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.

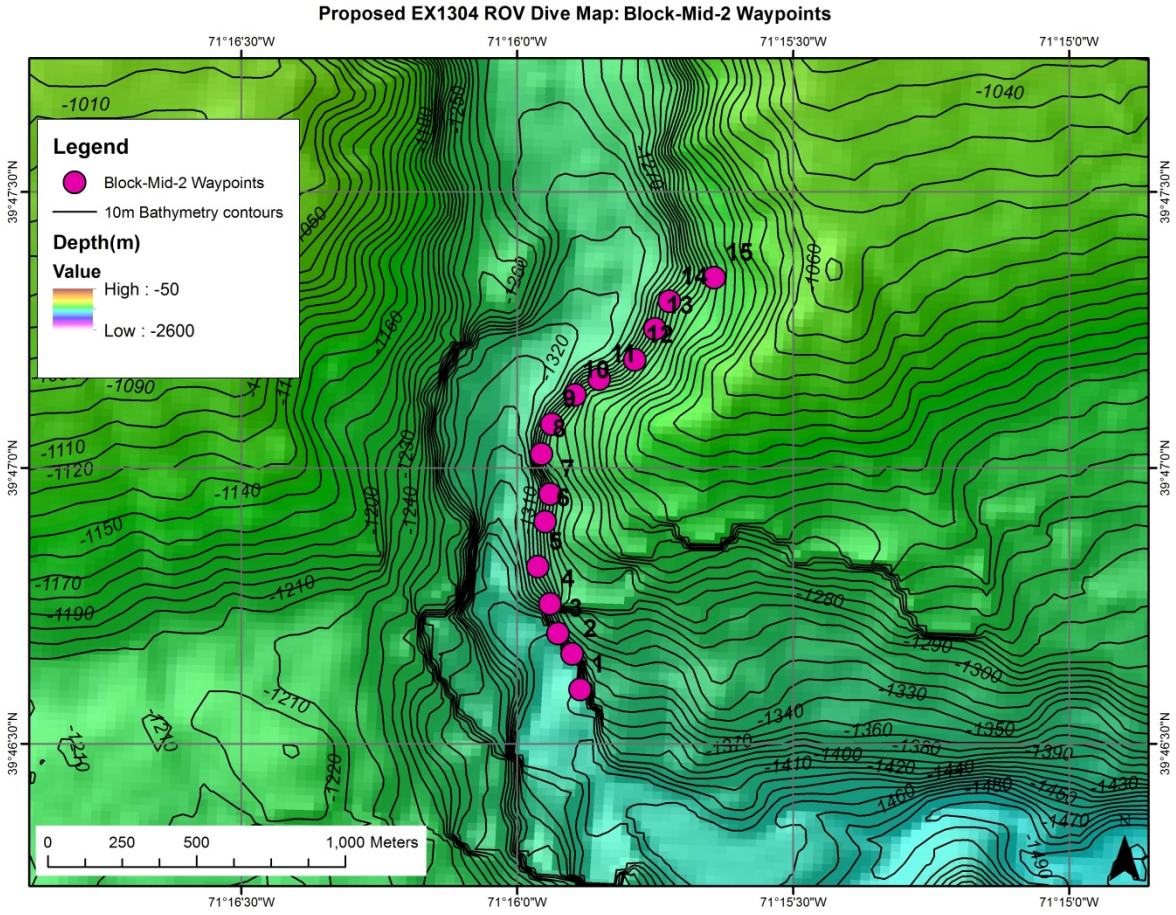
Please send the completed form to Kelley.Elliott@noaa.gov and Brian.Kennedy@noaa.gov.

Site Name: BLOCK MID 2

Approximate Location: Longitude, Latitude, Depth = -71.2648, 39.7766, 1409m (Waypoint 1)

Dive Date (local): DATE (2013/07/19)

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



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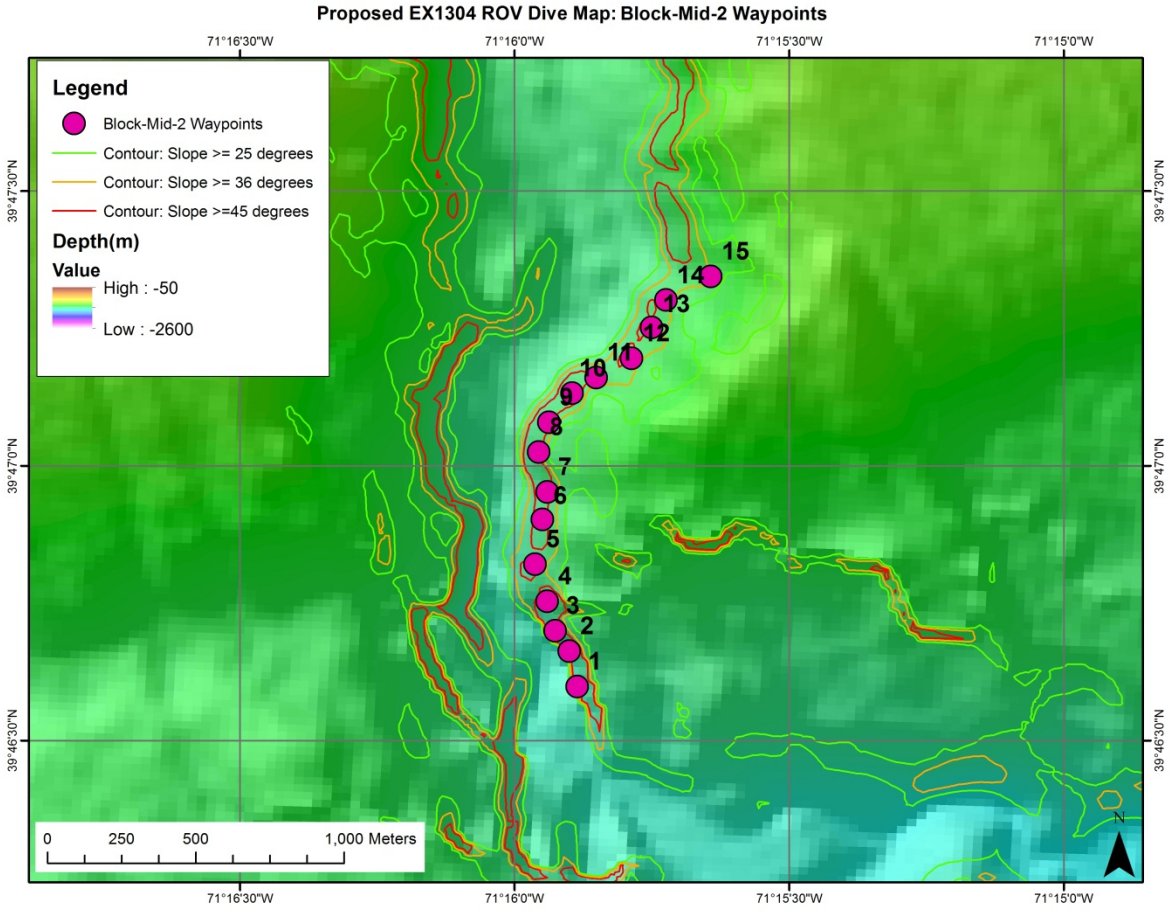
Additional site map showing areas of high SLOPE:

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])



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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 east wall of Block Canyon. We are focusing on three upslope transects that are situated on and around a promontory feature that slightly protrudes from the east wall into the canyon axis. 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:

DESIRED WAYPOINTS TO EXPLORE - (COMPLETED BY SHORE-SIDE LEAD SCIENTIST) (not including launch)				*ACTUAL WAYPOINTS TO EXPLORE- (COMPLETED BY SHIPBOARD EXPEDITION LEADER)*			
WAYPOINT NAME/SEQUENCE	**LATITUDE**	**LONGITUDE**	**APPROX DEPTH**	**WAYPOINT NAME/SEQUENCE**	**LATITUDE**	**LONGITUDE**	**APPROX DEPTH**
Launch				Launch-BOTTOM TARGET_B1	39.78436174	-71.26663096	-1343.035
WP1	-71.264769	39.77663674	-1409.07	WP_T1	39.78422582	-71.26563804	-1248.22
WP2	-71.26501333	39.77771101	-1385.23	WP_B2	39.78375088	-71.26659475	-1347.385
WP3	-71.26544058	39.77833379	-1363.36	WP_T2	39.78377029	-71.26564906	-1254.707
WP4	-71.26568458	39.77922513	-1338.17	WP_B3	39.78294321	-71.26618593	-1349.749
WP5	-71.26605108	39.7803482	-1320.69	WP_T3	39.78308438	-71.26527383	-1257.296
WP6	-71.26583131	39.78170364	-1297.4	WP1	39.78465496	-71.26563578	-1256.98
WP7	-71.26568458	39.78254295	-1289.72	WP2	39.78375166	-71.26594119	-1269.51
WP8	-71.26594119	39.78375166	-1269.51	WP3	39.78254295	-71.26568458	-1289.72
WP9	-71.26563578	39.78465496	-1256.98	WP4	39.78170364	-71.26583131	-1297.4
WP10	-71.26492769	39.78553403	-1256.52	WP5	39.7803482	-71.26605108	-1320.69
WP11	-71.26419535	39.7860104	-1247.61				
WP12	-71.26312076	39.78659634	-1238.91				
WP13	-71.26251058	39.78753228	-1236.78				
WP14	-71.2620717	39.78836093	-1226.65				
WP15	-71.26071367	39.78907549	-1177.29				
Recovery				Recovery			

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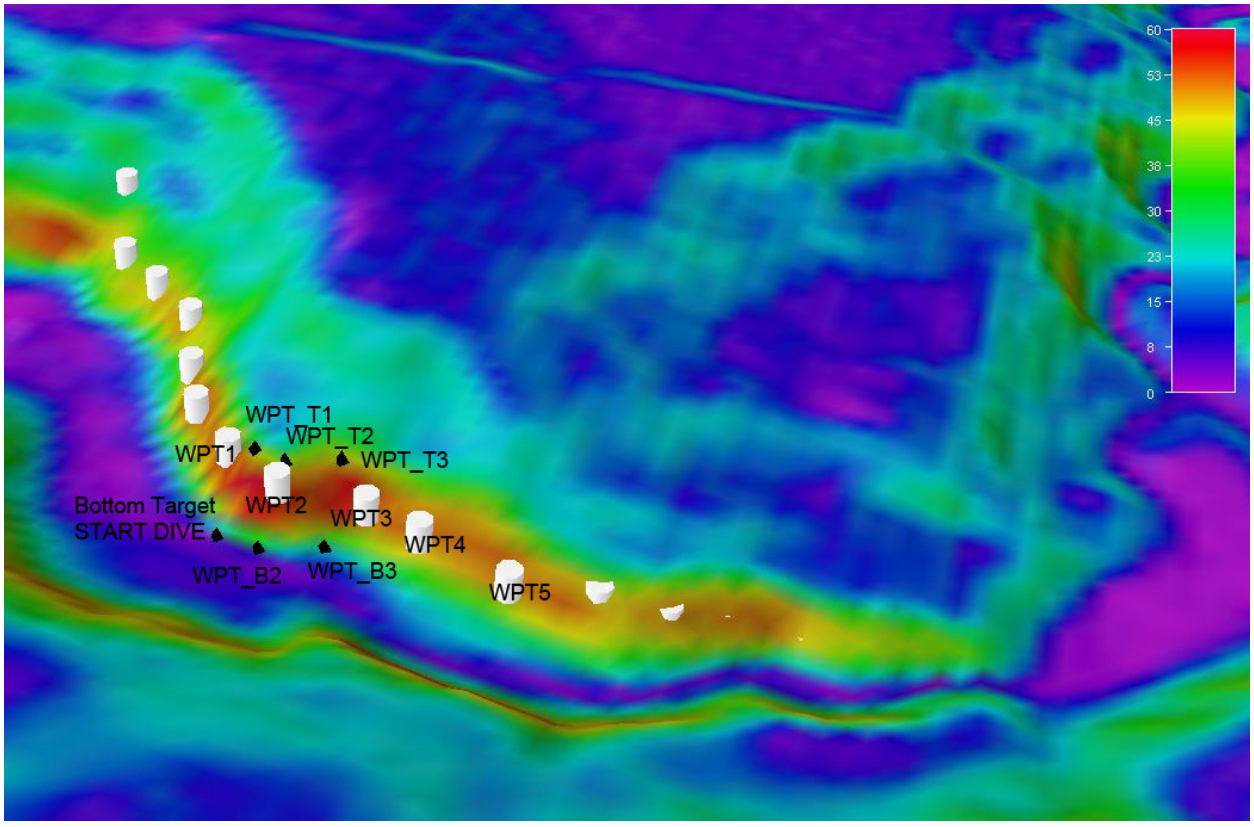
DIVE PLAN OVERVIEW

The proposed general dive plan consists of starting at the base of the feature at 1340 m on the north side of a promontory and transecting up slope through the waypoint target T1 at ~1250 m depth. We will then come back down slope and conduct a second upslope transect through the middle of this promontory, followed by a third upslope transect on the inner, southern side of the point. As time permits, we will then continue along slope passing through additional waypoints (3-5) to the south. White symbols on map below correspond with waypoints proposed in maps above (i.e., waypoints 1-5 below correspond to waypoints 9-5 in the above maps).

IMAGE: SLOPE TOPOGRAPHY WITH WAYPOINTS



ANCILLARY INFORMATION:

A CTD CAST WILL BE CONDUCTED AFTER THE DIVE AND WATER SAMPLES WILL BE COLLECTED.

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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			
North			
East			
South			
West			

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