Activity Summary

Cruise **biolum2009**

Project **Bioluminescence 2009**

Little Bahama Bank Lithoherm

2009/07/21 17:45:00 EDT - 2009/07/21 21:00:00 EDT

Bioluminescence in the Deep-Sea Benthos

JSL2-3682

Activity Vitals

Dates/Times/Depth		Bndg Coordinates		System(s)
Start	2009/07/21 17:45:00	**North**	27.5	Johnson Sea Link II
End	2009/07/21 21:00:00	**South**	24	
Time zone	EDT	**East**	-79.0	**Data Collected**
MaxDepth (m)	2015	**West**	-79.5	No data collected.
Operating Depth Range (m)	1800-2015			

Participants

Sonke Johnsen, Forward Observer
Jamie Baldwin, Aft Observer
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,

Overall Dive Site Ratings

1=low, 10=high

Uniqueness	No rating
Health	No rating
Disturbance	No rating
Biodiversity	No rating
Relief Variation (m)	

Objectives

Check on Eye in the Sea camera system.

Place traps and bait bags in the EITS vicinity.

Collect bioluminescent specimens.

do flashback experiments from sub

take in situ images of bioluminescence with lights off

Dive Track Description

First we dropped into a plain and used the pinger signal to find the EITS camera. We found the camera at the bottom of a slope, but it was knocked onto its side. We righted the camera, deployed Tammy's bait bag and trap, and then watched several small sharks tear the bait bag apart. Then we moved up-slope to a crest covered with large golden zoantharians (Gerardia sp.). We stopped next to two small collections of coral and sponges, tunred out the lights and looked for bioluminescence. We also flashed lights and noted that animals flashed back in response. Then we collected the specimens. Later we found a broken stalk of zoantharian and held it against the sub and took pictures in the dark of the BL. Then we drove along the ridge of the crest and surfaced.

Biological Comments

see above

Geological Comments

No geological comment recorded.

Living Habitat Structure

Type	% Cover
Nothing recorded	

Sediments

Type	% Cover
Nothing recorded	

Geomorphology

Type	% Cover
Nothing recorded	

Anthropogenics

Type/Description
Nothing recorded

Living Marine Resources Abundance

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

Nothing recorded

Observations and Comments on Living Marine Resources

No other comments.

Unique or Rare Invertebrates

Nothing recorded.

Unique or Rare Vertebrates

Nothing recorded.

Fish Observation and Abundance

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

Nothing recorded

Other Comments/Notes

No additional comments.