



NOAA Okeanos Explorer Program

ROV Dive Planning Form

Please use this as a template for documenting your recommendations for high-priority dive targets. Be sure to include a rationale for the dive as well as specific protocols (if applicable), and any known previous work or potential hazards at the site. Please include only generalized location information for any marine archaeology sites.

The form also includes fields for mapping targets and CTD cast locations as well.

Please send the completed form to Kelley.Elliott@noaa.gov and Brian.Kennedy@noaa.gov.

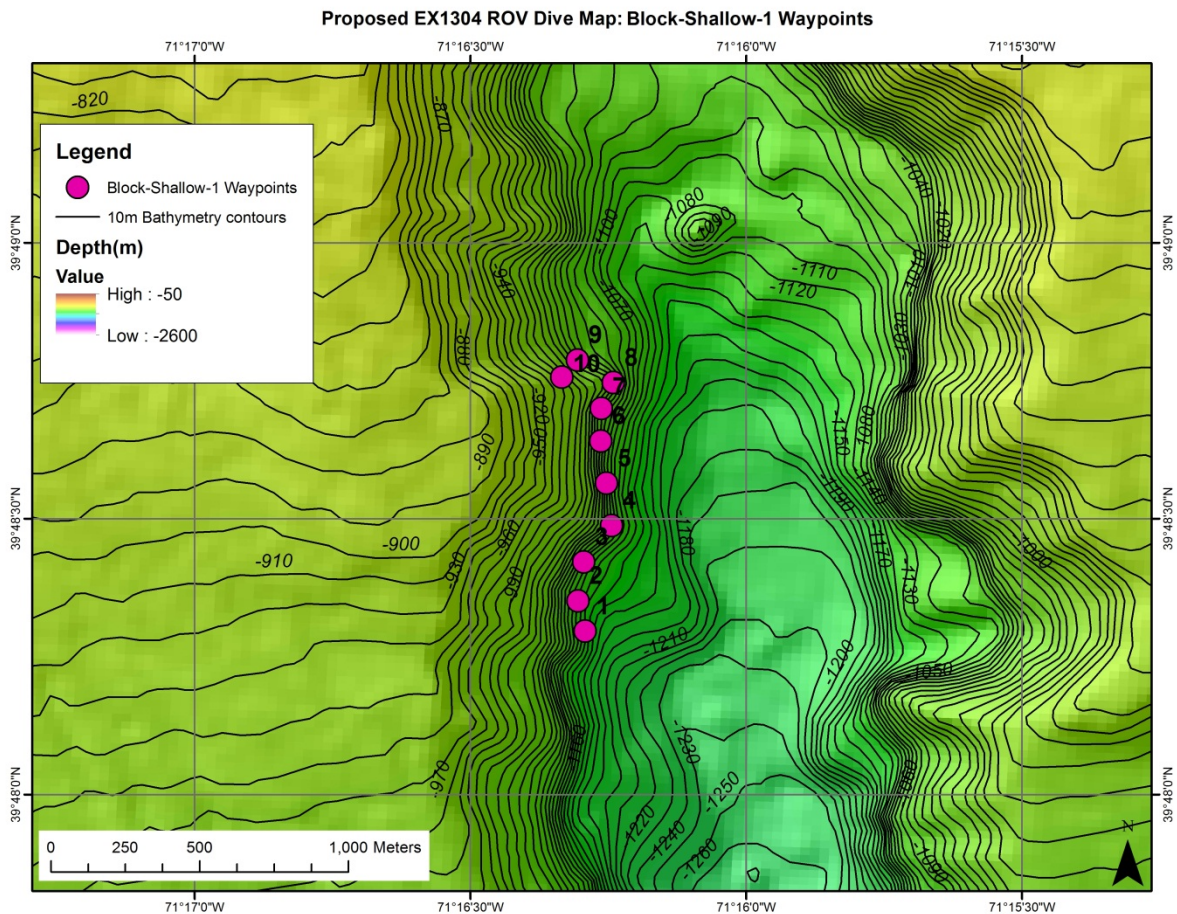
Site Name: BLOCK SHALLOW 1

Approximate Location: Longitude, Latitude, Depth = -71.2715, 39.8049, 1130m (Waypoint 1)

Dive Date (local): DATE (2013/07/23)

Site map:

Waypoints (numbered pink dots) overlaid on hillshaded bathymetric relief (from 25m mosaic of EX Atlantic Canyons multibeam bathymetry), with contours showing depth at 10m intervals





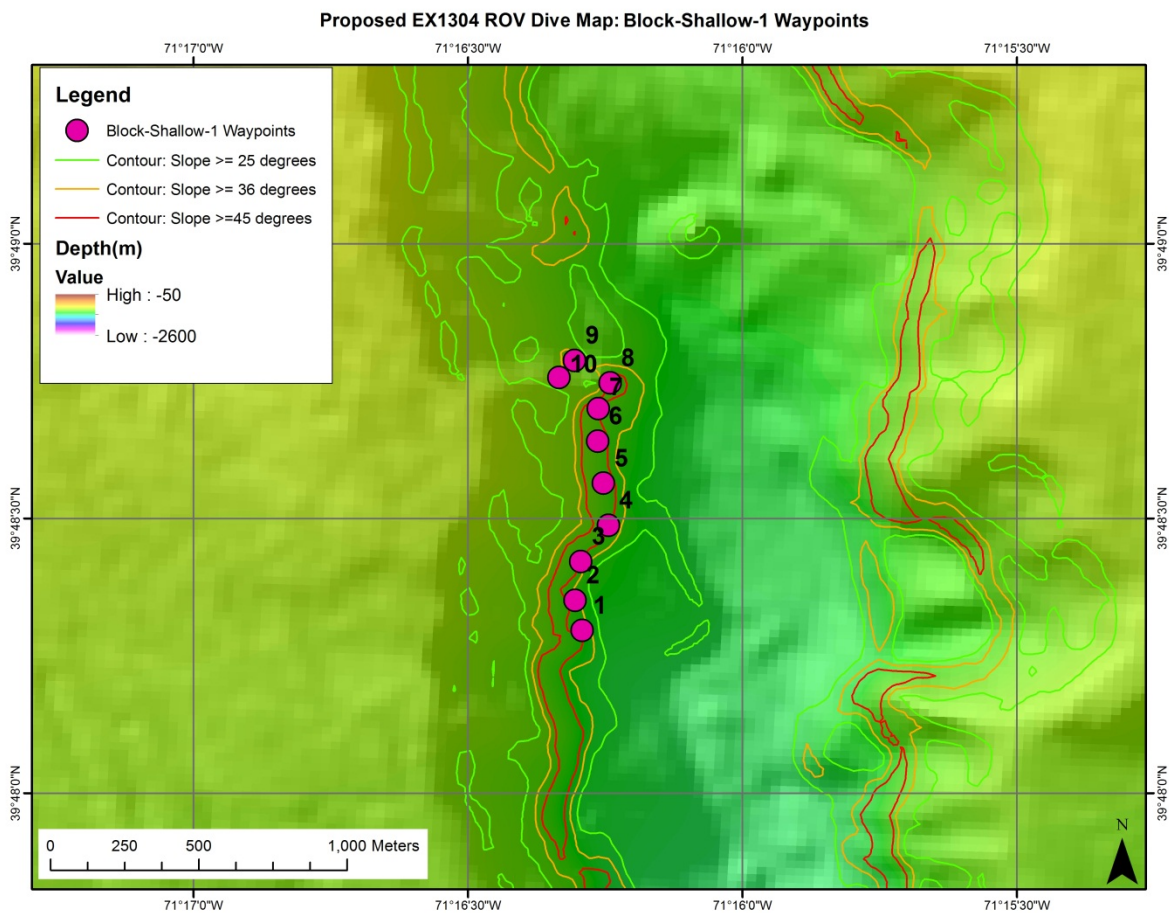
NOAA Okeanos Explorer Program

ROV Dive Planning Form

Additional site map showing areas of high SLOPE:

Waypoints (numbered pink dots) overlaid on hillshaded bathymetric relief (from 25m mosaic of EX Atlantic Canyons multibeam bathymetry), with contours showing slope in degrees

(past experience in Atlantic canyon systems indicates consolidated substrate is likely where slope exceeds 36° [orange contours] and almost certain where slope exceeds 45° [red contours])



UPDATED: July 22, 2013



NOAA Okeanos Explorer Program

ROV Dive Planning Form

Brief Explanation of Exploration Objectives and Rationale for the Desired Dive Track:

The objectives of this dive are to characterize the geomorphology and benthic fauna, including deep-sea coral and sponge communities, along the west wall of Block Canyon. The dive track was chosen based on habitat prediction models for corals, often found in the canyons in areas with slopes >36 degrees.

Proposed by Brian Kinlan and Tim Shank.

Has previous work been conducted here? Are there potential hazards in the area?

ROV Track Waypoints Table:

<i>DESIRED WAYPOINTS TO EXPLORE - (COMPLETED BY SHORE-SIDE LEAD SCIENTIST) (not including launch)</i>				<i>ACTUAL WAYPOINTS TO EXPLORE - (COMPLETED BY SHIPBOARD EXPEDITION LEADER)</i>			
WAYPOINT NAME/SEQUENCE	LATITUDE	LONGITUDE	APPROX DEPTH	WAYPOINT NAME/SEQUENCE	LATITUDE	LONGITUDE	APPROX DEPTH
Launch				Launch	39.80735194	-71.27023925	-1134.34
WP1	71.27154264	39.80493612	-1129.68	WP1	39.80811806	-71.27022787	-1117.332
WP2	71.27175174	39.80584847	-1110.16	WP2	39.80812944	-71.27141365	-1017.751
WP3	71.27158077	39.80702713	-1089.39	WP3	39.80910214	-71.27026203	-1124.973
WP4	71.27074437	39.80812951	-1080.75	WP4	39.80913142	-71.2714901	-1002.029
WP5	71.27089627	39.80940319	-1070.22	WP5			
WP6	71.27106756	39.81067654	-1051.03	WP6			
WP7	71.27104849	39.81166516	-1039.51	WP7			
WP8	71.27068717	39.81244436	-1034.23	WP8			
WP9	71.27177081	39.81312854	-1021.34	WP9			
WP10	71.27224589	39.81261532	-971.7	WP10			
Recovery				Recovery			



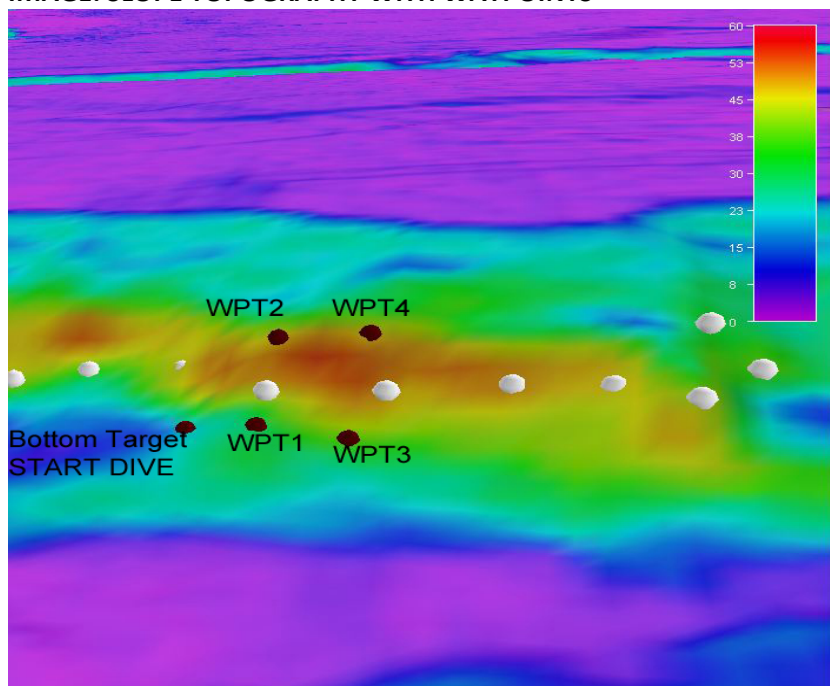
NOAA Okeanos Explorer Program

ROV Dive Planning Form

DIVE PLAN OVERVIEW

The proposed general dive plan consists of starting at the base of the feature at 1134 m. We will then either transect to WPT1 or directly towards WPT2 depending upon the feature. If we come across a contour with considerable faunal coverage along the slope, we may follow this contour towards the north before moving down to the base near WPT3. Alternatively, we will continue upslope to WPT2. We will assess the dive track during the dive dependent upon coverage. Target depth is 1130-1000 m.

IMAGE: SLOPE TOPOGRAPHY WITH WAYPOINTS



ANCILLARY INFORMATION:

RECOMMENDED OPERATIONS IN THE TARGET AREA PRIOR TO OR AFTER ROV DIVE

Please include requests for in situ sensors (LSS, DO, ORP) to be added to the CTD cast here, and specifics on the type of mapping operation requested (multibeam, subbottom, single beam).

	LATITUDE	LONGITUDE	APPROX DEPTH
CTD CASTS			
1			
2			
3			
4			
MAPPING AREA BOUNDING COORDINATES			