CCRI 2005 GRANT

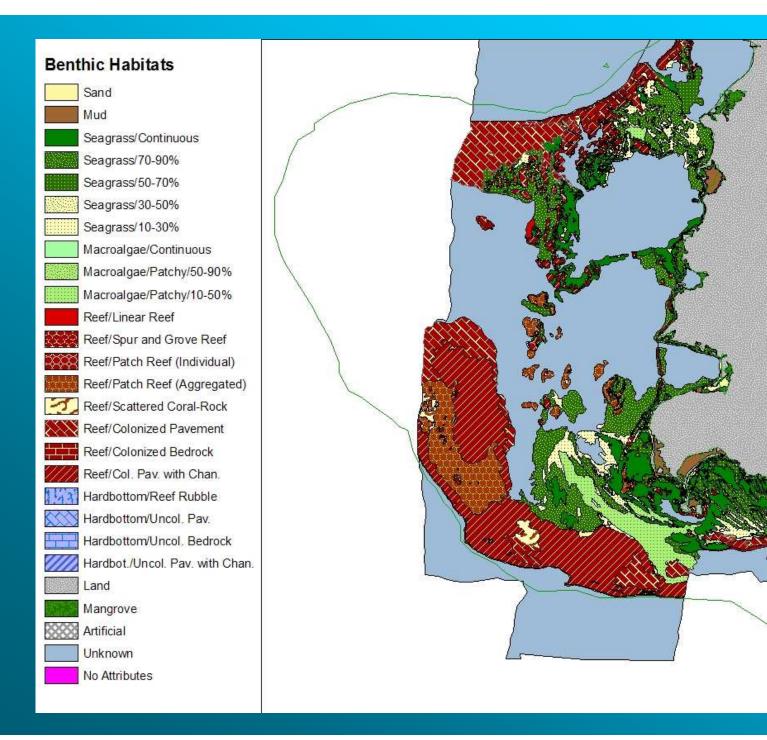
HABITAT MAPPING OF THE WEST COAST OF PUERTO RICO

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Under contract to:
NOAA Fisheries, SEFSC

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TOWED TRANSDUCER



SIGNAL ACQUISITION



ELECTRO-CONDUCTING WINCH



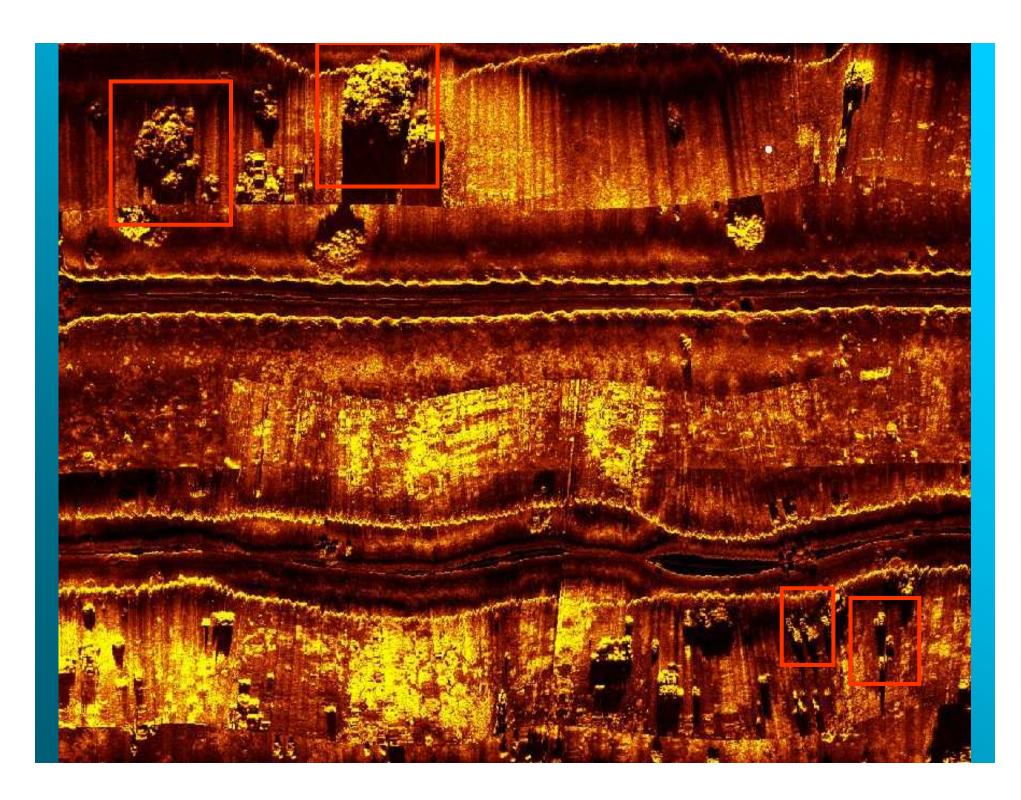
NAVIGATION

Sand/algal plain

Patch reef with dark Halophila halo

Reef-

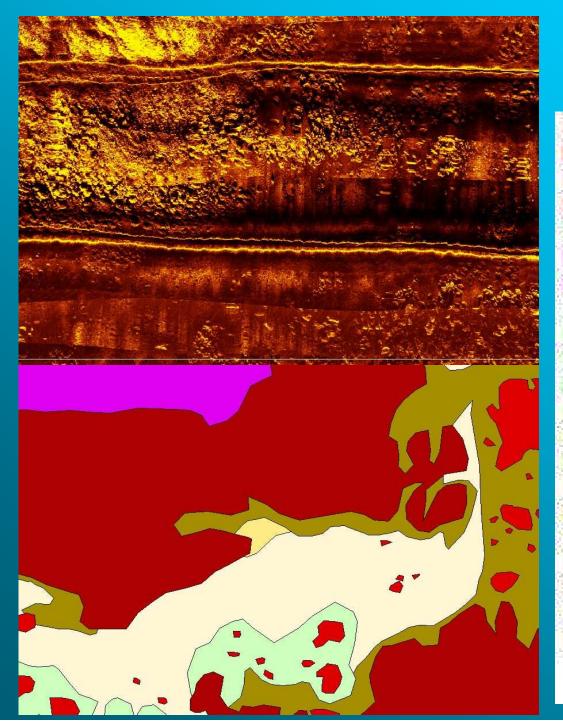
Sand ripples



Habitat Types from Side Scan Sonar

- Mixed/continuous corals
- Coral patch
- Coral limestone
- Gorgonian patch
- Gorgonian plains
- Elevated gorgonians
- Dense grass
- Sparse grass
- Grass and invertebrates Mud reef

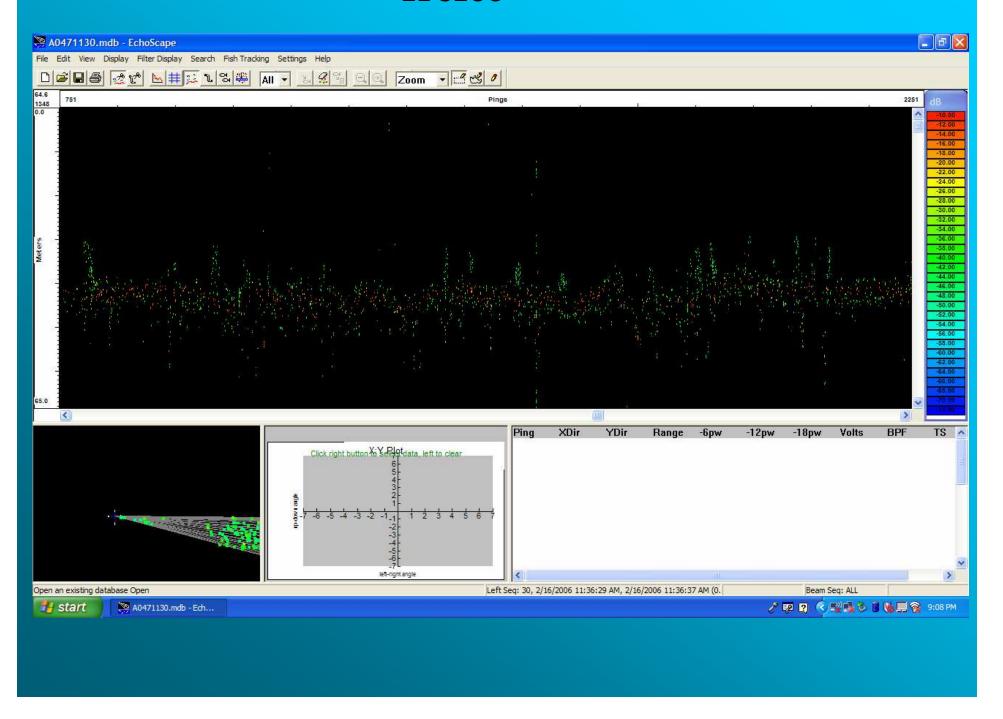
- Dense algae on sand
- Sparse algae on sand
- Algae on silt
- Sand no-ripple
- Sand ripple
- Sand fine
- Mud bare
- Mud with invertebrates



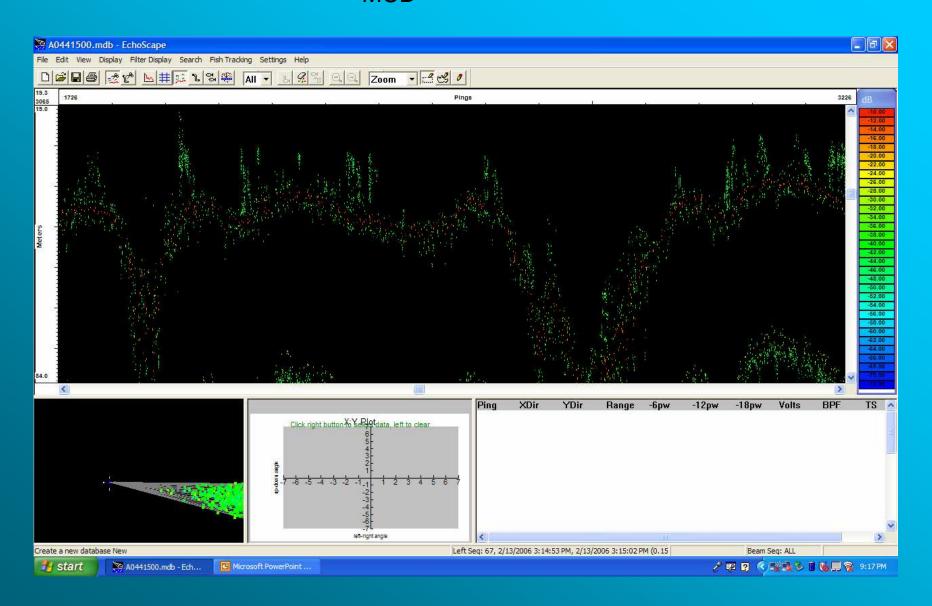
100 m

contineues cerals coral_limestone gorgonian_patch coral patch corals |patch_halo elevated_gorgonians gorgonian_plain deep algae shallow_algae dense_algae sparse_algae dense_grass grass_invertebrates grass_sparse sand_invertebrates sand_noripple sand ripple fine sand mud_bare mud_relef mud_invertebretes

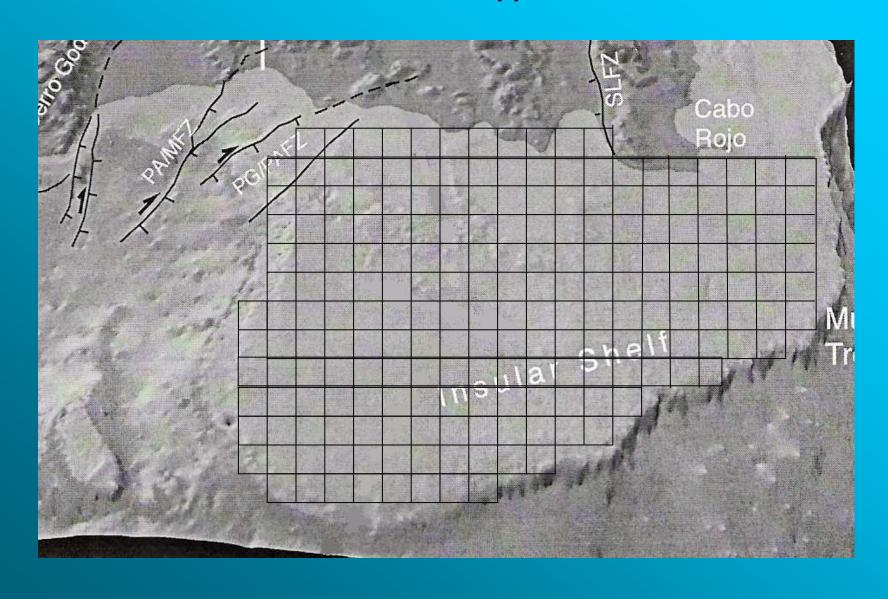
EL SECO



MCD



Area to be Mapped



Cabo Rojo Shelf Area = 193, 1nm²

Swath (m)	nm ² /day	Total days
100	.8	154
200	3	64
300	4.5	43
400	6	32

Status of Main Tasks

- Obtain previously collected SSS data; assess quality for habitat mapping
 - Trip to US scheduled for March, 2006.
- Loan or lease SSS
 - Sonars located at NOAA and UNC-Wilmington
 - Inspection trip scheduled for March, 2006.
- Begin SSS data collection
 - April, 2006 (Weather dependent)
 - Boat and crew identified
- Begin process SSS data to obtain habitat maps
 - May, 2006.