

HAWAII UNDERSEA RESEARCH LABORATORY
QUICK LOOK REPORT MISSION NO. P5-342

MISSION STATUS

Location: Loihi south rift

Mission Date: Sept.21, 1997

Maximum Depth: ~1340 m.

Project Title: Mass & Heat Fluxes

Principal Investigator: F. J. Sansone

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

Phone: (808)956-8370

Observer 1: F.J. Sansone

Observer 2: Chuck Holloway

Address: as above

Address: HURL

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

A survey and sample collection transect was made from Naha vents to Pohaku vents. The following samples were taken: 3 "Major" Titanium syringe samples, 1 Lupton gas-tight sample, 6 suction samples, 4 scoop samples, and one rock. 5 temperature measurements were also made. (see attached list)

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

Starboard videotape recorder failed early in dive. Pan and tilt for digital camera was weak (slow). P & T for Panasonic camera was too sensitive to control accurately.

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

Mass and Heat Fluxes (project title)

held on 9-21-97 (date) in the following way:

- a. CTD data by 9-21-99 (date)
- b. voice transcripts, video, and still camera film by 9-21-99 (date)
- c. other 9-21-99 (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					9/21/97	
Dive #:	342			Date of Dive:	9/21/97	
				Observer(s):	Frank Sansone	
Time	Location	Depth	Nav Fix	Sample type	Sampler ID	Comments
9:38	On bottom		urZ10			Pillow field; head to WSW
10:02	At marker 3 and 6, NAHA VENTS					
10:05	At marker 1; OSMO CRACK	1325				
10:22				Suction sampler	1	Flush
10:29				Suction sampler	2	Spooge sample
				Suction sampler	3	Spooge sample
	In hole with Osmo probe			Temp		10C; very weak venting Ambient temp = 3.8C
10:39	In hole to right of OsmoSampler			Temp		11C
10:53				Gas tight sampler	Blue handle #9	Insterted way into hole
11:02				Gas tight sampler	Black handle #5	
11:16				Major sampler	Red band	
11:25				Major sampler	Blue band	
				Rock	Left basket	From above the Osmo; shell of pillow
12:04	Move to marker 3			Temp		11C; weak venting
12:38	Marker 1					Deploy new OsmoSampler in same site as old one
12:51				Scoop	9	Collect scoop from just below Osmo
12:53						Leave Naha, head north
	Valley between pillow ridges	1339		Scoop	6	White silt on coarse brown sand; taken through worm burrow
						White worm in circular moat is apparent deposit feeder
				Suction sampler	4	Unsuccessful attempt to collect worm
13:34	Pinacle of ridge	1285	ccX10	Scoop	10	Black sparkling sand on big pillows
14:20	NE slope of Kaupo's mound	1234	lcV9	Temp		15C; Diffuse venting
14:36	Summit of Kaupo's mound	1221				Head north
14:48		1288		Scoop	1	White veneer on black sand with large red silt layers; head north
15:04	Pinacle	1240	lrT9			Head west for Pohaku Vents
15:30	POHAKU VENTS - Marker 27	1296				Very little venting at marker
15:55	Move to vent ~5 m right of marker					
				Suction sampler	5	White, fluffy mat IN crack (fills the crack)
				Suction sampler	6	White, fluffy mat IN crack (fills the crack)
				Temp		11C
				Major samper	Green band	Sample didn't trip until many tries