

Data Management Plan

Primary Investigator: Charles Wheat
Institution: University of Alaska Fairbanks
Project: Collaborative Research: Completing single- and cross-hole hydrogeologic and microbial experiments: Juan de Fuca Flank
NSF Division: OCE Solicitation Info: NSF OCE ODP 05-5720 Submission Date: 08/15/2012

Overview: At the center of these studies are the cross-hole tracer experiments (begun on IODP Expedition 327 in 2010), and the long-term, multi-dimensional, cross-hole flow experiment (begun on AT18-07 in Summer 2011). Completing the tracer experiment requires recovery of downhole sampling and measurement systems so that we can quantify the presence of dissolved gas, ions, and particle tracers in the years following tracer injection.

Data description: digital pressure, temperature and flow rate. Chemical - major, minor, and trace ions, dissolved SF6, and microspheres

Data analysis summary: The digital data (temperature, pressure, and flow rate) will be corrected for instrument drift. Pressure data will be de-tided. All chemical data will be based on appropriate standards

Includes field work? Yes

Description of field work: We are requesting a 14 day ROV expedition to the eastern flank of the Juan de Fuca CORKS (instrumented boreholes)

Expected data product #1 Data type: Observational, Analytical Responsible investigator: Wheat Product description: major, minor and trace elements in seawater Intended repository: VentDB Timeline for data release: Two Years from acquisition/analysis

Expected data product #2 Data type: Observational, Analytical Responsible investigator: Fisher Product description: flow meter data Intended repository: NGDC Timeline for data release: Two Years from acquisition/analysis

Expected data product #3 Data type: Observational, Analytical Responsible investigator: Cowen Product description: microspheres Intended repository: VentDB Timeline for data release: Two Years from acquisition/analysis

Expected data product #4



Data Management Plan

Data type: Observational, Analytical Responsible investigator: Clark Product description: dissolved SF6 Intended repository: VentDB Timeline for data release: Two Years from acquisition/analysis

Expected data product #5 Data type: Observational, Analytical Responsible investigator: Becker Product description: pressure and temperature data Intended repository: NGDC Timeline for data release: Two Years from acquisition/analysis

Expected data product #6 Data type: Observational, Analytical Responsible investigator: Edwards Product description: microbiological Intended repository: GenBank Timeline for data release: Two Years from acquisition/analysis