DREDGE SAMPLE LOG

			JD	LOCAL
CRUISE	KODOS97-4	DATE	236	8-25-97
STATION	01		GMT	LOCAL
DREDGE	D1	TIME	1753-1859	0553-0659
DEPTH INTERVAL(m)	1752-1909	LATITUDE (N,S)	on 9°25.01'	off 9°23'.64
DEPTH(m) CORRECTED	1750-1600	LONGITUDE (E,W)	166° 02.93'	166°02.5'

TOTAL WEIGHT : DREDGE 2 kg CRUST 0.2 kg

%OF ROCK COVERED BY CRUST 0% (no rock, all crust)

%BROKEN FROM : OUTCROP 100% TALUS 0%

THICKNESS OF CRUST : MAX 1cm MIN 0.5cm AVG 0.75cm

DOMINANT SURFACE TEXTURE botryoidal

SUBSTRATE LITHOLOGY ϕ no substrate recovered

NODULES PRESENT ϕ

REMARKS: 3 small crust fragments (<10cm) without substrate rock. Total crust thickness recovered unknown. Also recovered several large fragments of glass sponge

Dredge Bag completely Mn stained

KODOS 97-4 D1

SAMPLE DESCRIPTION

Cruse Id: KODOS97-4 Size(cm): 7.5x5, 4x5, 5x3 Location: R1

Sample Id: D1 - 1 Weight(kg): ~~0.2kg~~ 0.15kg Depth(m): 1750 - 1600

Mn Crust Description

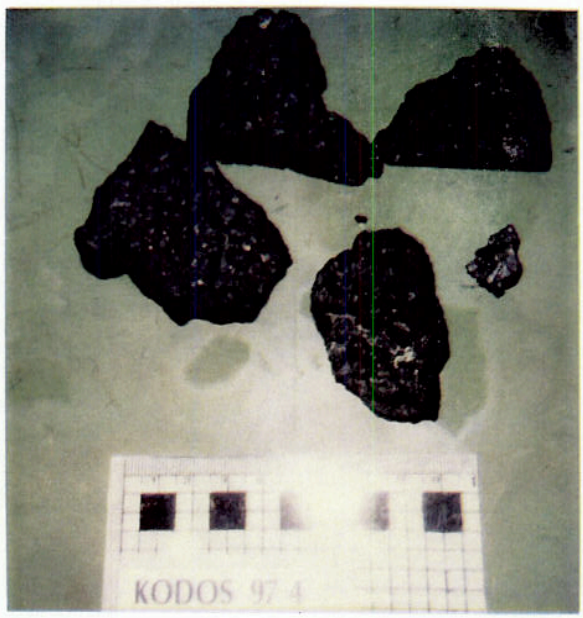
Surface Texture: botryoidal

Mn Crust Thickness(mm):

Min: ~~Fem~~ 5 Max: ~~0.5cm~~ 10 Ave: ~~0.75cm~~ 7.5

Outer to Inner Layers(mm)

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



KODOS 97-4
D1 - 1

Comments and XRD Mineralogy:

one massive black layer

Analyses

Subsample No.	Analysis	Layer Thick.	Wt.(g)

Substrate Description

RockType: no substrate

All to KORDI

Description:

Mineralogy:

Described by: Susie Zielinski

Subsampled by:

SAMPLE DESCRIPTION

Cruse Id: KODOS97-4 Size(cm): 13 pieces range from 3cm to 60cm x 3cm Location: R1

Sample Id: D1-2 Weight(kg): 1.4 kg Depth(m): 1760 - 1600

D1-2
KODOS 97-4

Mn Crust Description

Surface Texture: glass sponges
no Mn

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)

Samples taken by ~~[illegible]~~ HORDI

Substrate Description

RockType: no substrate

Description:

ology: glass sponge pieces
white & brown
brittle star (2cm) inside one piece

Described by: Susan Zielinski

Subsampled by:

DREDGE OPERATIONS LOG

			JD	LOCAL
CRUISE	KODOS97-4	DATE	236	8 25 97
STATION	01	CHIEF SCIENTIST	MOON / LEE / HEIN	
DREDGE NO.	D1	TECH ON WATCH	HEIN	
DEPTH INTERVAL(m)	1752-1909			

ON STATION	DREDGE ON BOTTOM	DREDGE OFF BOTTOM	OFF STATION	
1718	1753	1859	1936	gmt
9° 25.008'	9° 25.01'	9° 23.64	9° 23.328'	lat
166° 02.932'	166° 02.93'	166° 02.50'	166° 02.116'	lon
1858 (2)	1752	1909	0	z

Site Description and Target: Rugged Summit of R1, upper steep slope of ≈ 2000-1500m - Recon Survey

Operation*	GMT	Depth(m)	Wire Out(m)	Tension	HDG/SPD	Comments
on bottom	1753	1752				
wire out	1753	1750.4				letting out wire
beginning dredging	1758	1770			108° / 0.8	spd 0.8 heading 108°
"	1801	1772	2139			
"	1804	1788	2150		162° / 1.0	
"	1805	1783	2157		170° / 1.0	no bites yet
small bite	1813	1827	2195	1.5	159° / 1.0	09° 24.4' / 166° 02.87'
bite	1823	1690	2194	1.8	148° / 1.3*	09° 24.19 / 166° 02.81'
still trying...	1828	1610	2185		137° / 1.4	hanging out...
pulling up.	1851	1857	2130		164 / 0.8	bringing in wire to bring up dredge
off bottom	1859	1909	1909			

*on/off bottom, bites, etc.

Other Comments:

tensiometer only works when ~~winch~~ winch is moving so have to keep paying out wire even when sufficient wire is out.

1841 according to map still heading to summit, but H_2O depths increasing. We may have missed the summit and are conducting a lateral survey.

1850 Have missed summit so will hold ship still & pull in wire, then begin again

1600 was shallowest depth reached (not recorded in box above because no bites.

No rocks, but did get 2 large hunks of silica sponge & one crust without substrate