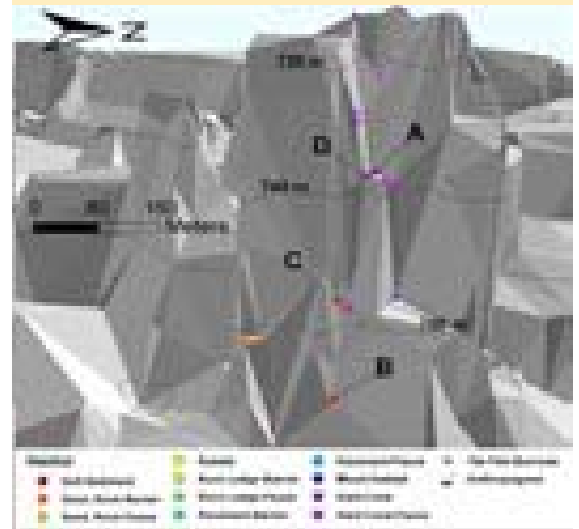


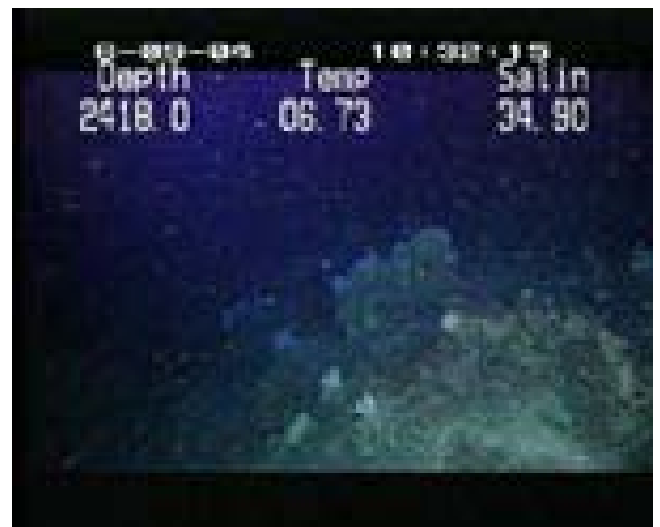
**DIVE NUMBER: JSLI-4681****STUDY AREA: Cape Canaveral North****STATION OVERVIEW**

<b>Project</b>	Life on the Edge 2004
<b>Principal investigators</b>	SW Ross <sup>1</sup> KJ Sulak, MS Nizinski, E Baird
<b>PI Contact Info<sup>1</sup></b>	Center for Marine Science, 5600 Marvin Moss Ln., Wilmington, NC 28409
<b>Purpose</b>	Mapping of deep coral banks, ecological studies of macroinvertebrates and fishes, paleoclimate studies, coral genetics and educational outreach
<b>Vessel</b>	R/V Seward Johnson, Johnson Sea Link I Submersible
<b>Science Divers</b>	SW Ross (bow), KJ Sulak (stern)
<b>External Video Tapes</b>	2 mini DVs, 1 HD
<b>Internal Video Tapes</b>	3 mini DVs
<b>Digital Still Photos</b>	0
<b>Positioning System</b>	dGPS
<b>CTD File</b>	<input checked="" type="checkbox"/>
<b>Specimens Collected</b>	<input checked="" type="checkbox"/>
<b>Other</b>	Hard copies of bow and stern audio logs
<b>Acknowledgements</b>	NOAA-OE, NOAA Fisheries, USGS, UNCW, NC Museum of Natural Sciences
<b>SEADESC Analyst</b>	AM Quattrini, ML Partyka
<b>Date Compiled</b>	11/16/2006

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

<b>Date</b>	09-Jun-04
<b>Minimum Bottom Depth (m)</b>	709
<b>Maximum Bottom Depth (m)</b>	783
<b>Start Bottom Time (EDT)</b>	9:10
<b>End Bottom End (EDT)</b>	11:12
<b>Starting Latitude (N)</b>	28° 47.546'
<b>Starting Longitude (W)</b>	79° 37.191'
<b>Ending Latitude (N)</b>	28° 47.600'
<b>Ending Longitude (W)</b>	79° 37.311'
<b>Surface Current (Kts)</b>	3
<b>Bottom Current (Kts)</b>	

**Image A: Hard Coral-Fauna**  
28° 47.624' N, 79° 37.298' W



## DIVE NUMBER: JSLI-4681

## STUDY AREA: Cape Canaveral North

### IMAGE GALLERY

\* indicates image position is approximated

#### Image B: Sand/Rubble/Rock-Barren

28° 47.601' N, 79° 37.291' W



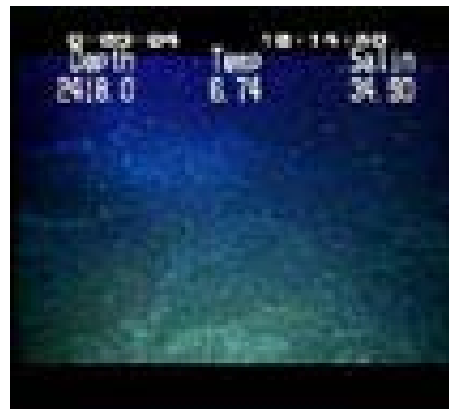
#### Image C: Sand/Rubble/Rock-Barren

28° 47.585' N, 79° 37.262' W \*



#### Image D: Hard Coral

28° 47.622' N, 79° 37.300' W



### RELEVANT WORK AND/OR LITERATURE CITED

EEZ-SCAN 87 Scientific Staff (1991)  
Reed (2002)  
Reed and Ross (2005)  
Reed et al. (2006)  
Ross and Nizinski (in press)

### BIOLOGICAL ENVIRONMENT

Very few species of fish or invertebrates were seen during this dive. *Synaphobranchus* spp. dominated this area and was seen primarily over flat sediment/rubble habitat. Other species included *Fenestraja plutonia*, *Nezumia sclerorhynchus*, and *Laemonema melanurum*. There were a large number of sessile invertebrates in the area, such as anemones, hexactinellid sponges, antipatharians and *Madrepora* corals. No galatheid crabs were seen during this dive. Living *Lophelia pertusa* was found in scattered small patches as well as occasional large thickets.

### PHYSICAL ENVIRONMENT

The habitats observed during this dive were generally of three types: 1) primarily low relief area with a combination of fine rubble and 'crunchy' sediment layers, 2) small patches of live and dead hard corals, primarily *L. pertusa* with attached soft corals and sponges, and 3) hard coral stands composed of >50% dead coral, often surrounded by large glass sponges.

### ADDITIONAL COMMENTS

This dive was captured on 2 mini DVs and 1 HD and archived on 2 DVDs. Internal video footage from the bow was used to compensate for missing data during the last 30 minutes of the dive. The overall video quality was mediocre-to-fair, owing largely to low lighting during transects and moderate marine snow.