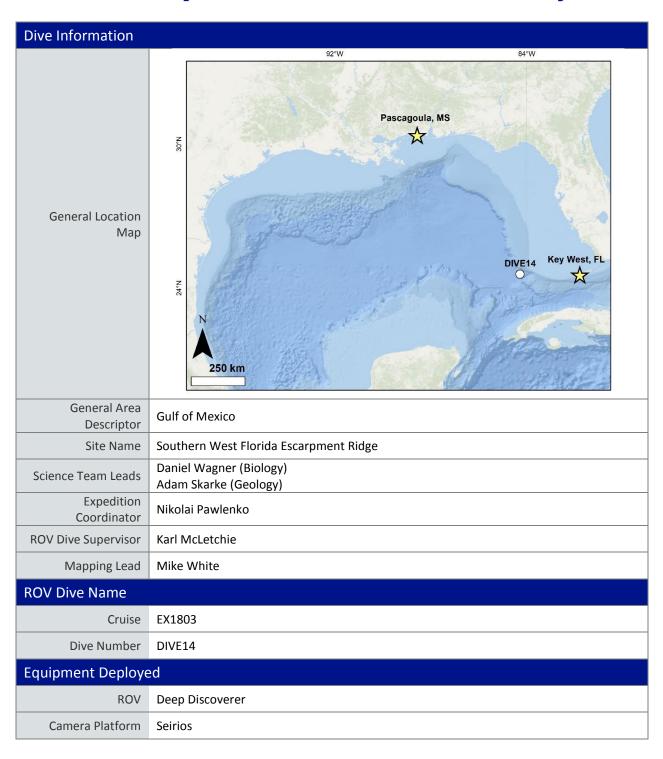


Okeanos Explorer ROV Dive Summary



ROV Measurements CTD Depth Altitude					
ROV Measurements Pitch Roll HD Camera 1				□ Depth	Altitude
HD Camera 2 Low Res Cam 1 Low Res Cam 2 Low Res Cam 2 Low Res Cam 3 Low Res Cam 4 Low Res Cam 5	ROV Measurements	Scanning	g Sonar	USBL Position	Heading
Equipment Malfunctions Dive Summary: EX1803_DIVE14		Pitch		⊠ Roll	HD Camera 1
None. Dive Summary: EX1803_DIVE14		HD Came	era 2		
Dive Summary: EX1803_DIVE14 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA		Low Res Cam 3		Low Res Cam 4	
In Water: 2018-05-01T13:28:29.430700 24*, 34.297' N; 84*, 16.356' W On Bottom: 2018-05-01T15:06:09.191617 24*, 34.693' N; 84*, 16.263' W ROV Dive Summary (from processed ROV data) Off Bottom: 2018-05-01T20:20:07.267781 Out Water: 2018-05-01T20:22:07.267781 Out Water: 2018-05-01T21:38:32.151898 24*, 34.593' N; 84*, 15.816' W Dive duration: 8:10:2 Bottom Time: 5:13:58 Max. depth: 2366.0 m Special Notes Adam Skarke Mississippi State University adam.skarke@msstate.edu Daniel Wagner NOAA/NCCOS daniel.wagner@noaa.gov Mike White NOAA/OER michael.white@noaa.gov Mike White NOAA/OER michael.white@noaa.gov Harbor Branch Oceanographic Institute at Florida Atlantic University barrettnh@g.cofc.edu Rachel Bassett NOAA rachel.bassett@noaa.gov Robert Carney Sciences, LSU rcarnel@lsu.edu Erik Cordes Temple University ecordes@temple.edu Amanda Demopoulos USGS ademopoulos@usgs.gov Kelley Elliott NOAA OER kelley.elliott@noaa.gov University of Louisiana at Scott France Lafayette france@louisiana.edu		None.			
In Water: 2018-05-01T13:28:29.430700 24*, 34.297' N; 84*, 16.356' W On Bottom: 2018-05-01T15:06:09.191617 24*, 34.693' N; 84*, 16.263' W Off Bottom: 2018-05-01T20:20:07.267781 24*, 34.466' N; 84*, 16.415' W Out Water: 2018-05-01T21:38:32.151898 24*, 34.593' N; 84*, 15.816' W Dive duration: 8:10:2 Bottom Time: 5:13:58 Max. depth: 2366.0 m Special Notes Adam Skarke Mississippi State University adam.skarke@msstate.edu Daniel Wagner NOAA/NCCOS daniel.wagner@noaa.gov Mike White NOAA/OER michael.white@noaa.gov Steve Auscavitch Harbor Branch Oceanographic Institute at Harbor Branch Oceanographic Institute at Florida Atlantic University barrettnh@g.cofc.edu Rachel Bassett NOAA rachel.bassett@noaa.gov Ceanography and Marine Robert Carney Sciences, LSU racrene1@lsu.edu Frik Cordes Temple University ecordes@temple.edu Amanda Demopoulos USGS ademopoulos@usgs.gov Kelley Elliott NOAA OER kelley.elliott@noaa.gov University of Louisiana at Scott France Lafayette france@louisiana.edu			-		
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(from processed ROV data) Out Water: 2018-05-01T21:38:32.151898 24°, 34.593° N; 84°, 15.816° W Dive duration: 8:10:2 Bottom Time: 5:13:58 Max. depth: 2366.0 m Special Notes Adam Skarke Mississippi State University adam.skarke@msstate.edu Daniel Wagner NOAA/NCCOS daniel.wagner@noaa.gov Mike White NOAA/OER michael.white@noaa.gov Steve Auscavitch Temple University steven.auscavitch@temple.edu Harbor Branch Oceanographic Institute at Florida Atlantic University barrettnh@g.cofc.edu Rachel Bassett NOAA rachel.bassett@noaa.gov Oceanography and Marine Robert Carney Sciences, LSU rcarne1@lsu.edu Erik Cordes Temple University ecordes@temple.edu Amanda Demopoulos USGS ademopoulos@usgs.gov Kelley Elliott NOAA OER kelley.elliott@noaa.gov University of Louisiana at Lafayette france@louisiana.edu				24°, 34.693′ N; 84°, 16.263′	W
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Bottom Time: 5:13:58 Max. depth: 2366.0 m Special Notes Adam Skarke Mississippi State University adam.skarke@msstate.edu Daniel Wagner NOAA/NCCOS daniel.wagner@noaa.gov Mike White NOAA/OER michael.white@noaa.gov Steve Auscavitch Temple University steven.auscavitch@temple.edu Harbor Branch Oceanographic Institute at Florida Atlantic University barrettnh@g.cofc.edu Rachel Bassett NOAA rachel.bassett@noaa.gov Nobert Carney Sciences, LSU rcarne1@lsu.edu Erik Cordes Temple University ecordes@temple.edu Amanda Demopoulos USGS ademopoulos@usgs.gov Kelley Elliott NOAA OER kelley.elliott@noaa.gov Mike Ford NOAA Fisheries michael.ford@noaa.gov University of Louisiana at Lafayette france@louisiana.edu					
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Adam Skarke Mississippi State University adam.skarke@msstate.edu Daniel Wagner NOAA/NCCOS daniel.wagner@noaa.gov Mike White NOAA/OER michael.white@noaa.gov Steve Auscavitch Temple University steven.auscavitch@temple.edu Harbor Branch Oceanographic Institute at (please provide name, location, affiliation, email) Robert Carney Sciences, LSU rcarne1@lsu.edu Erik Cordes Temple University ecordes@temple.edu Robert Carney Sciences, LSU rcarne1@lsu.edu Erik Cordes Temple University ecordes@temple.edu Amanda Demopoulos USGS ademopoulos@usgs.gov Kelley Elliott NOAA OER kelley.elliott@noaa.gov Mike Ford NOAA Fisheries michael.ford@noaa.gov University of Louisiana at Scott France Lafayette france@louisiana.edu		Bottom Time:		5:13:58	
Special Notes Adam Skarke Mississippi State University adam.skarke@msstate.edu Daniel Wagner NOAA/NCCOS daniel.wagner@noaa.gov Mike White NOAA/OER michael.white@noaa.gov Steve Auscavitch Temple University steven.auscavitch@temple.edu Harbor Branch Oceanographic Institute at Rachel Bassett NOAA rachel.bassett@noaa.gov Oceanography and Marine Robert Carney Sciences, LSU rcarne1@lsu.edu Erik Cordes Temple University ecordes@temple.edu Amanda Demopoulos USGS ademopoulos@usgs.gov Kelley Elliott NOAA OER kelley.elliott@noaa.gov Mike Ford NOAA Fisheries michael.ford@noaa.gov University of Louisiana at Scott France Lafayette france@louisiana.edu				3.13.30	
Adam Skarke Mississippi State University adam.skarke@msstate.edu Daniel Wagner NOAA/NCCOS daniel.wagner@noaa.gov Mike White NOAA/OER michael.white@noaa.gov Steve Auscavitch Temple University steven.auscavitch@temple.edu Harbor Branch Oceanographic Institute at Nolan Barrett Florida Atlantic University barrettnh@g.cofc.edu Rachel Bassett NOAA rachel.bassett@noaa.gov Oceanography and Marine Robert Carney Sciences, LSU rcarne1@lsu.edu Erik Cordes Temple University ecordes@temple.edu Amanda Demopoulos USGS ademopoulos@usgs.gov Kelley Elliott NOAA OER kelley.elliott@noaa.gov Mike Ford NOAA Fisheries michael.ford@noaa.gov University of Louisiana at Lafayette france@louisiana.edu		Max. depth:		2366.0 m	
Daniel Wagner NOAA/NCCOS daniel.wagner@noaa.gov Mike White NOAA/OER michael.white@noaa.gov Steve Auscavitch Temple University steven.auscavitch@temple.edu Harbor Branch Oceanographic Institute at Florida Atlantic University barrettnh@g.cofc.edu Rachel Bassett NOAA rachel.bassett@noaa.gov Oceanography and Marine Robert Carney Sciences, LSU rcarne1@lsu.edu Erik Cordes Temple University ecordes@temple.edu Amanda Demopoulos USGS ademopoulos@usgs.gov Kelley Elliott NOAA OER kelley.elliott@noaa.gov Mike Ford NOAA Fisheries michael.ford@noaa.gov University of Louisiana at Scott France Lafayette france@louisiana.edu	Special Notes				
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Scientists Involved (please provide name, location, affiliation, email) Robert Carney Sciences, LSU rcarne1@lsu.edu Erik Cordes Temple University barrettnh@g.cofc.edu Amanda Demopoulos USGS ademopoulos@usgs.gov Kelley Elliott NOAA OER kelley.elliott@noaa.gov Mike Ford NOAA Fisheries michael.ford@noaa.gov University of Louisiana at Scott France Lafayette france@louisiana.edu		Daniel	Wagner	NOAA/NCCOS	daniel.wagner@noaa.gov
Scientists Involved (please provide name, location, affiliation, email) Robert Carney Sciences, LSU rcarne1@lsu.edu Erik Cordes Temple University barrettnh@g.cofc.edu Erik Cordes Temple University cecordes@temple.edu Amanda Demopoulos USGS ademopoulos@usgs.gov Kelley Elliott NOAA OER kelley.elliott@noaa.gov Mike Ford NOAA Fisheries michael.ford@noaa.gov University of Louisiana at Scott France Lafayette france@louisiana.edu		Mike	White	NOAA/OER	michael.white@noaa.gov
Scientists Involved (please provide name, location, affiliation, email) Robert Carney Sciences, LSU rcarne1@lsu.edu Erik Cordes Temple University ecordes@temple.edu Amanda Demopoulos USGS ademopoulos@usgs.gov Kelley Elliott NOAA OER kelley.elliott@noaa.gov Mike Ford NOAA Fisheries michael.ford@noaa.gov University of Louisiana at Scott France Lafayette france@louisiana.edu		Steve	Auscavitch	Temple University	
Nolan Barrett Florida Atlantic University barrettnh@g.cofc.edu					
(please provide name, location, affiliation, email) Rachel Bassett NOAA rachel.bassett@noaa.gov Oceanography and Marine Robert Carney Sciences, LSU rcarne1@lsu.edu Erik Cordes Temple University ecordes@temple.edu Amanda Demopoulos USGS ademopoulos@usgs.gov Kelley Elliott NOAA OER kelley.elliott@noaa.gov Mike Ford NOAA Fisheries michael.ford@noaa.gov University of Louisiana at Scott France Lafayette france@louisiana.edu				Oceanographic Institute at	
name, location, affiliation, email) Robert Carney Sciences, LSU rcarne1@lsu.edu Erik Cordes Temple University ecordes@temple.edu Amanda Demopoulos USGS ademopoulos@usgs.gov Kelley Elliott NOAA OER kelley.elliott@noaa.gov Mike Ford NOAA Fisheries michael.ford@noaa.gov University of Louisiana at Scott France Lafayette france@louisiana.edu	Scientists Involved	Nolan	Barrett	Florida Atlantic University	barrettnh@g.cofc.edu
affiliation, email) Robert Carney Sciences, LSU rcarne1@lsu.edu Erik Cordes Temple University ecordes@temple.edu Amanda Demopoulos USGS ademopoulos@usgs.gov Kelley Elliott NOAA OER kelley.elliott@noaa.gov Mike Ford NOAA Fisheries michael.ford@noaa.gov University of Louisiana at Scott France Lafayette france@louisiana.edu		Rachel	Bassett	NOAA	rachel.bassett@noaa.gov
Erik Cordes Temple University ecordes@temple.edu Amanda Demopoulos USGS ademopoulos@usgs.gov Kelley Elliott NOAA OER kelley.elliott@noaa.gov Mike Ford NOAA Fisheries michael.ford@noaa.gov University of Louisiana at Scott France Lafayette france@louisiana.edu					
Amanda Demopoulos USGS ademopoulos@usgs.gov Kelley Elliott NOAA OER kelley.elliott@noaa.gov Mike Ford NOAA Fisheries michael.ford@noaa.gov University of Louisiana at Scott France Lafayette france@louisiana.edu	affiliation, email)	Robert	-		
Kelley Elliott NOAA OER kelley.elliott@noaa.gov Mike Ford NOAA Fisheries michael.ford@noaa.gov University of Louisiana at Scott France Lafayette france@louisiana.edu		Erik	Cordes	Temple University	ecordes@temple.edu
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			Florida Fish and Wildlife	
	Paul	Larson	Conservation Commission	paul.larson@myfwc.com
			Dept of Invertebrate	
	Christopher	Mah	Zoology, NMNH Smithsonian	brisinga@gmail.com
	Christopher	IVIaII		brisinga@gmaii.com
			Planetary Exploration Research Center, Chiba	
	Asako	Matsumoto	Institute of Technology	amatsu@gorgonian.jp
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Purpose of the Dive	unexplored, with the closest historical dive being conducted over 24 km away. Additionally, this dive explored ridge feature that was similar in shape to many ridges surveyed during the CAPSTONE efforts in the Pacific Ocean. Therefore, this dive would also provide insights into how the faunas of these two ocean basins compare to one			
Description of the Dive	i -			

different species of unidentified Stolonifera), anthothelid corals (Anthothela sp.),



seapens (Pennatulacea), anemones (Actinaria), tube-dwelling anemones (Ceriantharia), demosponges (Cladorhizidae, unidentified Demospongia), seastars (Goniasteridae, Freyestera sp.), zoanthids (Zoantharia), crinoids (stalked and unstalked), bryozoans (Bryozoa), benthic ctenophores (Platyctenida), barnacles (Scalpellidae, unidentified Scalpellidae), shrimp (Nematocarcinus ensifer), and a sea cucumber (Deimatidae). Fish observed during the dive included tripodfishes (Ipnops murrayi, Bathypterois grallator), halosaurs (Aldrovandia sp.), and a cusk eel (Unidentified Bythitidae). The ROV left the seafloor at 20:16 UTC at a final depth of 2237 m. Towards the end of the dive (20:07 UTC) the ROV came across a very high density of Notable bamboo corals and glass sponges, which are among the deepest high-density Observations communities recorded in the Gulf of Mexico to date.

Community Presence/ Absence (community is defined as more than two species)

⊠Corals and Sponges Present

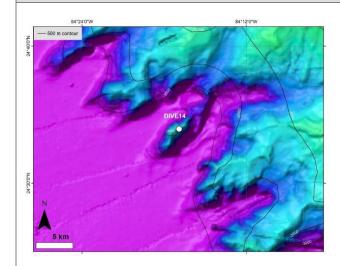
☐ Chemosynthetic Community Present ☐ Extinct Seep or Vent ⊠ High biodiversity Community Present

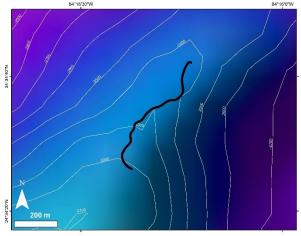
☐ Hydrates Present

☐ Active Seep or Vent

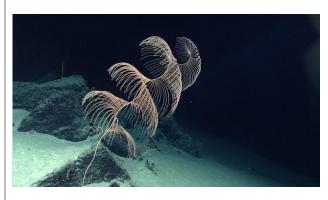
Overall Map of the ROV Dive Area

Close-up Map of Main Dive Site





Representative Photos of the Dive

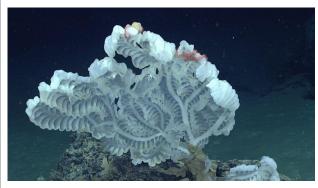




Iridogorgia magnispiralis.

Corallium niobe and crinoid.







Glass sponge.

Bathypathes sp. black corals

Samples Collected

Sample

Sample ID	EX1803_20180501T152631_D2_DIVE14_S PEC01BIO
Date (UTC)	20180501
Time (UTC)	152631
Depth (m)	2360.6
Temperat ure (°C)	4.3
Field ID(s)	Bathvaoraia sp.



Commens
als

Commensal ID	Field Identification	Notes
none		

Comment

S

Sample

Sample ID	EX1803_20180501T160818_D2_DIVE14_S PEC02GEO
Date (UTC)	20180501
Time (UTC)	160818
Depth (m)	2344.64
Temperat ure (°C)	4.31
Field ID(s)	Carbonate rock



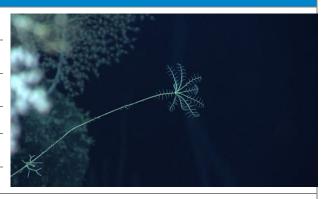


	Commensal ID	Field Identification	Notes
	EX1803_20180501T160818_D2_D IVE14_SPEC02GEO_A01	Crinoid	stalk only N=1
als	EX1803_20180501T160818_D2_D IVE14_SPEC02GEO_A02	Hexactinellida	1 live and 2 dead
	EX1803_20180501T160818_D2_D IVE14_SPEC02GEO_A03	Polychaeta	N=2

Comment

Sample

Sample	
Sample ID	EX1803_20180501T175005_D2_DIVE14_S PEC03BIO
Date (UTC)	20180501
Time (UTC)	175005
Depth (m)	2283.59
Temperat ure (°C)	4.31
Field ID(s)	Monanicrinus sp



	Commensal ID	Field Identification	Notes
Commens	EX1803_20180501T175005_D2_D IVE14_SPEC03BIO_A01	Bryozoa	N=3
als			

Comment

Sample	
Sample ID	EX1803_20180501T194849_D2_DIVE14_S PEC04BIO
Date (UTC)	20180501
Time (UTC)	194849
Depth (m)	2274.52
Temperat ure (°C)	4.3





Field ID(s)	Isidella kerl2c			
Commens als	Commensal ID none	Field Identification	Notes	
Comment				
S				

Please direct inquiries to:

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

