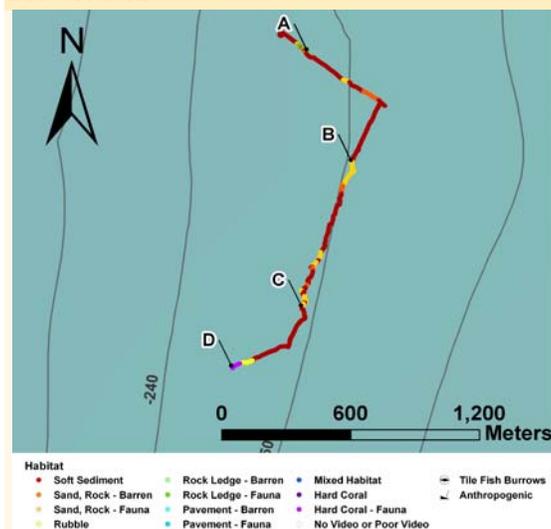


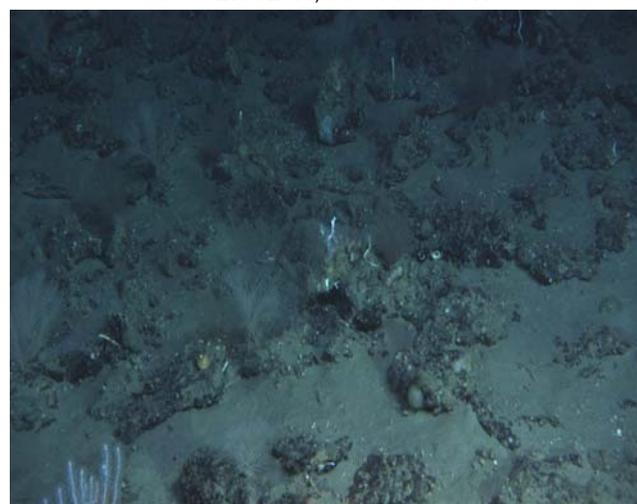
DIVE NUMBER: J2-547**STUDY AREA: Jacksonville****STATION OVERVIEW**

Project	Extreme Corals 2010
Principal investigators	SW Ross ¹ , SD Brooke
PI Contact Info¹	Center for Marine Science, 5600 Marvin Moss Ln., Wilmington, NC 28409
Purpose	Mapping of deep coral banks, ecological studies of macroinvertebrates and fishes, paleoclimate studies, coral genetics and education outreach
Vessel	NOAA Ship Ronald H. Brown, Jason 2 ROV
Science Divers	M Nizinski, A David, M Dunn
External Video Tapes	External Hard Drive
Internal Video Tapes	
Digital Still Photos	Yes
Positioning System	dGPS
CTD File	<input checked="" type="checkbox"/>
Specimens Collected	<input checked="" type="checkbox"/>
Other	Hard copy of observation log. Virtual van logs.
Acknowledgements	NOAA- DSCRT, NOAA-OER, NOAA Fisheries, USGS, UNCW, NC Museum of Natural Sciences
SEADESC Analyst	S Ross
Date Compiled	7/19/2011
PI Station Number	ROV-2010-RB-547

GENERAL LOCATION**Dive Track:****DIVE DATA**

Date	18-Nov-10
Minimum Bottom Depth (m)	210
Maximum Bottom Depth (m)	249
Start Bottom Time (EDT)	9:43
End Bottom End (EDT)	17:40
Starting Latitude (N)	30° 02.173'
Starting Longitude (W)	80° 11.780'
Ending Latitude (N)	30° 01.508'
Ending Longitude (W)	80° 11.788'
Surface Current (Kts)	
Bottom Current (Kts)	

Image A: Rock Ledge - with Attached Fauna
30° 02.332' N, 80° 11.595' W



DIVE NUMBER: J2-547

STUDY AREA: Jacksonville

IMAGE GALLERY

* indicates image position is approximated

**Image B: Sand/Rubble/Rock-
with Attached Fauna**

30° 02.044' N, 80° 11.483' W



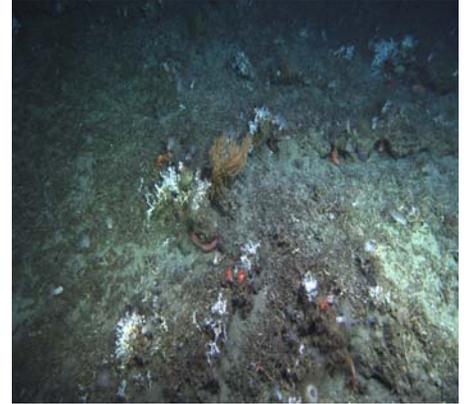
**Image C: Sand/Rubble/Rock-
with Attached Fauna**

30° 01.666' N, 80° 11.608' W



**Image D: Hard Corals -
with Attached Fauna**

30° 01.510' N, 80° 11.783' W



RELEVANT WORK AND/OR LITERATURE CITED

- | | |
|-------------------------------------|-----------------------------------|
| Ayers and Pilkey (1981) | Ross and Nizinski (2007) |
| EEZ-SCAN 87 Scientific Staff (1991) | Ross and Quattrini (2007, 2009) |
| Paull et al. (2000) | Ross et al. (unpubl. cruise data) |
| Reed (2002) | |
| Reed and Ross (2005) | |
| Williams et al. (2007) | |
| Reed et al. (2006) | |

BIOLOGICAL ENVIRONMENT

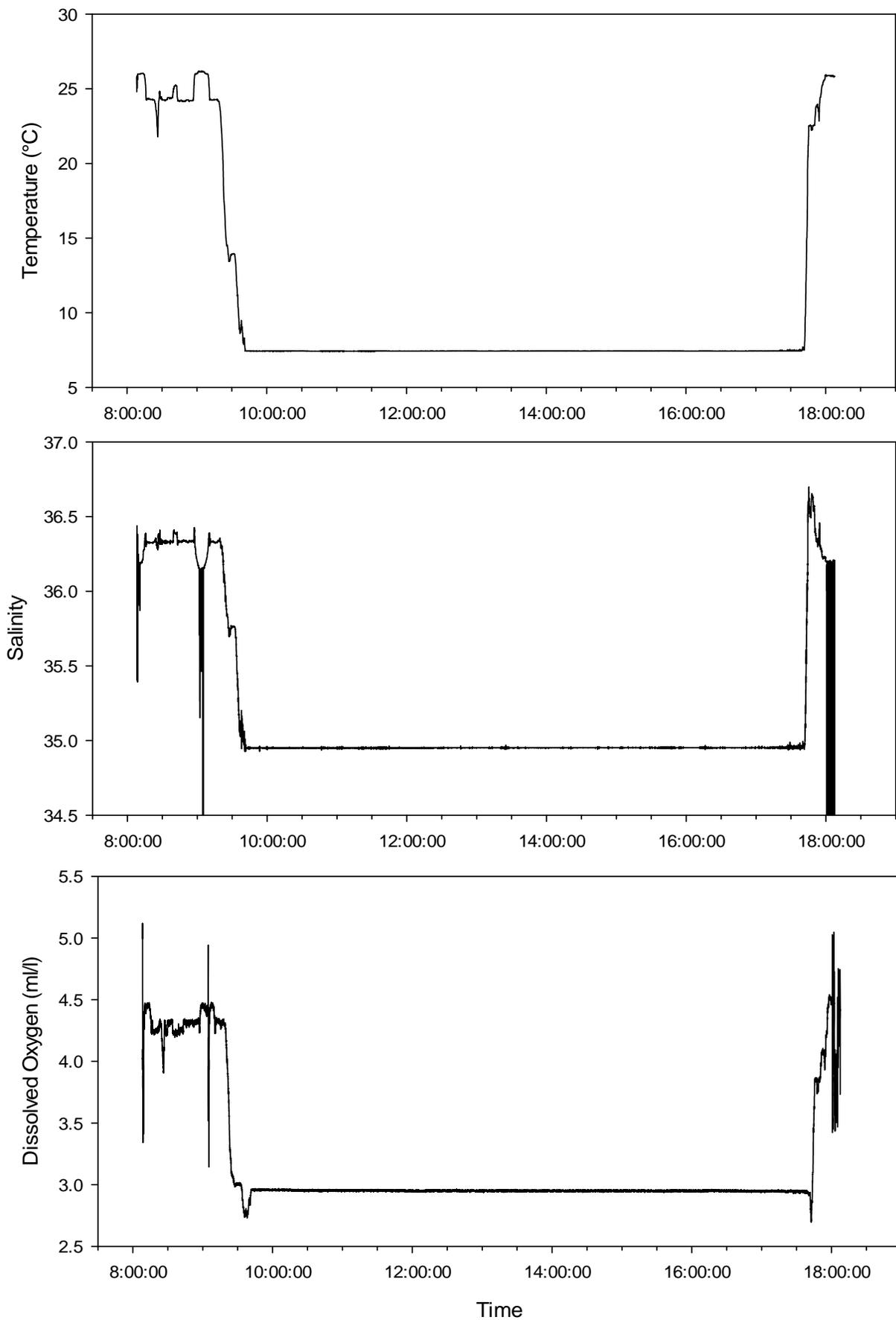
This is to date the shallowest site discovered off the SEUS that has substantial deep-sea corals and other cold water fauna. Corals occurred in scattered patches on the rocky habitat. Near the end of the dive there was an indication of a bioherm feature composed mostly of *Lophelia pertusa*. Faunal diversity was not very high but biomass of some fauna was noticeably higher than many other sites. *Helicolenus dactylopterus* and *Dysommima rugosa* were very common around reef areas and greeneyes and tongue fish were common on sand habitat. Invertebrates were less abundant with golden crabs, and other crabs being observed frequently.

PHYSICAL ENVIRONMENT

This was an area of very patchy habitat through most of the dive. Patches of low profile rocks and boulders occurred in areas surrounded by sand. Very little continuous reef habitat was observed until the end of the dive. At that time a *L. pertusa* rubble zone was encountered leading up to a small *L. pertusa* mound, and more live corals were observed in this reef area. Currents were moderate through most of the dive.

ADDITIONAL COMMENTS

Video is stored on a Mac-formatted external hard drive. Video time in GMT. Video quality during this dive was fair.



Plots of CTD data recorded during ROV dive ROV-2010-RB-547 (18 Nov 2010) off Jacksonville, FL.