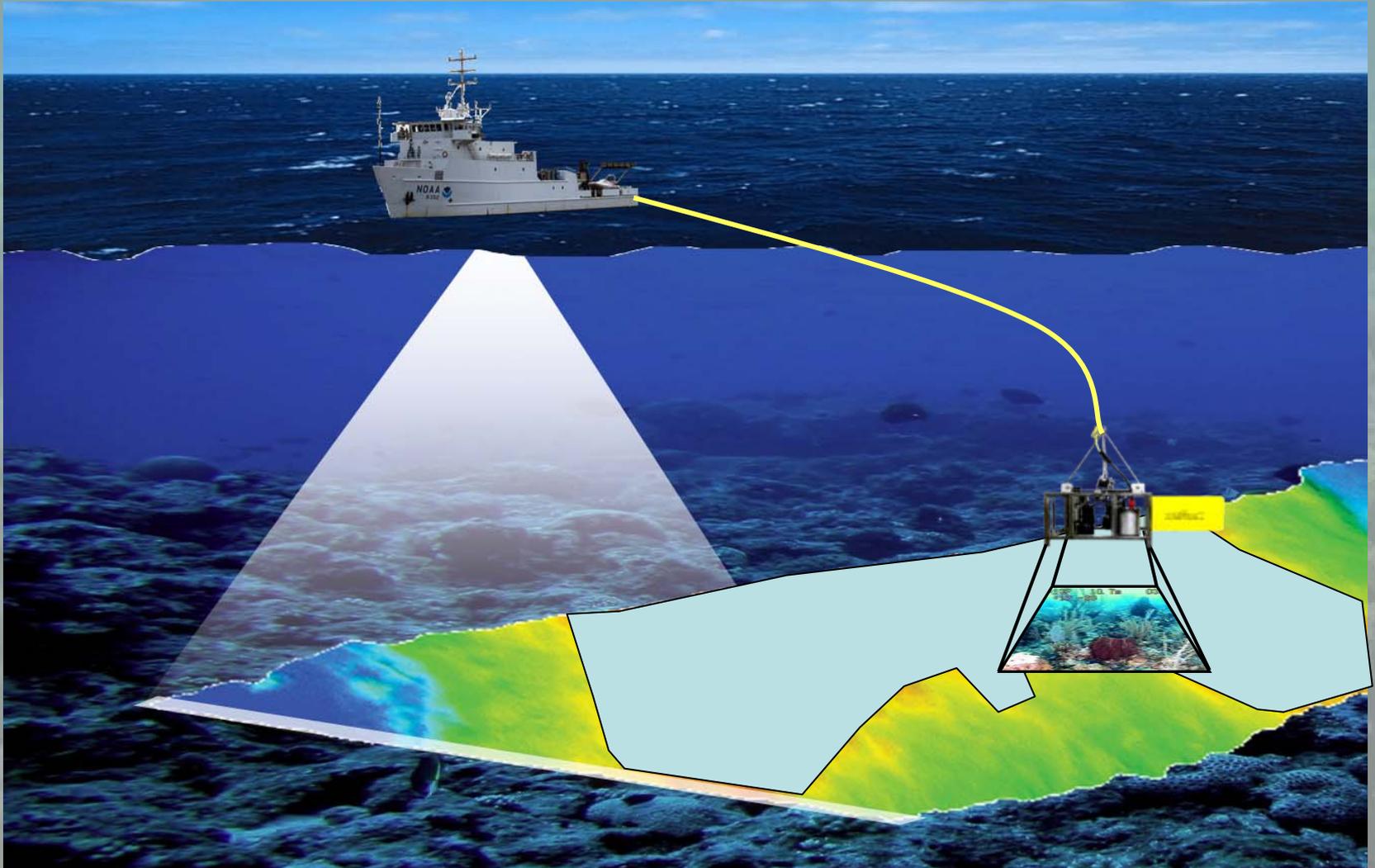




Groundtruthing





Equipment

Nancy Foster



- Winch and crane
- Differential GPS
- POS MV
- Monitors
- Controls
- Transceiver (USBL)
- Clock

ROV



- Video Camera
- Still Camera
- Lights
- Lasers
- Transponder (USBL)
- Pressure, Temp Sensors
- Movement Actuators

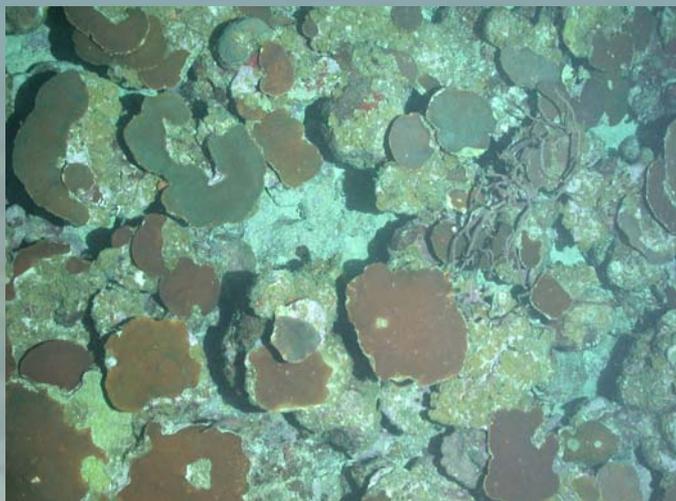
Drop Camera





Data

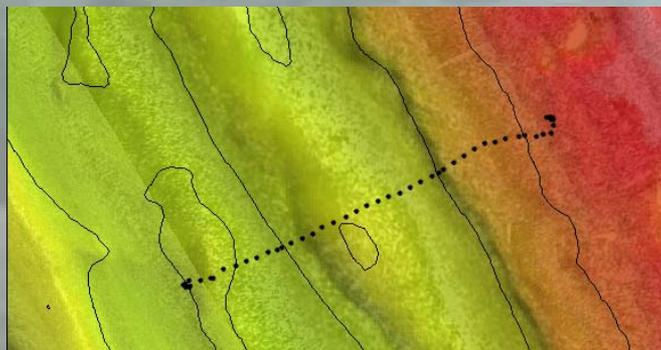
High Resolution Still Photo



Video



Geographic Coordinates



Interpretation

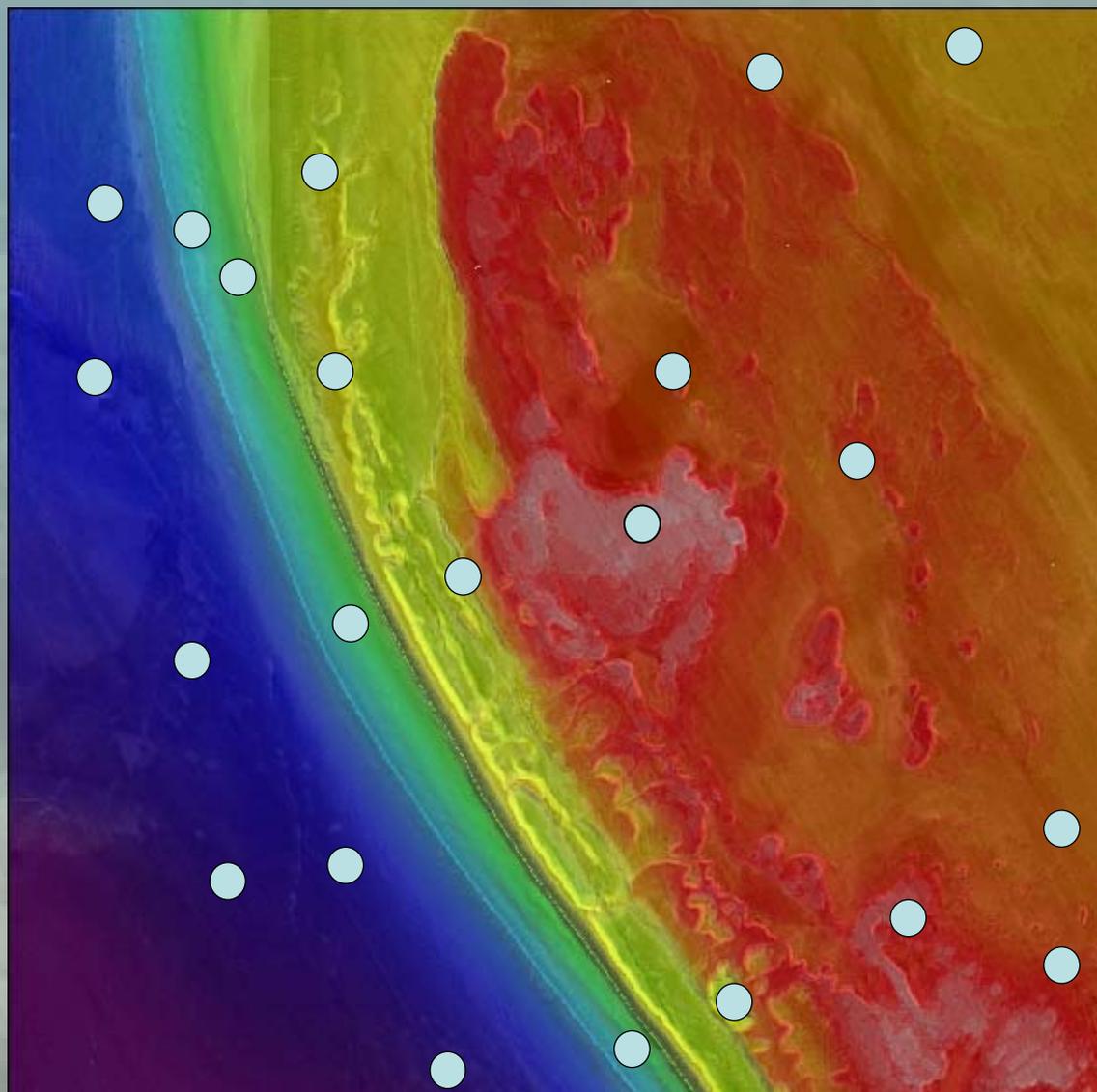
Example 2



Region	Southeast of PR
Spatial Coordinates	17.1025, -65.9538
Time	16:49:30
Depth	25 m
Geomorphological Structure	Hardbottom or mixed
	Algal Plain
% Stony Coral	0
% Gorgonian	0
% Sponge	2
% Seagrass	0
% Sessile Inverts	0
% Macroalgae	20
% Coralline Algae	20
% Turf Algae	50
% Uncolonized	8



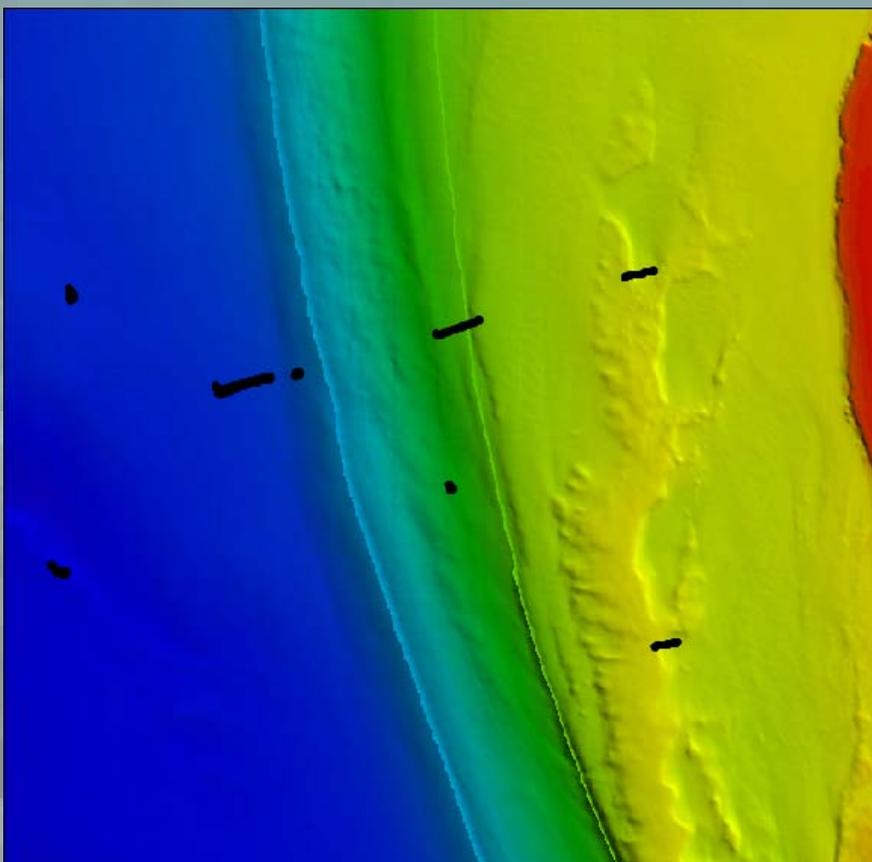
Groundtruth Locations



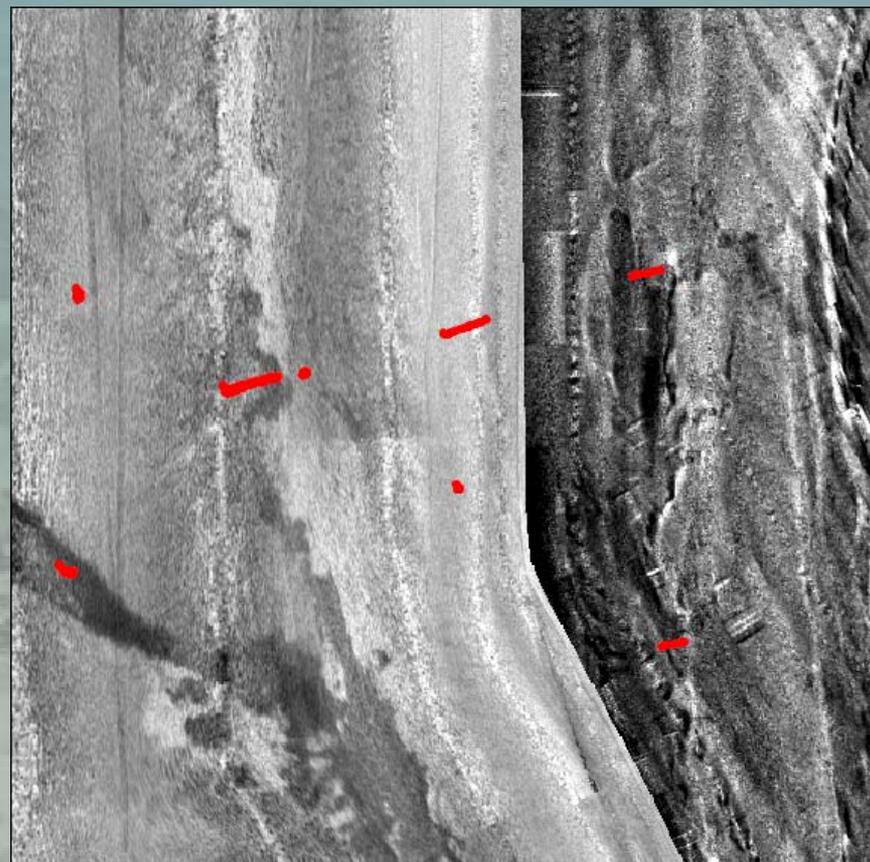


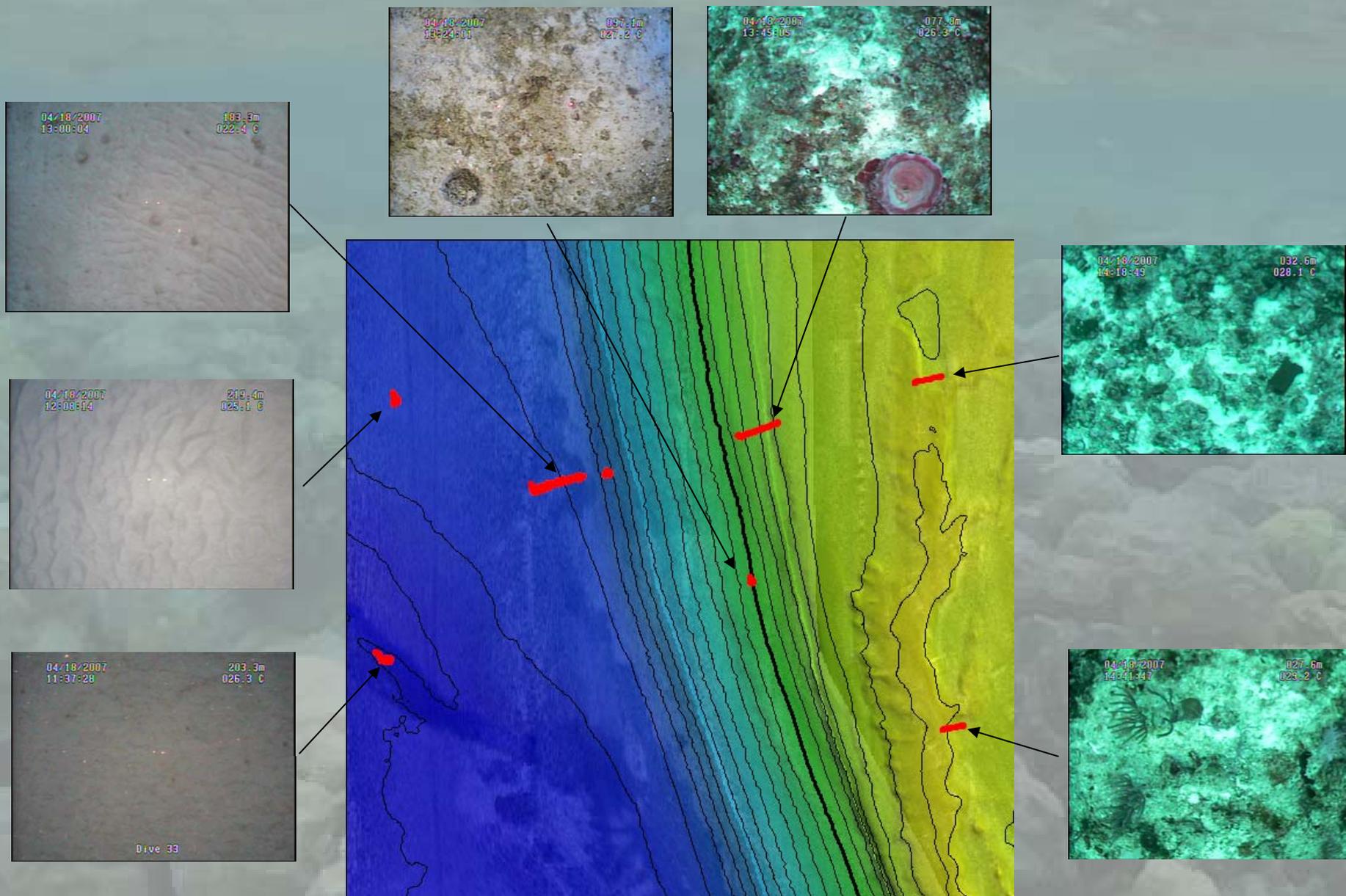
Groundtruth Sites

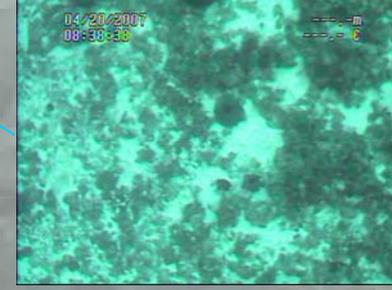
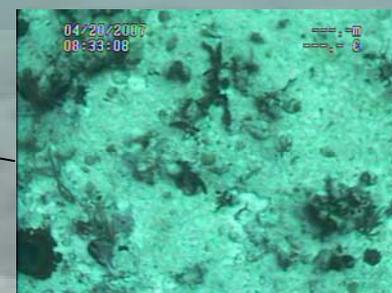
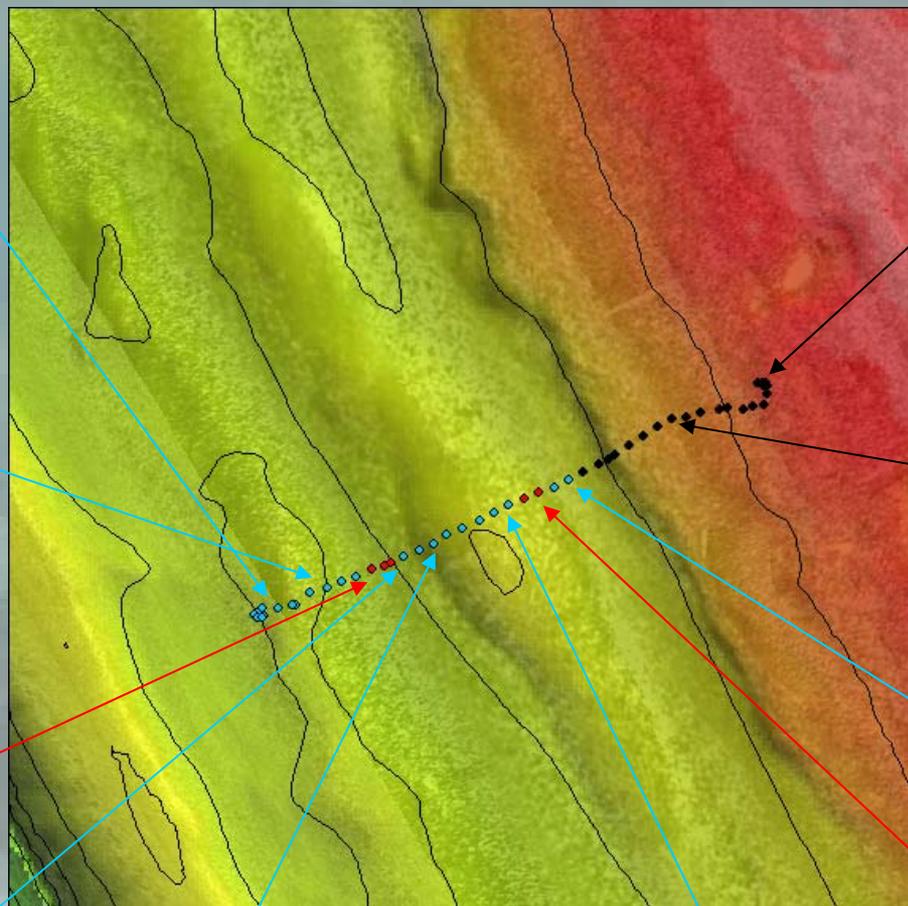
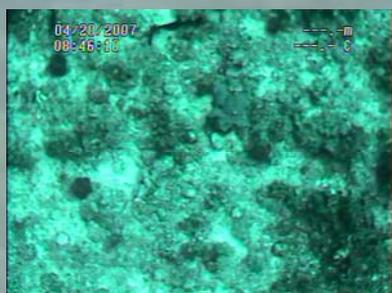
Bathymetry



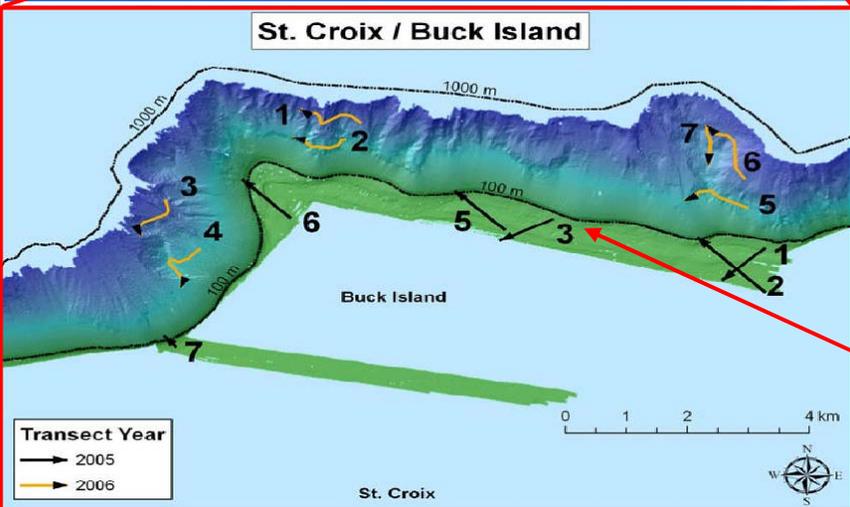
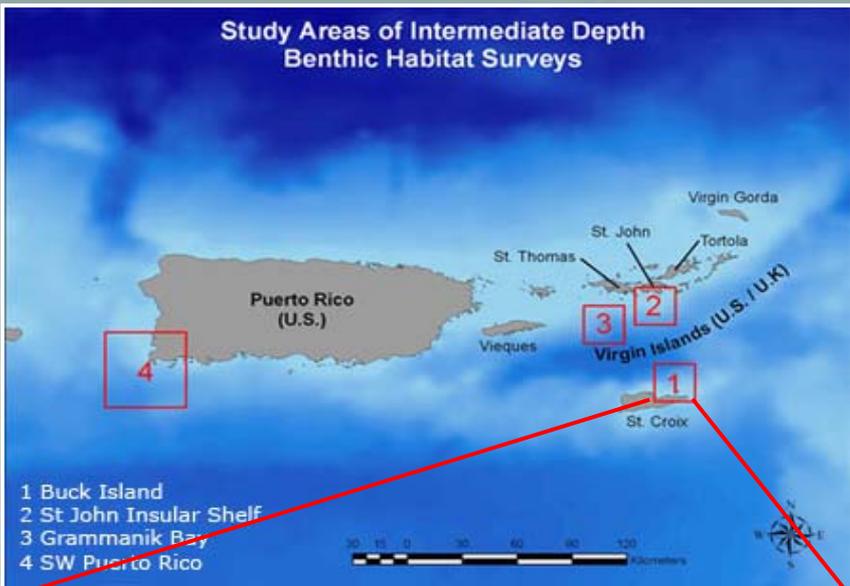
Backscatter







Benthic Habitat Viewer Database <http://www8.nos.noaa.gov/bhv/bhvMapBrowser.aspx>





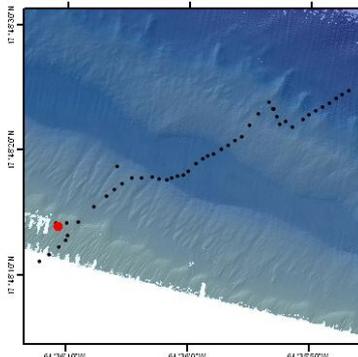
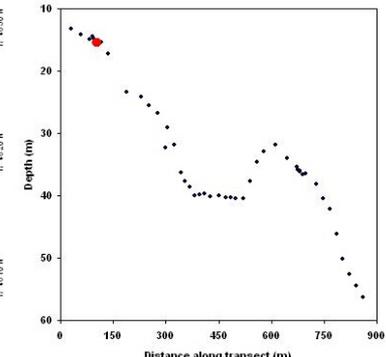
Center for Coastal Monitoring and Assessment (CCMA)
Science Serving Coastal Communities

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Depth: 15.37 (m)
 Distance: 102.92 (m)
 Latitude: 17.80390
 Longitude: -64.60303
 Time Stamp: 11:11:25 PM
 Rugosity: 1.00342
 Structure: Pavement
 Zone: St Croix Shelf
 Slope: 4.49

Bio Cover Type	Cover Percent
Live hard Coral (Stony Corals, Hydrocorals)	SPARSE (10%-50%)
Live soft coral (Gorgonians, Black Coral)	SPARSE (10%-50%)
Sponge	RARE (1%-10%)
Seagrass	ABSENT (0%)
Macroalgae	ABSENT (0%)
Coralline algae	ABSENT (0%)
Turf/Filamentous algae	SPARSE (10%-50%)

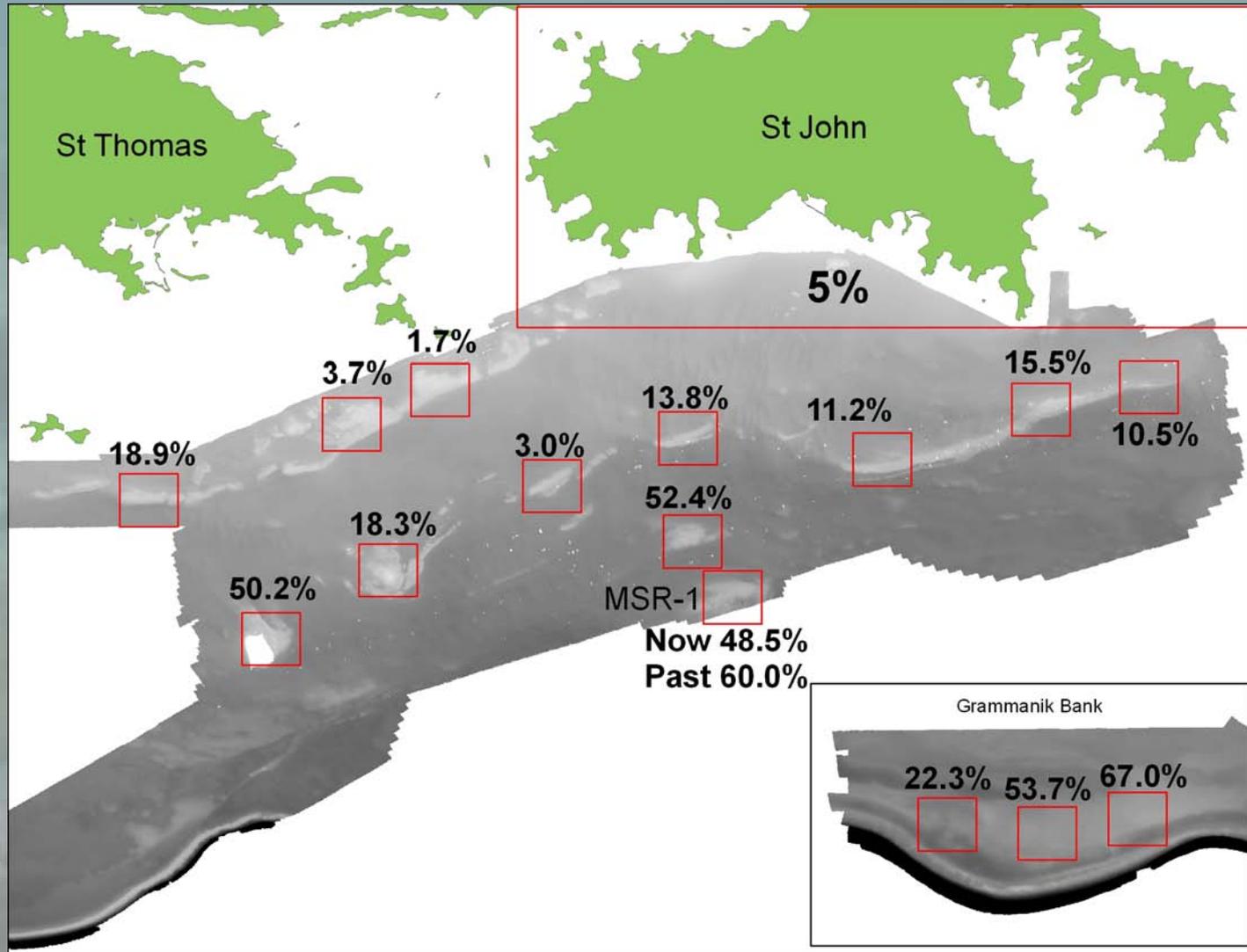



Transsect # 3
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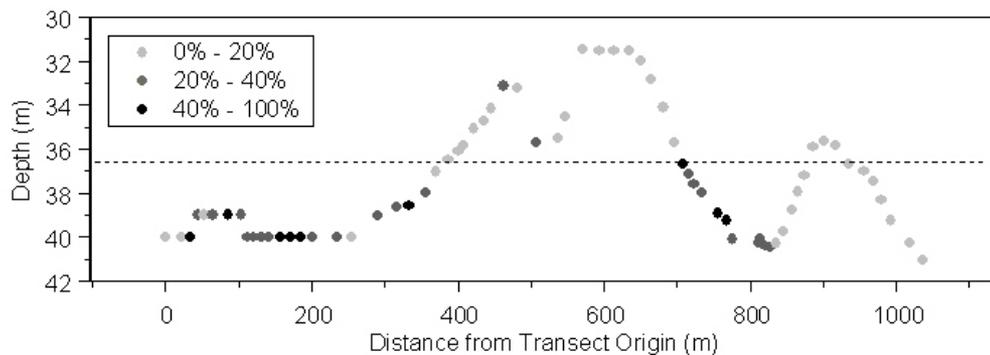
Other Findings



Other Findings



Algal Turf on Dead Coral



Other Findings

Species Inventories



Abundance Estimates



Marine Debris