OKEANOS EXPLORER

EX-11-01: EXPLORING CALIFORNIA SEAMOUNTS AND ARCHAEOLOGY TARGETS
DATA MANAGEMENT PLAN

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-11-01 mission entitled "Exploring California Seamounts and Archaeology Targets." For more detailed information on the data management effort for the Okeanos Explorer in FY11, please refer to that document.

Data Management Overview
In its first mission of the FY11 field season, the *Okeanos Explorer* (EX) will perform shakedown exercises of its systems and crew before performing multibeam patch tests over targeted areas in West Coast sanctuaries identified by the National Marine Sanctuaries Program (NMSP) and the National Marine Fisheries Service (NMFS). Exploration activities will involve high-resolution multibeam mapping and water column analysis along with CTD operations, XBT operations and testing of a newly installed RESON sound velocity profile instrument and comparing its results with the other instruments. The Data Management Team (DMT) will do its part in the proper management of the recorded data, the edited data and products that result. A shore-side repository server (SRS) at the University of Rhode Island (URI) will be utilized for data transfer from the ship and for data pick up by the DMT. A new folder structure and file naming convention will be followed to standardize and streamline the data pipelines.

EX-11-01
  ❖ ***Ship Shakedown, Patch Test, CA Seamount and Archaeological Site Exploration (Mar 16 – Apr 1, 2011)***

Data Management Objectives
The DMT's objectives for this mission are:
- During the mission:
  - Test the new folder structure and file naming conventions defined during the off-season to streamline data flow and metadata generation.
  - Review and refine Standard Operating Procedures (SOP) for Data Management efforts.
  - Ensure the near real-time update of the *Okeanos Atlas* with
    - 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.
    - Test new ship track KML received via URI SRS.
  - Cross train backup personnel in SOPs.

- Post-Mission:
    - Enhance multibeam raw file metadata with indications of issues or problems that may affect the quality of the data. Include similar metadata records for corresponding water column data files.
    - Test generation of NetCDF3 file generation from SCS data and compare results to ASCII SCS data from SRS to ensure comprehensive data capture.
    - Test Video Metadata System (ViMS) for generation of product level metadata in MARC for the NOAA Central Library.
    - Test ISO metadata transforms for cruise-level metadata.

Expedition Principals for Data Management
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