USGS DREDGE LOG

Adam Seamount

SHIP/LEG F787SC

STATION # 07

DREDGE # D7

DEPTH INTERVAL(m) 3880 - 3310m

DEPTH(m)corrected _____

DATE JD 341 LOCAL 12/7/87

TIME GMT 1820 - 2132 LOCAL _____

LATITUDE 32° 2.68 TO 32° 2.87

LONGITUDE 121° 13.72 TO 121° 13.96

TOTAL WEIGHT: DREDGE 80 kg CRUST 7

PERCENTAGE OF ROCK COVERED BY CRUST 25

PERCENT BROKEN FROM: OUTCROP 95 TALUS 5

THICKNESS OF MN CRUST: MAXIMUM 30 MINIMUM 1 AVERAGE 15

not including mudstone

DOMINANT SURFACE TEXTURE 65 cycloid + granular

SUBSTRATE LITHOLOGY 1 large boulder of mudstone 50 kg - most [illegible] photo only small piece [illegible] ; 1 boulder - crust [illegible] [illegible] of crust covered

→ Ash or phosphorite

NODULES PRESENT None

REMARKS: 45 kg mudstone discarded

local DEC. 7

CRUISE I.D. F7 87 SC

STATION NO. 7 ("ADAM" SMT)

DREDGE NO. 7

Chief Sci - M-Hein/O Toole

	ON STATION	DREDGE ON BOTTOM	DREDGE OFF BOTTOM	OFF STATION
GMT	17:10	1820	2132	
LATITUDE	32° 2.7	32° 2.68'	32 2.87	
LONGITUDE	121° 13.3	121° 13.72'	121 13.96	
H_2O DEPTH	3640	3735 m	3610	

OPERATION (ON/OFF BOTTOM, BITES)	GMT	DEPTH (M)	TENSION	W/O	COMMENTS
DREDGE IN H_2O	1710	3640			
	1730	3880			LOWERING DREDGE.
	1800	3815			STILL LOWERING.
DREDGE ON BOTTOM	1820	3735		3870m	WILL ADD SCOPE TO 4500 or 4800
~~DR~~	1830	3660		4400m	4400m wire out & holding - moving up line to take up slack
	1845	3600			~~[illegible]~~ TAKING UP SLACK.
	1900	3555			STILL TAKING UP SLACK.
	1915	3445			STILL.
	1930				WHERE ARE THE BITES?
	1933		3.5		FIRST BITE
	1935	3340	3.2		+ COUPLE MORE
	1936	3340	3.2		
	1937		3.4		COUPLE BITES.
	1939		3.8		~~HANG UP~~ BITE
	1941		3.4 STEADY		HUNG UP?
	1945	3310			Starting to haul in some line MANEUVER TO GET LOOSE.
	2045				Still on ~~bottom~~ hung up, overheating, No coolant in winch or crane motor,
	2100	3520			Still on bottom but no longer hung up.
	2106			3954	
	2112			3900	
	2130	3740			
	2135	3610 ~~3615~~		3615	OFF BOTTOM

OTHER COMMENTS:

Rx from between 3775-3610 m depth

1) at prompt type: drdg (this runs some commands to dump you into data base, data base manager is paradox, application is drdg

No Password hit Return

1st Menu

New Entries Review Report Leave
(will also understand first letter of each option)

Back up to previous menu ESC

Entry Delete (Numlock - OFF)

Test names / Mr Crust Chem

If we move computer type bye before moving

~~[illegible]~~ When editing DAFE keyp file or will have
:set wm=0 Return at end of line

USGS DREDGE LOG Adam Seamount

CHIP/LEG F7-87-SC

STATION # 08

DREDGE # D8

DATE JD 342 LOCAL Dec 7 '87

TIME 0027 – GMT 0407 LOCAL

DEPTH INTERVAL(m) 3250 - 3170m

DEPTH(m)corrected

LATITUDE 32 3.42 TO 32 3.27

LONGITUDE 121 14.44 TO 121 15.02

TOTAL WEIGHT: DREDGE 20 kg CRUST 15 kg

PERCENTAGE OF ROCK COVERED BY CRUST 100%

PERCENT BROKEN FROM: OUTCROP 100% TALUS 0

THICKNESS OF MN CRUST: MAXIMUM 68 MINIMUM 1 AVERAGE 18

DOMINANT SURFACE TEXTURE crusts: smooth / nodules botryoidal

SUBSTRATE LITHOLOGY basalt -
of Sandstone, hyaloclastite, phosphorite, breccia, old crust fragments

NODULES PRESENT 40% vol. 25% wt.

REMARKS:

local 3:28pm

CRUISE I.D. F7 87 SC
STATION NO. 8 ADAM Seamount
DREDGE NO. d8

chief sci + NT Hein
O'Zane

	ON STATION	DREDGE ON BOTTOM	DREDGE OFF BOTTOM	OFF STATION
GMT	341/2324	342/0028	342/0309Z	342 0407Z
LATITUDE	32° 3.33'	32° 3.42'	32 3.27'	32° 2.44
LONGITUDE	121°14.23'	121° 14.44	121° 15.02'	121° 14.90
H_2O DEPTH		3250m	3270m	

OPERATION (ON/OFF BOTTOM, BITES)	GMT	DEPTH (M)	TENSION W/O		COMMENTS
IN WATER	341/2326Z	3280m			
ON Bottom	342/0027Z	3250m			
~~0045~~ →	0045	3170m		4152	
	0047			4210	
	0205		3.5	4000	Bite
	0207		3.7	4000	Bite
	0210		3.4		3.3, 3.3
	0213		4.0		3.6
	0214		4.2, 4.5, 4.6		~~4.2, 4.5~~ Bites
	0215		4.0, 4.2, 4.5,		Bites
	0227			3907	
	0231			3842	
	0253				
	0310	3270		3280	OFF Bottom
	0407				ON DECK EOF STA 8

Hung up over this time

OTHER COMMENTS:

Hung up - had to back down to free dredge

Rx from 3250m - 3270m

USGS DREDGE LOG

SHIP/LEG F7 87 SC

STATION # 09

DREDGE # D9

DATE JD 342 LOCAL 12/7/87

TIME GMT 0541 - 0808 LOCAL

DEPTH INTERVAL(m) 2300 - 2225 m

DEPTH(m)corrected

LATITUDE 121°16.06 TO 121°16.66 (vice versa)

LONGITUDE 32° 16.06 TO 32° 5.09 (vice versa)

TOTAL WEIGHT: DREDGE 150 kg CRUST 90

PERCENTAGE OF ROCK COVERED BY CRUST 100 %

PERCENT BROKEN FROM: OUTCROP 90 % TALUS 10 %

THICKNESS OF MN CRUST: MAXIMUM 100 mm MINIMUM 1 mm AVERAGE 45

DOMINANT SURFACE TEXTURE [illegible]

SUBSTRATE LITHOLOGY basalts, Volc breccia, hyaloclastite, Trachyite, phosphorite, X-bedded SS, Old Crust Fragments; 1 Blueschist?; 1 graywacke?; 1 Syanite?; Tuff

NODULES PRESENT 20 %

REMARKS: hundreds of small crust and nodule fragments, most without substrate; others w/ altered ash or volcaniclastic substrates -

Sampled HEAD

USGS DREDGE LOG

Julian day [illegible]

local date 12/7/87
(month/day/year)

CRUISE I.D. F7 87 SC
STATION NO. 9
DREDGE NO. 9

Chief Scientist Hein/Morrison
Marine Tech on Watch Corky

	ON STATION	DREDGE ON BOTTOM	DREDGE OFF BOTTOM	OFF STATION
GMT	342 0459	342/0541Z	342/0808	342/0847
LATITUDE	32°4.88	32 5.08	32° 5.3	32° 5.3'
LONGITUDE	121°15.87	121 16.06	121° 16.7	121° 16.8'
H_2O DEPTH (M)		2300	2200	

OPERATION (ON/OFF BOTTOM, BITES)	GMT	DEPTH (M)	WIRE OUT (M)	TENSION	COMMENTS
~~[illegible]~~ IN H_2O	342/0500	2380	0		IN Water 2380m
	0522	2355	1130		
on Bottom	0542	2300			Dredge on bottom
	0545		2500		
	0643	2325m	3200		
	0711	2380m		3.1, 2.5, 2.5, 2.7	~~3.1, 2.5, 2.5, 2.7~~ Bites
	0712			2.2 2.2	
	0713			2.2 2.4	Biter Bites YIPES
					2.3 - 2.7 Bites
	0716	2410	3200	3.0	3.0
	0726	2430	3136		HUNG up over you.
	0734	2400	3045		Still Hung (AND HUNG WELL)
	0739		2966		
		~~2260~~	~~2450~~		
Pulling in	0808	2235		2200	OFF bottom
	0847				Dredge on deck

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OTHER COMMENTS: dredging top of ADAM 2380m
Rocks from Summit 2300 — 2200 at Summit.