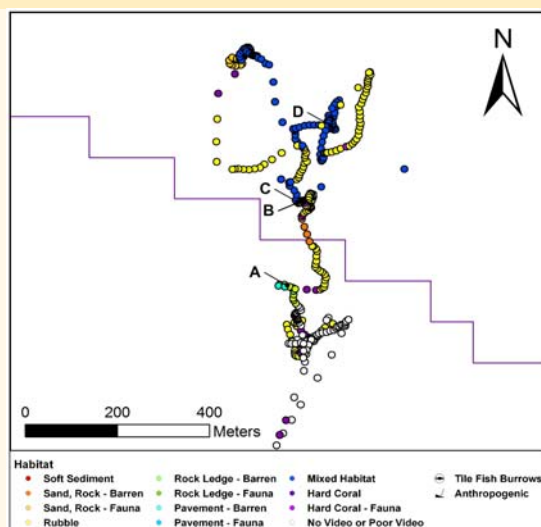


DIVE NUMBER: JSJI-4911**STUDY AREA: St. Augustine****STATION OVERVIEW**

Project	Ocean Exploration 2005
Principal investigators	SD Brooke ¹ J Reed, C Messing
PI Contact Info¹	Oregon Institute of Marine Biology, 63466 Boat Basin Rd., Charleston, OR 97420
Purpose	Exploration of Deep-water Coral Ecosystems off the east coast of Florida
Vessel	R/V Seward Johnson, Johnson Sea Link I Submersible
Science Divers	J Reed (bow), V Paul (stern)
External Video Tapes	External Hard Drive
Internal Video Tapes	2 mini DVs
Digital Still Photos	0
Positioning System	dGPS
CTD File	<input checked="" type="checkbox"/>
Specimens Collected	<input checked="" type="checkbox"/>
Other	
Acknowledgements	NOAA-OE
SEADESC Analyst	M Watts
Date Compiled	8/2/2011
PI Station Number	9-XI-05-1

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

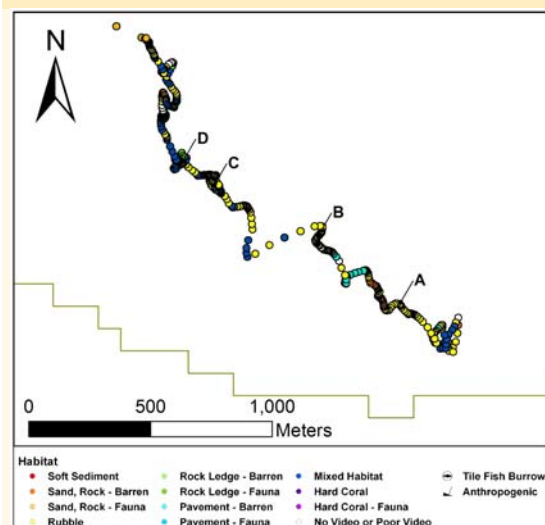
Date	09-Nov-05
Minimum Bottom Depth (m)	742
Maximum Bottom Depth (m)	828
Start Bottom Time (EDT)	8:08
End Bottom End (EDT)	11:08
Starting Latitude (N)	29° 50.922'
Starting Longitude (W)	79° 37.98'
Ending Latitude (N)	29° 51.312'
Ending Longitude (W)	79° 36.912'
Surface Current (Kts)	
Bottom Current (Kts)	0.2

Image A: Rock Ledge - Barren
29° 50.644' N, 79° 37.962' W



DIVE NUMBER: JSLI-4912**STUDY AREA: St. Augustine****STATION OVERVIEW**

Project	Ocean Exploration 2005
Principal investigators	SD Brooke ¹ J Reed, C Messing
PI Contact Info¹	Oregon Institute of Marine Biology, 63466 Boat Basin Rd., Charleston, OR 97420
Purpose	Exploration of Deep-water Coral Ecosystems off the east coast of Florida
Vessel	R/V Seward Johnson, Johnson Sea Link I Submersible
Science Divers	W Schroeder (bow), J Harasewych (stern)
External Video Tapes	External Hard Drive
Internal Video Tapes	3 mini DVs
Digital Still Photos	Yes
Positioning System	dGPS
CTD File	<input checked="" type="checkbox"/>
Specimens Collected	<input checked="" type="checkbox"/>
Other	
Acknowledgements	NOAA-OE
SEADESC Analyst	M Watts
Date Compiled	8/2/2011
PI Station Number	9-XI-05-2

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

Date	09-Nov-05
Minimum Bottom Depth (m)	746
Maximum Bottom Depth (m)	871
Start Bottom Time (EDT)	16:15
End Bottom End (EDT)	19:47
Starting Latitude (N)	29° 50.550'
Starting Longitude (W)	79° 37.014'
Ending Latitude (N)	29° 51.486'
Ending Longitude (W)	79° 37.992'
Surface Current (Kts)	
Bottom Current (Kts)	0

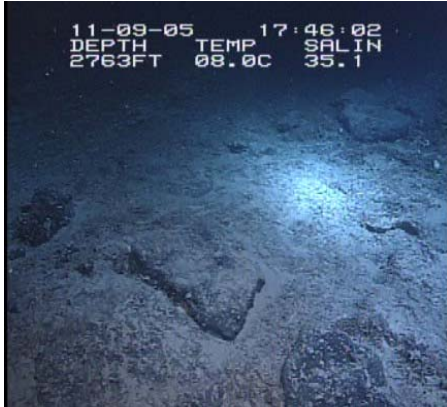
Image A: Rubble

29° 50.653' N, 79° 37.130' W



DIVE NUMBER: JSLI-4912**STUDY AREA: St. Augustine****IMAGE GALLERY**

* indicates image position is approximated

Image B: Rock Ledge - Barren
29° 50.804' N, 79° 37.323' W**Image C: Mixed Habitat**
29° 50.911' N, 79° 37.546' W**Image D: Rock Ledge - with Attached Fauna**
29° 50.969' N, 79° 37.618' 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)
Reed (2002)
Reed and Ross (2005)
Reed et al. (2006)

BIOLOGICAL ENVIRONMENT

The southeast transect leading up to and around the south and east sides of the lithoherm was covered in low relief *Lophelia pertusa* rubble sometimes over rock pavement and phosphoretic rock slabs. Attached fauna was primarily mixed including abundant stalked hexactinellid and large fan demospongia sponges, as well as occasional small gorgonians, bamboo and black corals (*Leioopathes* sp.) and small colonies of hydrozoan corals (Stylasteriae). Mobile fauna consisted primarily of urchins and eels with a rare golden crab, rattail fish, and gadoid, *Laemonema melanurum*. There was no hard coral habitat of moderate to high relief and no live *L. pertusa* were evident.

PHYSICAL ENVIRONMENT

The habitat to the southeast of the lithoherm was primarily coral rubble with interspersed soft sediment or mixed habitat. At the southern base of the feature black grapefruit-sized rubble of phosphate rock covered hard, pocked rock pavement. Phosphoretic rock slabs and ledges with and without fauna and occasional carbonate rocks were apparent at the south and east sides of the lithoherm mound with occasional areas of barren rock pavement below the predominant coral rubble. The mound consisted of terraced steps with gradual inclines leading to flat plateaus with a mix of rubble and mixed fauna habitat of sponges and sparse soft and ~99% dead hard coral cover. On the east side of the mound there was an area covered with a substantial accumulation of deep coral rubble. This site also had an abundance of trash.

ADDITIONAL COMMENTS

Original dives are on mini DVs transferred to digital on a mini DV reader and stored on an external hard. Video quality was clear with only brief sections of unusable footage. However, the camera was typically zoomed out far enough that differences in rubble versus pocked rock pavement were difficult to discern as well as the identification of small white hard corals and sponges. Collections were taken of *L. pertusa* rubble, black coral, bamboo coral, sponge, a small gorgonian and a piece of the hard phosphate rock.