

# Cruise Leg Sampling Report

**Cruise ID**                                      **Cruise Title**                                      **Cruise Start**   **Cruise End**   **Vehicle Used**  
*EX1504L4*   *Hohonu Moana: Exploring the Deep Waters off Hawai'i Leg 4*   *9/12/2015*   *9/30/2015*   *Deep Discoverer*

**Dive ID**                      **DiveDate**                                      **Dive Site Name**  
**DIVE01**                      **9/13/2015**                                      **Barbers Point Pinnacles**

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150913T001140_D2_DIVE01_SPEC01BIO	20150913T001140	BIO	Telopathes	Scott France	
Lat: 21.24	Lon: -158.02	Depth (m): 359.31	Temp: 8.5	Sal: 34.14	Oxy: 3.54
Size Category: 11 - 50 cm	WeightInKg	Condition			
Remarks:	Base of colony, upper part of colony lost				
Habitat(s):	Rock/Ledges		Substrate(s): Carbonate Sand		
Comments:					

<b>SubSample:</b>	EX1504L4_20150913T001140_D2_DIVE01_SPEC01BIO_S01	<b>Vial #:</b>	55	<b>Sub Sample Repository:</b>	OGL
<b>Comment</b>					

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150913T223100_D2_DIVE01_SPEC02GEO	20150913T223100	GEO	Basalt	Scott France	
Lat:	Lon:	Depth (m):	Temp:	Sal:	Oxy:
Size Category: Extra Large	WeightInKg	Condition			
Remarks:	Large rock				
Habitat(s):	Rubble		Substrate(s): Bedrock		
Comments:					

Commensal ID	Commensal Identification	Repository	Vial #	Vial Repository
EX1504L4_20150913T223100_D2_DIVE01_SPEC02GEO_C01	Actinaria red			OGL

# Cruise Leg Sampling Report

<b>Cruise ID</b>	<b>Cruise Title</b>	<b>Cruise Start</b>	<b>Cruise End</b>	<b>Vehicle Used</b>
<i>EX1504L4</i>	<i>Hohonu Moana: Exploring the Deep Waters off Hawai`I Leg 4</i>	<i>9/12/2015</i>	<i>9/30/2015</i>	<i>Deep Discoverer</i>

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150914T102000_D2_DIVE01_SPEC03BIO	20150914T102000	BIO	Acanella weberi		
Lat:	Lon:	Depth (m):	Temp:	Sal:	Oxy:
Size Category	WeightInKg	Condition			
Remarks:					
Habitat(s):		Substrate(s):			
Comments:					

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*EX1504L4*   *Hohonu Moana: Exploring the Deep Waters off Hawai'i Leg 4*   *9/12/2015*   *9/30/2015*   *Deep Discoverer*

**Dive ID**                                      **DiveDate**                                      **Dive Site Name**  
**DIVE02**                                      **9/13/2015**                                      **SW Niihau Pinnacle**

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150913T195328_D2_DIVE02_SPEC01GEO	20150913T195328	GEO	Basalt	Scott France	
Lat: 21.81	Lon: -160.29	Depth (m): 567.37	Temp: 6.13	Sal: 34.22	Oxy: 1.7
Size Category: 11 - 50 cm	WeightInKg: 1.4	Condition			
Remarks:	Cube shaped, brown orange oxydized, vesicular surface				
Habitat(s):	Substrate(s):				
Comments:					

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150913T225945_D2_DIVE02_SPEC02BIO	20150913T225945	BIO	Anthoptilum sp.	Scott France	
Lat: 21.81	Lon: -160.29	Depth (m): 418.95	Temp: 7.23	Sal: 34.16	Oxy: 2.23
Size Category: 11 - 50 cm	WeightInKg	Condition: Very good			
Remarks:					
Habitat(s): Carbonate	Substrate(s): Carbonate				
Comments:	Broken during sampling 2/3 up the stalk				

**SubSample:** EX1504L4\_20150913T225945\_D2\_DIVE02\_SPEC02BIO\_S01      **Vial #:** 56      **Sub Sample Repository:** OGL  
**Comment**

# Cruise Leg Sampling Report

**Cruise ID**                                      **Cruise Title**                                      **Cruise Start**   **Cruise End**   **Vehicle Used**  
**EX1504L4**   **Hohonu Moana: Exploring the Deep Waters off Hawai`I Leg 4**   **9/12/2015**   **9/30/2015**   **Deep Discoverer**

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150914T000302_D2_DIVE02_SPEC03BIO	20150914T000302	BIO	Antipatharian fan	Scott France	
Lat: 21.8	Lon: -160.29	Depth (m): 370.82	Temp: 8.35	Sal: 34.12	Oxy: 2.68
Size Category: 51-100 cm	WeightInKg	Condition: Very Good			
Remarks:					
Habitat(s): Carbonate	Substrate(s): Carbonate				
Comments:					

<b>SubSample:</b>	EX1504L4_20150914T000302_D2_DIVE02_SPEC03BIO_S01	<b>Vial #:</b>	57	<b>Sub Sample Repository:</b>	OGL
<b>Comment</b>					

Commensal ID	Commensal Identification	Repository	Vial #	Vial Repository
EX1504L4_20150914T000302_D2_DIVE02_SPEC03BIO_C01	Shrimp		59	OGL

<b>SubSample:</b>	EX1504L4_20150914T000302_D2_DIVE02_SPEC03BIO_S02	<b>Vial #:</b>	58	<b>Sub Sample Repository:</b>	OGL
<b>Comment</b>					

Commensal ID	Commensal Identification	Repository	Vial #	Vial Repository
EX1504L4_20150914T000302_D2_DIVE02_SPEC03BIO_C01	Shrimp		59	OGL

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150914T012838_D2_DIVE02_SPEC04BIO	20150914T012838	BIO	Lepidisis olapa	Scott France	
Lat: 21.8	Lon: -160.28	Depth (m): 327.47	Temp: 9.17	Sal: 34.1	Oxy: 3.82
Size Category:	WeightInKg	Condition:			
Remarks:	Lost from sample box				
Habitat(s):	Substrate(s):				
Comments:					

# Cruise Leg Sampling Report

**Cruise ID**                                      **Cruise Title**                                      **Cruise Start**   **Cruise End**   **Vehicle Used**  
*EX1504L4*    *Hohonu Moana: Exploring the Deep Waters off Hawai'i Leg 4*    *9/12/2015*    *9/30/2015*    *Deep Discoverer*

**Dive ID**                      **DiveDate**                                      **Dive Site Name**  
**DIVE03**                      **9/16/2015**                                      **Karin Seamount East Ridge**

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150916T204822_D2_DIVE03_SPEC01GEO	20150916T204822	GEO	Mn-crusted basalt	Scott France	
Lat: 17.66	Lon: -168.67	Depth (m): 3184.06	Temp: 1.56	Sal: 34.7	Oxy: 3.86
Size Category: < 10 cm	WeightInKg: 0.7	Condition			
Remarks:					
Habitat(s): Pavement-barren			Substrate(s): Mn-Encrusted Basalt		
Comments:					

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150916T220116_D2_DIVE03_SPEC02GEO	20150916T220116	GEO	Mn-crusted basalt	Scott France	
Lat: 17.66	Lon: -168.67	Depth (m): 3162.12	Temp: 1.57	Sal: 34.67	Oxy: 3.82
Size Category: 11 - 50 cm	WeightInKg: 1.8	Condition			
Remarks:					
Habitat(s): Pavement-barren			Substrate(s): Mn-Encrusted Basalt		
Comments:					

# Cruise Leg Sampling Report

**Cruise ID**                                      **Cruise Title**                                      **Cruise Start**   **Cruise End**   **Vehicle Used**  
**EX1504L4**   **Hohonu Moana: Exploring the Deep Waters off Hawai'i Leg 4**   **9/12/2015**   **9/30/2015**   **Deep Discoverer**

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150916T232107_D2_DIVE03_SPEC03BIO	20150916T232107	BIO	Demospongiae	Scott France	
Lat: 17.66	Lon: -168.68	Depth (m): 3106	Temp: 1.56	Sal: 34.67	Oxy: 3.81
Size Category: 11 - 50 cm	WeightInKg	Condition: Alive			
Remarks:	Viewed a stand of dozen of same morph earlier in the dive. Flexible stalk, bent over in current. Cf Pyloderma sp.				
Habitat(s):	Pavement-barren		Substrate(s):		
Comments:	Collected at high-point in dive transect.				

SubSample:	EX1504L4_20150916T232107_D2_DIVE03_SPEC03BIO_S01	Vial #:	60	Sub Sample Repository:	OGL
Comment					

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150917T004328_D2_DIVE03_SPEC04GEO	20150917T004328	GEO	Mn-crusted basalt	Scott France	
Lat: 17.66	Lon: -168.68	Depth (m): 3049.22	Temp: 1.54	Sal: 34.67	Oxy: 3.84
Size Category: 11 - 50 cm	WeightInKg: 7.5	Condition			
Remarks:					
Habitat(s):	Pavement-barren		Substrate(s): Mn-Encrusted Basalt		
Comments:					

Commensal ID	Commensal Identification	Repository	Vial #	Vial Repository
EX1504L4_20150917T004328_D2_DIVE03_SPEC04GEO_C01	Ophiuroidea white		61	OGL

# Cruise Leg Sampling Report

**Cruise ID**                                      **Cruise Title**                                      **Cruise Start**   **Cruise End**   **Vehicle Used**  
*EX1504L4*    *Hohonu Moana: Exploring the Deep Waters off Hawai'i Leg 4*    *9/12/2015*    *9/30/2015*    *Deep Discoverer*

**Dive ID**                      **DiveDate**                                      **Dive Site Name**  
**DIVE04**                      **9/18/2015**                                      **Johnston Atoll**

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150918T014646_D2_DIVE04_SPEC01BIO	20150918T014646	BIO	Walteria sp.		
Lat: 16.66183	Lon: -169.35	Depth (m): 1316.987	Temp: 3.42915	Sal: 34.55937	Oxy: 1.63841
Size Category: 11 - 50 cm	WeightInKg	Condition: Preserved			
Remarks:					
Habitat(s): Pavement-barren	Substrate(s): Bedrock				
Comments:					

**SubSample:** EX1504L4\_20150919T014646\_D2\_DIVE04\_SPEC01BIO\_S01    **Vial #:** 62    **Sub Sample Repository:** OGL  
**Comment**

Commensal ID	Commensal Identification	Repository	Vial #	Vial Repository
EX1504L4_20150918T014646_D2_DIVE04_SPEC01BIO_C01	Platyctenidae		63	OGL
Commensal ID	Commensal Identification	Repository	Vial #	Vial Repository
EX1504L4_20150918T014646_D2_DIVE04_SPEC01BIO_C02	Polynoidae		64	OGL

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150918T021614_D2_DIVE04_SPEC02GEO	20150918T021614	GEO	Carbonate	Scott France	
Lat: 16.66234	Lon: -169.35	Depth (m): 1269.795	Temp: 3.53897	Sal: 34.56481	Oxy: 1.6177
Size Category: 11 - 50 cm	WeightInKg: 3.2	Condition			
Remarks: Carbonate Rock					
Habitat(s):	Substrate(s):				
Comments:					

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**Cruise ID**                                      **Cruise Title**                                      **Cruise Start**   **Cruise End**   **Vehicle Used**  
*EX1504L4*   *Hohonu Moana: Exploring the Deep Waters off Hawai'i Leg 4*   *9/12/2015*   *9/30/2015*   *Deep Discoverer*

**Dive ID**                      **DiveDate**                                      **Dive Site Name**  
**DIVE05**                      **9/18/2015**                                      **Johnston Seamounts- Deep Twin Ridge**

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150918T200955_D2_DIVE05_SPEC01GEO	20150918T200955	GEO	Mn-encrusted basalt	Scott France	
Lat: 15.63	Lon: -169.49	Depth (m): 2429.32	Temp: 1.81	Sal: 34.66	Oxy: 3.48
Size Category: 51-100 cm	WeightInKg: 4.9	Condition			
Remarks: Red clay deposit on rock					
Habitat(s):			Substrate(s):		
Comments:					

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150918T213300_D2_DIVE05_SPEC04BIO	20150918T213300	BIO	Demospongiae		
Lat: 15.63	Lon: -169.49	Depth (m): 2378.43	Temp: 1.89	Sal: 34.65	Oxy: 3.32
Size Category: < 10 cm	WeightInKg	Condition: Good			
Remarks: Unknown sponge growing on rock with the sampled black coral cf Echinostylinos sp.					
Habitat(s):			Substrate(s):		
Comments:					

<b>SubSample:</b>	EX1504L4_20150918T213300_D2_DIVE05_SPEC04BIO_S01	<b>Vial #:</b>		<b>Sub Sample Repository:</b>	
<b>Comment</b>					

Commensal ID	Commensal Identification	Repository	Vial #	Vial Repository
EX1504L4_20150918T213300_D2_DIVE05_SPEC04BIO_C01				OGL



# Cruise Leg Sampling Report

**Cruise ID**                                      **Cruise Title**                                      **Cruise Start**   **Cruise End**   **Vehicle Used**  
**EX1504L4**   **Hohonu Moana: Exploring the Deep Waters off Hawai`I Leg 4**   **9/12/2015**   **9/30/2015**   **Deep Discoverer**

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150918T213321_D2_DIVE05_SPEC02BIO	20150918T213321	BIO	Heteropathes sp.	Scott France	
Lat: 15.63	Lon: -169.49	Depth (m): 2378.43	Temp: 1.89	Sal: 34.65	Oxy: 3.32
Size Category: 11 - 50 cm	WeightInKg	Condition			
Remarks:					
Habitat(s): Rubble			Substrate(s): Mn-Encrusted Basalt		
Comments:					

SubSample: EX1504L4_20150918T213321_D2_DIVE05_SPEC02BIO_S01	Vial #: 65	Sub Sample Repository: OGL
Comment		

Commensal ID	Commensal Identification	Repository	Vial #	Vial Repository
EX1504L4_20150918T213321_D2_DIVE05_SPEC02BIO_C02				OGL

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150918T220456_D2_DIVE05_SPEC03GEO	20150918T220456	GEO	Mn encrusted basalt	Scott France	
Lat: 15.64	Lon: -169.49	Depth (m): 2356.96	Temp: 1.9	Sal: 34.65	Oxy: 3.3
Size Category: 11 - 50 cm	WeightInKg: 10.5	Condition			
Remarks:					
Habitat(s):			Substrate(s):		
Comments:					

# Cruise Leg Sampling Report

<b>Cruise ID</b>	<b>Cruise Title</b>	<b>Cruise Start</b>	<b>Cruise End</b>	<b>Vehicle Used</b>
EX1504L4	Hohonu Moana: Exploring the Deep Waters off Hawai'i Leg 4	9/12/2015	9/30/2015	Deep Discoverer

<b>Dive ID</b>	<b>DiveDate</b>	<b>Dive Site Name</b>
DIVE06	9/20/2015	Two Cones

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150919T200939_D2_DIVE06_SPEC01GEO	20150919T200939	GEO	Mn-encrusted Basalt	Scott France	
Lat: 15.47	Lon: -169.07	Depth (m): 1671.94	Temp: 2.67	Sal: 34.6	Oxy: 2.54
Size Category: 11 - 50 cm	WeightInKg: 5.8	Condition			
Remarks:					
Habitat(s):			Substrate(s):		
Comments:					

Commensal ID	Commensal Identification	Repository	Vial #	Vial Repository
EX1504L4_20150919T200939_D2_DIVE06_SPEC01GEO_C01				OGL

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150919T221151_D2_DIVE06_SPEC02GEO	20150919T221151	GEO	Mn-encrusted basalt	Scott France	
Lat: 15.47	Lon: -169.07	Depth (m): 1529.99	Temp: 3.01	Sal: 34.59	Oxy: 2.29
Size Category: 11 - 50 cm	WeightInKg: 5.4	Condition			
Remarks:					
Habitat(s):			Substrate(s):		
Comments:					

# Cruise Leg Sampling Report

<b>Cruise ID</b>	<b>Cruise Title</b>	<b>Cruise Start</b>	<b>Cruise End</b>	<b>Vehicle Used</b>
EX1504L4	Hohonu Moana: Exploring the Deep Waters off Hawai'i Leg 4	9/12/2015	9/30/2015	Deep Discoverer

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150919T223721_D2_DIVE06_SPEC03BIO	20150919T223721	BIO	Umbellapathes sp.	Scott France	
Lat: 15.47	Lon: -169.07	Depth (m): 1528.62	Temp: 3.03	Sal: 34.59	Oxy: 2.25
Size Category: 51-100 cm	WeightInKg	Condition: Good			
Remarks:					
Habitat(s): Rubble	Substrate(s): Mn-Encrusted Basalt				
Comments:					

SubSample: EX1504L4_20150919T223721_D2_DIVE06_SPEC03BIO_S01	Vial #: 66	Sub Sample Repository: OGL
Comment		

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150920T005409_D2_DIVE06_SPEC04GEO	20150920T005409	GEO	Mn-encrusted basalt	Scott France	
Lat: 15.46	Lon: -169.08	Depth (m): 1508.02	Temp: 2.74	Sal: 34.6	Oxy: 2.44
Size Category: 11 - 50 cm	WeightInKg	Condition			
Remarks:					
Habitat(s):	Substrate(s):				
Comments:					

# Cruise Leg Sampling Report

<i>Cruise ID</i>	<i>Cruise Title</i>	<i>Cruise Start</i>	<i>Cruise End</i>	<i>Vehicle Used</i>
<i>EX1504L4</i>	<i>Hohonu Moana: Exploring the Deep Waters off Hawai`I Leg 4</i>	<i>9/12/2015</i>	<i>9/30/2015</i>	<i>Deep Discoverer</i>

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150920T005409_D2_DIVE06_SPEC05GEO	20150920T005400	GEO	Mn-crusted basalt		
Lat: 15.46	Lon: -169.08	Depth (m): 1508.02	Temp: 2.74	Sal: 34.6	Oxy: 2.44
Size Category: < 10 cm	WeightInKg: 0.1	Condition			
Remarks:	Found in starboard rock box, may be part of SPEC04				
Habitat(s):	Substrate(s):				
Comments:					

# Cruise Leg Sampling Report

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EX1504L4	Hohonu Moana: Exploring the Deep Waters off Hawai'i Leg 4	9/12/2015	9/30/2015	Deep Discoverer

<b>Dive ID</b>	<b>DiveDate</b>	<b>Dive Site Name</b>
DIVE07	9/20/2015	Southern-most Cones

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150920T204336_D2_DIVE07_SPEC01BIO	20150920T204336	BIO	Hyocrinidae	Scott France	
Lat: 15.21	Lon: -168.06	Depth (m): 1894.39	Temp: 2.32	Sal: 34.63	Oxy: 2.77
Size Category: 11 - 50 cm	WeightInKg	Condition			
Remarks:	Substrate(s):				
Habitat(s):	Substrate(s):				
Comments:	Substrate(s):				

<b>SubSample:</b>	EX1504L4_20150920T204336_D2_DIVE07_SPEC01BIO_S01	<b>Vial #:</b>	67	<b>Sub Sample Repository:</b>	OGL
<b>Comment</b>					

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150920T210406_D2_DIVE07_SPEC02GEO	20150920T210406	GEO	Mn-encrusted basalt	Scott France	
Lat: 15.21	Lon: -168.06	Depth (m): 1893.92	Temp: 2.31	Sal: 34.63	Oxy: 2.79
Size Category: 11 - 50 cm	WeightInKg	6.5	Condition		
Remarks:	Substrate(s):				
Habitat(s):	Substrate(s):				
Comments:	Substrate(s):				

# Cruise Leg Sampling Report

<b>Cruise ID</b>	<b>Cruise Title</b>	<b>Cruise Start</b>	<b>Cruise End</b>	<b>Vehicle Used</b>
EX1504L4	Hohonu Moana: Exploring the Deep Waters off Hawai'i Leg 4	9/12/2015	9/30/2015	Deep Discoverer

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150920T221401_D2_DIVE07_SPEC03GEO	20150920T221401	GEO	Mn-encrusted basalt	Scott France	
Lat: 15.21	Lon: -168.06	Depth (m): 1843.43	Temp: 2.34	Sal: 34.62	Oxy: 2.76
Size Category	WeightInKg	Condition			
Remarks:					
Habitat(s):			Substrate(s):		
Comments:					

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150920T235711_D2_DIVE07_SPEC04BIO	20150920T235711	BIO	Lepidisis sp.	Scott France	
Lat: 15.21	Lon: -168.06	Depth (m): 1744.66	Temp: 2.6	Sal: 34.61	Oxy: 2.51
Size Category	101-200 cm	WeightInKg	Condition	Good	
Remarks:					
Habitat(s):			Substrate(s):		
Comments:					

<b>SubSample:</b>	EX1504L4_20150920T235711_D2_DIVE07_SPEC04BIO_S01	<b>Vial #:</b>	68	<b>Sub Sample Repository:</b>	OGL
<b>Comment</b>					

Commensal ID	Commensal Identification	Repository	Vial #	Vial Repository
EX1504L4_20150920T235711_D2_DIVE07_SPEC04BIO_C01	Chyrostylidae		69	OGL

# Cruise Leg Sampling Report

<i>Cruise ID</i>	<i>Cruise Title</i>	<i>Cruise Start</i>	<i>Cruise End</i>	<i>Vehicle Used</i>
<i>EX1504L4</i>	<i>Hohonu Moana: Exploring the Deep Waters off Hawai`I Leg 4</i>	<i>9/12/2015</i>	<i>9/30/2015</i>	<i>Deep Discoverer</i>

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150921T010732_D2_DIVE07_SPEC05GEO	20150921T010732	GEO	Mn-encrusted basalt	Scott France	
Lat: 15.2	Lon: -168.06	Depth (m): 1747.09	Temp: 2.53	Sal: 34.61	Oxy: 2.55
Size Category	11 - 50 cm	WeightInKg	2.45	Condition	
Remarks:	Broken during transport to surface				
Habitat(s):	Substrate(s):				
Comments:					

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<b>Cruise ID</b>	<b>Cruise Title</b>	<b>Cruise Start</b>	<b>Cruise End</b>	<b>Vehicle Used</b>
EX1504L4	Hohonu Moana: Exploring the Deep Waters off Hawai'i Leg 4	9/12/2015	9/30/2015	Deep Discoverer

<b>Dive ID</b>	<b>DiveDate</b>	<b>Dive Site Name</b>
DIVE08	9/21/2015	Lone Cone

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150921T202731_D2_DIVE08_SPEC01BIO	20150921T202731	BIO	Naumachocrinus sp.	Scott France	
Lat: 15.59	Lon: -167.75	Depth (m): 2083.53	Temp: 2.2	Sal: 34.62	Oxy: 2.92
Size Category: 11 - 50 cm	WeightInKg	Condition			
Remarks:					
Habitat(s): Soft Substrate/Rubble/Rock			Substrate(s): Coarse Sand		
Comments:					

<b>SubSample:</b>	EX1504L4_20150921T202731_D2_DIVE08_SPEC01BIO_S01	<b>Vial #:</b>	70	<b>Sub Sample Repository:</b>	OGL
<b>Comment</b>					

Commensal ID	Commensal Identification	Repository	Vial #	Vial Repository
EX1504L4_20150921T202731_D2_DIVE08_SPEC01BIO_C01				OGL

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150921T204528_D2_DIVE08_SPEC02GEO	20150921T204528	GEO	Mn-encrusted basalt	Scott France	
Lat: 15.59	Lon: -167.75	Depth (m): 2074.5	Temp: 2.18	Sal: 34.63	Oxy: 2.92
Size Category: 11 - 50 cm	WeightInKg: 6.9	Condition			
Remarks:					
Habitat(s):			Substrate(s):		
Comments:					



# Cruise Leg Sampling Report

**Cruise ID**                                      **Cruise Title**                                      **Cruise Start**   **Cruise End**   **Vehicle Used**  
**EX1504L4**   **Hohonu Moana: Exploring the Deep Waters off Hawai'i Leg 4**   **9/12/2015**   **9/30/2015**   **Deep Discoverer**

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150921T225230_D2_DIVE08_SPEC03BIO	20150921T225230	BIO	Crateromorpha sp.	Scott France	
Lat: 15.59	Lon: -167.75	Depth (m): 1922.97	Temp: 2.31	Sal: 34.63	Oxy: 2.74
Size Category: 51-100 cm	WeightInKg	Condition			
Remarks:	Small disk-like holdfast, imaged but not taken.				
Habitat(s): Rubble	Substrate(s): Mn-Encrusted Basalt				
Comments:					

SubSample:	EX1504L4_20150921T225230_D2_DIVE08_SPEC03BIO_S01	Vial #:	71	Sub Sample Repository:	OGL
Comment					

Commensal ID	Commensal Identification	Repository	Vial #	Vial Repository
EX1504L4_20150921T225230_D2_DIVE08_SPEC03BIO_C01	Platyctenidae		72	OGL

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150921T234946_D2_DIVE08_SPEC04GEO	20150921T234946	GEO	Mn-encrusted basalt	Scott France	
Lat: 15.59	Lon: -167.75	Depth (m): 1832.53	Temp: 2.37	Sal: 34.62	Oxy: 2.68
Size Category: 11 - 50 cm	WeightInKg	Condition			
Remarks:					
Habitat(s):	Substrate(s):				
Comments:					

Commensal ID	Commensal Identification	Repository	Vial #	Vial Repository
EX1504L4_20150921T234946_D2_DIVE08_SPEC04GEO_C01	Sponge			OGL

Commensal ID	Commensal Identification	Repository	Vial #	Vial Repository
EX1504L4_20150921T234946_D2_DIVE08_SPEC04GEO_C02	Ophiuroidea			OGL

# Cruise Leg Sampling Report

<b>Cruise ID</b>	<b>Cruise Title</b>	<b>Cruise Start</b>	<b>Cruise End</b>	<b>Vehicle Used</b>
EX1504L4	Hohonu Moana: Exploring the Deep Waters off Hawai'i Leg 4	9/12/2015	9/30/2015	Deep Discoverer

<b>Dive ID</b>	<b>DiveDate</b>	<b>Dive Site Name</b>
DIVE09	9/22/2015	South Karin Ridge

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150922T203849_D2_DIVE09_SPEC01GEO	20150922T203849	GEO	Mn-encrusted basalt	Scott France	
Lat: 16.14	Lon: -167.86	Depth (m): 1969.31	Temp: 2.07	Sal: 34.64	Oxy: 3.04
Size Category: 11 - 50 cm	WeightInKg: 3.5	Condition			
Remarks:					
Habitat(s):			Substrate(s):		
Comments:					

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150922T231725_D2_DIVE09_SPEC02BIO	20150922T231725	BIO	Primnoidae unbranched	Scott France	
Lat: 16.14	Lon: -167.85	Depth (m): 1944.48	Temp: 2.08	Sal: 34.64	Oxy: 3.01
Size Category: 11 - 50 cm	WeightInKg:	Condition			
Remarks:					
Habitat(s): Pavement-with attached fauna			Substrate(s): Mn-Encrusted Basalt		
Comments:					

# Cruise Leg Sampling Report

**Cruise ID** *EX1504L4*      **Cruise Title** *Hohonu Moana: Exploring the Deep Waters off Hawai'i Leg 4*      **Cruise Start** *9/12/2015*      **Cruise End** *9/30/2015*      **Vehicle Used** *Deep Discoverer*

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150922T234004_D2_DIVE09_SPEC03BIO	20150922T234004	BIO	Stelodoryx sp.	Scott France	
Lat: 16.14	Lon: -167.85	Depth (m): 1938.65	Temp: 2.09	Sal: 34.65	Oxy: 3.02
Size Category: 11 - 50 cm	WeightInKg	Condition			
Remarks:					
Habitat(s): Pavement-with attached fauna			Substrate(s): Mn-Encrusted Basalt		
Comments:					

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150922T235210_D2_DIVE09_SPEC04BIO	20150922T235210	BIO	Narella sp.	Scott France	
Lat: 16.14	Lon: -167.85	Depth (m): 1931.81	Temp: 2.25	Sal: 34.63	Oxy: 2.83
Size Category: 101-200 cm	WeightInKg	Condition: Good			
Remarks:					
Habitat(s): Pavement-with attached fauna			Substrate(s): Mn-Encrusted Basalt		
Comments:					

<b>SubSample:</b>	EX1504L4_20150922T235210_D2_DIVE09_SPEC04BIO_S01	<b>Vial #:</b>	73	<b>Sub Sample Repository:</b>	OGL
<b>Comment</b>					

Commensal ID	Commensal Identification	Repository	Vial #	Vial Repository
EX1504L4_20150922T235210_D2_DIVE09_SPEC04BIO_C01	Polynoidae			OGL

# Cruise Leg Sampling Report

<b>Cruise ID</b>	<b>Cruise Title</b>	<b>Cruise Start</b>	<b>Cruise End</b>	<b>Vehicle Used</b>
EX1504L4	Hohonu Moana: Exploring the Deep Waters off Hawai'i Leg 4	9/12/2015	9/30/2015	Deep Discoverer

<b>Specimen ID</b>	<b>Collection Time</b>	<b>Type</b>	<b>Scientific Name</b>	<b>Identified By:</b>	<b>Repository</b>						
EX1504L4_20150923T003720_D2_DIVE09_SPEC05GEO	20150923T003720	GEO	Mn-encrusted basalt	Scott France							
<b>Lat:</b>	16.14	<b>Lon:</b>	-167.85	<b>Depth (m):</b>	1929.28	<b>Temp:</b>	2.27	<b>Sal:</b>	34.63	<b>Oxy:</b>	2.8
<b>Size Category</b>	11 - 50 cm	<b>WeightInKg</b>	13	<b>Condition</b>							
<b>Remarks:</b>											
<b>Habitat(s):</b>						<b>Substrate(s):</b>					
<b>Comments:</b>											

<b>Commensal ID</b>	<b>Commensal Identification</b>	<b>Repository</b>	<b>Vial #</b>	<b>Vial Repository</b>
EX1504L4_20150923T003720_D2_DIVE09_SPEC05GEO_C01	Demospongiae			OGL

# Cruise Leg Sampling Report

<b>Cruise ID</b>	<b>Cruise Title</b>	<b>Cruise Start</b>	<b>Cruise End</b>	<b>Vehicle Used</b>
EX1504L4	Hohonu Moana: Exploring the Deep Waters off Hawai'i Leg 4	9/12/2015	9/30/2015	Deep Discoverer

<b>Dive ID</b>	<b>DiveDate</b>	<b>Dive Site Name</b>
DIVE10	9/23/2015	Mid Karin Ridge

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150923T203538_D2_DIVE10_SPEC01GEO	20150923T203538	GEO	Basalt	Scott France	
Lat: 16.54	Lon: -168.21	Depth (m): 2324.08	Temp: 2.03	Sal: 34.64	Oxy: 3.11
Size Category: 11 - 50 cm	WeightInKg: 8.4	Condition			
Remarks: Pillow fragment					
Habitat(s):			Substrate(s):		
Comments:					

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150923T223400_D2_DIVE10_SPEC02BIO	20150923T223400	BIO	Orstomisis sp.	Scott France	
Lat: 16.54	Lon: -168.21	Depth (m): 2254.85	Temp: 2.1	Sal: 34.63	Oxy: 3.01
Size Category: 101-200 cm	WeightInKg	Condition			
Remarks:					
Habitat(s): Pavement-with attached fauna			Substrate(s): Mn-Encrusted Basalt		
Comments:					

SubSample:	EX1504L4_20150923T223400_D2_DIVE10_SPEC02BIO_S01	Vial #:	76	Sub Sample Repository:	OGL
Comment					

# Cruise Leg Sampling Report

<b>Cruise ID</b>	<b>Cruise Title</b>	<b>Cruise Start</b>	<b>Cruise End</b>	<b>Vehicle Used</b>
EX1504L4	Hohonu Moana: Exploring the Deep Waters off Hawai'i Leg 4	9/12/2015	9/30/2015	Deep Discoverer

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150924T003615_D2_DIVE10_SPEC03BIO	20150924T003615	BIO	Isididae branched	Scott France	
Lat: 16.54	Lon: -168.21	Depth (m): 2153.19	Temp: 1.92	Sal: 34.64	Oxy: 3.23
Size Category: 51-100 cm	WeightInKg	Condition			
Remarks:	Unknown bumps between polyps, potentially dactylozoids.				
Habitat(s):	Substrate(s):				
Comments:					
SubSample:	EX1504L4_20150924T003615_D2_DIVE10_SPEC03BIO_S01	Vial #:	77	Sub Sample Repository:	OGL
Comment					

Commensal ID	Commensal Identification	Repository	Vial #	Vial Repository
EX1504L4_20150924T003615_D2_DIVE10_SPEC03BIO_C01	Actiniaria		78	OGL

# Cruise Leg Sampling Report

<b>Cruise ID</b>	<b>Cruise Title</b>	<b>Cruise Start</b>	<b>Cruise End</b>	<b>Vehicle Used</b>
EX1504L4	Hohonu Moana: Exploring the Deep Waters off Hawai'i Leg 4	9/12/2015	9/30/2015	Deep Discoverer

<b>Dive ID</b>	<b>DiveDate</b>	<b>Dive Site Name</b>
DIVE11	9/24/2015	Karin Ridge Top

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150924T194238_D2_DIVE11_SPEC01GEO	20150924T194238	GEO	Mn-encrusted basalt	Scott France	
Lat: 17.5	Lon: -168.74	Depth (m): 2168.45	Temp: 1.88	Sal: 34.65	Oxy: 3.32
Size Category: 11 - 50 cm	WeightInKg: 2.5	Condition			
Remarks:					
Habitat(s):			Substrate(s):		
Comments:					

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150924T214653_D2_DIVE11_SPEC02GEO	20150924T214653	GEO	Basalt	Scott France	
Lat: 17.5	Lon: -168.74	Depth (m): 2106.37	Temp: 2.11	Sal: 34.63	Oxy: 2.97
Size Category: 11 - 50 cm	WeightInKg: 7.7	Condition			
Remarks:					
Habitat(s):			Substrate(s):		
Comments:					

# Cruise Leg Sampling Report

**Cruise ID**                                      **Cruise Title**                                      **Cruise Start**   **Cruise End**   **Vehicle Used**  
*EX1504L4*    *Hohonu Moana: Exploring the Deep Waters off Hawai'i Leg 4*    *9/12/2015*    *9/30/2015*    *Deep Discoverer*

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150924T222851_D2_DIVE11_SPEC03BIO	20150924T222851	BIO	Periphragella sp.	Scott France	
Lat: 17.5	Lon: -168.74	Depth (m): 2084.21	Temp: 2.05	Sal: 34.64	Oxy: 3.02
Size Category: 11 - 50 cm	WeightInKg	Condition			
Remarks:	Another sponge growing on specimen.				
Habitat(s):	Soft Substrate/Rubble/Rock		Substrate(s): Mn-Encrusted Basalt		
Comments:					

SubSample:	EX1504L4_20150924T222851_D2_DIVE11_SPEC03BIO_S01	Vial #:	79	Sub Sample Repository:	OGL
Comment					

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150925T010032_D2_DIVE11_SPEC04BIO	20150925T010032	BIO	Lepidisis sp.	Scott France	
Lat: 17.5	Lon: -168.74	Depth (m): 2063.74	Temp: 1.98	Sal: 34.64	Oxy: 3.1
Size Category: 11 - 50 cm	WeightInKg	Condition			
Remarks:					
Habitat(s):	Rock/Ledges		Substrate(s): Mn-Encrusted Basalt		
Comments:					

SubSample:	EX1504L4_20150925T010032_D2_DIVE11_SPEC04BIO_S01	Vial #:	80	Sub Sample Repository:	OGL
Comment					



# Cruise Leg Sampling Report

<i>Cruise ID</i>	<i>Cruise Title</i>	<i>Cruise Start</i>	<i>Cruise End</i>	<i>Vehicle Used</i>
EX1504L4	Hohonu Moana: Exploring the Deep Waters off Hawai'i Leg 4	9/12/2015	9/30/2015	Deep Discoverer

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150925T012012_D2_DIVE11_SPEC05BIO	20150925T012012	BIO	Eknomisis sp.	Scott France	
Lat: 17.5	Lon: -168.74	Depth (m): 2061.54	Temp: 1.95	Sal: 34.64	Oxy: 3.16
Size Category: 51-100 cm	WeightInKg	Condition			
Remarks:					
Habitat(s): Rock/Ledges	Substrate(s): Mn-Encrusted Basalt				
Comments:					

SubSample: EX1504L4_20150925T012012_D2_DIVE11_SPEC05BIO_S01	Vial #: 81	Sub Sample Repository:
Comment		

# Cruise Leg Sampling Report

**Cruise ID**                                      **Cruise Title**                                      **Cruise Start**   **Cruise End**   **Vehicle Used**  
 EX1504L4   *Hohonu Moana: Exploring the Deep Waters off Hawai'i Leg 4*   9/12/2015   9/30/2015   Deep Discoverer

**Dive ID**                      **DiveDate**                                      **Dive Site Name**  
 DIVE12                      9/25/2015                                      Abyssal Ridge

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150925T205256_D2_DIVE12_SPEC01GEO	20150925T205256	GEO	Mn-encrusted basalt	Scott France	
Lat: 17.61      Lon: -169.64	Depth (m): 4238.06	Temp: 1.46	Sal: 34.69	Oxy: 4.49	
Size Category: < 10 cm	WeightInKg: 0.45	Condition			
Remarks:	Two rocks were collected with SPEC02BIO. The first rock (SPEC01GEO) and the second rock (SPEC02BIO_C01) that was connected to SPEC02BIO. In situ images and video are named SPEC02BIO.				
Habitat(s):	Substrate(s):				
Comments:					

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150925T205505_D2_DIVE12_SPEC02BIO	20150925T205505	BIO	Candelabridae	Scott France	
Lat: 17.61      Lon: -169.65	Depth (m): 4237.59	Temp: 1.45	Sal: 34.69	Oxy: 4.47	
Size Category: < 10 cm	WeightInKg	Condition			
Remarks:	Sampled w/ attached rock. Inflated and extended on collection.				
Habitat(s): Pavement-barren	Substrate(s): Mn-Encrusted Basalt				
Comments:					

**SubSample:** EX1504L4\_20150925T205505\_D2\_DIVE12\_SPEC02BIO\_S01      **Vial #:** 83      **Sub Sample Repository:** OGL  
**Comment**

Commensal ID	Commensal Identification	Repository	Vial #	Vial Repository
EX1504L4_20150925T205505_D2_DIVE12_SPEC02BIO_C01	Mn-crusted basalt			OGL

# Cruise Leg Sampling Report

**Cruise ID**                                      **Cruise Title**                                      **Cruise Start**   **Cruise End**   **Vehicle Used**  
**EX1504L4**   **Hohonu Moana: Exploring the Deep Waters off Hawai'i Leg 4**   **9/12/2015**   **9/30/2015**   **Deep Discoverer**

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150925T213430_D2_DIVE12_SPEC03BIO	20150925T213430	BIO	Hyalonema (Corynonema) sp.	Scott France	
Lat: 17.61	Lon: -169.64	Depth (m): 4232.54	Temp: 1.45	Sal: 34.69	Oxy: 4.54
Size Category: < 10 cm	WeightInKg	Condition			
Remarks:	Spongy				
Habitat(s):	Pavement-barren	Substrate(s):	Mn-Encrusted Basalt		
Comments:					

SubSample:	EX1504L4_20150925T213430_D2_DIVE12_SPEC03BIO_S01	Vial #:	82	Sub Sample Repository:	OGL
Comment					

Commensal ID	Commensal Identification	Repository	Vial #	Vial Repository
EX1504L4_20150925T213430_D2_DIVE12_SPEC03BIO_C01				OGL

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150925T235114_D2_DIVE12_SPEC04GEO	20150925T235114	GEO	Basalt	Scott France	
Lat: 17.61	Lon: -169.64	Depth (m): 4096.58	Temp: 1.46	Sal: 34.69	Oxy: 4.37
Size Category: 11 - 50 cm	WeightInKg	15.1	Condition		
Remarks:					
Habitat(s):	Substrate(s):				
Comments:					

# Cruise Leg Sampling Report

<b>Cruise ID</b>	<b>Cruise Title</b>	<b>Cruise Start</b>	<b>Cruise End</b>	<b>Vehicle Used</b>
EX1504L4	Hohonu Moana: Exploring the Deep Waters off Hawai'i Leg 4	9/12/2015	9/30/2015	Deep Discoverer

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150926T011422_D2_DIVE12_SPEC05BIO	20150926T011422	GEO	Hyalonema (Corynonema) sp.	Scott France	
Lat: 17.61	Lon: -169.64	Depth (m): 4059.62	Temp: 1.45	Sal: 34.7	Oxy: 4.34
Size Category: < 10 cm	WeightInKg	Condition			
Remarks:	Habitat(s):				
Comments:	Substrate(s):				

SubSample:	EX1504L4_20150926T011422_D2_DIVE12_SPEC05BIO_S01	Vial #:	84	Sub Sample Repository:	OGL
Comment					

Commensal ID	Commensal Identification	Repository	Vial #	Vial Repository
EX1504L4_20150926T011422_D2_DIVE12_SPEC05BIO_C01	Mn-encrusted sediment			OGL

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150926T014011_D2_DIVE12_SPEC06GEO	20150926T014011	GEO	Mn-encrusted basalt	Scott France	
Lat: 17.61	Lon: -169.64	Depth (m): 4062.33	Temp: 1.47	Sal: 34.69	Oxy: 4.27
Size Category: 11 - 50 cm	WeightInKg: 1.9	Condition			
Remarks:	Habitat(s):				
Comments:	Substrate(s):				

# Cruise Leg Sampling Report

**Cruise ID**                                      **Cruise Title**                                      **Cruise Start**   **Cruise End**   **Vehicle Used**  
*EX1504L4*   *Hohonu Moana: Exploring the Deep Waters off Hawai'i Leg 4*   *9/12/2015*   *9/30/2015*   *Deep Discoverer*

**Dive ID**                      **DiveDate**                                      **Dive Site Name**  
**DIVE13**                      **9/26/2015**                                      **Guyot Ridge (NW Karin Plateau)**

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150926T211815_D2_DIVE13_SPEC01GEO	20150926T211815	GEO	Mn-encrusted basalt	Scott France	
Lat: 18.12	Lon: -169	Depth (m): 2104.05	Temp: 1.86	Sal: 34.65	Oxy: 3.28
Size Category: 11 - 50 cm	WeightInKg: 4.4	Condition			
Remarks:					
Habitat(s):			Substrate(s):		
Comments:					

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150926T231823_D2_DIVE13_SPEC02GEO	20150926T231823	GEO	Mn-encrusted basalt	Scott France	
Lat: 18.12	Lon: -169	Depth (m): 1971.51	Temp: 2.14	Sal: 34.63	Oxy: 2.89
Size Category: 11 - 50 cm	WeightInKg: 5.8	Condition			
Remarks:					
Habitat(s):			Substrate(s):		
Comments:					

# Cruise Leg Sampling Report

<i>Cruise ID</i>	<i>Cruise Title</i>	<i>Cruise Start</i>	<i>Cruise End</i>	<i>Vehicle Used</i>
EX1504L4	Hohonu Moana: Exploring the Deep Waters off Hawai'i Leg 4	9/12/2015	9/30/2015	Deep Discoverer

Specimen ID	Collection Time	Type	Scientific Name	Identified By:	Repository
EX1504L4_20150927T002243_D2_DIVE13_SPEC03BIO	20150927T002243	BIO	Chrysogorgia sp.	Scott France	
Lat: 18.12	Lon: -169	Depth (m): 1882.44	Temp: 2.08	Sal: 34.63	Oxy: 2.91
Size Category: < 10 cm	WeightInKg	Condition			
Remarks:					
Habitat(s): Rock/Ledges	Substrate(s): Mn-Encrusted Basalt				
Comments:					

SubSample:	EX1504L4_20150927T002243_D2_DIVE13_SPEC03BIO_S01	Vial #:	85	Sub Sample Repository:	OGL
Comment					