



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.

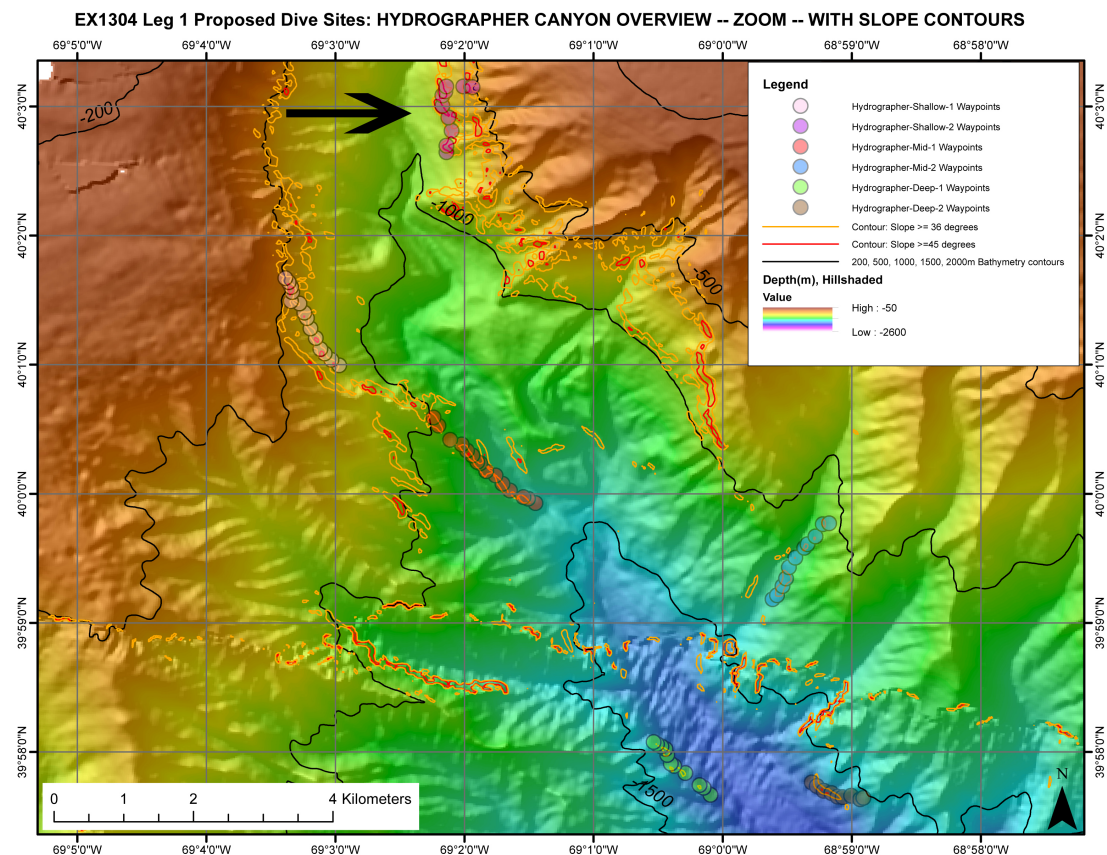
Site Name: HYDROGRAPHER SHALLOW 2

Approximate Location: Longitude, Latitude, Depth = -69.0357, 40.0441, 885m (Waypoint 1)

Dive Date (local): DATE (2013/07/14)

Site map:

The map below details a draft dive track in Hydrographer Canyon. The dive at Hydro-Shallow 2 will take place on the east wall to explore deep-sea coral communities.



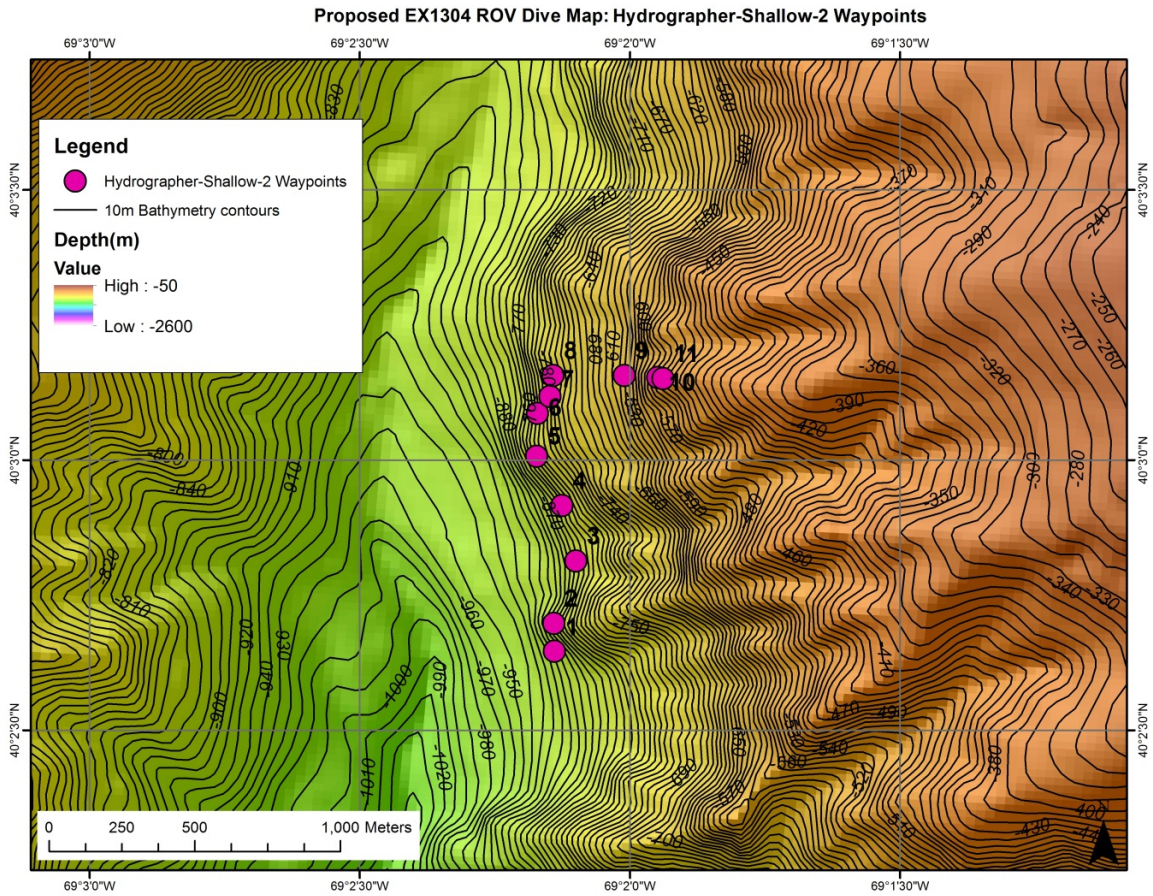
UPDATED: July 13, 2013



NOAA Okeanos Explorer Program

ROV Dive Planning Form

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



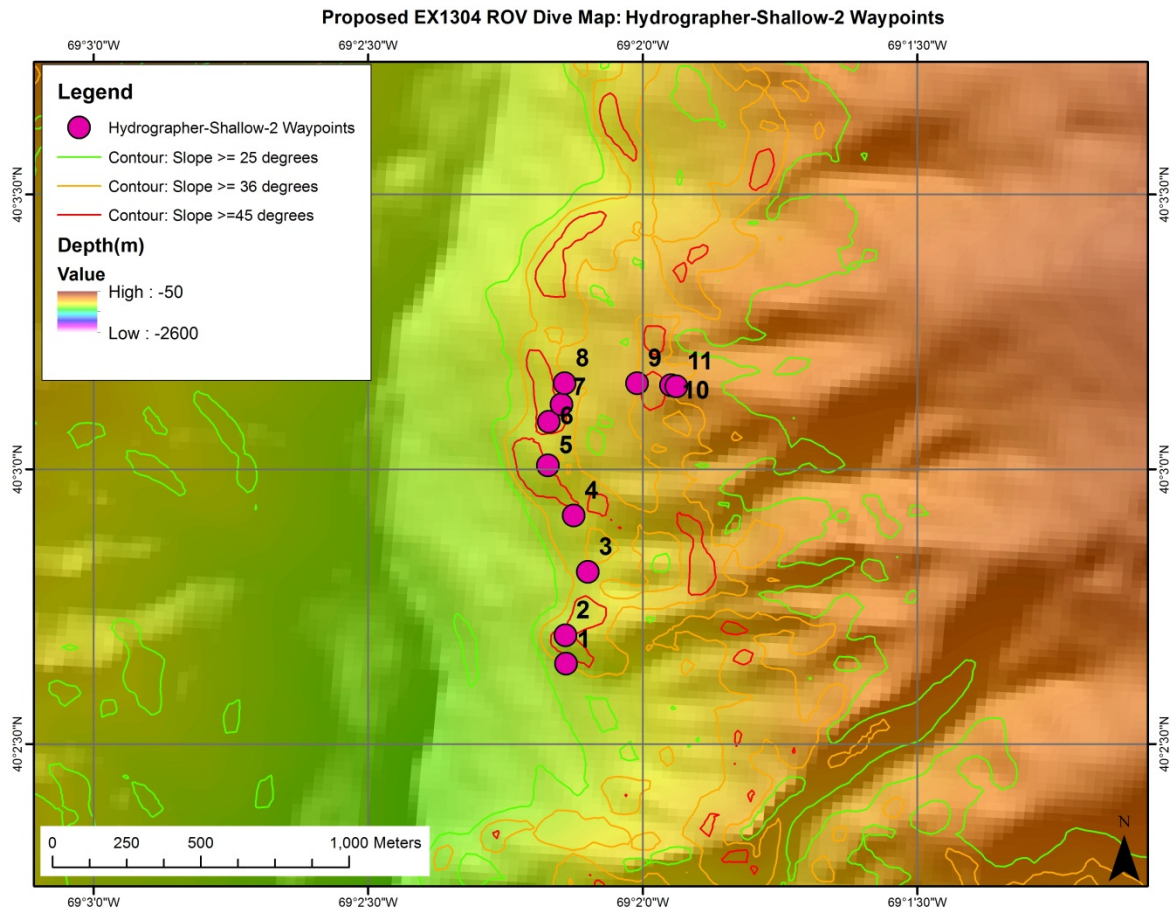


NOAA Okeanos Explorer Program

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])





NOAA Okeanos Explorer Program

ROV Dive Planning Form

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

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			
WP1	-69.03566721	40.04410507	-885.43	WP1	40.04987455	-69.03725102	-902.21
WP2	-69.0356866	40.04496151	-850.08	WP2	40.0501035	-69.03626548	-811.56
WP3	-69.03500533	40.04688834	-824.39	WP3	40.05143768	-69.03626444	-785.27
WP4	-69.03543387	40.04860089	-809.99	WP4	40.05196167	-69.03581954	-744.49
WP5	-69.0362121	40.05011889	-786.62	WP5	40.05260015	-69.03568581	-737.56
WP6	-69.03619271	40.05144234	-780.63	WP6	40.05257569	-69.03350345	-623
WP7	-69.03580359	40.05196784	-742.56	WP7	40.05247318	-69.03238522	-507.02
WP8	-69.03570599	40.05261001	-733.51	WP8			
WP9	-69.03350704	40.05261001	-610.62	WP9			
WP10	-69.03247543	40.05255183	-516.43	WP10			
WP11	-69.03231966	40.05251273	-505.96	WP11			
WP12				WP12			
WP13				WP13			
WP14				WP14			
WP15				WP15			
Recovery				Recovery			



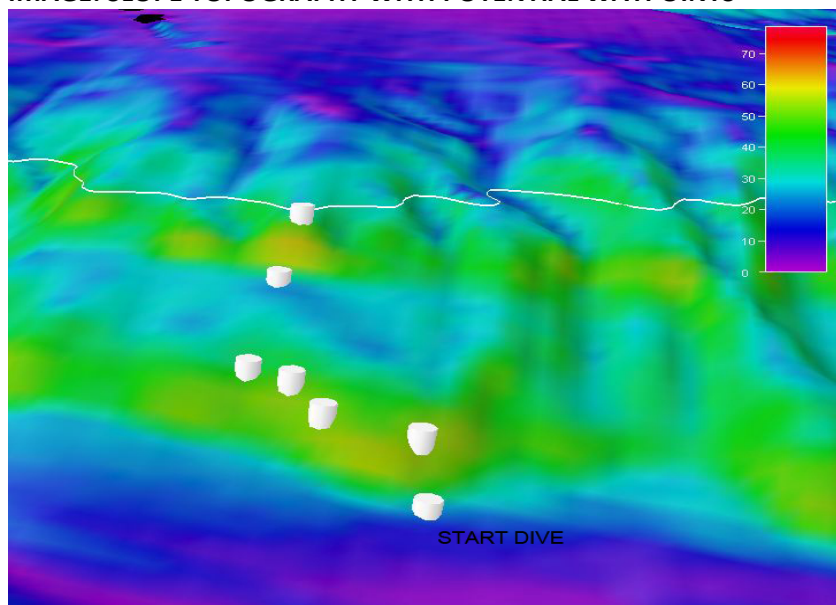
NOAA Okeanos Explorer Program

ROV Dive Planning Form

DIVE PLAN OVERVIEW

Because of the length of the dive plan proposed, we are modifying the dive track to start at the base of proposed waypoint 5 (See map above). The plan is to move up and along the slope until the waypoint (previous wpt 8) where we will turn up slope, allowing us to cross depth range of 900-500 m

IMAGE: SLOPE TOPOGRAPHY WITH POTENTIAL 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			
North			
East			
South			
West			