

# Activity Summary

CrsID

LifeEdge2004

CrsProjID

PRJ0019

## Jacksonville Lithothems

6/10/2004

*Life on the Edge II: Exploring Deep Ocean Habitats*

### Overview of Human Occupied Vehicle Dive JSLI\_4683 (LifeEdge2004\_ACT0026) at Jacksonville

#### Activity Vitals

Dates/Times/Depth	Bndg Coordinates	System(s)
<b>Start</b> 6/10/2004 8:03:00	<b>North</b> 30.5175	Johnson-Sea-Link I HD Video Camera
<b>End</b> 6/10/2004 11:25:00	<b>South</b> 30.5044	
<b>Time zone</b> EDT <b>UTC</b> -04	<b>East</b> -79.6603	<b>Data Collected</b>
<b>MaxDepth (m):</b> -580.3	<b>West</b> -79.6671	Samples Multimedia Data

#### Participants

Kenneth J. Sulak, Forward Observer  
Liz Baird, Aft Observer  
Patrick Jorgenson, Aft Technician

#### Overall Dive Site Ratings

1 = low; 10 = high	
Uniqueness	<b>6</b>
Health	<b>8</b>
Disturbance	<b>1</b>
Biodiversity	<b>10</b>
Relief Variation (meters):	<b>10</b>

#### Objectives

1) Collect and image megafauna invertebrates, 2) Collect sediment samples, 3) Obtain coral samples for aging and genetics, 4) Conduct faunal transects

#### Dive Track Description

Bottomed on broad flat top of a ridge crest. Top of crest undulating with almost 100% cover - dead Lophelia and Emamellopammia, sponges, Black Corals, anemones. Steady 0.6-0.7 knot current out of 240 degrees determined the track of the bottom traverse: across this crest, down into a swale, 10m deeper, up the next crest, and so on. Each ridge crest was similar with thick diversity invertebrate cover. Flanks and swale vallies were mostly barren open sediment. Fishes and mobile megafauna invertebrates were sparse within the sessile epifaunal community, rare to absent on open flanks and swales.

#### Living Habitat Structure

Type	% Cover
Sponges	25
Stony Corals	15
Octocorals	15
Bryozoans	15

#### Sediments

Type	% Cover
Medium Sand (.25mm -	80

#### Geomorphology

Type	% Cover
ridges	20
sand	80

#### Anthropogenics

Type/Description  
Nothing recorded.

#### Living Marine Resources Abundance

None (0) Single (1) Few (2-10) Many (11-100) Abundant (>100)

Pelagic Fish	None	Other Benthic
Bottom Fish	Few	Nothing recorded.
Crustacean	Many	
Mollusk	None	
Echinoderm	Many	

#### Observations and Comments on Living Marine Resources:

No other comments.

#### Unique or Rare Invertebrates

Many types of deep-water sponges; new species of squat lobster living on bamboo coral

#### Unique or Rare Vertebrates

Large red scorpion fish; 10-12 ft. long carcharitinid shark

#### Fish Observation and Abundance

None (0) Single (1) Few (2-10) Many (11-100) Abundant (>100)

rat tails-many, coral hake-few, rubble hake-single, concor eel-single, large shark-single, red scorpion fish-single

#### Other Comments/Notes

NOAA Office of Ocean Exploration



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