OKEANOS EXPLORER ROV DIVE SUMMARY

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Site Name	McCall Seamount				
ROV Lead/Expedition Coordinator	Brian Bingham Kelley Elliott			14/4/200	
Science Team Leads	Frank Parrish (Biology) Christopher Kelley (Biology)				
General Area Descriptor	Main Hawaiian Islands				
	Cruise Season	Leg	THE CONTRACT OF THE CONTRACT O	Dive Number	
ROV Dive Name	EX1504	3		DIVE04	
	ROV:		Deep Disc	coverer	
Equipment Deployed	Camera Platform:		Seiri	os	
	⊠ CTD	Depth		Altitude	
	Scanning Sonar	Sussition USBL Position		Heading	
ROV Measurements	Pitch	Roll		HD Camera 1	
	HD Camera 2	Low Res Cam 1		Low Res Cam 2	
	Low Res Cam 3	Low Res Cam 4		Low Res Cam 2	
Equipment	_			periodic loss and freezing of video	
Malfunctions	as well as periodic loss of the c	hat room and teleconference	e interface.	periodic loss and freezing of video	
	Dive Summary: EX15				
	^^^^^^	^^^^^	^^^		
	In Water: 201	5-08-31T18:42:14.156000			
	N/A	; N/A			
	Out Water: 201	5-09-01T02:27:19.453000			
	18°,	, 58.959' N ; 157°, 06.310' V	V		
	055	- 00 04=00 =0 44 =00000			
ROV Dive Summary	Off Bottom: 2015-09-01T00:58:41.500000				
(From processed ROV	18°, 58.616' N ; 157°, 06.651' W				
data)	On Bottom: 201	2015 09 21T20:02:54 200000			
		2015-08-31T20:03:54.390000 18°, 58.983' N ; 157°, 06.705' W			
	10 /	18°, 58.983° N ; 157°, 06.705° W			
	Dive duration: 7:45	7:45:5			
Bottom Time: 4:54:47					
	Bottom Time: 4:54	1:47			
	Max. depth: 271	5.0 m			
Special Notes					
	Fre	ank Parrish, EX, NOAA, Fra	nk Parrish@n	oaa gov	
		Chris Kelley, EX, UH, cke			
	Amy Baco-Taylor, FL, FSU, abacotaylor@fsu.edu Asako Matsumoto, Japan, CIT, amatsu@gorgonian.jp				
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(please provide name / Scott France A III france@louisiana edu					
location / affiliation / email)	Tina Molodtsova, Portugal, PPSIO, tina@ocean.ru				
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		ndy, IRC ECC, PIFSC, NO			

Purpose of the Dive

This dive was the first ever conducted on McCall Seamount in the group of topographic features referred to as the Geologist Seamounts. The dive surveyed the crest of a sharp ridge that extended north of the seamount at a depth of 2700 m. The survey employed the standard methodology of the D2 with the objectives of 1) making observations and collecting video and 2) collecting rock and biological samples.

Description of the Dive:

All of the dive objectives were completed. Nearly the full planned distance of the dive track was achieved. The ridge crest was covered with loose talus and was almost completely barren of animals, which was unexpected. This type of substrate continued throughout the dive except for a couple of small ledges consisting primarily of pillow lavas. Two basalt rocks were collected specifically for geology and one additional rock was collected as part of a coral sample. In total 4 coral samples (a stoloniferous hydrozoan, Stauropathes sp., a primnoid, and a Schizopathes sp?, were collected.

Animals observed during the dive are listed below.

Cnidarians:

Chrysogorgia pinnata Primnoid Isididae unbranched Keratoisis sp Hydrozoan stoloniferous Stauropathes sp. Narella dichotoma Keratoisis sp. Schizopathes sp? Actinostolidae Bathypathes sp

Sponges

Hexactinellida various unidentified Farrea nr occa erecta? Semperella sp. Caulophacus (oxydiscus) sp Caulophacus (Caulodiscus) sp Rossellidae? Corbitellinae?

Echinoderms

Holothuroidean
Deimatidae
Unidentified sea star
Stalked crinoid Hyacrinidae
Comatulina crinoid
Hymenaster sp
Glyptometra lateralis?

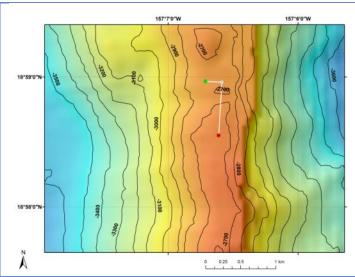
Arthropods

Nematocarcinus tenuirostris Balanoid or verricid barnacles Unidentified shrimp

Fishes

Ophidiidae

Other

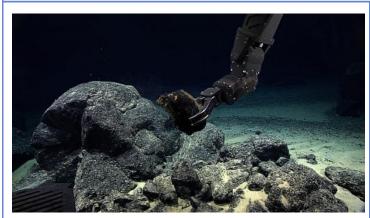


Bathymetry data for the dive site. Planned dive start and end points are shown as green and red dots, respectively.



Close-up showing actual ROV dive track as executed.

Representative Photos of the Dive



Collection of a vessiculated basalt sample from the crest of the ridge at the beginning of the dive. The expected thick Mn crusting was not observed at this site.



Collecting of a potential Schizopathes sp at the end of the dive. If the field identification is correct, this is either a new record or new species for Hawaii.

Samples Collected

Jumples concercu	
Sample ID	D2_DIVE04_SPEC01GEO
Date (UTC)	August 31, 2015
Time (UTC)	20:27:16
Depth (m)	2699
Temperature (°F)	1.67
Field ID(s)	Vessiculated basalt



Comments		
Sample ID	D2_DIVE04_SPEC02BIO	Who to have
Date (UTC)	August 31, 2015	
Time (UTC)	23:40:32	
Depth (m)	2646	
Temperature (°F)	1.58	
Field ID(s)	Stauropathes sp.	Whereit Character Characte
Comments		
Sample ID	D2_DIVE04_SPEC03GEO	
Date (UTC)	September 1, 2015	
Time (UTC)	0:05:04	
Depth (m)	2643	Vestel: Questro Esporar Cart (170) Est 150-40(3, 5, 0.2 Doubl 4 Color (170) Sopromber 01, 2015 Time (170) SOG 00
Temperature (°F)	1.57	Field D: McCusted Sapati Location: McCusted Sapati Lax.Long.: 18 779. 1517105 Depth: 254.10
Field ID(s)	Mn encrusted Basalt sample	Introduction de la constitución
Comments		

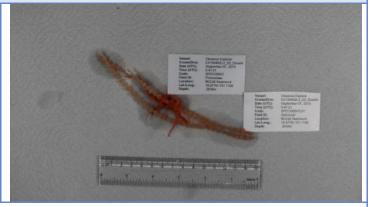
	D2_DIVE04_SPEC04GEO
Sample ID	D2_DIVE04_SPEC04GEO_C01
	D2_DIVE04_SPEC04GEO_C02
Date (UTC)	September 1, 2015
Time (UTC)	0:23:16
Depth (m)	2634
Temperature (°F)	1.57
	Mn encrusted Basalt sample
	Hydrozoan
Field ID(s)	Polychaete Worm



Comments

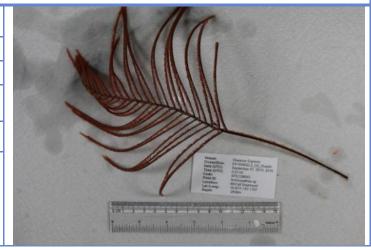
Samples Collected

Sample ID	D2_DIVE04_SPEC05BIO
Date (UTC)	September 1, 2015
Time (UTC)	0:47:21
Depth (m)	2638
Temperature (°F)	1.58
Field ID(s)	Primnoid Ophiuroid



Comments

Sample ID	D2_DIVE04_SPEC06BIO
Date (UTC)	September 1, 2015
Time (UTC)	0:57:03
Depth (m)	2638
Temperature (°F)	1.58
Field ID(s)	Schizopathes sp



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