

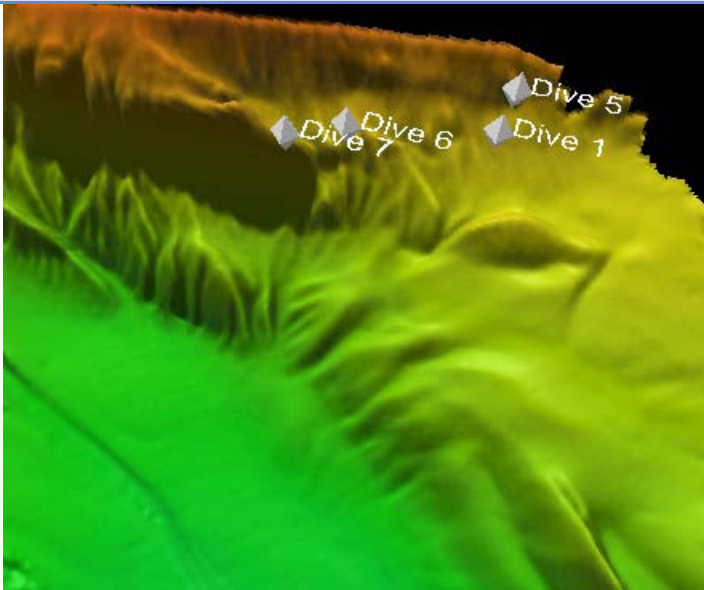
OKEANOS EXPLORER ROV DIVE FORM

Site Name	TestSite							
ROV Lead	Dave Lovalvo							
General Area Descriptor	6 km South of Santa Cruz Island, Channel Islands, CA							
UTC Date & Time	Deployment	4/25/2011 18:24h						
	Recovery	4/25/2011 23:24h						
Bottom Time [HH:MM]	3:19							
Landing Time & Location	UTC Time	19:14		Depth [m]	745			
	Latitude	33	0	56.139		'	N	
	Longitude	119	0	35.489		'	W	
Off Bottom Time & Location	UTC Time	22:37		Depth [m]	~745			
	Latitude	33	0	~56.139		'	N	
	Longitude	119	0	~35.489		'	W	
ROV Dive Name	Cruise Season	EX1102		Leg	-			
	Dive Number	ROV05						
Equipment Deployed	ROV:	Little Hercules						
	Camera Platform:	Seirios						
ROV Measurements	☒ CTD	☒ Depth		☒ Altitude				
	☒ Scanning Sonar	☒ USBL Position		☒ Heading				
	☒ Pitch	☒ Roll		☒ HD Camera				
	☒ Low Res Cam 1	☒ Low Res Cam 2						
Equipment Malfunctions	None							
Special Notes	Click here to enter text.							
Scientists Involved (please provide name / location / affiliation / email)	Dr. Steve Katz, EX, CINMS, Steve.Katz@noaa.gov							
Purpose of the Dive: ROV Shakedown – this was an engineering dive.								

Description of the Dive:

This dive was one of the deeper dives on the South Santa Cruz Island escarpment at ca. 750m. The habitat was dominated by soft sediment with occasional small to medium sized rock outcrops. As with other sites, the rock outcrops showed almost complete colonization by benthic invertebrates. In particular, this dive provided numerous images of deep water rock scallops which quite common. Also common were medium sized pitcher sponges, most of which housed associated animals—crabs mostly and one with a hagfish. This dive was also noteworthy for the diversity of deep water sponges that were on the rock outcrops. There were several sponges that have still not been identified, but there were specimens from at least three different Orders: Poecilosclerida, Hexactinosida and Lyssachinosida. This dive also provided some great opportunities to observe pom-pom anemones (*Liponema brevicornis*).

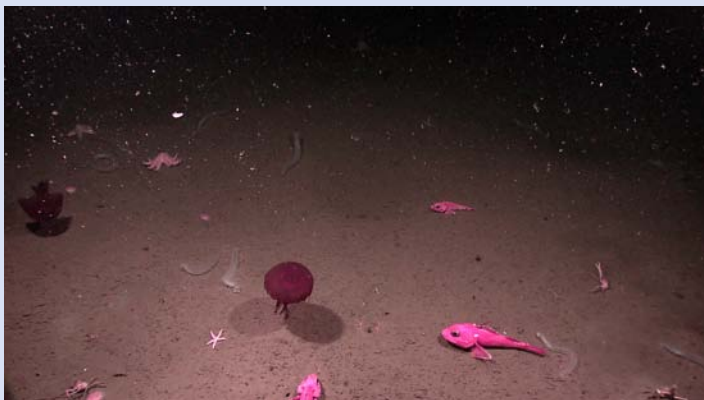
Overall Map of ROV Dive Area



Close-up Map of Main Dive Site



Representative Photos of the Dive



EX1102_IMG_20110425T203141Z_ROVVD_JELLYFISH_and_FISH
The diversity on the soft sediment. Noteworthy as an example of the consistent observation of harvested fish out on the soft sediment, rather than in association with corals or sponges.



EX1102_IMG_20110425T223924Z_ROVHD_FLOUNDER_FLYOVE
Small rock with anemone (*Liponema brevicornis*) and sea pen with associated brittle star, demonstrating the premium on space.

Please direct inquiries to:

NOAA Office of Ocean Exploration & Research
1315 East-West Highway (SSMC3 10th Floor)
Silver Spring, MD 20910
(301) 734-1014