
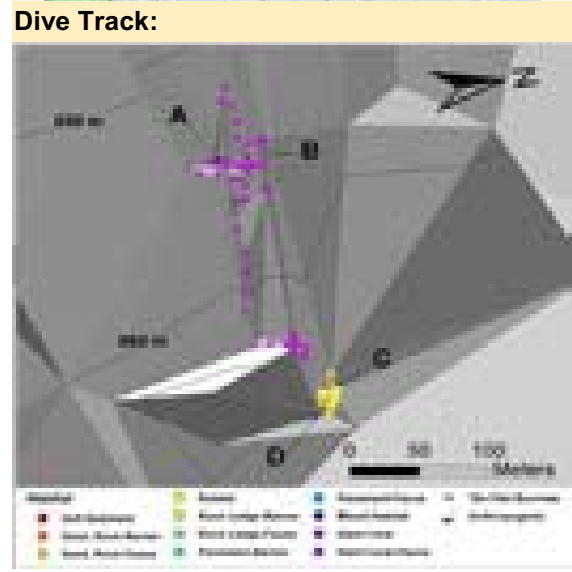



DIVE NUMBER: JSLI-4701**STUDY AREA: Jacksonville**

| STATION OVERVIEW | | GENERAL LOCATION |
|------------------------------------|---|---|
| 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 | J Potter (stern) | |
| External Video Tapes | 2 mini DVs, 2 HDs | |
| Internal Video Tapes | 0 | |
| Digital Still Photos | 10 | |
| Positioning System | dGPS | |
| CTD File | <input checked="" type="checkbox"/> | |
| Specimens Collected | <input checked="" type="checkbox"/> | |
| Other | Training dive, hard copy stern audio log | |
| Acknowledgements | NOAA-OE, NOAA Fisheries, USGS, UNCW, NC Museum of Natural Sciences | |
| SEADESC Analyst | AM Necaise, ML Partyka | |
| Date Compiled | 11/16/2006 | |



| DIVE DATA | | Image A: Hard Coral-Fauna 30° 28.944' N, 79° 38.496' W * |
|---------------------------------|-------------|--|
| Date | 19-Jun-04 |  |
| Minimum Bottom Depth (m) | 645 | |
| Maximum Bottom Depth (m) | 674 | |
| Start Bottom Time (EDT) | 17:04 | |
| End Bottom End (EDT) | 18:43 | |
| Starting Latitude (N) | 30° 28.944' | |
| Starting Longitude (W) | 79° 38.500' | |
| Ending Latitude (N) | 30° 28.933' | |
| Ending Longitude (W) | 79° 38.379' | |
| Surface Current (Kts) | | |
| Bottom Current (Kts) | | |

Excerpt from: Southeastern United States Deep-Sea Corals (SEADESC) Initiative: A Collaborative Effort to Characterize Areas of Habitat-Forming Deep-Sea Corals (Partyka et al., 2007)

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IMAGE GALLERY

* indicates image position is approximated

Image B: Hard Coral-Fauna
30° 28.962' N, 79° 38.496' W



Image C: Rubble
30° 28.938' N, 79° 38.400' W



Image D: Rubble
30° 28.914' N, 79° 38.394' W



RELEVANT WORK AND/OR LITERATURE CITED

Ayers and Pilkey (1981) Ross and Nizinski (in press)
EEZ-SCAN 87 Scientific Staff (1991) Williams et al. (in press)
Paull et al. (2000)
Reed (2002)
Reed and Ross (2005)
Williams et al. (2006)
Reed et al. (2006)

BIOLOGICAL ENVIRONMENT

Few species of fishes were observed during this dive, and were represented by very few individuals. The most common species was *Nezumia sclerorhynchus*. Other species included single individuals of *Dactylobatus armatus* (Image C), *Synphobranchus* spp., and *Laemonema melanurum*. Mobile invertebrates included *Eumunida picta*, *Chaceon* spp., *Bathynectes longispina*, brittle stars, spiny and pencil urchins. The dominant coral in the area was *Lophelia pertusa*, though small isidids and *Madrepora* were also observed. Other sessile invertebrates included hexactinellid sponges, large venus flytrap anemones, hydroids and solitary cup corals.

PHYSICAL ENVIRONMENT

This dive took place over a relatively steep, 50-60°, slope. Two major habitat categories were observed, rubble and hard coral. The areas of hard coral habitat could be further differentiated into areas with attached fauna and areas without attached fauna. The areas of hard coral without attached fauna tended to have a lower abundance of live *L. pertusa* (<25%) and a higher occurrence of large pieces of cemented coral rubble. The areas that contained a large percentage of live *L. pertusa* were of high relief (>1m) and tended to have numerous attached fauna, including anemones, hydroids, sponges, and small isidids. The rubble habitat, with few attached fauna, was primarily restricted to the base of the slope.

ADDITIONAL COMMENTS

This dive was recorded on 2 mini DVs and saved to 2 DVDs for archiving. There was no time overlay during this dive. At times there was some video feed interference. A large number of collections took place during the dive so the sub was stationary most of the time.