

Activity Summary

CrsID OpDeepScope2005

CrsProjID OE_2005_044

Vioska Knoll

9/1/2005

Operation Deep Scope 2005: Characterization of Benthic and Pelagic Ecosystems Using New Technologies

Overview of Human Occupied Vehicle Dive ods_05_4854 (OpDeepScope2005_ACT0019) at Vioska Knoll

Activity Vitals			Participants		Overall Dive Site Ratings	
Dates/Times/Depth	Bndg Coordinates	System(s)	Mikhail V Matz, Forward Observer		1 = low; 10 = high	
Start 9/1/2005 17:56:00	North 29.1550	Johnson-Sea-Link I	Karen Konzen, Aft Observer		Uniqueness	5
End 9/1/2005 20:16:00	South 29.1550	Eye in the Sea Camera	Tim Askew, Jr., Pilot		Health	5
Time zone CDT UTC -05	East -88.0131	Data Collected	Jim Nelson, Aft Technician		Disturbance	8
MaxDepth (m): -522.4	West -88.0131	Samples			Biodiversity	7
		Multimedia			Relief Variation (meters):	1
		Data				

Objectives

Dive 4854 - To deploy Eye-in-the-Sea; exchange crab traps; film and collect fluorescent organisms.

Dive Track Description

Poor visibility to about 900 ft. From 900-1300 ft numerous small fish and some squid. At 1544 ft. again poor visibility until near the bottom. At the bottom all was silty sand with several slopes. Followed trench to site near pinger to deploy camera and exchange traps. Yellow filter for camera was lost latching magnets, so was only used in order to film. Attempted collection of 8 samples. Tube anemone (green fluorescent) could not be collected. Did collect orange zooanthid and anemone that is white and pink in white light, but may have red fluorescence after inspection on deck.

Living Habitat Structure		Sediments		Geomorphology		Anthropogenics	
Type	% Cover	Type	% Cover	Type	% Cover	Type/Description	
Nothing recorded.		Coarse Sand (.5mm -	50	mounds	99	Trawl Tracks or	
		Silt (.004mm - .06mm)	50	trench	1	Active Gear	
						Oil & Gas	

Living Marine Resources Abundance

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

Pelagic Fish	Abundant	Other Benthic	many
Bottom Fish	Many	zooanthids	
Crustacean	Few	anemones	
Mollusk	Many		
Echinoderm	Few		

Observations and Comments on Living Marine Resources:

Strikingly abundant bioluminescence on ascent. It was at night with only the sub strobe on.

Unique or Rare Invertebrates	Unique or Rare Vertebrates
orange fluorescent zooanthid	Nothing recorded.

Fish Observation and Abundance

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

Nothing recorded.

Other Comments/Notes

NOAA Office of Ocean Exploration



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