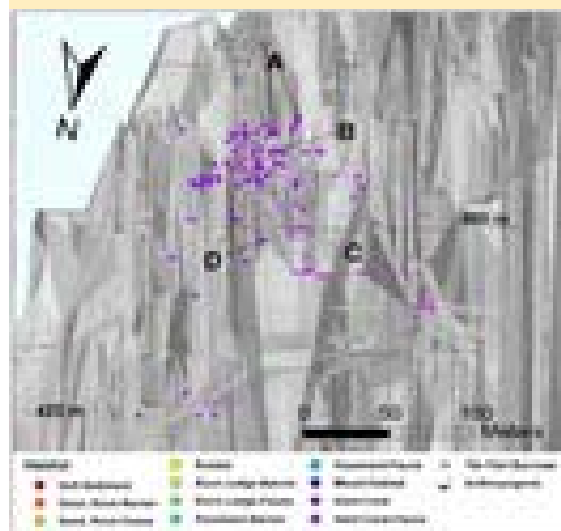


**DIVE NUMBER: JSLI-4697****STUDY AREA: Cape Fear Lophelia****STATION OVERVIEW**

<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), AM Quattrini (stern)
<b>External Video Tapes</b>	2 mini DVs
<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>	No stern audio log
<b>Acknowledgements</b>	NOAA-OE, NOAA Fisheries, USGS, UNCW, NC Museum of Natural Sciences
<b>SEADESC Analyst</b>	AM Necaise, ML Partyka
<b>Date Compiled</b>	11/16/2006

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

<b>Date</b>	17-Jun-04
<b>Minimum Bottom Depth (m)</b>	394
<b>Maximum Bottom Depth (m)</b>	411
<b>Start Bottom Time (EDT)</b>	16:42
<b>End Bottom End (EDT)</b>	18:24
<b>Starting Latitude (N)</b>	33° 34.570'
<b>Starting Longitude (W)</b>	76° 27.835'
<b>Ending Latitude (N)</b>	33° 34.589'
<b>Ending Longitude (W)</b>	76° 27.773'
<b>Surface Current (Kts)</b>	
<b>Bottom Current (Kts)</b>	0.7

**Image A: Hard Coral**  
33° 34.560' N, 76° 27.798' W



## DIVE NUMBER: JSLI-4697

## STUDY AREA: Cape Fear Lophelia

### IMAGE GALLERY

\* indicates image position is approximated

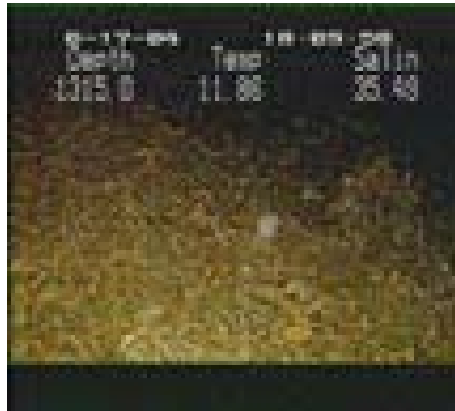
#### Image B: Hard Coral

33° 34.554' N, 76° 27.792' W



#### Image C: Hard Coral

33° 34.560' N, 76° 27.798' W



#### Image D: Hard Coral

33° 33.566' N, 76° 27.786' W



### RELEVANT WORK AND/OR LITERATURE CITED

EEZ-SCAN 87 Scientific Staff (1991)  
Reed and Ross (2005)  
Ross and Nizinski (in press)

### BIOLOGICAL ENVIRONMENT

Brittle stars, *Echinus* spp., *Eumunida picta*, anemones, and hexactinellid sponges were abundant invertebrates observed in this *Lophelia pertusa* habitat. Fishes were uncommon; however, *Polyprion americanus* was most abundant. Other fishes observed included scorpaenids, *Laemonema barbatulum*, and *Chaunax stigmaeus*.

### PHYSICAL ENVIRONMENT

The habitat observed during this dive was very similar to dive JSLI-4696. Overall, the habitat was standing dense, dead hard coral (*Lophelia pertusa*) matrix, mixed with patches of coral rubble and coarse sand. Small standing twigs and bushes of live *Lophelia pertusa* were also observed. Attached fauna were common and included small, pink anemones, fly trap anemones, and hexactinellid sponges. A strong current was apparent during this dive.

### ADDITIONAL COMMENTS

This dive was captured on 2 mini DVs and saved to 2 DVDs for archiving. At times, transects were underlit, there were long stretches of closely zoomed data, and there was interference from the video feed. The sub also frequently left the bottom, making habitat classifications difficult.