

Activity Summary

CrsID DavidsonSeamount2006

CrsProjID OE_2005_048

T945**1/30/2006****Deep Water Corals of the Davidson Seamount: Habitat Suitability, Taxonomv. Age and Growth**

Overview of Remotely Operated Vehicle Dive T945 (DavidsonSeamount2006_ACT0015) at T945

Activity Vitals			Participants		Overall Dive Site Ratings
Dates/Times/Depth	Bndg Coordinates	System(s)	Andrew DeVogelaere, Chief Scientist		<i>1 = low; 10 = high</i>
Start 1/30/2006 14:50:00	North 35.8350	Tiburon	James Barry, Co-Principal Investigator		Uniqueness
End 1/31/2006 3:00:00	South 35.8208	HD Video Camera	Chad King, Navigator		Health
Time zone UTC UTC 00	East -122.6088	Data Collected	Erica J Burton, Scientist		Disturbance
MaxDepth (m): -2850.0	West -122.6206	Samples	Huff McGonigal, Esq., Scientist		Biodiversity
		Multimedia	Lonny Lundsten, Scientist		Relief Variation (meters):
		Data	Allen Andrews, Scientist		

Objectives

1. Visit a site much deeper than previous sites on this cruise.
2. Run quantitative transects over soft sediment and ridges
3. Opportunistically collect corals, animals, and rocks
4. Niskin water samples

Dive Track Description

Day 5 T945
Davidson Seamount Expedition Log: Day 5

NOAA/MBARI Objectives: Biology transects, measure currents, water samples for organic matter, and biology collections in the deep north east "Red Crescent."

We started the day in a deep valley on the north-east end of Davidson Seamount, at a water depth of 2800 meters. Swift currents, even at this depth, seem to bring nutrients to a surprisingly diverse coral and sponge-dominated assemblage. Upon touching down we saw a variety of invertebrates that we immediately began sampling. We found several large enteropneusts (a hemichordate), a large sabellid worm, several Lepidisis bamboo corals, a stalked sponge, and many small gastropod snails. Nearby, we found sediment as we had expected and then push-cored the gravelly substratum along with an unusual pink sea cucumber. We continued across the valley floor and then began ascending a steep talus slope where we encountered several beautiful species of black corals, unusual sponges, Chrysogorgiid corals, and a multitude of yellow stalked sea lilies, reminiscent of the Truffela Trees from Dr. Suess' Lorax. Moving along, the cable above ROV Tiburon encountered currents which were so forceful that it had difficulty heading to our next target. After several hours of slow progress towards the cone at 2300 meters, we finally reached the summit where we encountered currents of such high velocity that we were able to touch down only long enough to measure current speed and grab a rock for MBARI's Volcanology lab. The terrain at the summit consisted of pillow lavas and talus. The biota consisted mainly of the crinoid Florometra, lithodid crabs, and sea cucumbers. We were surprised by the lack of corals at the summit of this cone, as we had expected to find a lush coral garden as has been the case on other, shallower summits.

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)

Pelagic Fish	Other Benthic
Bottom Fish	Nothing recorded.
Crustacean	
Mollusk	
Echinoderm	

Observations and Comments on Living Marine Resources:

No other comments.

Unique or Rare Invertebrates	Unique or Rare Vertebrates
Nothing recorded.	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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