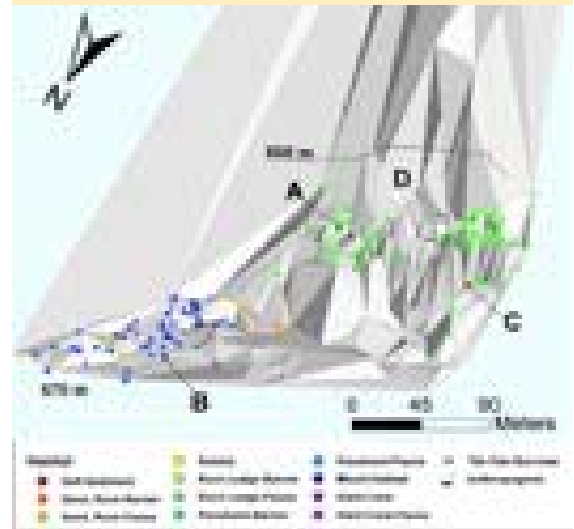


**DIVE NUMBER: JSLII-3417****STUDY AREA: Charleston Bump****STATION OVERVIEW**

<b>Project</b>	Investigating the Charleston Bump 2003
<b>Principal investigators</b>	GR Sedberry <sup>1</sup> SE Stancyk
<b>PI Contact Info<sup>1</sup></b>	Marine Resources Research Institute, SCDNR P.O. Box 12559 Charleston SC 29422-2559
<b>Purpose</b>	To explore and describe habitats and associated fauna of high-relief features of the Charleston Bump
<b>Vessel</b>	R/V Seward Johnson 2, Johnson Sea Link II Submersible
<b>Science Divers</b>	J Loefer (bow), F Andrus (stern)
<b>External Video Tapes</b>	3 mini DVs
<b>Internal Video Tapes</b>	
<b>Digital Still Photos</b>	
<b>Positioning System</b>	dGPS
<b>CTD File</b>	<input checked="" type="checkbox"/>
<b>Specimens Collected</b>	<input checked="" type="checkbox"/>
<b>Other</b>	
<b>Acknowledgements</b>	NOAA-OE
<b>SEADESC Analyst</b>	ML Partyka
<b>Date Compiled</b>	12/19/2006

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

<b>Date</b>	12-Aug-03
<b>Minimum Bottom Depth (m)</b>	564
<b>Maximum Bottom Depth (m)</b>	571
<b>Start Bottom Time (EDT)</b>	16:13
<b>End Bottom End (EDT)</b>	17:42
<b>Starting Latitude (N)</b>	31° 24.066'
<b>Starting Longitude (W)</b>	78° 46.029'
<b>Ending Latitude (N)</b>	31° 23.952'
<b>Ending Longitude (W)</b>	78° 46.157'
<b>Surface Current (Kts)</b>	
<b>Bottom Current (Kts)</b>	

**Image A: Rock Ledge-Fauna**  
31° 23.988' N, 78° 46.146' W



**DIVE NUMBER: JSLII-3417**

**STUDY AREA: Charleston Bump**

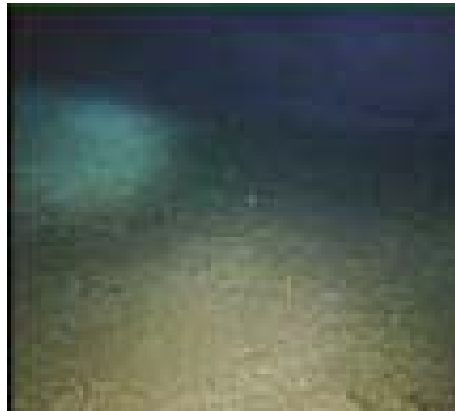
**IMAGE GALLERY**

\* indicates image position is approximated

**Image B: Mixed Habitat**  
31° 24.042' N, 78° 46.074' W

**Image C: Sand/Rubble/Rock-Barren**  
31° 23.970' N, 78° 46.176' W

**Image D: Rock Ledge-Fauna**  
31° 23.940' N, 78° 46.170' W



**RELEVANT WORK AND/OR LITERATURE CITED**

Popenoe and Manheim (2001)  
Sedberry (2001)

**BIOLOGICAL ENVIRONMENT**

There were few fishes observed during the course of this dive. Those recorded included *Squalus cubensis*, *Laemonema melanurum*, *Nezumia sclerorhynchus* and *Chaunax* spp. Mobile invertebrates included multiple shrimp, *Bathynectes longispina*, seastars, and a small snail. The macrofaunal community varied between areas and was often difficult to identify due to poor lighting and focus. However, numerous *Stylaster*, isidids, small colonies of *Lophelia pertusa*, *Enallopsammia*, cup corals, hexactinellids and fanlike sponges were seen in both mixed and rock ledge habitats.

**PHYSICAL ENVIRONMENT**

This dive took place in an area of commercial fisheries for wreckfish, which is characterized by a series of ridges and steep scarps. The dive began over a low sloping mixed habitat region with coarse sediments and scattered sponges and hard corals. The dive progressed up a 20-30° slope into a rock ledge habitat with attached fauna. This rocky habitat was typically low-relief (<1m) and was situated at the base of a larger slope that was explored during dive JSLII-3415.

**ADDITIONAL COMMENTS**

This dive was recorded on 2 mini DVs. The video began during the descent and quickly changed scenes to the bottom with no digital overlay. For the remainder of the dive the overlay was turned on and off. Additionally the video feed frequently cut out and the footage was typically too dark and out of focus for clear habitat descriptions. There was no CTD data recorded for the last 18 minutes of bottom time. Coral, seastar, snail, shrimp, crab, fishes and sediment were collected.