

# Activity Summary

Cruise **biolum2009**

Project **Bioluminescence 2009**

2009/07/25 17:00:00 EDT - 2009/07/25 20:30:00 EDT

Bioluminescence in the Deep-Sea Benthos

**JSL2-3690**

## Activity Vitals

Dates/Times/Depth	Bndg	Coordinates	System(s)
<b>Start</b> 2009/07/25 17:00:00	<b>North</b>	26 24.5 N	Johnson Sea Link II
<b>End</b> 2009/07/25 20:30:00	<b>South</b>	26 24.5 N	
<b>Time zone</b> EDT	<b>East</b>	77 48.4 W	<b>Data Collected</b>
<b>MaxDepth (m)</b> 2272	<b>West</b>	77 48.4 W	Multimedia
<b>Operating Depth Range (m)</b> 2000-2272			

## Participants

Sonke Johnsen, Forward Observer  
Jamie Baldwin, Aft Observer  
,  
,

## Overall Dive Site Ratings

*1=low, 10=high*

<b>Uniqueness</b>	No rating
<b>Health</b>	No rating
<b>Disturbance</b>	No rating
<b>Biodiversity</b>	No rating
<b>Relief Variation (m)</b>	

## Objectives

Deploy and collect traps. Collect specimens. Observe and photograph bioluminescence.

## Dive Track Description

dropped to bottom and then searched for "crab dinner" site. After about 30 minutes, we couldn't find it, so we set up a crab trap at the base of a five foot ledge. At this time we also saw a six gill and a large fish (maybe a wreckfish) swimming near the sub. We then moved north away from the crab trap along a mild ridge. The floor was quite barren, typical of abyssal plain, but there were always a few animals in sight, mostly small corals, urchins, sea cucumbers, crinoids, anemones, and brittle stars. As the dive progressed, the landscape was mostly fine sediment with half-buried urchins moving around. Lots of odd burrows, holes, and curvy trails. A highlight was a bioluminescent sea pen relative that looked like a 2 foot long bottle brush. When collected, the polyps pulled in. Another highlight was a swimming sea cucumber of the same species that we saw on the previous dives (greyish blue and very mushy). We didn't collect him, but got very nice footage of him swimming. We went back to the crab trap site and noticed that the trap had been moved 15 feet laterally and 5 feet vertically (now at the top of the ridge). We assumed that the six gill had moved it. The trap had a shrimp and crab next to it, but nothing inside. We then surfaced in the dark and looked at the bioluminescence. Tried to photograph it without success.

## 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.

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