

HAWAII UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT MISSION NO. P5-337

MISSION STATUS

Location: Loihi

Mission Date: Sept.10, 1997

Maximum Depth: 1300 m.

Project Title: Chemical & Heat Fluxes from Loihi

Principal Investigator: F.J. Sansone

Address: Dept. of Oceanography
University of Hawaii
Honolulu, HI 96822

Phone: (808)956-8370

Observer 1: F. Sansone

Observer 2: Tym Catterson

Address: as above

Address: HURL

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

The primary objective was to collect the osmosampler and miniature temperature recorder left at Lohiau vents in Oct., 1996, and to collect vent fluid, rock, and microbiological samples at this site.

The secondary objective was to collect the same types of samplers at an un-named vent system on the southern floor of Pele's Pit.

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

video recorder jammed 30 min. into tape #1

Recommendations for corrective action or improvement:

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

All mission objectives were accomplished.

List specimens or samples collected on the mission.

see attached list

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

Chemistry & Heat Fluxes from Loihi (project title)

held on Sept., 1997 (date) in the following way:

- a. CTD data by Sept., 1999 (date)
- b. voice transcripts, video, and still camera film by Sept., 1999 (date)
- c. other Sept., 1999 (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 -- September 1996				9/10/97		
Dive #:	337			Date of Dive:	9/10/97	
				Observer(s):	Frank Sansone	
Time	Location	Depth	Nav Fix	Sample type	Sampler ID	Comments
918	On bottom					
1039	At Hiolo Vents	1288				South side of Pete's Pit, south of 1300 m vents; loose rubble with high vent flow rates Laser used to measure vent dimensions
1048				Max temp = 59		
1106				Gas tight (GT)	Green	
1115				Major	Blue	Triggered thru landslide
1122				Rock sample	Left basket	Angular, reddish rock from vent
1127				Suction	1, 2	Red flock
1153			ccQ8			
1205	Transit	1252				Intense venting seen at base of overhanging wall on the right
1210	Transit					Lots of venting from all sides of pinnacle (video & pics); summit is at 1200m
1221	Transit	1220	ccQ9			Move upslope to Sand Channel
	Transit	1213				Lots of coarse black sand with venting
1235	Transit	1170	crP9			
1328	Lohiau Vents, marker 5			Suction	3, 4	Thick (2") layer of cohesive mat -- when knocked loose exposes bare, black, coarse rock pebbles. Note: no mat seen on marker's lead weight.
1349	Lohiau Vents, marker 2			Max temp = 49		
1358	Osmosampler site	1171				10 m upslope from marker 2. Thick blanket of mat.
1406				Max temp = 43		
1410				GT	Blue	
1426				GT	Black	
1434				Major	Red	
1446				Major	Yellow	Sampler fires SLOWLY
1450				Suction	5, 6, 7	Sample spooge next to Osmosampler
1453				Biosamplers	7, 8, 9, 11	Fiberglas samplers deployed in/on vents next to Osmosampler
1458				Rock sample	Center basket	Two small black rocks
1508				Niskin		Tripped next to Osmo
				Scoop	7	
1518						Recover MTR and Osmosampler