

HAWAII UNDERSEA RESEARCH LABORATORY
QUICK LOOK REPORT MISSION NO. P5-393

MISSION STATUS

Location: LOIHI
Mission Date: 10/7/98
Maximum Depth:
Project Title: ~~GEOCHEMICAL~~ TEMPORAL EVOLUTION OF LOIHI SEAMOUNT
Principal Investigator: SANSONE
Address: OCEANOGRAPHY, UH

Phone: 808-956-8370
Observer 1: F. SANSONE
Observer 2: N/A
Address: Address:

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

(SEE ATTACHED SHEET)

CHEMICAL, BIOLOGICAL, + GEOLOGICAL SAMPLES
WERE COLLECTED TO DOCUMENT THE
TEMPORAL EVOLUTION OF LOIHI'S HYDRO-
THERMAL SYSTEM FOLLOWING THE 1996
SEISMIC EVENT.

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

NONE

Recommendations for corrective action or improvement:

NONE

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

DIVE WAS EXTREMELY PRODUCTIVE AND
EXCEEDED EXPECTATIONS

List specimens or samples collected on the mission.

SEE ATTACHED SHEET

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

TEMPORAL EVOLUTION OF LOIHI SEAMOUNT (project title)

held on 10/6/98 (date) in the following way:

- a. CTD data by 10/8/00 (date)
- b. voice transcripts, video, and still camera film by 10/8/00 (date)
- c. other 10/8/00 (date)
- 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

PISCES SAMPLE LOG -- Loihi Cruise -- October 1998				10/7/98		
Dive #: 393				Date of Dive: 10/6/98	Observer(s): Sansone	
Time	Location	Depth	Nav Fix	Sample type	Sampler ID	Comments
1222	Marker 20	1306 m		OsmoSampler		Digital video of sampler from 1997
				Temp probe	84 C	At site of 1997 Osmo (Dig vid)
1248	"	1317 m		OsmoSampler		Deploy new sampler
1252	"			OsmoSampler		Recover sampler from 1997
1256	"			Niskin		Accidentally deploy
~1310	"			Major	Blue handle	Deployed in same vent as OsmoSampler (see video: end of tape 1) Some ambient sw entrained as sampler is tripped several times (slow sample suction)
1327	"			Gas tight	Dark barrel	Black handle. Collect sample
1330	"			Spooge sucker	#1-4	Sample 1 m left of Osmo (was 68C a week earlier) (Dig vid)
	"			Mat sampler	7	Placed on mini-chimneys above spooge collection spot; 2 rocks put on top
1345	"			Rock		Fell from above the mat sampler (Dig vid)
1350	Marker 11	1303 m		OsmoSampler		Recover OsmoSampler from 1997 (Dig vid)
1405	"			Temp probe	161 C	In hole where Osmo was sampling (Dig vid)
1410	"			Fish video		Chimira (Dig vid)
1423	"			Gas tight	Silver barrel	Red handle (good sample)
				Major	Black handle	Dig vid
				Mat sampler	10	Dig vid
1442	Move upslope	1299 m		Mat sampler	6	Collect sampler from 1997 (~8C)
1445	Lower Jet Vents	1297 m		Temp probe	167 C	Dig vid
	"	1298 m		Mat sampler	9	Placed next to Lower Jet Vents
	"			Temp probe	10 C	Measured in vent near to mat sampler
				Spooge sucker	#5-8	Buckets #7 & 8 had limpets
1507	New marker 10					"Hot Vents" just above marker 19
1513	"	1306 m		Mat sampler	4	Recover sampler from 1997
1522	"			Temp probe	165 C	
1524	"			Sand scoup	4	Collect silty sample from next to Hot Vents
1532	Marker 33	1302 m		Temp probe	129 C	Marker is hard to see: is lying flat on bottom
1541	"			Mat sampler	8	Sampler held down by big chunk of mud (Dig vid)