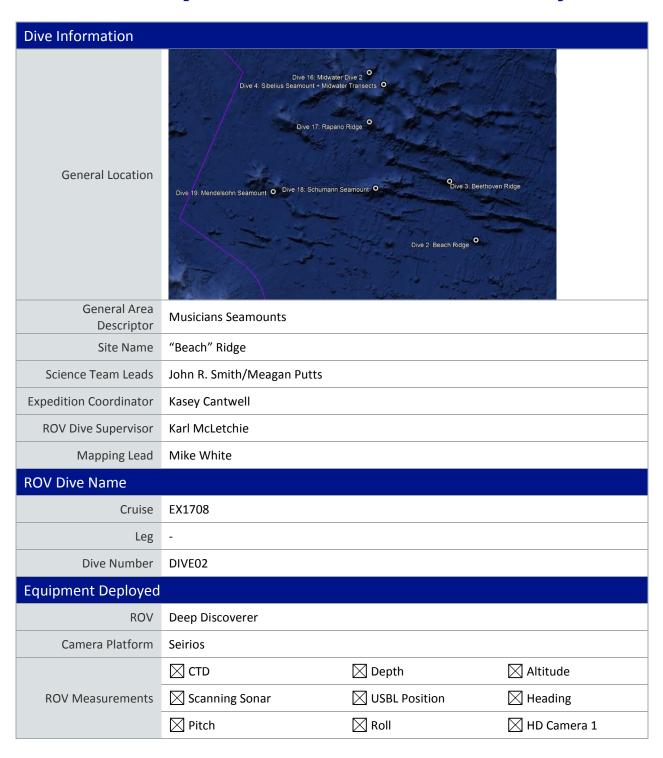


# Okeanos Explorer ROV Dive Summary



	⊠ 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: 2017-09-08T18:50:5 25°, 33.209' N; 158		09000	
	Out Water:	2017-09-09T02:30:02.4 N/A ; N/A	2017-09-09T02:30:02.436000 N/A ; N/A	
	Off Bottom: 2017-09-09T00:46:20.4 25°, 33.193' N; 158°, 12			
	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 dive	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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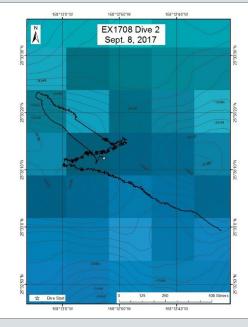


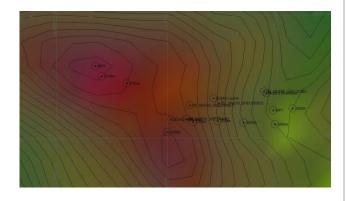
	Les Watling	watling@hawaii.edu	University of Hawaii at Manoa
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Purpose of the Dive	scale, high-densi was a high poter similar communi The primary objet of benthic fauna geology, and bio sponge communi sponge communi and the broader connectivity of cosampling 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 sediment.

Bright red goosefish, *Chaunacops coloratus* posing proudly upon Mn-coated talus, likely from fractured pillow lavas.

## Samples Collected

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Jai	ш	μι	C

Sample	
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	



## Sample

Field Identification

Comments

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

