USGS DREDGE LOG

HOSS

SHIP/LEG F7-87-SC

STATION # 10

DREDGE # D10

DEPTH INTERVAL(m) 2700 - 2650m

DEPTH(m)corrected _____

DATE JD 342 LOCAL _____

TIME GMT 1215 LOCAL 1502

LATITUDE 31°59.1 TO 31°58.8

LONGITUDE 121°28.8 TO 121°28.7

TOTAL WEIGHT: DREDGE 2.5 kg CRUST 2

PERCENTAGE OF ROCK COVERED BY CRUST 100%

PERCENT BROKEN FROM: OUTCROP 90% TALUS 10%

THICKNESS OF MN CRUST: MAXIMUM 52 MINIMUM Patchy AVERAGE 20

DOMINANT SURFACE TEXTURE botryoidal

SUBSTRATE LITHOLOGY Phosphorite, hyaloclastite, old crust fragments, 1 rounded quartzose SS cobble

NODULES PRESENT None

REMARKS: _____

Sampled 2350-2850 m

USGS DREDGE LOG

Julian day 342

local date DEC. 8 (month/day/year)

CRUISE I.D. F7 87 SC

STATION NO. 10 HOSS SMT.

DREDGE NO. 10

Chief Scientist Hein

Marine Tech on Watch O'TOOLE

	ON STATION	DREDGE ON BOTTOM	DREDGE OFF BOTTOM	OFF STATION
GMT.	~~[illegible]~~ 1034	1215	1502	
LATITUDE	~~[illegible]~~ 31°59.6'	31° 59.1'	31° 58.8	
LONGITUDE	121° 28.6'	121° 28.8'	121° 28.7	
H_2O DEPTH (M)		2700 m	2850 m	

P. 1 OF 2

OPERATION (ON/OFF BOTTOM, BITES)	GMT	DEPTH (M)	WIRE OUT (M)	TENSION	COMMENTS
IN WATER	1034	3250			IN WATER
	1100	3240			LOWERING DREDGE
	1108		2000		STILL LOWERING.
	1130	2400			CORRECTED SCALE ON 3.5: WE'RE TOO SHALLOW
					AND SO GOING DEEPER. ALONG LINE
~~ON BOTTOM~~?	1149	2475	2700	2.0?, 2.0?	COUPLE OF 2.0 BITES? RIGHT AWAY, WE'RE
					STILL DRIFTING DOWNSLOPE TO CATCH
					2700 m.
	1200	2570			~~THE~~ TURNED BACK UPSLOPE AT 1217Z
ON BOTTOM	1215	2700			WILL HAVE 3400 SCOPE.
	1230	2570	~~3400~~		ROUTINE.
	1233		3400		SCOPE IS OUT. WILL TAKE UP SLACK AND AWAY WE GO.
	1245	2510	3400		~~[illegible]~~
	1300	2470	3400		~~[illegible]~~
					~~[illegible]~~
	1306			~2.	CHIPPING ALONG. BITES AROUND 2.
	1310				MORE SMALL BITES.
	1313			2.2	SERIES, A LITTLE BIGGER.
	1315	~~2360~~ 2410	3400		ROUTINE.
	1322			2.7, 3.0, 2.5,	
	1324	~~2330~~ 2370			
	1325			3.2	

OTHER COMMENTS: PLANNED DREDGE: ACROSS THE TOP 2700 m to 2700 m ON A BEARING OF ~~[illegible]~~ 300°

LMB Ltd

Sampled 2350-2850 M

USGS DREDGE LOG

Julian day 37

local date DEC. 8 (month/day/year)

CRUISE I.D. F7 87 SC

STATION NO. 10 HOSS SMT.

DREDGE NO. 10

Chief Scientist Hein

Marine Tech on Watch O'TOOLE

	ON STATION	DREDGE ON BOTTOM	DREDGE OFF BOTTOM	OFF STATION
GMT.	1034	1215	1502	
LATITUDE	31° 59.6'	31° 59.1'	31° 58.8	
LONGITUDE	121° 28.6'	121° 28.8'	121° 28.7	
H_2O DEPTH (M)		2700 m	2850 m	

p. 2 of 2

OPERATION (ON/OFF BOTTOM, BITES)	GMT	DEPTH (M)	WIRE OUT (M)	TENSION	COMMENTS
	~~2326~~ 1326			2.9	
	1327			2.2	
	1328			3.6	
	1330	~~2315~~ 2365		2.9	
	1334				~~2.9~~ little over 4 and HUNG UP.
	1345	~~2305~~ 2355			STILL HUNG UP
	1352				STEAMING DOWNSLOPE TO LOOSEN.
	1400	~~2360~~ 2410			ROUTINE SAME
	1412	~~2420~~ 2470			
	1415	~~2435~~ 2485			
	1430	~~2430~~ 2480			
	1435	~~2490~~ 2520			
	1445	DEPTH OK FROM HERE ON	ROUTINE		UP TO 5 TONS TENSION RELEASED AT ~1450Z
	1450				
	1455				NEW TUG OF 3.5. STILL BACKING DOWNSLOPE
	1458	2790			
	1500		~~2790m~~		
OFF BOTTOM	1502	2850	2790m		OFF BOTTOM TENSION ON DREDGE SEEMS TO HAVE BEEN DECEPTIVE
	1530	3085			POSSIBLY A HEAVY LOAD? BRINGING IT UP
ON DECK	1553				ONLY A LITTE BIT. ~~BALL~~
					WILL DO ANOTHER DREDGE AT
					THIS STATION.

OTHER COMMENTS:

~~Rxtrn~~ → 2370+ Bite

Rxat → 2790 Stuck

→ 2850 Free off stuck bottom

LMB Ltd

USGS DREDGE LOG

5 photos

SHIP/LEG F7-87-SC

STATION # 11

DREDGE # D11

DEPTH INTERVAL(m) 2540 - 2560 m

DEPTH(m)corrected _____

DATE JD 342 LOCAL 12-8-87

TIME GMT 1625 LOCAL 0825

LATITUDE 31°59.4 TO 31°59.39'

LONGITUDE 121°28.5 TO 121 28.60'

TOTAL WEIGHT: DREDGE 20 kg CRUST 16 kg

PERCENTAGE OF ROCK COVERED BY CRUST 95%

PERCENT BROKEN FROM: OUTCROP 100 TALUS 0

THICKNESS OF MN CRUST: MAXIMUM 83 MINIMUM Patina AVERAGE 30

DOMINANT SURFACE TEXTURE Smooth

SUBSTRATE LITHOLOGY [illegible]

NODULES PRESENT NONE

REMARKS: _____

Sampled 2540-2560 USGS DREDGE LOG

Julian day 312

local date Dec. 12/8/87 (month/day/year)

CRUISE I.D. F7 87 SC

STATION NO. 11 - HOSS SMT.

DREDGE NO. 11

Chief Scientist Hein

Marine Tech on Watch O'TOOLE

	ON STATION	DREDGE ON BOTTOM	DREDGE OFF BOTTOM	OFF STATION
GMT.	0625	1711	1911	1957
LATITUDE	31° 59.4	31° 59.4'	31° 59.39'	31° 59.59
LONGITUDE	121° 28.5	121° 28.5'	121° 28.60'	121. 28.51
H_2O DEPTH (M)		2540	2560	

p1 of 2

OPERATION (ON/OFF BOTTOM, BITES)	GMT	DEPTH (M)	WIRE OUT (M)	TENSION	COMMENTS
dll in water	0625	2540			
	0630	2535			~~GOT~~ DREDGE GOING DOWN.
	1700	2545			STILL GOING DOWN.
dll on BOTTOM	1711	2540	2600		WILL PAY OUT SCOPE TO 3200 M.
	1730	2435	3200		
	~~1743~~			2.5	STARTING TO HIT.
	1745			2.3	
	1747			2.5	
	1753	2360		2.6	
	1750			2.5, 2.7	
	1757			3.1	
	1758			2.7	
	1800	2320			
	1801	~~2385~~		2.8, 2.5	
	1802			2.8, 3.1	
	1803	~~2370~~		~~3.1~~ 3.1	
	1804			2.9	
	1807				PULLING IN A FEW 100 M OF SCOPE
	1808				WE STUCK
	1815	2300			
	1830	2280			
	1845	2390			

OTHER COMMENTS: Rx at 2540-2560m

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Sampled _____ USGS DREDGE LOG

Julian day 34 2/1987

local date _____
(month/day/year)

CRUISE I.D. F7 87 SC
STATION NO. 11
DREDGE NO. d 11

Chief Scientist Hein
Marine Tech on Watch _____

	ON STATION	DREDGE ON BOTTOM	DREDGE OFF BOTTOM	on deck ~~OFF STATION~~
GMT	1625	1711	1911	1957
LATITUDE	31° 59.4	31° 59.4'	31 59.39	31° 59.59
LONGITUDE	121° 28.5	121° 28.5'	121 28.60'	121 28.51
H_2O DEPTH (M)		2540	2560	

P 2 of 2

OPERATION	LON/OFF BOTTOM, BITES)	GMT	DEPTH (M)	WIRE OUT (M)	TENSION	COMMENTS
		1900	2480	3200		~~WINCH~~ MOTOR ENGINE PROBLEM
				2540		POWER TO WINCH CUT MOMENTARILY.
d 11 OFF BOTTOM		1911	2560	~~2580~~	~~XX~~	DREDGE OFF BOTTOM.
		1930	~~2535~~ 2530	100		
d 11 on deck		1957				ON DECK - RECOVERY

OTHER COMMENTS: Rx@ 2540 - 2560

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