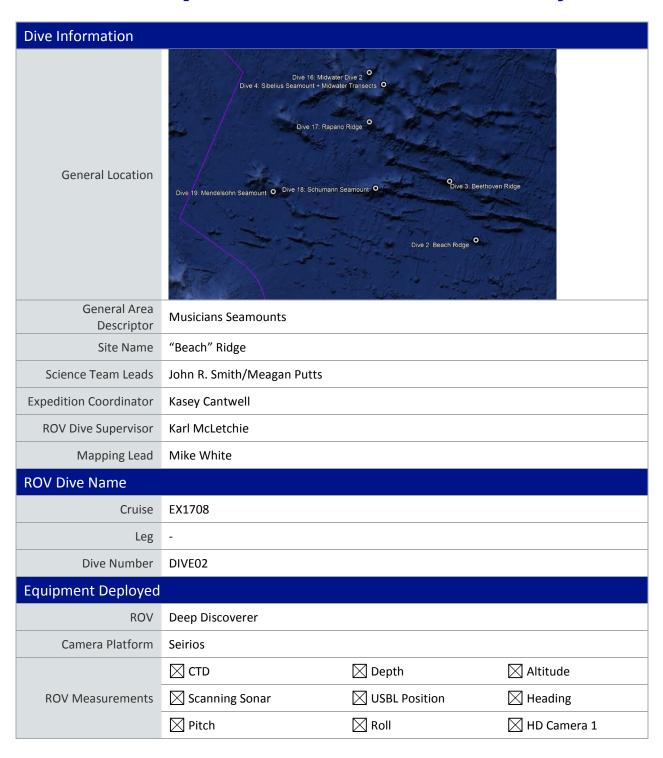


Okeanos Explorer ROV Dive Summary



	⊠ HD Camera 2	🔀 Low Res Cam	1 \(\sum \) Low Res Cam 2
		3 \(\sum \text{Low Res Cam} \)	4 \(\sum \) Low Res Cam 5
Equipment Malfunctions			
		ımmary: EX1708_DIVE02	۸۸۸۸۸۸۸۸
ROV Dive Summary (from processed ROV data)	In Water: 2017-09-08T18:50:58.7 25°, 33.209' N; 158°, 1		09000
	Out Water:	2017-09-09T02:30:02.4 N/A ; N/A	36000
	Off Bottom:	2017-09-09T00:46:20.4 25°, 33.193' N; 158°, 1	
	On Bottom:	2017-09-08T21:21:20.451000 25°, 33.234' N ; 158°, 12.830' W	
	Dive duration:	7:39:3	
	Bottom Time:	3:24:59	
	Max. depth:	3285.5 m	
Special Notes	There was an issu	3285.5 m ue with the ships propulsion durin . No other impact to operations.	g descent which caused a slight
Special Notes	There was an issu	ue with the ships propulsion durin	g descent which caused a slight Affiliation
Special Notes	There was an issudelay to the dive	ue with the ships propulsion durin . No other impact to operations.	
Special Notes	There was an issudelay to the diverse Name Asako Matsumoto Bruce Mundy	ue with the ships propulsion durin No other impact to operations. Email	Affiliation Planetary Exploration Research Center, Chiba
Special Notes	There was an issu delay to the dive	ue with the ships propulsion durin . No other impact to operations. Email amatsu@gorgonian.jp	Affiliation Planetary Exploration Research Center, Chiba Institute of Technology NOAA NMFS Pacific Islands
Scientists Involved	Name Asako Matsumoto Bruce Mundy Christopher	ue with the ships propulsion durin . No other impact to operations. Email amatsu@gorgonian.jp bruce.mundy@noaa.gov	Affiliation Planetary Exploration Research Center, Chiba Institute of Technology NOAA NMFS Pacific Islands Fisheries Science Center
Scientists Involved (please provide name, location, affiliation,	There was an issudelay to the diversity of the diversity	ue with the ships propulsion durin . No other impact to operations. Email amatsu@gorgonian.jp bruce.mundy@noaa.gov ckelley@hawaii.edu	Affiliation Planetary Exploration Research Center, Chiba Institute of Technology NOAA NMFS Pacific Islands Fisheries Science Center University of Hawaii
Scientists Involved (please provide name,	There was an issudelay to the diverse Mame Asako Matsumoto Bruce Mundy Christopher Kelley Ellie Bors	Le with the ships propulsion during. No other impact to operations. Email amatsu@gorgonian.jp bruce.mundy@noaa.gov ckelley@hawaii.edu eleanor.bors@noaa.gov	Affiliation Planetary Exploration Research Center, Chiba Institute of Technology NOAA NMFS Pacific Islands Fisheries Science Center University of Hawaii NOAA
Scientists Involved (please provide name, location, affiliation,	There was an issu delay to the diversity of the diversity	Le with the ships propulsion during. No other impact to operations. Email amatsu@gorgonian.jp bruce.mundy@noaa.gov ckelley@hawaii.edu eleanor.bors@noaa.gov erineeaston@gmail.com	Affiliation Planetary Exploration Research Center, Chiba Institute of Technology NOAA NMFS Pacific Islands Fisheries Science Center University of Hawaii NOAA UTRGV University of Louisiana at
Scientists Involved (please provide name, location, affiliation,	There was an issu delay to the diversity of the diversity	Le with the ships propulsion during. No other impact to operations. Email amatsu@gorgonian.jp bruce.mundy@noaa.gov ckelley@hawaii.edu eleanor.bors@noaa.gov erineeaston@gmail.com	Affiliation Planetary Exploration Research Center, Chiba Institute of Technology NOAA NMFS Pacific Islands Fisheries Science Center University of Hawaii NOAA UTRGV University of Louisiana at Lafayette
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Scientists Involved (please provide name, location, affiliation,	There was an issu delay to the diversity of the diversity	Le with the ships propulsion during. No other impact to operations. Email amatsu@gorgonian.jp bruce.mundy@noaa.gov ckelley@hawaii.edu eleanor.bors@noaa.gov erineeaston@gmail.com heestand.saucier@gmail.com	Affiliation Planetary Exploration Research Center, Chiba Institute of Technology NOAA NMFS Pacific Islands Fisheries Science Center University of Hawaii NOAA UTRGV University of Louisiana at Lafayette Stanford University ULL

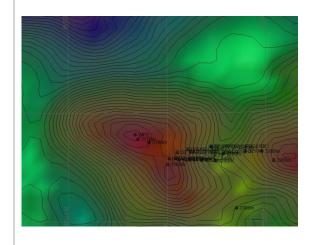


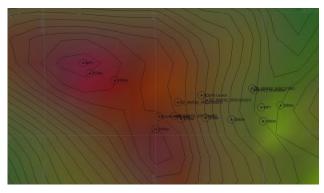
	Les Watling	watling@hawaii.edu	University of Hawaii at Manoa
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	Tina Molodtsova	tina@ocean.ru; tina.molodtsova@gmail.com	P.P.Shirshov Institute of Oceanology RAS
Purpose of the Dive	scale, high-densi was a high poter similar communi The primary objet of benthic fauna geology, and bio sponge communi sponge communi and the broader connectivity of cosampling at dept	ity coral communities on the NW H ntial that the elongate ridge-like fea- ities. ective for this dive was to character and acquire baseline information of elogical communities with particular nities. A comparison of the diversity nities across the seamounts to the r North Pacific is important to under communities in the Pacific. In addit th will enable a comparison with ot	rize the distribution and abundance on deep sea habitats, seafloor r interest in deep-sea coral and and distribution of coral and north and to the Hawaiian Ridge rstanding the biogeography and
Description of the Dive	The dive began in Ridge at a depth cobble-sized talk area, and an unk Near the beginn Angina citrea, procolonies of Irido known depth rais a more consolidated with a dive, numerous acquired, including the size of the size	nge for this species. As we transect ated substrate of broken pillows. T	n, we observed a uniform field of es, and shrimp were spotted in the sible new genus was collected. Are sighting of the hydromedusa, ony (bamboo coral). Numerous erved at depth, likely extending the ed upslope, the geology changed to his area was more densely harians, and Isidids. Throughout the centative deep-sea fishes were sp. and Bassozetus sp., an arrow-



Overall Map of the ROV Dive Area

Close-up Map of Main Dive Site





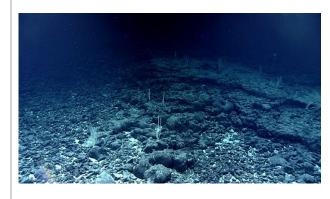
Representative Photos of the Dive





Hydromedusa, *Angina citrea*, predating on Keratoisidinae bamboo coral.

Volcanic cone flank consisting of intact pillow lava forms coated with Mn-crust and Primnoid, Isidid, and Antipatharian coral communities in the distant background.





Stable volcanic rock outcrop with Primnoid coral communities surrounded by talus and

Bright red goosefish, *Chaunacops coloratus* posing proudly upon Mn-coated talus, likely



sediment. from fractured pillow lavas.

Samples Collected

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Jai	ш	γı	C

Sample ID	EX1708-DIVE01_SPEC01BIO
Date (UTC)	9/8/2017
Time (UTC)	21:50
Depth (m)	3282.3
Temperature (°C)	1.5
Field ID(s)	Primnoidae
Commensal ID and	



Commensal ID and Field Identification

Comments

Sample

Sample ID	EX1708-DIVE02_SPEC02GEO
Date (UTC)	9/8/2017
Time (UTC)	23:46
Depth (m)	3207.0
Temperature (°C)	1.5
Field ID(s)	Manganese crusted basalt



Commensal ID and Field Identification

EX1708-DIVE02_SPEC02GEO_A01 Bryozoa
EX1708-DIVE02_SPEC02GEO_A02 Primnoidae
EX1708-DIVE02_SPEC02GEO_A03 Actiniaria
EX1708-DIVE02_SPEC02GEO_A04 Cladorhyzidae

EX1708-DIVE02_SPEC02GEO_A05 Stichopathes sp.?

Comments

Sample

Sample ID	EX1708-DIVE02_SPEC03GEO
Date (UTC)	9/9/2017
Time (UTC)	00:10
Depth (m)	3176.3
Temperature (°C)	1.5





Field ID(s)	Manganese crusted basalt
Commensal ID and Field Identification	EX1708-DIVE02_SPEC03GEO_A01 Bryozoa?
Comments	
Sample	
Sample ID	EX1708-DIVE02_SPEC04BIO
Date (UTC)	9/9/2017
Time (UTC)	00:34
Depth (m)	3148.6
Temperature (°C)	1.5
Field ID(s)	Bathypathes sp.
Commensal ID and Field Identification	
Comments	

Please direct inquiries to:

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

