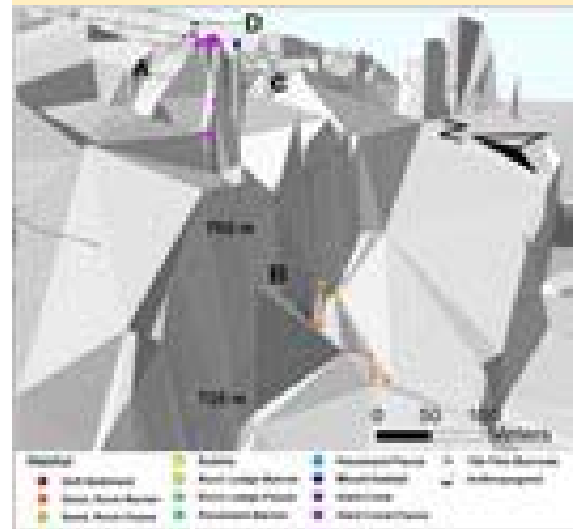


DIVE NUMBER: JSLI-4705**STUDY AREA: Cape Canaveral South****STATION OVERVIEW**

| | |
|------------------------------------|---|
| Project | Life on the Edge 2004 |
| Principal investigators | SW Ross ¹ KJ Sulak, MS Nizinski, E Baird |
| 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 educational outreach |
| Vessel | R/V Seward Johnson, Johnson Sea Link I Submersible |
| Science Divers | SW Ross (bow), M Nizinski (stern) |
| External Video Tapes | 2 mini DVs, 2 HDs |
| 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 | Hard copy of stern audio log |
| Acknowledgements | NOAA-OE, NOAA Fisheries, USGS, UNCW, NC Museum of Natural Sciences |
| SEADESC Analyst | AM Quattrini, ML Partyka |
| Date Compiled | 11/16/2006 |

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

| | |
|---------------------------------|-------------|
| Date | 21-Jun-04 |
| Minimum Bottom Depth (m) | 679 |
| Maximum Bottom Depth (m) | 725 |
| Start Bottom Time (EDT) | 17:18 |
| End Bottom End (EDT) | 19:08 |
| Starting Latitude (N) | 28° 02.159' |
| Starting Longitude (W) | 79° 36.837' |
| Ending Latitude (N) | 28° 02.377' |
| Ending Longitude (W) | 79° 36.784' |
| Surface Current (Kts) | |
| Bottom Current (Kts) | 1.1 |

Image A: Hard Coral
28° 02.388' N, 79° 36.774' W



DIVE NUMBER: JSLI-4705**STUDY AREA: Cape Canaveral South****IMAGE GALLERY**

* indicates image position is approximated

Image B: Sand/Rubble/Rock-Barren

28° 02.232' N, 79° 36.822' W

**Image C: Hard Coral-Fauna**

28° 02.334' N, 79° 36.774' W *

**Image D: Hard Coral**

28° 02.376' N, 79° 36.786' 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

Several fish and invertebrate species were observed during this dive. Only *Fenestraja plutonia* was observed off reef. *Synaphobranchus* spp., *Laemonema melanurum*, and scorpaenids were observed in rubble and hard coral habitats. One *Chaceon* sp., a few pencil urchins, and several small galatheidids were observed throughout the dive. Sessile invertebrates included a diversity of sponges, alcyonaceans, *Lophelia pertusa*, antipatharians, hydroids, and isidids.

PHYSICAL ENVIRONMENT

This area consisted of a series of valleys and ridges with patches of coral rubble, hard corals (*Lophelia pertusa*), and sand mixed with coral rubble. The faces of the ridges were covered with coral rubble with attached fauna. Tops of ridges were dominated by hard corals with varying degrees of live *L. pertusa* (10-40%) and attached fauna, relief <2 m. Associated attached fauna included large white sponges, few large antipatharians, alcyonaceans, isidids, hydroids, and hexactinellid sponges. Substrate in the valleys was mostly sand with small amounts of coral rubble and no attached fauna.

ADDITIONAL COMMENTS

This dive was captured on 2 mini DVs and saved to 2 DVDs for archiving. There was a large amount of marine snow, which made habitat classification difficult in the beginning of the dive. Garbage was also observed on the bottom.