Activity Summary

CrsID **OpDeepScope2005**

CrsProjID **OE_2005_044**

Lophilia lithoherms
8/22/2005
Operation Deep Scope 2005: Characterization of Benthic and Pelagic Ecosystems Using New Technologies

Overview of Human Occupied Vehicle Dive ods_05_4849 (OpDeepScope2005_ACT0007) at Lophilia

Activity Vitals

Dates/Times/Depth

Start 8/22/2005 15:50:00

End 8/22/2005 19:28:00

Time zone EDT **UTC** -04

MaxDepth (m): -553.5

Bndg Coordinates

North 26.3334

South 26.3334

East -84.7664

West -84.7664

System(s)

Johnson-Sea-Link I
BioBox

Data Collected

Samples
Multimedia
Data

Participants

Mikhail V Matz, Forward Observer
Karen Konzen, Aft Observer
Hugo Marrero, Pilot
Frank Lombardo, Aft Technician

Overall Dive Site Ratings

1 = low; 10 = high

Uniqueness	**6**
Health	
Disturbance	**3**
Biodiversity	**6**
Relief Variation (meters):	**1.5**

Objectives

Dive 4849 - Deploy eye-in-the-sea. Exchange traps. Collect fluorescent specimens.

Dive Track Description

Monitored the jellyfish on the eye-in-the-sea during the descent. Moved from flat silty bottom to group of rocks to search for the pinger to exchange traps and site of deployment of eye-in-the-sea. Eye-in-the-sea deployed at 16:50 at a depth of 1825 ft. Traps were exchanged from 17:10 to 17:33. Most crabs were too large to fit through the trap opening, but one still defended the opening from a large hagfish.

Switched to blue lights. Moved the arc light so that it pointed aft. Searched rocks in immediate area near pinger location. Filmed a green fluorescent shark on bottom not near any rocks. Swam away before could attempt collection. On rock found zooanthid with bright green fluorescent polyps. Collected two specimens in buckets 1 and 2. Moved over sandy bottom and collected a cup coral in bucket 3. Continued to a nearby rock grouping and collected a rock with orange fluorescent sponge in bucket 4. Over sandy bottom again collected a wire coral showing some possible reddish fluorescence in bucket 5. On small grouping of rocks found green fluorescent batfish which was collected in bucket 6. All organisms found with blue light, then collected with the aid of regular lighting.

Living Habitat Structure

Type	% Cover
Sponges	
Octocorals	
Bryozoans	
Dead Coral w/ encrusting	

Sediments

Type	% Cover
Rock, Continuous Strata	
Mix of Sand & Silt	

Geomorphology

Type	% Cover
rock rubble	20
sand	80

Anthropogenics

Type/Description
Active Gear

Living Marine Resources Abundance

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

Pelagic Fish	Few
Bottom Fish	Few
Crustacean	Many
Mollusk	None
Echinoderm	Few

Other Benthic few

Nothing recorded.

Observations and Comments on Living Marine Resources:

No other comments.

Unique or Rare Invertebrates	Unique or Rare Vertebrates
zooanthid w/green fluorescent polyps	green fluorescent shark and batfish

Fish Observation and Abundance

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

Nothing recorded.

Other Comments/Notes