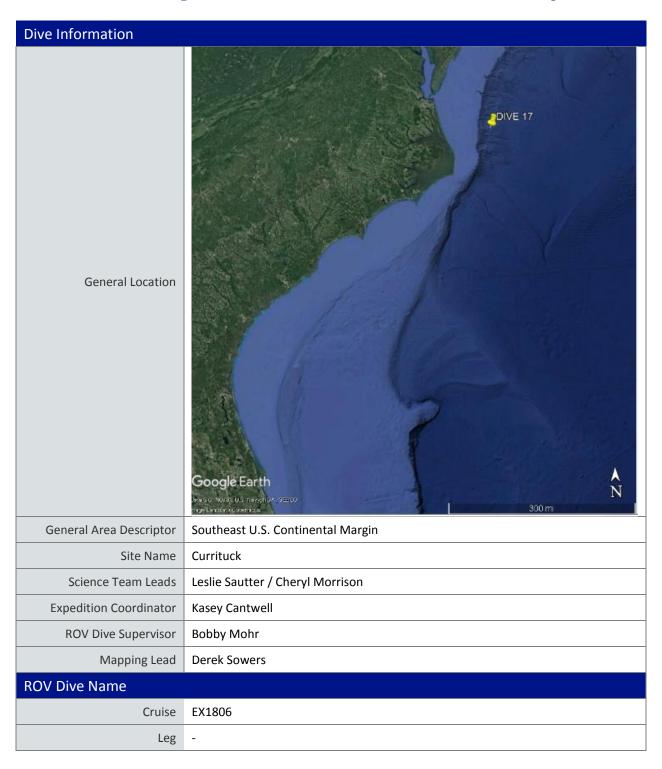


Okeanos Explorer ROV Dive Summary



Dive Number	DIVE17		
Equipment Deployed			
ROV	Deep Discoverer		
Camera Platform	Seirios		
	⊠CTD	⊠Depth	⊠Altitude
	⊠Scanning Sonar	⊠ USBL Position	⊠Heading
ROV Measurements	⊠Pitch	⊠RoⅡ	⊠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 5
Equipment Malfunctions			
		nary: EX1806_DIVE17	ΛΛΛΛΛΛΛΛΛΛΛΛ
	In Water: 2018-07-01T12:16:41.473587 36°, 13.706' N ; 74°, 27.875' W		
	On Bottom: 2018-07-01T13:23:36.326308 36°, 13.716' N ; 74°, 27.822' W		
ROV Dive Summary	Off Bottom: 2018-07-01T19:33:22.143651 36°, 13.8' N; 74°, 28.131' W		
(from processed ROV data)	Out Water: 2018-07-01T20:34:43.615494 36°, 14.124' N ; 74°, 27.812' W		
	Dive duration: 8:18:2		
	Bottom Time: 6:9:45		
	Max. depth:	1881.0 m	
Special Notes			
	Name	Institution	email
	Amanda	mstrution	Cinuli
Scientists Involved (please provide name,	Demopoulos	USGS	ademopoulos@usgs.gov
location, affiliation, email)	Andrea Quattrini	Harvey Mudd College	aquattrini@g.hmc.edu
	-	Planetary Exploration	
	Asako Matsumoto	Research Center, Chiba	amatsu@gorgonian.jp



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	The Currituck Lar		gest submarine landslides on
Purpose of the Dive	the US East Coast continental slope Information about modeling. This di	t where a massive, part e detached and slid to d ut this landslide site is c ve explored and charac	ially intact segment of the lepths exceeding 2000 m. Iften used in tsunami hazard
Description of the Dive	continental marg The dive began a wall's base on the dominated by ec distributed' brittl (Hygrosoma sp.) toward the wall, displaced materia sloped rubble ba indurated muds to arm. Larger block blocks resembled did, however, pro numerous brising Anthomastus oct ~100 m ascent of clay and had num angular edges. A sediment scoop of appeared to com dominated the w Keratoisis grayi b Bathypathes blace ascent, the ROV overy continuous be	in associated with the tade adepth of 1880 m, age sediment plain. These hinoderms, including his estars (Ophiomusia spand many sea urchins (the ROV encountered it al, with large >1m block nk. These blocks were his concrete blocks were his concrete blocks or bridged sea stars, Chrysogor occorals and several unless the wall, many areas we nerous vertical micro-fress few short terraces allowed for clay shards (rubble morised of the stiff clay. Fall, facing into what litter amboo coral grew on the coral was observed. A moved laterally the length orizontal layers/stratal ediment plain, very similar and the coral was observed. A diment plain, very similar and the coral was observed.	undreds of 'overly .), pancake urchins Equinnus sp.). Moving ncreasing amounts of as at the base of the apron's neavily compacted, stiff dged by the manipulator th squared edges. Smaller cks. These unlithified 'rocks' or many organisms including agia, Acanella, and known sponges. During the vere vertical and smooth factures and sharp 90° wed for collection of a naterial). The entire wall



Drop stones?) were observed on both the sedimented areas at the base and on the top of the wall. Most of these rocks were heavily populated by a different brittle star as well as other organisms, such as benthic sea cucumbers (Psolidae). Fishes observed included both black (Halosauropsis macrochir) and white halosaurs, Coryphaenoides rupestris macrourids, a lizard fish Bathysaurus ferox, Synaphobranchus affinis eels, and a Antimora rostrata flatnose codling. The dive ended before the second, shorter wall was ascended, although the debris field had just been encountered with its increased slope. **Notable Observations** Steep wall feature had a large number of brisingid sea stars. Community Presence/ X Corals and Sponges Present ☐ Active Seep or Vent Absence (community is ☐ Chemosynthetic Community Present ☐ Extinct Seep or Vent defined as more than two ☐ High biodiversity Community Present ☐ Hydrates Present species) Overall Map of the ROV Dive Area Close-up Map of Main Dive Site Representative Photos of the Dive

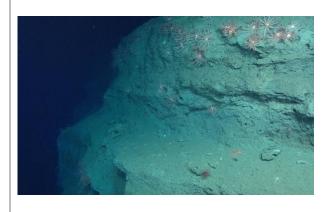






The seabed at the base of the wall (1880 m) was flat, featureless mud, covered with *Ophiomusa limini* brittle stars. A couple of halosaurs (Halosauropsis macrochir pictured here) were also seen.

Many large blocks of stiff, nearly-lithified muds were found at the base of the 100 m vertical wall. Attempts to collect a sample resulted in total collapse of the "rock's" structure.





Thick sequences of indurated, but not lithified muds made for vertical walls with small terraces.

Note the smooth, highly angular vertical "rock" face. These vertical mud walls provide excellent substrate for many brisingid sea stars.



The known association between a juvenile cusk eel (Ophidiidae) and a pancake urchin (*Hygrosoma*) was observed.

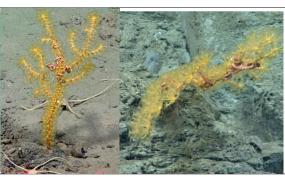


Colorful Actiniaria anemones (*Actinermis* sp.) were common.





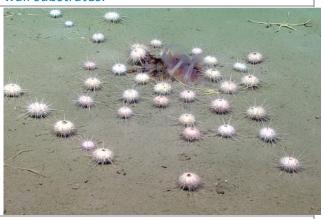
A bathysaurus (*Bathysaurus ferox*) posed for the camera.



Asteroschema brittle stars were seen characteristically associated with a Paramuricea octocoral in both the muddy and wall substrates.



A species of brittle star different from those that dominated the mud substrate was found on all of the random rocks encountered at the base of and on top of the wall. Cup corals (*Desmophyllum dianthus*) and urchins (*Equinnus* sp.) were also seen.



Several recently-dead lion's mane jellyfish (possibly *Cynea lamarckii*) served as a buffet to many urchins (*Equinnus* sp.) and *Ophiomusa limini* brittle stars.



A 'bramble' of bamboo coral (*Keratoisis flexibilis*) was found at the base of the wall.



A tiny white seastar (*Pythonaster* possibly *atlantidis* sp.) was found clinging to one of the mud blocks at the base of the wall.





Several sponges of different species were observed, including several small white cladorhizid carnivorous sponges.



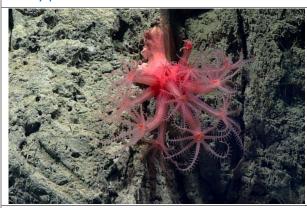
A large stalked hydrozoan (Family Corymorphidae) was seen on one of the large debris rocks at the wall's base.



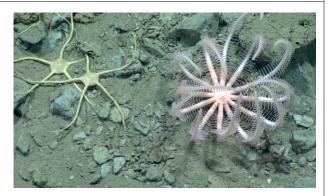
Cobalt blue demosponges were seen on many parts of the wall.



A large bamboo coral, *Keratoisis grayi*, was seen on a sheer rock face.



Anthomastus soft corals were common on the wall.



Brisingid sea stars (*Freyella*) were abundant on the walls and rubble. Brittle stars were the most abundant echinoderm observed.





Sponges were also home to brittle stars.

Bathypathes

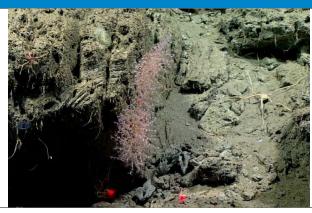




Several small red sea pens (possibly *Protoptilum* sp.) were observed in soft sediment.

[Descriptive caption here]

Sample ID EX1806_D2_DIVE17_SPEC01BIO Date (UTC) 20180701 Time (UTC) 151355 Depth (m) 1867.92 Temperature (°C) 3.63 Field ID(s) Chrysogorgia



Reason for
Collection

Samples Collected

Scientists in the chat room were uncertain of the species.

Notes

Associates

[Notes section here can include number of organisms, condition of organism(s) upon retrieval or photos as needed]



Associate ID	Field Identification	Notes

Sample	
Sample ID	EX1806_D2_DIVE17_SPEC02BIO
Date (UTC)	20180701
Time (UTC)	153551
Depth (m)	1866.83
Temperature (°C)	3.63
Field ID(s)	Acanella
Reason for Collection	Lab Assessment Required for ID



Notes

[Notes section here can include number of organisms, condition of organism(s) upon retrieval or photos as needed]

Associates

Associate ID Field Identification		Notes
EX1806_D17_02B_A01	Platyctenidae	benthic ctenophore

Sample		
Sample ID	EX1806_D2_DIVE17_SPEC03GE O	
Date (UTC)	20180701	
Time (UTC)	164937	
Depth (m)	1825.18	
Temperature (°C)	3.64	
Field ID(s)	indurated/stiff mud, mostly clay-sized particles (nannofossils?), with planktonic foraminifera in >63um size fraction.	
Reason for Collection	Characterize mud walls of scarp.	



Notes	These 'chips' were collected on a small sloped terrace between two large vertical mud walls.		
	[Notes section here can include number of organisms, condition of organism(s) upon retrieval or photos as needed]		
	Associate ID	Field Identification	Notes
Associates	EX1806_D17_03G_A01	Echinoidea	
	EX1806_D17_03G_A02	Ophiuroidea	

Sample			
Sample ID	EX1806_D2_DIVE17_SPEC04GI		
Date (UTC)	20180701		
Time (UTC)	181226		
Depth (m)	1786.85		
Temperature (°C)	3.64		
Field ID(s)	Mud burrow		
Reason for	Characteristic of site - we saw	these many times in the NE and v	were never able to collect
Collection	them		
Notes			
	[Notes section here can include retrieval or photos as needed]	e number of organisms, condition	of organism(s) upon
	Associate ID	Field Identification	Notes
Associates	EX1806_D17_04G_A01	Sipuncula	
	EX1806_D17_04G_A02	Gastropoda	
	EX1806_D17_04G_A03	Asteroidea	

Sample		
Sample ID	EX1806_D2_DIVE17_SPEC05GE O	
Date (UTC)	20180701	
Time (UTC)	181226	
Depth (m)	1786.85	
Temperature (°C)	3.64	



Field ID(s)	Random chunk of granite (ballast? drop stone?), covered with urchins and a couple of brittle stars.		
Reason for Collection	Rare rock for area/ potential dropstone- NOT characteristic of substrate.		
Notes			
	[Notes section here can include number of organisms, condition of organism(s) upon retrieval or photos as needed]		
	Associate ID	Field Identification	Notes
Associates	EX1806_D17_04G_A01	Sipuncula	
	EX1806_D17_04G_A02	Gastropoda	
	EX1806_D17_04G_A03	Asteroidea	

Sample		
Sample ID	EX1806_D2_DIVE17_SPEC06 BIO	
Date (UTC)	20180701	
Time (UTC)	unknown	
Depth (m)	unknown	TANK WINCOM
Temperature (°C)	unknown	
Field ID(s)	Annelida	Ot 6 8 7 9 3
Reason for Collection	Opportunistic/ associate from another sample (?), but cannot be determined	
Notes	Long shot, but this may be the polychaete that was on the Chrysogorgia (SPEC01BIO)	
Associates	none	

Please direct inquiries to:

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