

ROV Dive Summary, EX-22-01, Dive 02, February 25, 2022

General Location Map



Dive Information

Site Name	UCH Dive
General Area Descriptor	Northern Gulf of Mexico
Science Team Leads	Karl McLetchie
Expedition Coordinator	Kimberly Galvez
ROV Dive Supervisor	Karl McLetchie
Mapping Lead	Sam Candio
Sample Data Manager	Anna Lienesch
Dive Purpose	Engineering focus with an approach on a UCH site.
Was the dive restricted for Underwater Cultural Heritage?	Yes

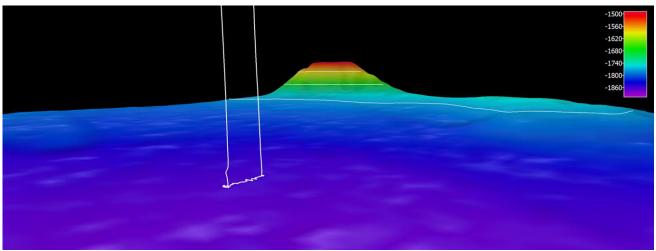
ROV Dive Dive Summary: EX2201_DIVE02		
Summary Data	Dive Type: Normal	
	Dive Type: Normal	
	In Water: 2022-02-25T14:42:40.782907	
	On Bottom: 2022-02-25T15:53:09.190185	
	Off Bottom: 2022-02-25T21:30:01.757078	
	Out Water: 2022-02-25T22:43:38.195522	
	Dive Duration: 8:00:57	
	Bottom Time: 5:36:52	
	Max Vehicle Depth: 1847.3 m	
	Min Seafloor Depth: N/A m	
	Distance Traveled: N/A m	
Dive Description	First portion of the dive was dedicated to engineering objectives. A sample was collected, a soda can with barnacles on it.	
	After engineering objectives were met, the ROVs transected towards the projected location of the shipwreck. Observations confirmed that the location was a shipwreck. Likely an early 19th century whaler ship. Almost the entire structure of the ship was degraded (wood-based) with various pieces either buried or partially degraded. A stove was visible with letters casted on the starboard face, but unable to make out what was stated. There were two anchors (one on what was the bow, the second on the stern by the stove), one was broken on the transverse plane of the shank of the anchor (archaeologists stated that they had never seen this before). Glass bottles (4-5) were observed along with fishing line coiled up in 2 places. Various cusk eels and Halosaurs, crustaceans, and a spoon worm (Echiuran) were observed throughout the dive. A few sponges were observed in passing while transecting to the shipwreck.	
Notable Observations	Shipwreck of an early 19th century whaling ship.	
Community and habitat observations	Corals and Sponges - Present Chemosynthetic Community - Absent High biodiversity Community - Absent Active Seep or Vent - Absent Extinct Seep or Vent - Absent Hydrates - Absent	
CMECS Feature	Fine to medium-fine grained unconsolidated sediment substrate.	
Type(s) SeaTube Link (science annotation system)	https://data.oceannetworks.ca/SeaTubeV3?resourceTypeId=600&resourceId=5870	



Equipment Deployed

ROV	Deep Discoverer
Camera Platform	Seirios
ROV Measurements	The following ROV measurements, data streams and equipment are used on each ROV deployment: CTD, depth, scanning sonar, USBL position, altitude, heading, attitude, high-resolution cameras, low resolution cameras, manipulator arms, suction sampler, sample drawers and thrusters. The section below notes if any of these sensors were malfunctioning or not operational
Equipment	The suction sampler and the temperature probe had trouble retracting. The Tasman DVL
Malfunctions	cutout on descent at about 900m depth and didn't come back.

Close-up Map of Main Dive Site



Smoothed ROV dive track in white with 3x vertical exaggeration, depth in meters, 100 meter contours

Representative Photos of the Dive





As part of the shipwreck found was an anchor with glass bottles scattered around and some wood preserved from the original ship.



A stove for burning whale blubber was found as part of the shipwreck with bricks scattered about and a fish commonly associated with shipwrecks. Fishing line was observed partially coiled up.



Samples Collected -



Sample ID	EX2201_D02_01B
Date (UTC)	20220225
Time (UTC)	16:48:27
Depth (m)	1849.307007
Latitude (decimal degrees)	N/A
Longitude (decimal degrees)	N/A
Temp. (°C)	4.302000046
Field ID(s)	Thoracica
Comments	Barnacles on soda can collected as part of manipulator arm testing

Associates Sample ID	Field Identification	Count
EX2201_D02_01B_A01	Unknown Barnacle	5
EX2201_D02_01B_A02	Mud	many

Scientists Involved (provide name, email, affiliation)

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