S. P. Lee

Seamount

8° N Latitude - Line Islands

"S. P. Lee Seamount"

		Mn	Fe	Ni	Co	Cu	Zn	Pb	
			15.8						
40	D23 Top	25.5	~~14.7~~	0.43	1.12	0.02	0.071	0.104	
40	D23 Av. 3mm c	22.2	~~17.5~~	0.29	0.80	0.04	0.075	0.103	
40	D23 Av. 2cm c.	23.4	~~18.8~~	0.29	0.98	0.05	0.075	0.107	
41	D24a	24.6	~~16.5~~ 17.4	0.37	0.93	0.04	0.060	0.094	
41	D24b	22.1	20.0	0.31	1.01	0.04	0.061	0.096	
42	D25	22.8	14.3	0.47	1.37	0.04	0.075	0.103	
45	D27 Top 7mm	33.6 (31)	8.9	0.81 (.81)	2.48	0.03 (.04)	0.067 (.07)	0.085 (.100)	
45	D27 Abraid. Top	25.2	~~12.5~~	0.21	1.26	<0.03	0.041	0.109	
46	D28 average	28.9	12.6	0.46	1.12	<0.03	0.057	0.103	
46	D28 bot. 3mm	28.4	13.7	0.46	1.12	<0.03	0.065	0.097	
46	D28 Top 3mm	30.8	12.00	0.59	1.78	<0.03	0.047	0.104	
47	D29	20.3	10.4	0.39	1.24	0.39	(0.195)	0.103	Cont.
49	D31 Top 5mm	28.0	14.1	0.33	1.49	<0.03	0.040	0.110	
49	D31 rest	27.0	16.2	0.34	0.89	<0.03	0.063	0.104	
50	D32	24.0	14.4	0.41	1.45	<0.03	0.035	0.097	

* Chemistry

S. P. Lee Seamount

Dredges

37 - D20	0 lbs	2400 m
38 - D21	0	1500 - 1950 m
39 - D22	0	1300
* 40 - D23	70	1850 - 1900
* 41 - D24	70	2400
* 42 - D25	25	1600
43 - D26	0	1300
* 45 - D27	500	1125 - 1150
* 46 - D28	250	1400
* 47 - D29	150	1700
48 - D30	2 pumice	1300
* 49 - D31	12	1450 - 1600
* 50 - D32	300	1800
	1379 lbs.	

% Recovery = 69.2%

% Recovery of Crusts = 61.5%

S.P. Lee Seamount: Co - with Depth of Water

Z	Co %
1125-1150	2.48
	1.26
1400	1.12
	1.12
	1.78
1450 - 1600	1.49
	0.89
1600	~~1.33~~ 1.37
1700	1.24
1800	1.45
1850 - 1900	~~1.10~~ 1.12
	0.80
	0.98
2400	0.93
	1.01
Average	1.25%
Range	0.80 - 2.43

Average	1000 - 1500 m	1.52 %	5 analyses
	1500 - 2000 m	1.15 %	8 analyses
	2000 - 2500 m	0.97 %	2 analyses

Averages include mixtures of analyses of inner & outer crusts + bulk crusts -

AND CORE

USGS DREDGE STATION LOG

S P Lee

SHIP / LEG L5-83-HW

LATITUDE to 08° 26.400 N

LONGITUDE to 164° 10.570 W

STATION NO. 35

~~LINE NO.~~ DREDGE/CORE NO CTD-4

DEPTH (m) 2107 to - - - - - - - -

DAY/MONTH/YEAR TIME

DATE 16 Nov 83 0135
0203

TYPE OF STORAGE (check one)

DRY COLD FROZEN

SAMPLE NO. TYPE & ID.	~~UNCORRECTED DEPTH (M)~~	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM

wt (l

REMARKS:

total at —

Station 35 - Aborted CTD Run -

1/4 way down - poor reading - brought back up

NEBOO

USGS DREDGE AND CORE STATION LOG

CAM-2

SHIP / LEG S.P. Lee L5-83-HW

DAY/MONTH/YEAR

TIME 0613 1010

on LATITUDE 8° 24.814' to 8° 22.208 N off

DATE 16, 17 Nov 83

Bot. LONGITUDE 164° 19.000' to 164° 15.093' W Bot

TYPE OF STORAGE (check one)

STATION NO. 036

DRY COLD FROZEN

~~LINE NO.~~ DREDGE/CORE NO ~~036~~ CAM-2

DEPTH (m) 2410 to 1200

SAMPLE NO. TYPE & ID.	~~UNCORRECTED DEPTH (M)~~	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM

wt(l

REMARKS: Returned about 1/2 m. vitee - total wt -

No Stills!

NEBCO

USGS DREDGE AND CORE STATION LOG

SHIP / LEG S.P. Lee L5-83-HW

LATITUDE 8° 24.621N to 8° 24.695N

LONGITUDE 164° 21.068' to 164° 18.250W

STATION NO. 037

~~LINE NO.~~ DREDGE/CORE NO D20

DEPTH (m) ~~[illegible]~~ 2200 to ~~[illegible]~~ 1600

DAY/MONTH/YEAR TIME

DATE 17 NOV 83 1404 1453

TYPE OF STORAGE (check one)

DRY COLD FROZEN

SAMPLE NO. TYPE & ID.	~~UNCORRECTED DEPTH (M)~~	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM

wt (l

REMARKS: NO Recovery

total at —

even though video shows rocks!?

Bag Tangled

NEBCO

AND CORE

USGS DREDGE STATION LOG

S. R. Lee

SHIP / LEG L5-83-HW

LATITUDE 08°23.138' to 8°22.817 N

LONGITUDE 164°19.270 to 164°19.300 W

STATION NO. 038

~~LINE NO.~~ DREDGE/CORE NO 021

DEPTH (m) 1950 to 1500

DAY/MONTH/YEAR

DATE 17 NOV 83

TIME 1636 1742

TYPE OF STORAGE (check one)

DRY COLD FROZEN

SAMPLE NO. TYPE & ID.	~~UNCORRECTED DEPTH (m)~~	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM

wt (l

REMARKS: No Recovery

total at —

NEBOO

AND CORE

USGS DREDGE STATION LOG

S.P. Lee

SHIP / LEG L5-83-HW

ON BOTTOM
8° 23.686
164° 15.571

DAY/MONTH/YEAR TIME

LATITUDE ~~8° 24.00'~~ to ~~8° 23.462'~~ N

DATE 17 NOV 83 1927 2042

LONGITUDE ~~164° 17.00'~~ to ~~164° 19.73'~~ W

TYPE OF STORAGE (check one)

STATION NO. 0389

~~LINE NO.~~ DREDGE/CORE NO D22

DRY COLD FROZEN

DEPTH (m) 1300 to 1300

SAMPLE NO. TYPE & ID.	~~UNCORRECTED DEPTH (M)~~	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM

wt (l

REMARKS: N/O Recovery

total at —

Top of Ridge

NEBCO

AND CORE

USGS DREDGE STATION LOG

S P Lee

SHIP / LEG L5-83-HW

LATITUDE 8° 24.837' to 8° 25.029' N

LONGITUDE 164° 17.358' to 164° 18.039' N

STATION NO. 040

~~LINE NO.~~ DREDGE/CORE NO D23

DEPTH (m) 1850 to 1900

DAY/MONTH/YEAR TIME

DATE 17 Nov. 83 2312 0050

TYPE OF STORAGE (check one)

DRY COLD FROZEN

SAMPLE NO. TYPE & ID.	~~UNCORRECTED DEPTH (M)~~	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
40-D23A1 -	24 x 21 x 10 cm, Crust 2mm to 4.0 cm Volcanic Rx Host - knob			
	Crust - parts To Frank XRF, Doris, Vesna, Jim			
40-D23A2	37 x 27 x 15 cm, Crust 2mm to 2.5 cm; Breccia cemented w/			
	Calcite Host; smooth + porous crust; parts To Frank XRF,			
	Vesna, Doris, Jim			
40-D23B -	One small piece of crust only - In water for Frank -			
	botryoidal outer part of crust			

Wt (l

REMARKS:

total wt - 70 lbs

(5%) 40-D23A3 - 6 pieces of crust w/ rock on 3 sides - 2 good pieces (A1 + A2) knobby to botryoidal + other smooth - Crust 2mm to 4cm - Porous -

(95%) 40-D23D - ≈(15) pieces of volcaniclastic or pyroclastic Rock - Light wt - Tuffaceous - (3) pieces of Fractured Basalt one large piece w/ nanno ooze in interior along fracture + thin layer of Baked sediment. (1) piece of freshly broken off breccia, medium-grained w/ Calcite cement ≈(8) pieces of Basalt - some Fresh - Alt'd -

NEBCO

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
45-83-HW	023	–	–	40			Hein

Sediment Name: Volcaniclastic Sandy siltstone

ABUNDANCE	TEXTURE	SPECIFIC DATA
R-C	Sand	
D	Silt	
	Clay	
	COMPOSITION	
R	Quartz	
~~B~~ A	Feldspar many euhedral - some hly altered others rel. fresh	
	Mica	
R	Heavy Mnls. Hematite	
	Total Detrital	
	Clay Mnls.	
R	Volc. Glass	
	Palagonite	
	Chlorite	
	Glauconite	
	Pyrite	
	Micro Nodules	
	Dolo. Rhombs	
C	Zeolite devitrified glass	
	Auth. Carb.	
C	Rock Frags. volcanic	
R	Phosphate debris –	
	Foraminifera	
	Calc. Nannos	
	Diatoms	
	Radiolarians	
	Sponge Spic.	
	Silicoflag.	
	Fish Remains	
	Plant Debris	

PERCENT	DETAILED MINERALOGY

REMARKS:

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

NEBCO

AND CORE

USGS DREDGE STATION LOG

S P Lee

SHIP / LEG L5-83-HW

LATITUDE 8°23 893 to N

LONGITUDE 164°21.524 to W

STATION NO. 041

~~LINE NO.~~ DREDGE/CORE NO D 24

DEPTH (m) — to 2400 m

DAY/MONTH/YEAR TIME

DATE 17 Nov 83 0404

TYPE OF STORAGE (check one) 0610

DRY COLD FROZEN

SAMPLE NO. TYPE & ID.	~~UNCORRECTED DEPTH (M)~~	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
41-D24A1-	41 x 23 x	17 cm; crust	up to 4	cm of impregnated
	mudstone -	cut 20 cm	of mudstone	off base of sample
41-D24A2-	32 x 33 x 16 cm	; crust	to 2 cm -	botryoidal surface - porous
	crust;	pieces for	Doris, Frank	XRF + Vesna

wt (l

REMARKS: Borings in many of the rocks + mudstones

total at — 70 lbs.

(10%) 41-D24A3- 14 rocks w/ at least one side w/ crusts - mostly soft substrate, - pegroclastic or volcaniclastic - Thickest crust = 2 cm

(90%) 41-D24D- 5 rocks only of ashy soft rock w/out crusts - one sandstone - some of the mudstones have rare pebbles of vesicular basalt or sandstone - reworded deposits - volcaniclastic -

many stages of crust growth - much reworking

also some phosphorite - in gun. soc -

NEBCO

AND CORE

USGS DREDGE STATION LOG

S.P. Lee

SHIP / LEG L5-83-HW

LATITUDE 8°23.352'N to 8°23.540'N

LONGITUDE 164°17.614'W to 164°17.528'W

STATION NO. 042

~~LINE NO.~~ DREDGE/CORE NO D25

DEPTH (m) 1600 to 1600 m TDR

DAY/MONTH/YEAR TIME

DATE 17, 18 Nov 83 0950

TYPE OF STORAGE (check one) 1023

DRY COLD FROZEN

SAMPLE NO. TYPE & ID.	~~UNCORRECTED DEPTH (M)~~	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
42-D25A1-	30x12x8	: Crust 1mm	to 1.5cm	- Thickestone
Post to	Frank for	XRF		

Wt (l

Dredge

REMARKS:

42-D25A - Volcanic + Sed - Breccia w/ Thin Crust on at least one side

total at - 25 Lbs

42-D25B - 2 Samples of Basalt w/ crusts all around ~~Ex.~~ Thin on Bottom -

42-D25D - Breccia w/out Crusts - some w/ Large pyroxene (to 10mm) crystals as clasts -

NEBCO Thickest Crust = 2cm - Most Crusts are in the mm range

AND CORE

USGS DREDGE STATION LOG

S. P. Lee

SHIP / LEG L5-A3-HW

LATITUDE 08° 23.400 to 08° 23.767 N

LONGITUDE 164° 16.700 to 164° 16.833 W

STATION NO. 043

~~LINE NO.~~ DREDGE/CORE NO D26

DEPTH (m) — to — — — — — —

DAY/MONTH/YEAR DATE 18 NOV 83

TIME 1153 to 1358

TYPE OF STORAGE (check one)

~~DRY~~	COLD	FROZEN

SAMPLE NO. TYPE & ID.	~~UNCORRECTED DEPTH~~	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM

REMARKS: Lost whole Bag!

total at —

Got really hung up at 1350 to 1405 m

NEBOO

S.P. Lee

USGS DREDGE AND CORE STATION LOG

SHIP / LEG S.P. Lee L5-83-HW

LATITUDE 8° 16.701 to 8° 20.500 N

LONGITUDE 164° 22.617 to 164° 18.000 W

STATION NO. 44

~~LINE NO.~~ DREDGE/CORE NO CAM 3

DEPTH (m) 1800 M to 1050 M

DAY/MONTH/YEAR TIME

DATE 18 NOV 83 1940 0006

TYPE OF STORAGE (check one)

DRY COLD FROZEN

SAMPLE NO. TYPE & ID.	~~UNCORRECTED DEPTH (M)~~	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM

wt (l

REMARKS:

total wt —

1 hr. Video

+ Stills — Ruined Camera sled

NEBCO

USGS DREDGE AND CORE STATION LOG

S.P. Lee

SHIP / LEG LS-83-HW

LATITUDE 8° 20.552' to N

LONGITUDE 164° 19.015' to W

STATION NO. ~~[illegible]~~ 45

~~LINE NO.~~ DREDGE/CORE NO D27

DEPTH (m) 1150 to 1125

DAY/MONTH/YEAR TIME

DATE 18 Nov 83 0552 0642

TYPE OF STORAGE (check one)

DRY COLD FROZEN

* Photos Tow Sea D26 and D27

SAMPLE NO. TYPE & ID.	~~UNCORRECTED DEPTH (M)~~	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
45-D27B1	- Thickest Crust 3.0 cm		- Jim	
45-D27A1 -	Largest 200 lb boulder		- Crust scraped	
	off Frank XRF +		Rx Thrown overboard -	
	highly altered Volc.		Breccia w/ zeolites or	
	Calcite +	Clay -		
45-D27B2	several small ~2.5 cm thick crust fragments - one to Frank XRF			
	one to Joe - one to water for Frank			
45-D27B3 -	Dorus part - very similar to B1 - ½ to Frank			
45-D27B4 -	Vesna part - " "		" " -	

Wt (l

Very heavy - several have phosphorite cores - almost pure phosphorite Rx's ?

REMARKS:

Total at - 500 lbs

45-D27B5 - Mostly completely covered rocks bothyoidal to smooth surfaces - 2 episodes of growth - Altered Volc Rx in center - mm to thickest 3 cm - most ≈ 0.5 cm - average ≈ 1.0 cm

45-D27A - Crust on most sides - Largest Boulder wt. ≈ 2.5 lbs had ≈ 1.5 cm crust but was badly abraded - other smaller pieces have thin crusts + are broken fragments -

1-30 average 10 mm

NEBCO crust ≈ 1% by wt ? -

AND CORE

USGS DREDGE STATION LOG

S. P. Lee

SHIP / LEG L5 - 83 - HW

LATITUDE 8°18.467'N to 8°18.633'N

LONGITUDE 164°20.733'W to 164°20.817'W

STATION NO. 046

~~LINE NO.~~ DREDGE/CORE NO D28

DEPTH (m) 1400 to 1400

DAY/MONTH/YEAR TIME

DATE 19 NOV 83 1006 1052

TYPE OF STORAGE (check one)

DRY COLD FROZEN

SAMPLE NO. TYPE & ID.	~~UNCORRECTED DEPTH (M)~~	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
46-D28 B -	2 Thick Crust Fragment To Frank for XRF			
46-D28 A1 -	parts to Doris + Vesna			

Wt (l

REMARKS:

46-D28A - 4 large (>50 lbs) boulders w/ crusts on all but one side - knobby to botryoidal surfaces - Crust Thickness mm to

Many smaller Fragments ≈ 25

total at — 250 lbs

46-D28B - Crust Fragments - pure crust material massive on interior porous on out — to 3 cm thick - probably thickest > 4 cm?

NEBCO

AND CORE

USGS DREDGE STATION LOG

S. P. Lee

SHIP / LEG L5-83-HW

LATITUDE 8°17.822'N to 8°18.693'N

LONGITUDE 164°22.113'W to 164°21.036'W

STATION NO. 047

~~LINE NO.~~ DREDGE/CORE NO D29

DEPTH (m) 1700 m to 1700 m TDR

DAY/MONTH/YEAR TIME

DATE 19 NOV 83 1340-1433

TYPE OF STORAGE (check one)

DRY COLD FROZEN

SAMPLE NO. TYPE & ID.	~~UNCORRECTED DEPTH (M)~~	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
47-D29A1-	Large boulder of white		Calcareous	ss w/ mn-
	Crust on	2 sides -	will break down to	
	distribute, ~~to~~ - broken		up - much Thrown	
	overboard - 2 large		pieces	w/ crust to
	Hein + ~~[illegible]~~ -		Some	to Frank for
	XRF -			
	Very high	water content.		

W+(l

phosphorite

REMARKS:

total wt - 150 lbs

47-D29A - Sedimentary Rx Covered w/ Mn + 1 or phosphorite on 2 to 3 sides - worm texture - impregnated texture -

47-D29D - White to brownish calcareous sandstone Tuffaceous(?) - and yellow-brown pebbly coarse-grained Sandstone. Few pieces of phosphorite

NEBCO

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
L5-83-HW	D29	—	—	47	Volc. glass		Hein

Sediment Name: Pyroclastic Rx. - reworked

ABUNDANCE	TEXTURE	SPECIFIC DATA
	Sand	
D	Silt	
	Clay	
	COMPOSITION	
	Quartz	
	Feldspar	
	Mica	
Tr	Heavy Mnls. Hematite	
	Total Detrital	
	Clay Mnls.	
D	Volc. Glass	
	Palagonite	
	Chlorite	
	Glauconite	
	Pyrite	
	Micro Nodules	
	Dolo. Rhombs	
D	Zeolite - Volcanic glass maybe devitrifying to zeolites?	
	Auth. Carb.	
	Rock Frags.	
	Foraminifera	
	Calc. Nannos	
	Diatoms	
	Radiolarians	
	Sponge Spic.	
	Silicoflag.	
	Fish Remains	
	Plant Debris	

PER-CENT	DETAILED MINERALOGY

REMARKS:

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

NEBCO

AND CORE

USGS DREDGE STATION LOG

S. P. Lee

SHIP / LEG L5-83-HW

Corrected LATITUDE 8° 14.095'N to

LONGITUDE 164° 12.436'W to

STATION NO. 048

~~LINE NO.~~ DREDGE/CORE NO D30

DEPTH (m) 1300 m to

DAY/MONTH/YEAR TIME

DATE 19 NOV 83 0156

TYPE OF STORAGE (check one) 022

DRY COLD FROZEN

SAMPLE NO. TYPE & ID.	~~UNCORRECTED DEPTH (M)~~	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
48 - D30 D -	one 2 lbs	Boulder of	fresh Pumice???	
100	- manganese -			
(1)	Sample not	sitting at surface for any	length of Time	
	(a) either buried in sediment			
	(b) or very	young age		
(2)	Fresh glass	means very young + ∴ exotic to area		
	or somehow	protected from alteration		

Wt (l

REMARKS: Small piece to JLR

total at —
2 lbs —

NEBCO

AND CORE

USGS DREDGE STATION LOG

SHIP / LEG S. Plee L5-83-HW

LATITUDE to 08° 11.644' N

LONGITUDE to 164° 12.000 W

STATION NO. D49

~~LINE NO.~~ DREDGE/CORE NO D31

DEPTH (m) 1600 to 1450

DAY/MONTH/YEAR

DATE 19 NOV 83

TIME 0459 to 054

TYPE OF STORAGE (check one)

DRY COLD FROZEN

SAMPLE NO. TYPE & ID.	~~UNCORRECTED DEPTH (M)~~	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
49-D31A1-	20 x 8 x 5; Crust mm to 1.0 cm - knobby			
	to botryoidal surface - breccia w/ calcite cement +			
	some phosphorite between crust + Rx - part to vesna			

Wt (l

REMARKS:

total wt - 12 lbs.

49-D31A - Rx on at least one side - 4 small pieces - best = x 20 cm x 8 x 5 w/ mm to 1.0 cm crust. One w/ smooth surface - maybe abraded - Doris]

49-D31B - One crust Fragment = 3.5 cm Thick - massive coal-like throughout w/ knobby surface - subdued - Frank XRF + 1/2 jim -

49-D31D - (1) Basalt (2) Breccia w/ calcite cement (3) phosphorite - jim

NEBCO

50-D32

USGS DREDGE AND CORE STATION LOG

S. P. Lee

SHIP / LEG L5-83-HW

LATITUDE 8°11.154'N to 8°11.0'N

LONGITUDE 164°12.130'W to 164°12.0'W

STATION NO. 050

~~LINE NO.~~ DREDGE/CORE NO D32

DEPTH (m) 1800 to 1800

DAY/MONTH/YEAR

DATE 19 NOV 83

TIME 075

TYPE OF STORAGE (check one) 0933

DRY COLD FROZEN

SAMPLE NO. TYPE & ID.	~~UNCORRECTED DEPTH (M)~~	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
No samples outstanding - all very similar -				
many samples left to crew + over the				
side				

Wt (l

REMARKS:

200 lbs 50-D32A - Rock at least on one side - V. uniform lithology -- brown breccia coated w/ thin layers (min to 0.7 cm) of manganese average ~ 0.5 mm

100 lbs 50-D32B - Breccia w/out crusts - rare samples of basalt and other lithologys - several rocks have traces of nannofossil ooze (smear slide).

Total at - 300 lbs

NEBCO

SMEAR SLIDE DESCRIPTION

LOCATOR	SAMPLE NO.	SEC.	INTERVAL	STATION NO.	Dom. LITH.	Minor LITH.	OBSERVER
L5-B3-HW	D32	–	–	350	Nanno		Hein

Sediment Name: Foram-rich- Nannofossil ooze

ABUNDANCE	TEXTURE	SPECIFIC DATA	
C	Sand		
A	Silt		
A	Clay		
	COMPOSITION		
	Quartz		
	Feldspar		
	Mica		
	Heavy Mnls.		
	Total Detrital		
	Clay Mnls.		
	Volc. Glass		
	Palagonite		
	Chlorite		
	Glauconite		
	Pyrite		
	Micro Nodules		
	Dolo. Rhombs		
	Zeolite		
C	Auth. Carb.		
	Rock Frags.		
C	Foraminifera	– Many Fragments	
D-A	Calc. Nannos	Coccoliths - not many discoasters	
Tr	Diatoms	– more from Rocks	
Tr	Radiolarians		
	Sponge Spic.		
Tr	Silicoflag.		
Tr	Fish Remains		
	Plant Debris		

PER-CENT	DETAILED MINERALOGY

REMARKS:

Soft ooze coating Rocks-

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

NEBCO

AND CORE

USGS DREDGE STATION LOG

S.P. Lee

SHIP / LEG L5-83-HW

LATITUDE 8° 31.363'N to 8° 30.909'N

LONGITUDE 164° 12.709'W to 164° 11.537'W

STATION NO. 51

~~LINE NO.~~ DREDGE/CORE NO CTD 5

DEPTH (m) 0 to 2150

DAY/MONTH/YEAR

DATE 21 Nov 83

TIME 0805 1028

TYPE OF STORAGE (check one)

DRY | COLD | FROZEN

SAMPLE NO. TYPE & ID.	~~UNCORRECTED~~ ~~DEPTH~~	CORE LENGTH	BASIC LITHOLOGY	AGE OF BOTTOM
Water Bottles				
51-1	2162 m		Depth	from 12 kHz
51-2	2066 m		CDR +	Times of Sample
51-3	1745 m		because	signal of 2 & other
51-4	1349 m		parameters	lost on the way
51-5	978 m		up-	
51-6	790 m			
51-7	0-4 m	Surface water from		Bucket

W+(l

REMARKS: Lost signal on CTD between 2150 & 2100 m total at —

Note: Better water depths to be obtained by interpolating salinities det. in Menlo Park into calculated salinities from Conductivity – T°C data.

NEBCO

Nov 12(Z) 0805 || CTD #3 · 37-[illegible]

mmho CONDUCTIVITY	μA O_2	Transmiss	d-bar Pressure	Temp °C
SURF AIR	1.039	3460	2.0	26.9
55.28	.990	3603	10.6	28.37
55.48	.982	3603	50	28.398
51.58	.928	3583	80	23.93
47.42	.704	3599	100	19.77
42.151	.333	3602	130	14.659
41.028	.226	3602	150	13.50
40.090	.130	3602	175	12.465
39.204	.052	3603	200	11.43
38.896	.022	3597	225	11.066
38.461	.027	3587	250	10.598
38.130	.030	3576	275	10.247
37.933	.031	3575	300	10.040
37.59	.035	3577	350	09.658
37.207	.037	3581	400	9.240
36.867	.031	3580	450	8.868
36.73	.015	3572	500	8.297
36.110	.015	3568	525	8.05
35.993	.014	3565	550	7.926
35.817	.014	3559	575	7.73
35.635	.015	3551	600	7.525
35.438	.015	3546	625	7.308
35.167	.018	3537	650	7.005
35.051	.019	3527	675	6.871
34.836	.018	3524	700	6.634
34.586	.036	3512	730	6.341
34.497	.033	3499	750	6.240
34.330	.033	3498	775	6.044
34.200	.033	3493	800	5.887
34.026	.039	3492	825	5.726
33.849	.040	3487	850	5.471
33.747	.045	3483	875	5.346
33.730	.047	3480	900	5.316
33.604	.049	3478	925	5.162
33.488	.051	3476	950	5.016