



## **Document Purpose**

*This document is an addendum to the overarching Okeanos Explorer FY11 Data Management Plan (EX\_FY11\_DMP.doc) and is specific to the EX-11-04 mission entitled “Mid-Cayman Rise Exploration” For more detailed information on the data management effort for the Okeanos Explorer in FY11, please refer to that document.*

## **Data Management Overview**

The fourth *Okeanos Explorer (EX)* mission of the FY11 field season will take the ship from Balboa, Panama to Key West, Florida and along the way, will explore the Mid-Cayman Rise in British waters around the Cayman Islands. During transits to and from the primary operating area, underway meteorological and oceanographic data and multibeam mapping survey data will be collected. During the approximately ten days at the Mid-Cayman Rise, multibeam mapping, CTD/rosette casts and ROV dive operations will be performed. High-definition imagery, water samples, gas chromatography, CTD and multibeam data will be generated and managed from this mission. The ship will segment bathymetric survey tracks when crossing over EEZ areas so that each coastal state through whose waters the EX cruises will receive a data package of all data collected in their waters after the mission is complete. The expedition coordinator will mark the dates/times of the EEZ crossings so that the data management team can segment the underway data for the coastal states data delivery. No data, underway or operational, will be collected in Columbian or Cuban waters during this mission.

## **Assumptions**

All data from the entire mission will be publicly releasable. No protected sites have been identified.

## ***EX-11-04: Mid-Cayman Rise Exploration (August 2 – August 18, 2011)***

## **Data Management Objectives**

The DMT’s objectives for this mission are:

- Develop ISO metadata for collection-level and dataset-level records (multibeam, CTD, SCS, gas chromatograph, water sample analysis, imagery, and video) for NOAA and for delivery with foreign data sets.
- Ensure the near real-time update of the *Okeanos Atlas* with
  - Add new data layers as contextual data to the display, including primary operating area, planned survey boundaries, and any other appropriate data layers found.
  - Ship track and hourly observations received via email.
  - CTD launch sites and profiles received via URI SRS. DMT will post-process and thin the profiles for quicker display on the site.
  - Daily logs pulled from URI through RSS feeds and links to related images on oceanexplorer.noaa.gov website.
  - Daily cumulative bathymetric image overlays received via URI SRS.

## Okeanos Explorer Data Management Plan: EX-11-04

- Test new ship track KML received via URI SRS, if applicable.
- Cross train backup personnel in SOPs.
- Post-Mission:
  - Execute multibeam data, METOC data, and video/image data pipelines.
  - Deliver ISO metadata and corresponding data collected within the EEZ of foreign coastal states to those states.

### **Expedition Principals for Data Management**

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