



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 Brian.Kennedy@noaa.gov

Site Name: USGS-PR5

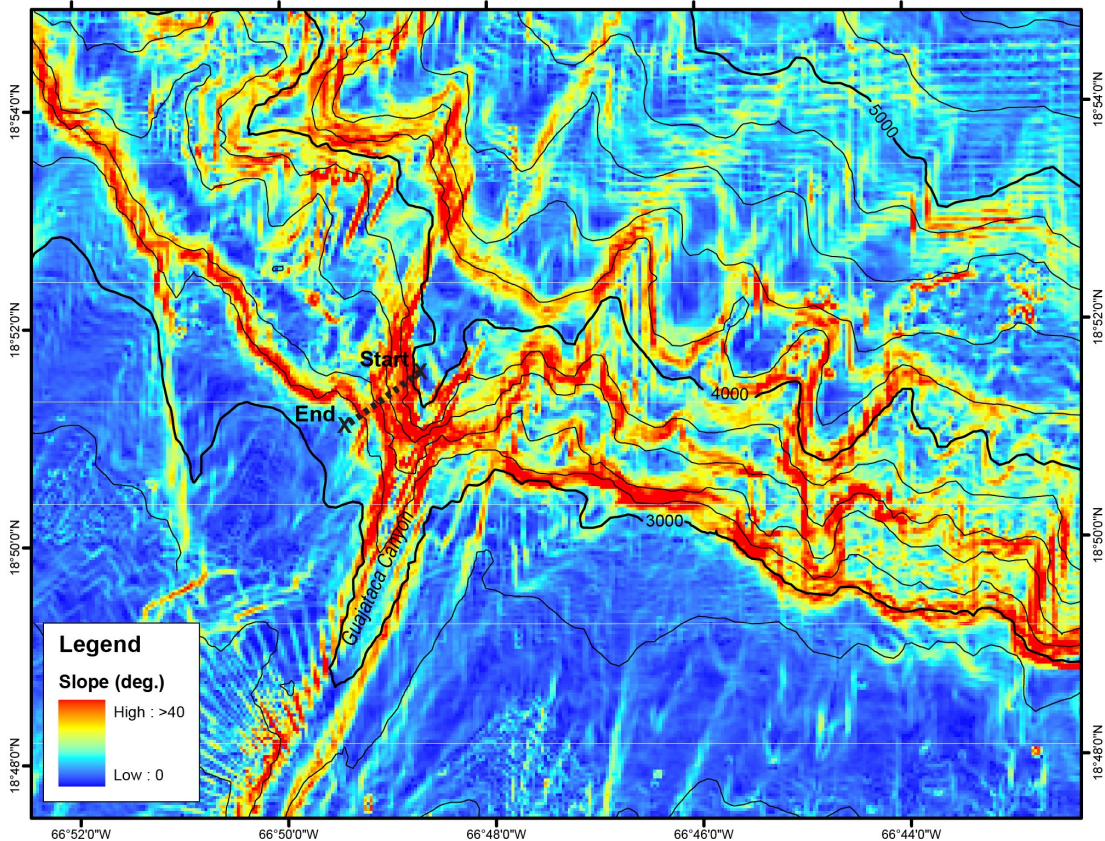
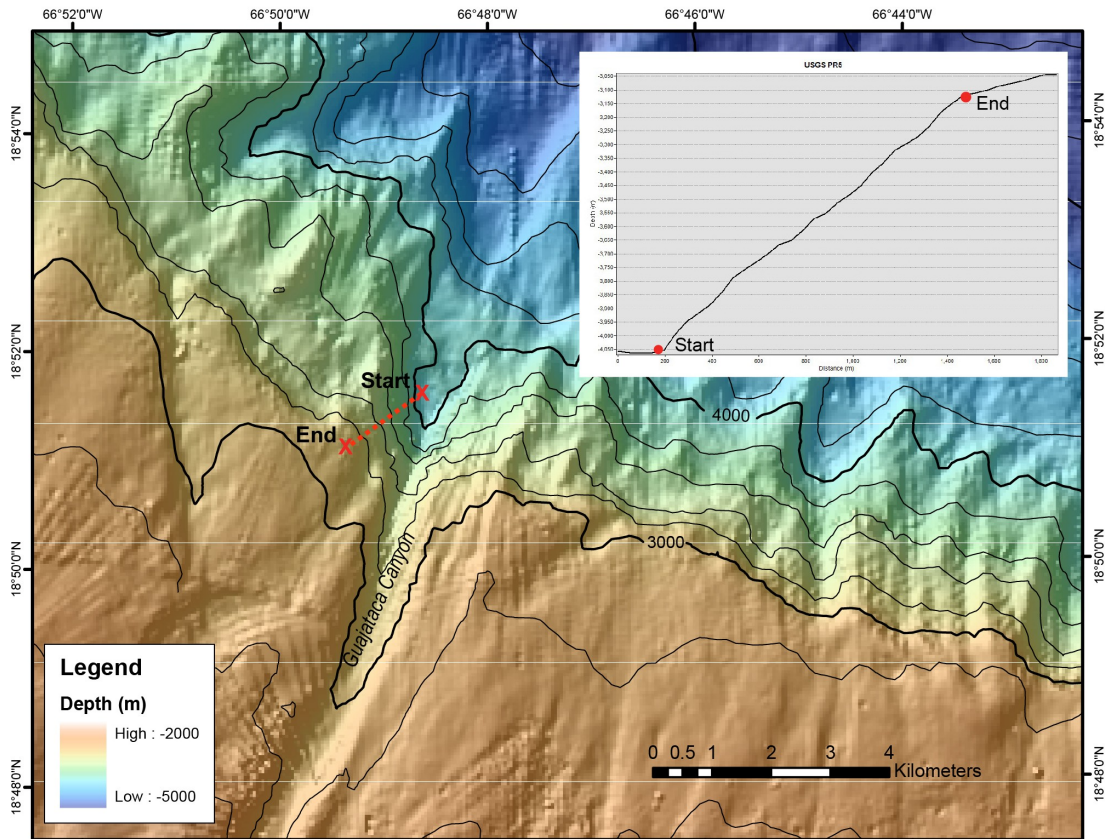
Approximate Location: 66° 48.68802'W 18° 51.57428'N

Dive Date (local): DATE (2015/04/09)



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UPDATED: April 9, 2015



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

This dive is located on the marginal escarpment of the PR-VI carbonate platform within the Arcibo Amphitheatre adjacent to Guajataca Canyon. The purpose of this dive is to investigate the lithology of the exposed rocks along the escarpment, identify features that could be related to failure of the escarpment/platform, and to look for evidence of sediment flows emanating from the canyon. Fresh water may seep out along the marginal escarpment, but strong evidence for this has not been presented.

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

No known hazards. Mapping and seismic reflection profiling, but no submersible/ROV dives.

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 | | | | | | | |
| WP1 | 18.85957 | -66.81147 | 4070 | | 18.8601801 | -66.8104576 | 4055 |
| WP2 | 18.85156 | -66.82625 | 3060 | | 18.85957 | -66.81147 | 4055 |
| WP3 | | | | | 18.85156 | -66.82625 | 3081 |
| WP4 | | | | | | | |
| WP5 | | | | | | | |
| Recovery | | | | | | | |

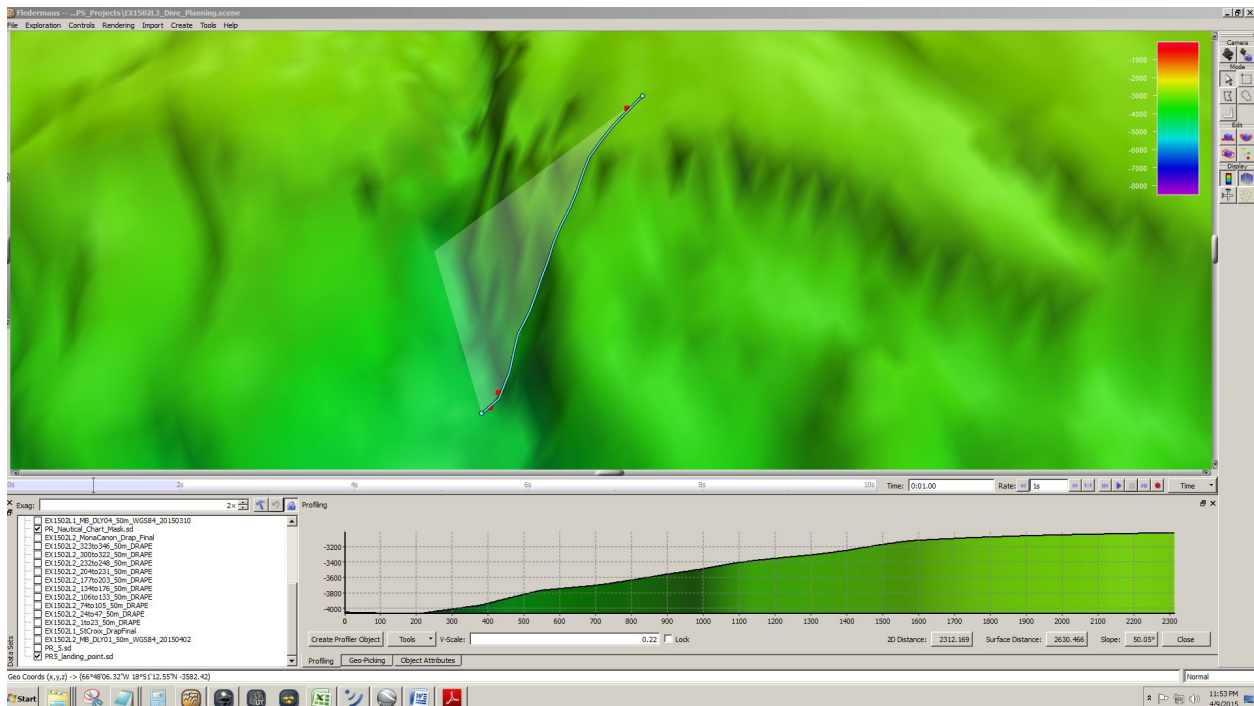
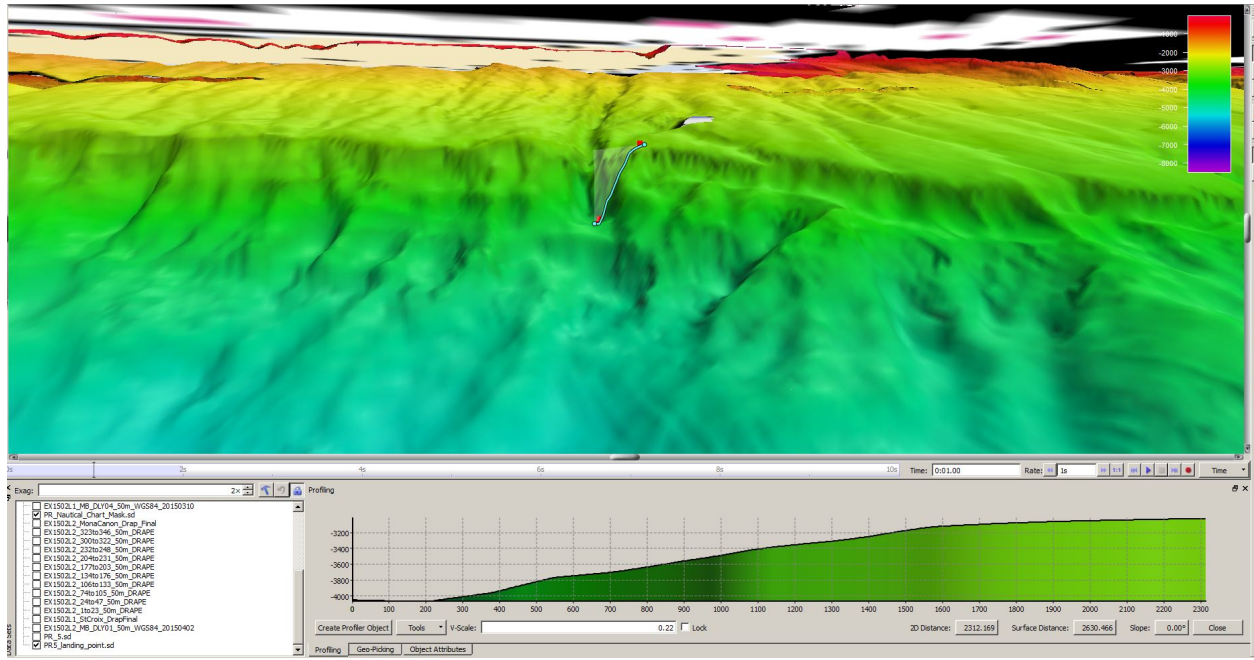


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DIVE PLAN OVERVIEW

Maps of the proposed dive transect overlain onto the multibeam bathymetry. A landing point (WPT 1) was chosen approximately 150 m from the waypoint provided at the base of the wall (WPT 2). We will transect to this area and move up slope towards WPT 3 covering depths of ~4050 to 3080 m.



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ANCILLARY INFORMATION:

Prior to the dive, we will be mapping a 40 X 20 km area at 25 m resolution. This effort will cover a large area of the marginal escarpment and include the Arecibo and Loiza Amphitheaters.

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 | | | |