OKEANOS EXPLORER ROV DIVE SUMMARY				
Site Name	East Salmon Bank		C. C. C.	
ROV Lead/Expedition Coordinator	Karl McLet Kelley Ell			the second second
Science Team Leads	Chris Kelley (E Daniel Wagner			
General Area Descriptor	Northwestern Hawa	aiian Islands		
ROV Dive Name	Cruise Season	Leg		Dive Number
	EX1504	2		DIVE09
Equipment Deployed	ROV:		Deep Dis	
	Camera Platform:		Sei	
	CTD Scanning Sonar	Depth		Altitude 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 Malfunctions	There were only a few communi than that, all other equipment we		e shore-base	d and shipboard science team. Other
ROV Dive Summary (From processed ROV data)	27°,   Out Water at: 201   27°,   Off Bottom at: 201   27°,   On Bottom at: 201   27°,   Dive duration: 8:14   Bottom Time: 5:48	EX1504L2_DIVE09 2015-08-10T18:12:07.328000 27°, 08.354' N ; 176°, 14.204' W 2015-08-11T02:26:43.171000 27°, 08.710' N ; 176°, 13.243' W 2015-08-11T01:15:24.781000 27°, 08.594' N ; 176°, 13.574' W 2015-08-10T19:26:48.406000 27°, 08.424' N ; 176°, 13.964' W 8:14:35 5:48:36 2284.6 m		
Special Notes				
Scientists Involved (please provide name / location / affiliation / email)	Abby Lapointe, UH, UH, abbylap@hawaii.edu Allen Andrews, IRC, NMFS, Allen.Andrews@noaa.gov Amy Baco-Taylor, HBOI ECC, FSU, abacotaylor@fsu.edu Andrea Quattrini, Pasadena, CA, USGS, aquattrini@usgs.gov Astrid Leitner, UH, UH, aleitner@hawaii.edu Brendan Roark, TAMU-CC, TAMY, broark@geos.tamu.edu Bruce Mundy, IRC, NMFS, bruce.mundy@noaa.gov Chris Kelley, EX, UH, ckelley@hawaii.edu Chris Mah, SI, SI mahch@si.edu Daniel Wagner, EX, PMNM, daniel.wagner@noaa.gov Diva Amon, UH, UH, divaamon@hawaii.edu Jonathan Tree, UH, UH, jtree@hawaii.edu Les Watling, Maine, UH, watling@hawaii.edu Mackenzie Garringer, UH, UH, mgerring@hawaii.edu Mary Wicksten, TX, TAMU, wicksten@bio.tamu.edu Michael Parke, IRC, NMFS, Michael.Parke@noaa.gov Micheal Vecchione, SI, SI, VECCHIOM@si.edu Nicole Morgan, HBOI ECC, FSU, nbmorgan11@gmail.com Randal Singer, FL, FLMNH, rainger@flmnh.ufl.edu Randall Kosaki, IRC, PMNM, Randall.kosaki@noaa.gov			

## Purpose of the Dive

This dive site was located on a sharp ridge that extended west from East Salmon Bank, and its objective was to survey for the presence of high densities of corals and sponges and examine the impact of ridge orientation on the presence of high density communities. The discovery of a high density community would provide information valuable to NOAA's Deep Sea Coral and Technology Program (DSCTP). The target start point was a small relatively flat area located at a depth of 2300m, which transitioned into a steep slope towards the east at approximately 2250m. At this depth, the ROV would move northeastward to a final target depth of approximately 2046m, documenting in particular the abundance of corals and sponges.

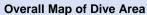
## **Description of the Dive:**

The ROV landed on a Mn-crusted, sloped surface covered with boulders and rubble at 2282m. There was a slight current from the east towards the west and a moderate density of sponges and corals. A Mn-crusted basalt sample was collected close to the landing spot at 2278 m. As the ROV moved up the slope, the density of animals remained moderate and included sponges, corals and asteroids. A second Mn-crusted basalt sample was collected at 2253m and a sponge sample at 2248m. Further up the ridge, the ROV passed by a region of well preserved pillow flows at 2206m, which had a higher density of corals and sponges growing on them. A third Mn-crusted basalt sample was collected at 2170m after consultation with monument staff. Further up the slope, a hexactinellid sponge, along with a commensal shrimp, was collected at 2106m. The ROV left the bottom at a depth of 2103m after a total bottom time of 5:50h, having covered a linear distance of 730m. This seamount has also been dated to 90 ma ago (Cretaceous) and the lack thick mn crusts similar to the previous dive is very puzzling to the participating geologists. The rock samples will be tremendously valuable in figuring out this puzzle.

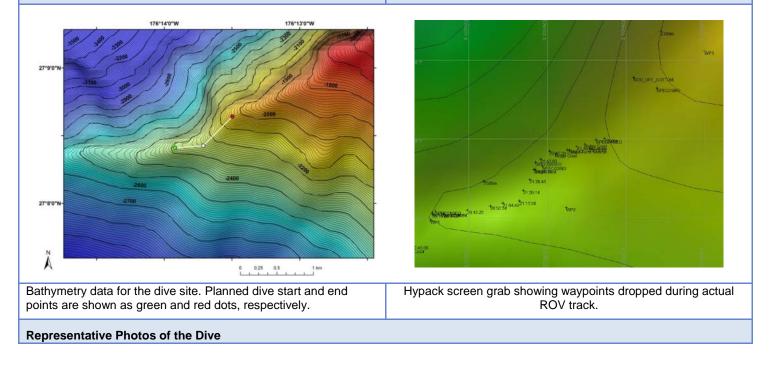
## Animals observed during the dive are listed below:

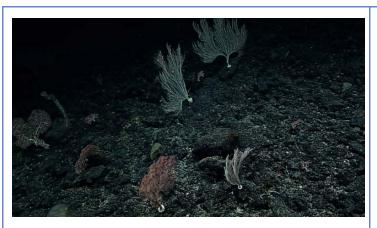
AnellidaPolychaetesPolychaeteArthropodCrabHermit crab with symbiotic anemoneArthropodsSquat lobstersMunidopsis sp.CnidariansActiniariansHormathiidae?CnidariansActiniariansUnidentified anemoneCnidariansAlcyonaceansAnthomastus sp.CnidariansAlcyonaceansStoloniferous octocoralCnidariansAntipathariansBathypathes alternataCnidariansAntipathariansStauropathes staurocradaCnidariansAntipathariansUmbellapathes helioanthesCnidariansGorgoniansCalyptrophora/Narella sp.CnidariansGorgoniansCorallium sp.CnidariansGorgoniansCorallium sp.CnidariansGorgoniansEknomisis? sp.CnidariansGorgoniansIridogorgia magnispiralisCnidariansGorgoniansIsidella sp.CnidariansGorgoniansIsidella sp.CnidariansGorgoniansIsidella sp.CnidariansGorgoniansIsidella sp.CnidariansGorgoniansIsidella trichotomaCnidariansGorgoniansIsidella trichotomaCnidariansGorgoniansIsidella trichotomaCnidariansGorgoniansIsidella trichotomaCnidariansGorgoniansIsidella trichotomaCnidariansGorgoniansIsidella trichotomaCnidariansGorgoniansIsidella trichotomaCnidariansGorgoniansIsidella trichotomaCnidarians <th>Phylum</th> <th>Group</th> <th>Species</th>	Phylum	Group	Species
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CnidariansAntipathariansStauropathes staurocradaCnidariansAntipathariansUmbellapathes helioanthesCnidariansGorgoniansCalyptrophora/Narella sp.CnidariansGorgoniansChrysogorgia geniculataCnidariansGorgoniansCorallium sp.CnidariansGorgoniansEknomisis? sp.CnidariansGorgoniansIridogorgia bellaCnidariansGorgoniansIridogorgia magnispiralisCnidariansGorgoniansIsidella sp.CnidariansGorgoniansIsidella sp.CnidariansGorgoniansLepidisis sp.CnidariansGorgoniansLepidisis sp.CnidariansGorgoniansKeratoisis sp.CnidariansGorgoniansNarella alata?CnidariansGorgoniansNarella alata?CnidariansGorgoniansUnbranched isididsCnidariansGorgoniansUnbranched primnoidCnidariansGorgoniansHydrozeansCnidariansHydrozeansHydroids overgrowing Solanderia	Cnidarians	Alcyonaceans	Stoloniferous octocoral
CnidariansAntipathariansUmbellapathes helioanthesCnidariansGorgoniansCalyptrophora/Narella sp.CnidariansGorgoniansChrysogorgia geniculataCnidariansGorgoniansCorallium sp.CnidariansGorgoniansEknomisis? sp.CnidariansGorgoniansIridogorgia bellaCnidariansGorgoniansIridogorgia magnispiralisCnidariansGorgoniansIsidella sp.CnidariansGorgoniansIsidella sp.CnidariansGorgoniansIsidella trichotomaCnidariansGorgoniansLepidisis sp.CnidariansGorgoniansKeratoisis sp.CnidariansGorgoniansNarella alata?CnidariansGorgoniansUnbranched isididsCnidariansGorgoniansUnbranched primnoidCnidariansGorgoniansHydrozoansCnidariansHydrozoansHydroids overgrowing Solanderia	Cnidarians	Antipatharians	Bathypathes alternata
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CnidariansHydrozoansSiphonophoreCnidariansHydrozoansHydroids overgrowing Solanderia	Cnidarians	Gorgonians	Unbranched primnoid
Cnidarians Hydrozoans Hydroids overgrowing Solanderia	Cnidarians	Hydrozoans	Hydromedusae
	Cnidarians	Hydrozoans	Siphonophore
Cnidarians Hydrozoans Solanderia? sp.	Cnidarians	Hydrozoans	Hydroids overgrowing Solanderia
	Cnidarians	Hydrozoans	Solanderia? sp.

Ctenophores	Ctenophores	Platyctenid ctenophore	
Echinoderms	Asteroids	Henricia sp.	
Echinoderms	Asteroids	Hypasteria municepula	
Echinoderms	Asteroids	Unidentified brisingid	
Echinoderms	Asteroids	Atelecrinidae	
Echinoderms	Crinoids	Comatulid crinoid	
Fishes	Eels	Haptenchelys sp?	
Mollusks	Gastropods	Aplocophoran	
Sponges	Hexactinellids	Bolosoma sp.	
Sponges	Hexactinellids	Rosellid vase? sp. (collected)	
Sponges	Hexactinellids	Caulophacus (Caulodiscus) sp.	
Sponges	Hexactinellids	Caulophacus (New subgenus) sp.	
Sponges	Hexactinellids	Caulophacus (Oxydiscus) sp.	
Sponges	Hexactinellids	Farrea sp.	
Sponges	Hexactinellids	Farrrea nr occa erecta	
Sponges	Hexactinellids	Poliopogon sp.	
Sponges	Hexactinellids	Tretopleura sp.1	
Sponges	Hexactinellids	Tretopleura sp.2	
Sponges	Hexactinellids	Uncinateridae sp.	
Sponges	Hexactinellids	Unidentified hexactinellid (collected)	
Sponges	Hexactinellids	Corbitellinae new genus	
Tunicate	Ascidacea	Culeolus sp.	



Actual track of ROV dive





Example of the modest density community observed on this site which included bamboo corals, corallium sp, and primnoids.



Large "folded blanket sponge collected during the dive. After an examination of the spicules, the identification of the family this hexactinellid belongs in is still uncertain.

		hexactinellid belongs in is still uncertain.
Samples Collected		
Sample ID	EX1504L2_20150810194044_D2_Dive09_ SPEC01GEO	GUILIN
Date (UTC)	2015/08/10	
Time (UTC)	19:40:44	
Depth (m)	2278	
Temperature (°C)	1.73783	
Oxygen (mL/L)	3.18724	Martin Martin Barris
Field ID(s)	Mn-crusted basalt	AND THE REPORT OF THE REPORT O
Comments		
Sample ID	EX1504L2_20150810220806_D2_Dive09_ SPEC02GEO	
Date (UTC)	2015/08/10	
Time (UTC)	22:08:06	Name Strandbare Strand
Depth (m)	2251	Landard Landard Band Landard Control (1997) Bandar 1231 an (1992) Element 1231 an (1992)
Temperature (°C)	1.7404	
Oxygen (mL/L)	3.10643	
Field ID(s)	Mn-crusted basalt	A DESCRIPTION OF A DESC
Comments		
Sample ID	EX1504L2_20150810223048_D2_Dive09_ SPEC03BIO	
Date (UTC)	2015/08/10	Hand Hand Hand Hand Hand Hand Hand Hand
Time (UTC)	22:30:48	and the second second
Depth (m)	2247	all the second
Temperature (°C)	1.73356	
Oxygen (mL/L)	3.10438	The second second second
Field ID(s)	Bathydorus? sp.	
Comments		

Sample ID	EX1504L2_20150 SPEC04GEO	0810233649_D2_Dive09_		
Date (UTC)	2015/08/10		State and the second	
Time (UTC)	23:36:49			
Depth (m)	2171		Terrer Barris State Stat	
Temperature (°C)	1.80602	Area and a second		
Oxygen (mL/L)	2.98121			
Field ID(s)	Mn-crusted basal	t		
Comments				
Sample ID	EX1504L2_20150 SPEC05BIO	0811005814_D2_Dive09_	15 Date 1	
Date (UTC)	2015/08/11	A A A A A A A A A A A A A A A A A A A		
Time (UTC)	00:58:14			
Depth (m)	2104	E E		
Temperature (°C)	1.78398		and the second s	
Oxygen (mL/L)	2.99952		The second secon	
Field ID(s)	Hexactenellid sponge			
Comments	Had commensal shrimp on it that was also coll		ollected.	
Sample ID	EX1504L2_20150811005814_D2_Dive09_ SPEC05BIO_C01		DR-SKID	
Date (UTC)	2015/08/11		16 8 12 9 9 1 10 31	
Time (UTC)	00:58:14			
Depth (m)	2104   1.78398   2.99952   Commensal shrimp		Okeanos Explorer	
Temperature (°C)			Vessel: Cruise/Dive: Cruise/Dive: Date (UTC): 00:58 Time (UTC): Code: Code: Commensal shrimp Field ID: Commensal shrimp	
Oxygen (mL/L)				
Field ID(s)			Location: East Samor 2020 27.14316 / -176 22617 Depth: 2104 m	
Comments	Collected on unidentified hexactenellid sponge		je	
Please direct inquiries to: NOAA Office of Ocean Ex 1315 East-West Highway Silver Spring, MD 20910 (301) 734-1014		1315 East-West Highway Silver Spring, MD 20910	ploration & Research (SSMC3 10 <sup>th</sup> Floor)	