Data Management Plan

Primary Investigator: C. Geoffrey Wheat
Institution: University of Alaska Fairbanks
Project: Collaborative Research: Discovery, sampling, and quantification of flows from cool yet massive ridge-flank hydrothermal springs on Dorado Outcrop, eastern Pacific Ocean
Collaborators: Fisher and Hulme
NSF Division: OCE
Solicitation Info: NSF-MGG (PD-98-1620)
Submission Date: 02/15/2011

Overview

We will use the AUV Sentry to map a ridge flank basaltic outcrop on 20 Ma crust to create bathymetric, sediment thickness (sub-bottom sonar), water column anomaly, and photo mosaics maps. We will then use the ROV Jason II to locate and sample hydrothermal springs (fluid, temperature, and flow rate) and to collect sediment push cores and heat flow measurements.

Data description

Dorado Outcrop 9 degrees 5' N; 87 degrees 6'W;

Description of present data and samples

Pore water - Wheat and Fisher 2008
Heat flow - Fisher et al., 2003; Hutnak et al., 2007; Hutnak et al., 2008

Data analysis summary

Wheat - pore water and spring fluid composition
Fisher - Heat flow and flow rate
Hulme - Sentry data

Includes field work? Yes
Description of field work

Single expedition with 16 days on site

Expected data product #1
Data type: Analytical
Responsible investigator: Wheat
Product description

Pore and spring fluid compositions
Intended repository: VentDB
Timeline for data release: End of grant period

Expected data product #2
Data type: Analytical
Responsible investigator: Fisher
Product description

Heat flow and fluid flow rate
Intended repository: NGDC
Timeline for data release: End of grant period

Expected data product #3
Data type: Analytical
Responsible investigator: Hulme
Product description

Bathymetric, sediment thickness, Water column anomalies

INTEGRATED EARTH
DATA APPLICATIONS
iedadata.org

Intended repository: NGDC
Timeline for data release: End of grant period

Expected data product #4
Data type: Analytical
Responsible investigator: Hulme
Product description
   images from Sentry and Jason II

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Preservation plan
   Images from Sentry and Jason II are typically stored on a WHOI-based repository

Timeline for data release: Sixty days after acquisition