

# Activity Summary

CrsID OpDeepScope2005

CrsProjID OE\_2005\_044

## Lophilia lithoherms

8/22/2005

Operation Deep Scope 2005: Characterization of Benthic and Pelagic Ecosvstems Usina New Technoloaies

### Overview of Scuba Diving Dive BW2 (OpDeepScope2005\_ACT0006) at Lophilia lithoherms

Activity Vitals			Participants		Overall Dive Site Ratings
<b>Dates/Times/Depth</b>	<b>Bndg Coordinates</b>	<b>System(s)</b>	Sonke Johnsen, Scuba Diver		<i>1 = low; 10 = high</i>
<b>Start</b> 8/22/2005 12:18:00	<b>North</b> 26.3370	Scuba (Air)	Dan Speiser, Scuba Diver		Uniqueness
<b>End</b> 8/22/2005 13:17:00	<b>South</b> 26.3370	Digital Video Camera	Hugo Marrero, Scuba Diver		Health
<b>Time zone</b> EDT <b>UTC</b> -04	<b>East</b> -84.7634	<b>Data Collected</b>	Frank Lombardo, Documentary Film Crew		Disturbance
<b>MaxDepth (m):</b> -9.1	<b>West</b> -84.7634	Samples Multimedia	Jon Cohen, Post-Doctoral Student		Biodiversity
					Relief Variation (meters):

### Objectives

This was a blue water dive. This involves diving on a tether system. There is a main drop line of 100 feet. A ring is attached to this and four tethers are attached to the ring (which is called a trapeze). One person works as a safety diver, keeping the lines untangled and looking for sharks. The rest have different roles. Justin Marshall and I did filming with a special camera. This camera flips back and forth between two polarization states, so that we can see what animals with polarization vision may be able to see. The camera can also be fitted with a filter that only lets through UV light, so we can see what animals with UV vision can see. Actually getting good footage involves first catching some animals and then transferring them to a filming tank underwater. This keeps them in place. We then film them in the different ways described above.

### Dive Track Description

No description provided.

Living Habitat Structure		Sediments		Geomorphology		Anthropogenics
Type	% Cover	Type	% Cover	Type	% Cover	Type/Description
Nothing recorded.		Nothing recorded.		Nothing recorded.		Nothing recorded.

### Living Marine Resources Abundance

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

Living Marine Resources Abundance		Observations and Comments on Living Marine Resources:	
<b>Pelagic Fish</b>	<b>Other Benthic</b>	No other comments.	
<b>Bottom Fish</b>	Nothing recorded.	<b>Unique or Rare Invertebrates</b>	<b>Unique or Rare Vertebrates</b>
<b>Crustacean</b>		Nothing recorded.	Nothing recorded.
<b>Mollusk</b>			
<b>Echinoderm</b>			

### Fish Observation and Abundance

*None (0) Single (1) Few (2-10) Many (11-100) Abundant (>100)*  
Nothing recorded.

### Other Comments/Notes