Site Name Bank 9 South RV Lead/Expedition Coordinator Karl McLetchie Kelley Eliotin Daniel Wagner (Biology) Image: Constant of the second of the		OKEANOS I	EXPLORER ROV DIVE SUMMA	ARY	
Coordinator Kelley (Biology) Science Team Leads Dchick Kelley (Biology) General Area Descriptor Northwestern Hawaiian Islands ROV Dive Name Chrise Season Leg Dive Number Equipment Deployeet ROV: Deep Discoverer Equipment Deployeet Carnera Platform: Seinos 20 CTD 20 path Sainos 20 CTD 20 path Sainos 20 Pitch 20 Altitude 20 Pitch 20 Pitch 20 Roll 20 Hoarnera 1 21 Low Res Cann 1 10 Low Res Cann 2 20 Low Res Cann 4 10 Low Res Cann 2 Equipment Wee even communications issues between the short-based and shipboard science team; however, these were free than on previous days, Other than that, all other equipment worked properly. Dive Summary Exit504L2 UVE88 ROV Dive Summary (From processed RNV data) Oif Bottom at: 2015-08-01703:35:45:71000 26°, 49.25 N i; 175°, 36.502 'W Out Water at: 2015-08-00719:54:14:35000 26°, 49.25 N i; 175°, 36.502 'W Out Water at: 2015-08-00703:35:45:781000 Special Notes Special Notes Allen Andrieve, Honelulu, H, H, HYESC, Allen Andreexe Brocaa.	Site Name	Bank 9 Sc	buth		
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Special Notes Allen Andrews, Honolulu, HI, PIFSC, Allen.Andrews@noaa.gov Amanda Ziegler, UH, UH, aziegler802@gmail.com Amy Baco-Taylor, HBOI ECC, FSU, abacotaylor@fsu.edu Brendan Roark, TAMUCC, TAMU, broark@geos.tamu.edu Bruce Mundy, Honolulu, HI, NMFS, bruce.mundy@noaa.gov Chris Kelley, EX, UH, ckelley@hawaii.edu Daniel Wagner, EX, PMNM, daniel.wagner@noaa.gov Dave Clague, MBARI, MBARI, clague@mbari.org Diva Amon, UH, UH, divaamon@hawaii.edu Jonathan Tree, UH, UH, tiree@hawaii.edu Les Watling, UH, UH, watling@hawaii.edu Michael Garcia, UH, UH, mgerring@hawaii.edu Michael Garcia, UH, UH, mogarcia@hawaii.edu Michael Parke, Honolulu, HI, PIFSC, Michael.Parke@noaa.gov Nicole Morgan, HBOI ECC, FSU, nbmorgan11@gmail.com Scott France, ULL, ULL, france@louisiana.edu		Bottom Time: 6:51:2			
Allen Andrews, Honolulu, HI, PIFSC, Allen.Andrews@noaa.gov Amanda Ziegler, UH, UH, aziegler802@gmail.com Amy Baco-Taylor, HBOI ECC, FSU, abacotaylor@fsu.edu Brendan Roark, TAMUCC, TAMU, broark@geos.tamu.edu Bruce Mundy, Honolulu, HI, NMFS, bruce.mundy@noaa.gov Chris Kelley, EX, UH, ckelley@hawaii.edu Chris Kelley, EX, UH, ckelley@hawaii.edu Daniel Wagner, EX, PMNM, daniel.wagner@noaa.gov Dave Clague, MBARI, MBARI, nach@si.edu Dave Clague, MBARI, MBARI, clague@mbari.org Diva Amon, UH, UH, divaamon@hawaii.edu Jonathan Tree, UH, UH, jtree@hawaii.edu Michael Garcia, UH, UH, mogarcia@hawaii.edu Michael Garcia, UH, UH, mogarcia@hawaii.edu Michael Parke, Honolulu, HI, PIFSC, Michael.Parke@noaa.gov Nicole Morgan, HBOI ECC, FSU, nbmorgan11@gmail.com Scott France, ULL, ULL, france@louisiana.edu		Max. depth: 138	Max. depth: 1381.6 m		
Amanda Ziegler, UH, UH, aziegler802@gmail.com Amy Baco-Taylor, HBOI ECC, FSU, abacotaylor@fsu.edu Brendan Roark, TAMUCC, TAMU, broark@geos.tamu.edu Bruce Mundy, Honolulu, HI, NMFS, bruce.mundy@noaa.gov Chris Kelley, EX, UH, ckelley@hawaii.edu Chris Mah, SI, SI NMNH, mahch@si.edu Daniel Wagner, EX, PMNM, daniel.wagner@noaa.gov Dave Clague, MBARI, MBARI, clague@mbari.org Diva Amon, UH, UH, divaamon@hawaii.edu Jonathan Tree, UH, UH, jtree@hawaii.edu Mackenzie Garringer, UH, WH, watling@hawaii.edu Michael Parke, Honolulu, HI, PIFSC, Michael.Parke@noaa.gov Nichael Parke, Honolulu, HI, PIFSC, Nichael.Parke@noaa.gov Nicole Morgan, HBOI ECC, FSU, nbmorgan11@gmail.com Scott France, ULL, ULL, france@louisiana.edu Steve Auscavitch, Temple, Temple, steven.auscavitch@temple.edu	Special Notes				
	(please provide name / location / affiliation /	Amanda Ziegler, UH, UH, aziegler802@gmail.com Amy Baco-Taylor, HBOI ECC, FSU, abacotaylor@fsu.edu Brendan Roark, TAMUCC, TAMU, broark@geos.tamu.edu Bruce Mundy, Honolulu, HI, NMFS, bruce.mundy@noaa.gov Chris Kelley, EX, UH, ckelley@hawaii.edu Chris Mah, SI, SI NMNH, mahch@si.edu Daniel Wagner, EX, PMNM, daniel.wagner@noaa.gov Dave Clague, MBARI, MBARI, clague@mbari.org Diva Amon, UH, UH, divaamon@hawaii.edu Jonathan Tree, UH, UH, jtree@hawaii.edu Les Watling, UH, UH, watling@hawaii.edu Mackenzie Garringer, UH, UH, mgerring@hawaii.edu Michael Garcia, UH, UH, mogarcia@hawaii.edu Michael Parke, Honolulu, HI, PIFSC, Michael.Parke@noaa.gov Nicole Morgan, HBOI ECC, FSU, nbmorgan11@gmail.com Scott France, ULL, ULL, france@louisiana.edu			

This dive was located on the south side of Bank 9, which is believed to be a Cretaceous guyot or flat-topped seamount. Previous highresolution mapping data of Bank 9 suggests that it is a composite feature that includes both a Cretaceous guyot to the south as well as a younger Hawaiian guyot to the north. The objectives of the dive were to explore for high-density communities of deep-sea corals and sponges on the southern older part, starting just below the break in slope of the main terrace, then move up to the terrace top, transect over to the base of what appears to be a volcanic cone, and finally up the slope of the cone. We hoped to encounter a coral and sponge community either on the terrace edge or the cone, and that the dive would provide insights into how this peculiar composite seamount might have formed. We also planned to survey for the presence of fossil rudist bivalves, which if found would conclusively indicate a Cretaceous age for this part of Bank 9. The target start point of the dive was on the terrace flank at a depth of 1396 m, while the endpoint of the dive was at the summit of the cone at 1127m.

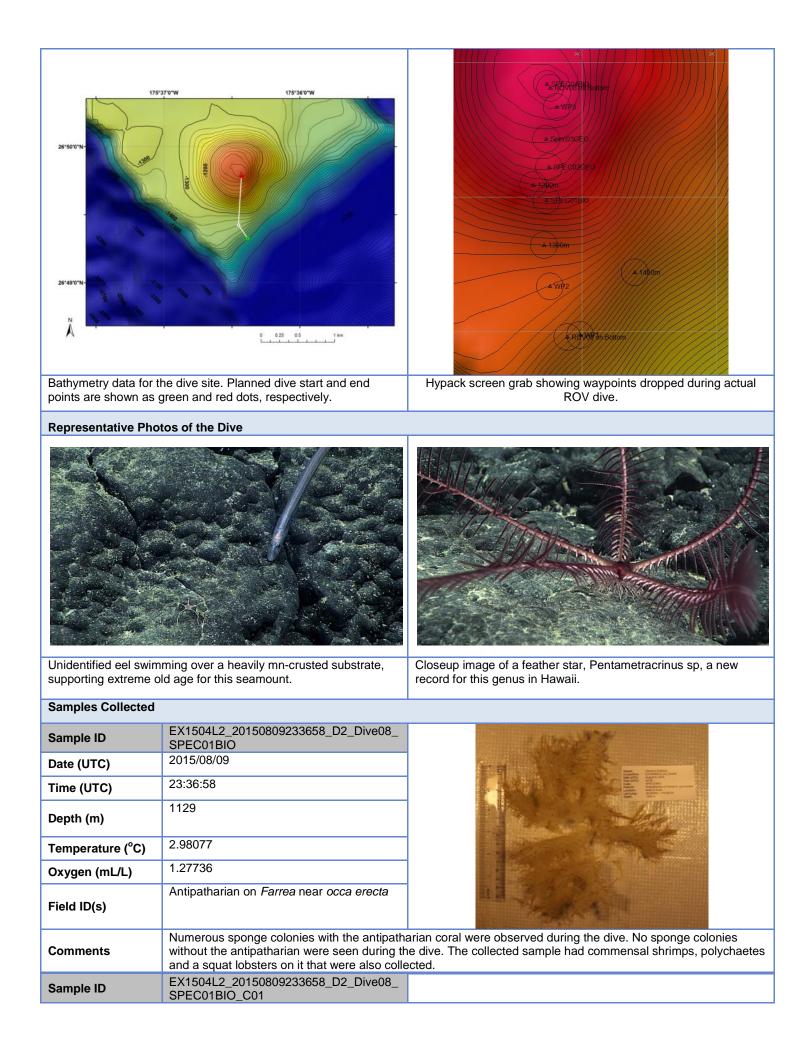
Description of the Dive:

The ROV landed on a sloped surface that consisted of pavement mixed with rubble at 1380 m. The substrate was heavily crusted with manganese and there was a slight current from the east towards the west. Only few animals were present close to the landing site, including one bamboo coral and a chrysogorgid coral. As the ROV moved up the slope towards the terrace of the seamount, the density of animals remained very low and included corals, sponges, asteroids, crinoids, sea pens, urchins, shrimps, fishes and sea cucumbers. One aluminum can was observed on the slope. A sample of a farreid sponge, which had a black coral growing over it, was collected at 1230 m. This association a sponge and black coral was seen on numerous occasions throughout the dive and the collection was made for the black coral, which has not been identified to even family at this point. On the terrace of the seamount, the substrate changed to Mn-coated cobbles and the density of animals continued to remain low. A Mn-crusted rock sample was collected on the terrace at 1165 m. As the ROV reached and moved up the slope of the cone, several colonies of scleractinian corals (Enallopsammia rostrata), bubble gum corals and sponges (Atlantisella sp1) appeared; however, the density of animals remained low. A second Mn-crusted rock sample was collected on the slope of the cone at 1169m. On the summit there were several pillow lavas in parallel rows and very few animals. After the reaching the summit, the ROV moved back down the cone and collected a comatulid crinoid at 1104. The ROV left the bottom at a depth of 1096m after a total bottom time of 6.52h, having covered a linear distance of over 1km. No fossil rudist bivalves were observed during the dive and both diversity and abundance of animals of any kind remained very low throughout the dive. Three possible explanations for the low density of the community were discussed by the science group and included low oxygen levels at this depth, the very thick mn crusts, and inappropriate topography coupled with low current flow.

Animals observed during the dive are listed below:

Dividuos	0	On a size
Phylum Annellida	Group Polychaetes	Species Polychaete
Annellida	Polychaetes	Polynoid
Arthropod	Copepod	Copepod
Arthropod	Crab	Crab with symbiotic anemone
Arthropods	Shrimp	Heterocarpus laevigatus
Arthropods	Shrimp	Nematocarcinus tenuisrostris
Arthropods	Squat lobsters	Munidae
Cnidarians	Actiniarians	Anthomastus sp.
Cnidarians	Alcyonaceans	Anthomastus steenstrupi?
Cnidarians	Antipatharians	Antipatharian on Farrea nr. occa erecta
Cnidarians	Antipatharians	Bathypathes alternata (white)
Cnidarians	Gorgonians	Calyptrophora wyvillei
Cnidarians	Gorgonians	Candidella sp.
Cnidarians	Gorgonians	Chrysogorgia sp.
Cnidarians	Gorgonians	Corallium sp.
Cnidarians	Gorgonians	Iridogorgia magnispiralis
Cnidarians	Gorgonians	Keratoisis sp.
Cnidarians	Gorgonians	Narella? sp.
Cnidarians	Gorgonians	Paragorgia sp.
Cnidarians	Gorgonians	Unbranched isidids
Cnidarians	Gorgonians	Unidentified branched isidids
Cnidarians	Hydrozoans	Hydromedusae
Cnidarians	Hydrozoans	Narcomedusae
Cnidarians	Hydrozoans	Ptychogatria? sp. (Hydromedusae)
Cnidarians	Hydrozoans	Siphonophore

Cnidarians	Pennatulaceans	Anthoptilum sp.		
Cnidarians	Pennatulaceans	Halipteris sp.		
Cnidarians	Pennatulaceans	Pennatula inflata		
Cnidarians	Scleractinians	Enallopsammia rostrata		
Ctenophores	Ctenophores	Ctenophores		
Echinoderms	Asteroids	Asthenactis sp.		
Echinoderms	Asteroids	Goenostaridae		
Echinoderms	Asteroids	Hymenaster pentagona	is	
Echinoderms	Asteroids	Pteraster reticulatus		
Echinoderms	Asteroids	Pteraster sp.		
Echinoderms	Asteroids	Unidentified asteroid		
Echinoderms	Crinoids	Glyptometra lateralis		
Echinoderms	Crinoids	Unidentified comatulid (5arms)	
Echinoderms	Crinoids	Unidentified comatulid (9arms)	
Echinoderms	Holothuria	Deimatidae		
Echinoderms	Holothuria	Peniagone sp.		
Echinoderms	Ophiuroids	Unidentified ophiuroids		
Echinoderms	Urchin	Aspidodiadema hawaiie	nsis	
Echinoderms	Urchin	Caenopedina sp.		
Echinoderms	Urchin	Sperosoma cf. obscuru	n	
Fishes	Eel-like	Aldrovandia phalacra		
Fishes	Eels	Synaphobranchus affinis?		
Fishes	Eels	Synaphobranchus brevi	Synaphobranchus brevidorsalis	
Fishes	Eels	Synaptobranchid		
Fishes	Macrourids	Coryphaenoides sp.		
Fishes	Macrourids	Ophidiid		
Mollusks	Gastropods	Pleurobranchea sp.		
Mollusks	Gastropods	Snail on bamboo coral		
Sponges	Demosponges	Unidentified cladorhizid		
Sponges	Hexactinellids	Atlantisella sp.1		
Sponges	Hexactinellids	Bolosoma sp.		
Sponges	Hexactinellids	Atlantisella sp1.		
Sponges	Hexactinellids	Poliopogon sp.		
Sponges	Hexactinellids	Saccocalyx cf. pedunculatus		
Sponges	Hexactinellids	Tretopleura sp.2		
Sponges	Hexactinellids	Walteria flemmingi		
Sponges	Hexactinellids	Walteria sp.		
Overall Map of Div	ve Area		Actual track of ROV dive	



Date (UTC)	2015/08/09	the construction of the local sector of the lo
Time (UTC)	23:36:58	Vessel: Okeanos Explorer Cruise/Dive: EX150402L2_D2_Dive08
Depth (m)	1129	Date (UTC): August 9, 2015 Time (UTC): 23:36 Code: SPEC01BIO_C01
Temperature (°C)	2.98077	Field ID: Commensal shrimp Location: Bank 9 South
Oxygen (mL/L)	1.27736	Lat./Long.: 26.82659 / -175.60753
Field ID(s)	Commensal shrimp	Depth: 1229 m
Comments	The shrimps came up with the black coral/sp	onge sample.
Sample ID	EX1504L2_20150809233658_D2_Dive08_ SPEC01BIO_C02	Vessel: Okeanos Explorer Cruise/Dive: EX150402L2_D2_Dive08
Date (UTC)	2015/08/09	Date (UTC): August 9, 2015
Time (UTC)	23:36:58	Time (UTC): 23:36 Code: SPEC01BIO_C02
Depth (m)	1129	Field ID: Commensal squat lobster Location: Bank 9 South Lat./Long.: 26.82659 / -175.60753
Temperature (°C)	2.98077	Depth: 1229 m
Oxygen (mL/L)	1.27736	
Field ID(s)	Commensal squat lobster	
Comments	The squat lobster came up with the black cor	ral/sponge sample.
Sample ID	EX1504L2_20150809233658_D2_Dive08_ SPEC01BIO_C03	
Date (UTC)	2015/08/09	Vessel: Okeanos Explorer Cruise/Dive: EX150402L2_D2_Dive08
Time (UTC)	23:36:58	Date (UTC): August 9, 2015
Depth (m)	1129	Time (UTC): 23:36 Code: SPEC01BIO_C03 Field ID: Commensal polychaete
Temperature (°C)	2.98077	Location: Bank 9 South Lat./Long.: 26.82659 / -175.60753
Oxygen (mL/L)	1.27736	Depth: 1229 m
Field ID(s)	Commensal polychaete	
Comments	The polychaetes came up with the black cora	al/sponge sample.
Sample ID	EX1504L2_20150810002436_D2_Dive08_ SPEC02GEO	The second
Date (UTC)	2015/08/10	
Time (UTC)	00:24:36	Water Comment
Depth (m)	1165	The WICE August 2 site and a second s
Temperature (°C)	3.09288	
Oxygen (mL/L)	1.21906	
Field ID(s)	Mn-crusted rock	
Comments	Very thick manganese crust on rock.	
Sample ID	EX1504L2_20150810012920_D2_Dive08_ SPEC03GEO	
Date (UTC)	2015/08/10	
Time (UTC)	01:29:20	
Depth (m)	1169	

Temperature (°C)	3.20205		
Oxygen (mL/L)	1.10915		
Field ID(s)	Mn-crusted rock		Vessei: Cruise/Unive Ex10/04/212, D2, Diverse Cruise/Unive Ex10/40/212, D2, Diverse Time (UTC): D20 Cruise/UTC): D20
Comments	Unidentified echir	noderm was attached to the	collected rock.
Sample ID	EX1504L2_20150 SPEC03GEO_C0	0810012920_D2_Dive08_ 01	
Date (UTC)	2015/08/10		Vessel: Cruise/Dive: Wessel: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cruise/Dive: Cr
Time (UTC)	01:29:20		Date (UTC): 01:29 Time (UTC): 01:29
Depth (m)	1169		Code: Field ID: Location: Lat./Long.: 26 82864 / -175.60755 1169 m
Temperature (°C)	3.20205		Depth:
Oxygen (mL/L)	1.10915		
Field ID(s)	Echinoderm on ro	ock	
Comments	Unidentified echir	noderm was attached to the	collected rock.
Sample ID	EX1504L2_20150 SPEC04BIO	0810030812_D2_Dive08_	New Construction of the Co
Date (UTC)	2015/08/10		Linder Harts Harts
Time (UTC)	03:08:12		
Depth (m)	1104		GXOV.
Temperature (°C)	3.32554		
Oxygen (mL/L)	1.03895		A the second
Field ID(s)	Comatulid crinoid		the second se
Comments	Crinoid lost some appendages during collection.		
Please direct	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		