D6

USGS DREDGE OPERATIONS LOG

		JD	LOCAL
CRUISE	KODOS 98-3	DATE 236	8/24/98
STATION	H5	CHIEF SCIENTIST	Lee
DREDGE NO.	D6 (Page #1)	TECH ON WATCH	

DEPTH INTERVAL (m) on-off bottom: 2720 - 1779 ← same Corrected water Depth

	ON STATION	DREDGE ON BOTTOM	DREDGE OFF BOTTOM	OFF STATION
GMT	12:19	13:07.28	17:23	17:55
latitude	08° 53.889 N	8° 53.527 N	8° 51.810 N	8° 51.530 N
longitude	137° 36.490 E	137° 37.018 E	137° 41.359 E	137° 41.524 E
water depth	2736 m	2720 m	1779	1712

Site Description and Target:

Yap Arc dredging

Operation*	GMT	Depth (m)	Wire Out (m)	Tension	HDG/SPD	Comments
wire out	13:14:43.92	2722	3300	1.3	123.1 / 1.2	08° 53.457 / 137° 37.08
Positions	13:29:13	2718	3304	1.5	109.5 / 1.2	
"	13:38:28	2715	3304	1.6, 1.7	98.8 / 1.2	
Small bite	13:39.43	2715	3305	to 1.8	102.0 / 1.2	8° 53.328 / 137.37.586
Small bite	13:40.43	2713	3306	2.0, 2.1	122.6 / 1.2	8° 53.324 / 137.37.624
Positions	13:53.43	2706	3306	1.6	118.4 / 1.3	8° 53.198 / 137.37.901
"	14:23.13	2698	3306	1.5	116.0 / 0.3	
Small bite	14:37.58	2692	3268	1.6, 1.8	123.5 / 1.1	8° 53.925 / 137.38.130
"	15:11.13	2638	3245	1.6, 1.7	108.4 / 0.8	8° 52.737 / 137.39.217
"	15:20.43	2639	3227	1.8, 1.9	106.1 / 0.7	
"	15:26.13	2621	3209	2.1, 2.0	108.1 / 0.8	8° 52.681 / 137.39.445
"	15:46.43	2462	3192	2.0, 1.9	108.5 / 0.8	8° 52.519 / 137.39.795
Small bite	16:04.43	2392	3154	1.6 ~ 1.9	144.8 / 0.4	
Small bite	16:22.58	2274	3072	1.6 ~ 1.8, 2.0	106.1 / 0.8	8° 52.226 / 137° 40.310

*on/off bottom, bites, etc.

Other Comments:

USGS DREDGE OPERATIONS LOG

		JD	LOCAL
CRUISE	KODOS 98-3	DATE	236 8/24/98
STATION	# H5	CHIEF SCIENTIST	Lee
DREDGE NO.	D6 (Page #2) on-off bottom	TECH ON WATCH	
DEPTH INTERVAL (m)			

	ON STATION	DREDGE ON BOTTOM	DREDGE OFF BOTTOM	OFF STATION
GMT			17:23	
latitude			8°51.810 N	
longitude			137°41.359 E	
water depth			1779	

Site Description and Target: Yap Arc Hydrothermal Area.

Operation*	GMT	Depth (m)	Wire Out (m)	Tension	HDG/SPD	Comments
small bite	16:31:58	2107	2956	1.7, 1.8	105.8 / 0.9	
small bite	16:41.58	1988	2819	1.7	105.8 / 1.1	
"	16:52.26	1945	2651	1.4, 1.5	105.4 / 0.4	8°52.009 / 137°40.883
"	17:10.43	1870	2211	1.4	105.3 / 0.6	8°51.9017 / 137°41.129
"	17:19.58	1815	1988	1.2	106.0 / 0.7	8°51.851 / 137°41..
off bottom	17:23	1779	1800	1.2	104.8 / 0.4	

*on/off bottom, bites, etc.

Other Comments:

DREDGE LOG

	JD	LOCAL
CRUISE KODOS 98-3	DATE 236	8-24-98
STATION H5		
	GMT on-off bottom	LOCAL on-off bottom
DREDGE D6	TIME 13:07:28 / 17:23	22:07 ~~21:19~~ / 03:23
DEPTH INTERVAL (m) on-off bottom 2720-1779	LATITUDE on-off bottom 8°53.527'N - 8°51.81'N	
DEPTH (m) CORRECTED 2720-1779	LONGITUDE 137° 37.018'E - 137° 41.359E	

TOTAL WEIGHT: DREDGE <2kg 1.28 CRUST < 00.1

% OF ROCK COVERED BY CRUST 1

% BROKEN FROM: OUTCROP ~~0~~ <1 TALUS 100

THICKNESS OF CRUST: MAX <1mm MIN <1 AVG <1

DOMINANT SURFACE TEXTURE Smooth

SUBSTRATE LITHOLOGY Pumice, 1or2 small breccia fragments

NODULES PRESENT

REMARKS: about 75 Pumice pebbles + 3 brittle stars

52
2)104
468
2)1337
12

810
527
1337

37 018
41 359
37 1858
2)78 3)377
6 2
18 17
14
17

SAMPLE DESCRIPTION

Cruise Id: KODOS 98-3 Size (mm): ~ 75 pebbles Location: 08° 52.668′ N 137° 39.188′ E

Sample Id: D6-1 Weight (kg): 1.25 Depth (m): 2720 - 1779

Mn Crust Description

Surface Texture: No Crust

No Photo

Mn Crust Thickness (mm):

Min:_____ Max:_____ Ave:_____

Outer to Inner Layers (mm)

	Min	Max	Ave	Texture & Color
1				
2				
3				
4				
5				
6				

Comments and XRD Mineralogy:

Analyses

Subsample No.	Analysis	Layer Thick.	Wt.(g)
	100% FORDI		

Substrate Description

Rock Type: Pumice

Description: Gray To gray-brown

Biology (?):

Described by: Hein

Subsampled by:

SAMPLE DESCRIPTION

Cruise Id: KODOS 98-3 Size (mm): 35 x 40 x 20 Location: 8°52.668'N

Sample Id: D6-2 Weight (kg): .03 Depth (m): 137°39.188'E

2720-1779

Mn Crust Description

Surface Texture: V- Sparce

patchy granular

Mn Crust Thickness (mm):

Min:_____ Max:_____ Ave: <<1

Outer to Inner Layers (mm)

	Min	Max	Ave	Texture & Color
1				
2				
3				
4				
5				
6				

Comments and XRD Mineralogy:

Could be a pebble from D5, but rock Type somewhat different

Substrate Description

Rock Type: Breccia

Description: Brown volcanic(?) rock frags. Completely altered to Clay minerals in gray-green matrix of clay minerals + calcite(?) cement - veins of quartz(?) + hydrothermal Mn?

Biology (?):

Analyses

Subsample No.	Analysis	Layer Thick.	Wt.(g)
	100% KORDI		

Described by:

Hein

Subsampled by: