

**HAWAI'I UNDERSEA RESEARCH LABORATORY
QUICK LOOK REPORT**

MISSION STATUS

Location: Brothers Caldera Wall, NW

Latitude: 34°51.657S

Longitude: 179°03.428E

Mission Date: 15 May 2005

Duration: 8hrs 48mins

Maximum Depth (m): 1588

Project Title: NIUST OBCR Extremophile Cruise

Principal Investigator: Marc Slattery

Address: University of Mississippi, Dept of Pharmacognosy, University, MS 38677

Phone: 662-915-1053

Observer 1: Marc Slattery

Address: see above

Pilot 1: Terry Kirby

Pilot 2: Max Cremer

Scientific Data Acquired: Prepare an abstract outlining your objectives, techniques, findings, etc.

Objectives: Collect micro and macro-organisms from submarine volcanic vent fields for analysis of unusual bioactive compounds. Sub was deployed to "hot-spots" identified on previous legs of the cruise. Sub was outfitted with DVD cameras to record all observations, and with sampling devices- suction sampler, sediment scoop, niskin bottles, and a bioreactor. Dive resulted in 12 samples including water, rock, and macroorganisms.

MISSION EVALUATION:

Limitations, failures, or operational problems noted: n/a

Recommendations for corrective action or improvement: n/a

In your opinion, did the mission essentially achieve its purpose? Compare actual work accomplished with the work that was expected to be accomplished. Yes- all goals met.

List specimens or samples collected on the mission.

3 sediment scoops

mussels

tubeworms

3 Niskin water samples

2 suction samples of bacterial mats

1 sulfide chimney

1 water sample in bioreactor containing microbes (?) from vent (49C)

DATA RELEASE

Data may be retained by the project leader for up to 2 years after the mission date with the following exception. NOAA may request to use photos for publication or publicity purposes at any time. Fill in the appropriate statement below and sign this form.

I hereby release the data archived by HURL for public consumption following mission held on in the following way:

a. CTD data by (date) n/a

b. video and images by (date) 15 May 2005

c. other (date) n/a

d. I will give my written consent to individuals wishing to use these data prior to the above dates depending on the nature of the request(s).

Principal Investigator