OKEANOS EXPLORER ROV DIVE SUMMARY

Site Name	Kona Precious	Coral Bed		
ROV Lead/Expedition Coordinator	Brian Bingham Kelley Elliott		a start a start a	~
Science Team Leads	Chris Kelley (Biology) Frank Parrish (Biology)		the set of	
General Area Descriptor	Main Hawaiian Islands			/
ROV Dive Name	Cruise Season EX1504	Leg 3	Dive Number DIVE02	
Equipment Deployed	ROV:	Divide Di		
	Camera Platform:	Seirios		
	СТР	Depth	Altitude	
	Scanning Sonar	USBL Position	Heading	
ROV Measurements	Pitch	Roll	HD Camera 1	
	Low Res Cam 3	Low Res Cam 4	Low Res Cam 2	
Equipment	Some audio problems were reported by onshore participants. Teleconference was interrupted several times			nes
Malfunctions	as well.			
ROV Dive Summary (From processed ROV data)	Dive Summary: EX1504L3_DIVE02 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA			
Special Notes				
Scientists Involved (please provide name / location / affiliation / email)	Frank Parrish, EX, PIFSC/PSD, <u>Frank.Parrish@noaa.gov</u> Chris Kelley, EX, UH, ckelley@hawaii.edu Amy Baco-Taylor, FL, FSU, <u>abacotaylor@fsu.edu</u> Asako Matsumoto, Japan, CIT, <u>amatsu@gorgonian.jp</u> Chris Mah, DC, USMNH, <u>mahch@si.edu</u> Michael Parke, HI, PIFSC, <u>Michael.Parke@noaa.gov</u> Nicole Morgan, FL, FSU, <u>nbmorgan11@gmail.com</u> Scott France, LA, ULL, <u>france@louisiana.edu</u> Steve Auscavitch, PA, Temple, <u>steven.auscavitch@temple.edu</u> Tina Molodtsova, Portugal, PPSIO, <u>tina@ocean.ru</u> Rachel Bassett, SC, CCEHBR, <u>Rachel.bassett@noaa.gov</u> Daniel Wagner, HI, PMNM, <u>daniel.wagner@noaa.gov</u>			

Purpose of the Dive

This dive targeted the middle of the Keahole precious coral bed off the Kona Coast of the Big Island of Hawaii. The objectives were to (1) recover an acoustic current meter and three flow meters placed throughout the bed, (2) to make observations on nearby previously marked colonies, and (3) to spend the remaining time exploring the surrounding environment. Most of the Keahole bed is carbonate ledge habitat and this dive was intended to spend much of the dive time working the top edge of the drop off.

Description of the Dive:

All of the dive objectives were completed. The acoustic Doppler current meter and three flow meters were all found and recovered. Colonies of gold coral near these instruments or marked by flower pots at other locations were located and close-up imagery was acquired for comparison to photographs of the colonies taken over 3 years ago. In addition, time remained during the dive to collect two biological specimens, a black coral and a bamboo coral, as well as fossil coral branches.

Animals observed during the dive are listed below.

Cnidarians:

Acanthogorgia sp. Corallium sp. Hemicorallium cf. lauense Isidella trichotoma? Keratoisis sp. (collected) Lepidisis olapa Acanella dispar? Paracis sp? Plexauridae sp. Callogorgia gilberti Kulamanamana haumeae Leiopathes annosa Trissopathes pseudotristicha? Chrysopathes sp (collected) Calibelemnon symmetricum Pennatula pearceyi Hydrodendron gorgonoide Stylobates aenaeus Single polyp scleractinian

Sponges

Regadrella sp

Echinoderms

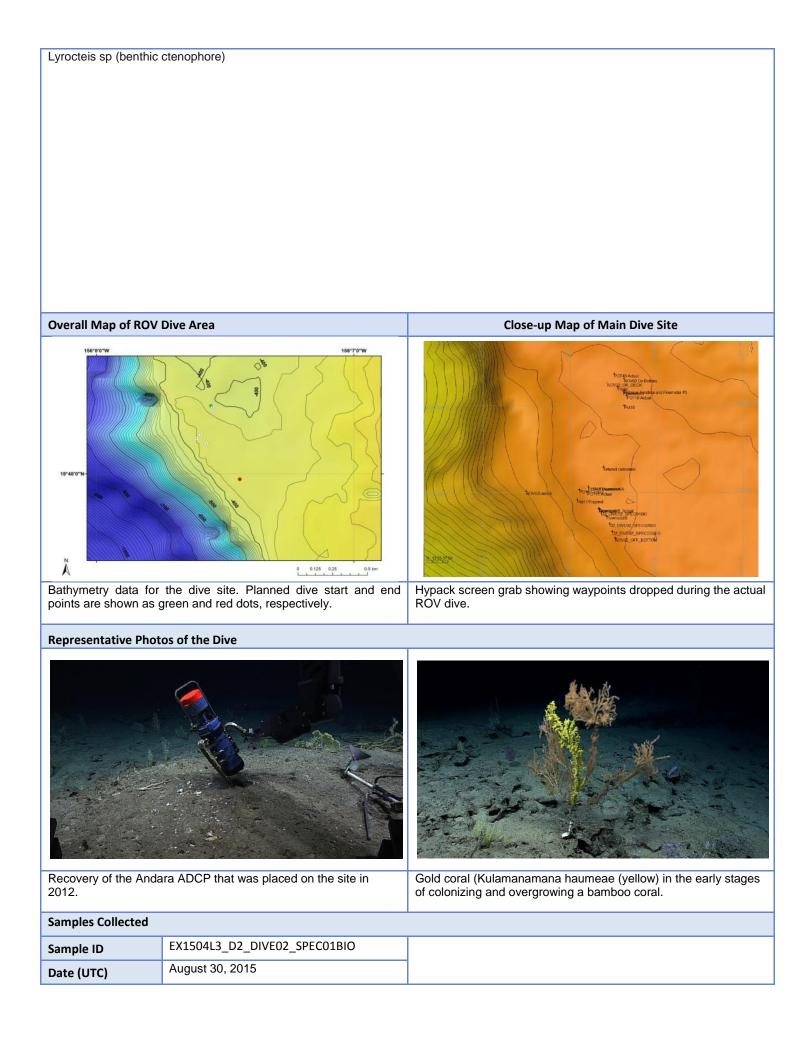
Stereocidaris hawaiiensis Sphaeriocidaris ammophilis

Arthropods

Paromola sp Squat lobster Gooseneck barnacles Plesionika sp Sympagurus dofleini

Fishes

Chrionema chryseres Chlorophthalmus proridens Hollardia goslinei Ophichthid eel Lophioides miacanthus Epigonus glossodontus Hoplostethus crassispinus Scorpaenid Satyrichthys engyceros Sphenanthias sp



Time (UTC)	0:50:43	
Depth (m)	389	A REAL PROPERTY AND A REAL
Temperature (°F)	8.11	
Field ID(s)	Chrysopathes sp	
Comments		
Sample ID	EX1504L3_D2_Dive02_SPEC02BIO	
Date (UTC)	August 30, 2015	
Time (UTC)	1:43:45	A second second
Depth (m)	393	
Temperature (°F)	8.11	XXXX
Field ID(s)	Keratoisis sp	
Comments		
Sample ID	EX1504L3_D2_Dive02_SPEC03GEO	
Date (UTC)	August 30, 2015	
Time (UTC)	1:56:56	
Depth (m)	389	A STERRY
Temperature (°F)	8.18	and the second
Field ID(s)	Fossil Coral	Versiti Causalities Causaliti
Comments		

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