OKEANOS EXPLORER ROV DIVE SUMMARY

Site Name	Rosebud		EX 1103 GALREX - SITES OF INTEREST SECTION SE	
ROV Lead/ Expedition Coordinator	Dave Lovalvo/ Jeremy Potter		Nadac	and the state of t
General Area Descriptor	Rosebud hydrothermal vent site, <mark>X km NX of x Island</mark> , Galapagos Islands		Was was a	P 70 SAD GALDES CON SECON SECON SECON SECON
ROV Dive Name Equipment Deployed	Cruise Season	Leg		Dive Number
	EX1103 ROV:	2	2 DIVE07 Little Hercules	
	Camera Platfom:	Seirios		
ROV Measurements	 	Depth USBL Position Roll Low Res Cam 2		✓ Altitude✓ Heading✓ HD Camera
Equipment Malfunctions	None			
ROV Dive Summary (From processed ROV data)	Dive Summary: DIVE07_20110720 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA			
Special Notes Scientists Involved (please provide name / location / affiliation / email)	Click here to enter text. Timothy M. Shank/ Okeanos Explorer Lead Scientist/WHOI/tshank@whoi.edu Edward T. Baker/NOAA-PMEL, Washington/Edward.baker@noaa.gov Robert W. Embley/NOAA-PMEL, Oregon/Robert.w.embley@noaa.gov Stephen Hammond/ NOAA-PMEL, Oregon/Stephen.r.hammond@noaa.gov James F. Holden/ UMASS Amherst/jholden@microbio.umass.edu Scott White/University of South Carolina/swhite@geol.sc.edu Sharon L. Walker/ NOAA-PMEL, Washington/sharon.l.walker@noaa.gov Santiago Herrera/ WHOI Exploration Command Center/WHOI/sherrera@whoi.edu T. Jennifer Lin/UMASS Amherst/tjennlin@gmail.com Catriona Munro/ WHOI Exploration Command Center /WHOI/catmunro89 @gmail.com			

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Purpose of the Dive

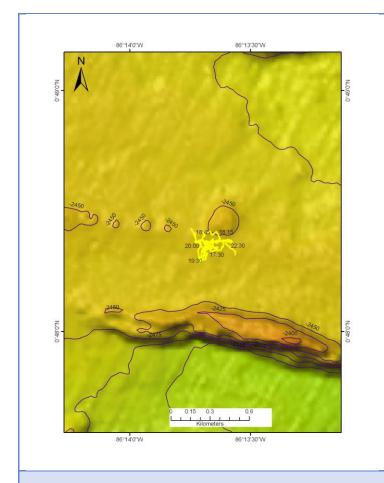
To locate an area that hosts the Rosebud hydrothermal vent site at 2450m for further exploration of the Rift in this region, which will likely be along east -west trending fissures just north of the field. Rosebud has not been visited since 2005, when Riftia tubeworms and bathymodiolid mussels dominated vent openings. The field was 60m x 40m with white seafloor markers, "A" and "B" on the eastern side, "F" and "L" centrally located, and "C" on the western side.

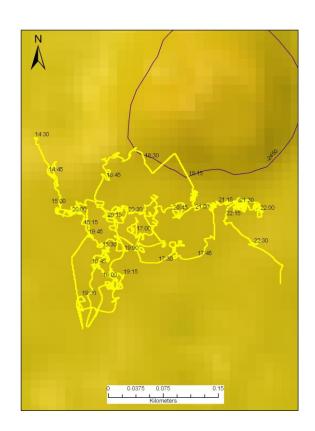
Description of the Dive:

On this descent, we saw an abundance of squid- down to at least 500m as well as what appear to be larvaceans/ctenophores. Once on the seafloor, we observed collapsed margins and traversed over a North-south running unsedimented lobate lava flow. Little Hercules continued to follow along collapsed features, over pillow lavas with multiple dandelion siphonophores but no sites of active hydrothermal venting were found during this dive. The lack of biota and presence of vitreous sheet flows suggests that this site may have experienced an eruption subsequent to the last previous dive at the site in 2005.

Overall Map of ROV Dive Area

Close-up Map of Main Dive Site





Representative Photos of the Dive

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Please direct inquiries to:

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