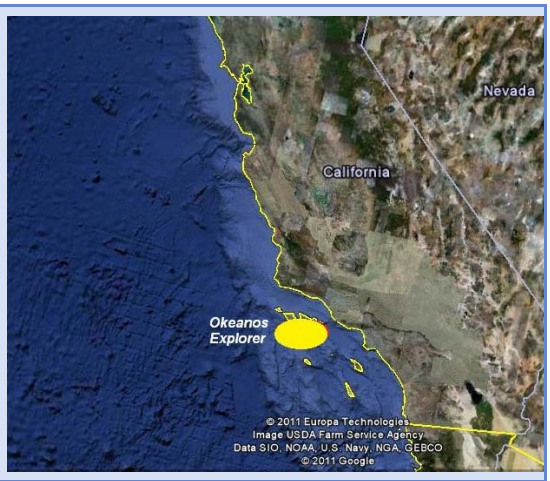
OKEANOS EXPLORER ROV DIVE FORM

Site Name	TestSite							
ROV Lead	Dave Lovalvo							
General Area Descriptor	9 km South of Santa Cruz Island, Channel Islands, CA							
UTC Date & Time	Deployment	4/27/2011 14:48h						
	Recovery	4/27/2011 20:40h						
Bottom Time [HH:MM]	3:46							
Landing Time & Location	UTC Time	15:47			Depth [m]	1014		
	Latitude	33	º	54.026	'	N		
	Longitude	119	º	38.954	'	w		
Off Bottom Time & Location	UTC Time	19:33			Depth [m]	910		
	Latitude	33	º	54.137	'	N		
	Longitude	119	º	38.967	'	w		
ROV Dive Name	Cruise Season	Leg	Dive Number					
	EX1102	-	ROV07					
Equipment Deployed	ROV:	Little Hercules						
	Camera Platfom:	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							



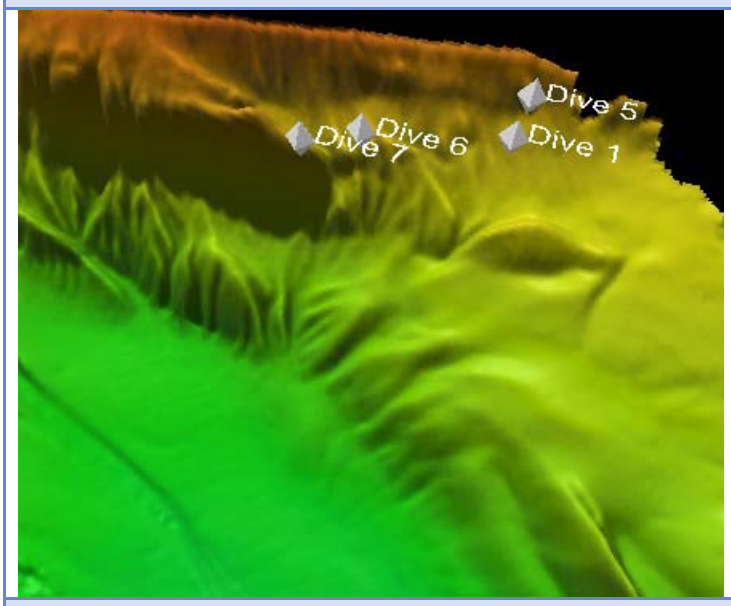
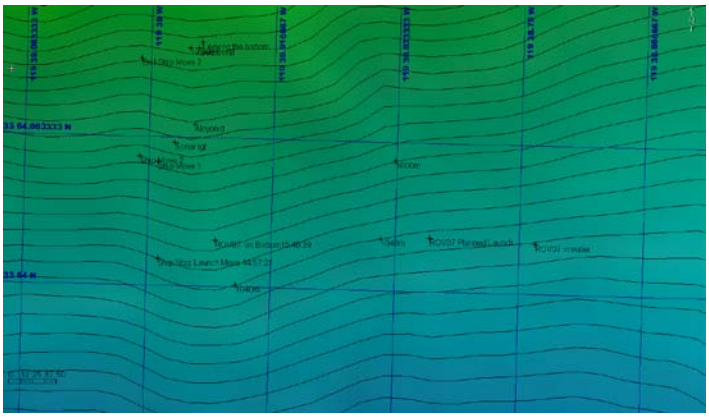
Purpose of the Dive: ROV Shakedown – this was an engineering dive.

Description of the Dive:

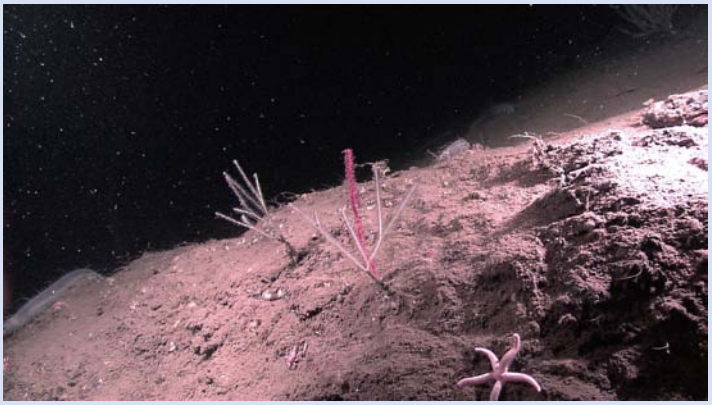
This was the last dive of the leg and occurred on a moderate gradient slope on the escarpment south of Santa Cruz Island. The entire dive was relatively deep for this area at approximately 900-1000m deep. This is in a similar location to the previous dive and the bottom conditions, and animals encountered are also similar. As mentioned previously, these islands are an area of high productivity in the shallow water, and consequently high sediment input rates to the deeper habitats down slope.

Approximately four and a half hours into the dive, the ROV arrived a small rock reef with a very large (~2m across) goiter sponge (*Heterochone calyx*) with a large King Crab in its spongocoel and numerous Pandalid shrimps housed in the surface of the sponge. While impressive on its own, the reef was particularly productive with numerous other sponges, tunicates, anemones, scallops, soft corals, bryozoans, hydroids and even a dorid nudibranch. The reef demonstrated productivity similar to near-by reefs in the photic zone.

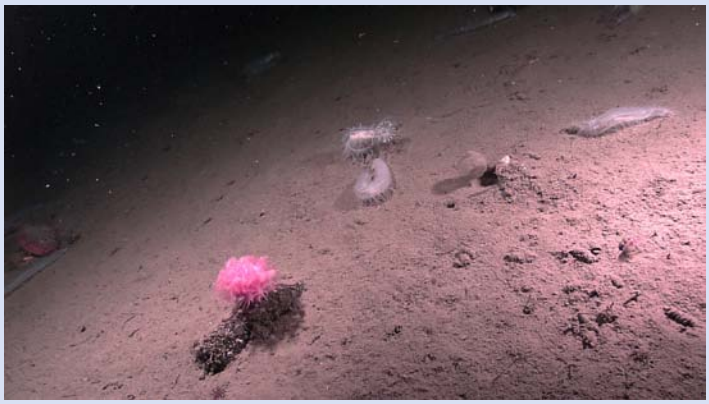
This dive was also noteworthy in sighting a predatory tunicate (likely *Megalodicopia*). These poorly known tunicates have been seen frequently in the Monterey Canyon, but their presence in the Channel Islands was unknown previously.

Overall Map of ROV Dive Area	Close-up Map of Main Dive Site
	

Representative Photos of the Dive



EX1102_IMG_20110427T172200Z_ROVHD_SHRIMP_ON_CORA
Here is a small hard-bottom ridge with light layer of sediment upon which are several temperate, deep water corals. The white corals were host to numerous, associated polycheates that were grazing detritus.



EX1102_IMG_20110427T185406Z_ROVHD_CORAL
This figure shows the gradient of this soft sediment bottom. In the left foreground is the mushroom coral, *Anathomastus retteri* and on the right, mid-frame is a predatory tunicate.

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