INFORMAL REPORT AND INDEX OF

NAVIGATION, DEPTH AND MAGNETIC DATA

(ISSUED AUGUST 1981)

VULCAN EXPEDITION

LEG 8

Valparaiso, Chile (13 April 1981)
to
Nuku Hiva, Marquesas (14 May 1981)

R/V Melville

Co-Chief Scientists - H. Craig (SIO)
R. Ballard (WHOI)

Resident Marine Tech - R. Comer

Post-Cruise Processing and Report Preparation
by S.I.O. Geological Data Center

Data Collection Funded by NSF
Grant Number NSF-OCE80-24472
Bathymetric Data Collection
and Processing Funded by
Defense Mapping Agency
Contract 800-81-C-0023
Data Processing Funded by SIA and DMA

GDC Cruise I.D.# - 184

INFORMAL REPORT AND INDEX OF NAVIGATION, DEPTH, MAGNETIC AND SUBBOTTOM PROFILER DATA

Contents:

Index Chart - gives track of cruise leg and boundaries of depth compilation plots (see below).

Track Charts - annotated with dates (day/month) and hour ticks. The scale is .3 in/degree longitude.

Profiles - depth and magnetic anomaly vs. distance. Dates (day/month) and positions of major course changes (greater than 30 degrees) are annotated. Sections of track having subbottom profiler (airgun) records have a solid black line along the bottom of the profile.

For information on the availability and reproduction costs of data in the following forms, contact S. M. Smith, Curator, Geological Data Center, Scripps Institution of Oceanography, La Jolla, California 92093. Phone (714) 452-2752.

1. Navigation listing of times and positions of course and speed changes, fixes and drift velocity.

2. Depth compilation plots - in fathoms (assumed sound velocity of 800 fm/sec) or meters (assumed sound velocity of 1500m/sec) at approximately 1 mile spacing, plotted at 4in/degree with standard U. S. Navy Oceanographic Office BC series boundaries (see index chart).

3. Plots of magnetic anomaly profiles along track - map scale = 1.2inch/degree, anomaly scale between 15N and 15 S latitude = 500 gamma/inch, anomaly scale north of 15N and south of 15S = 1000 gamma/inch, from values retrieved at approximately 1 mile spacing and regional field removed using the 1975 IGRF.

4. Card decks of navigation, depth and magnetics (for specific formats, contact S. M. Smith, Geological Data Center).

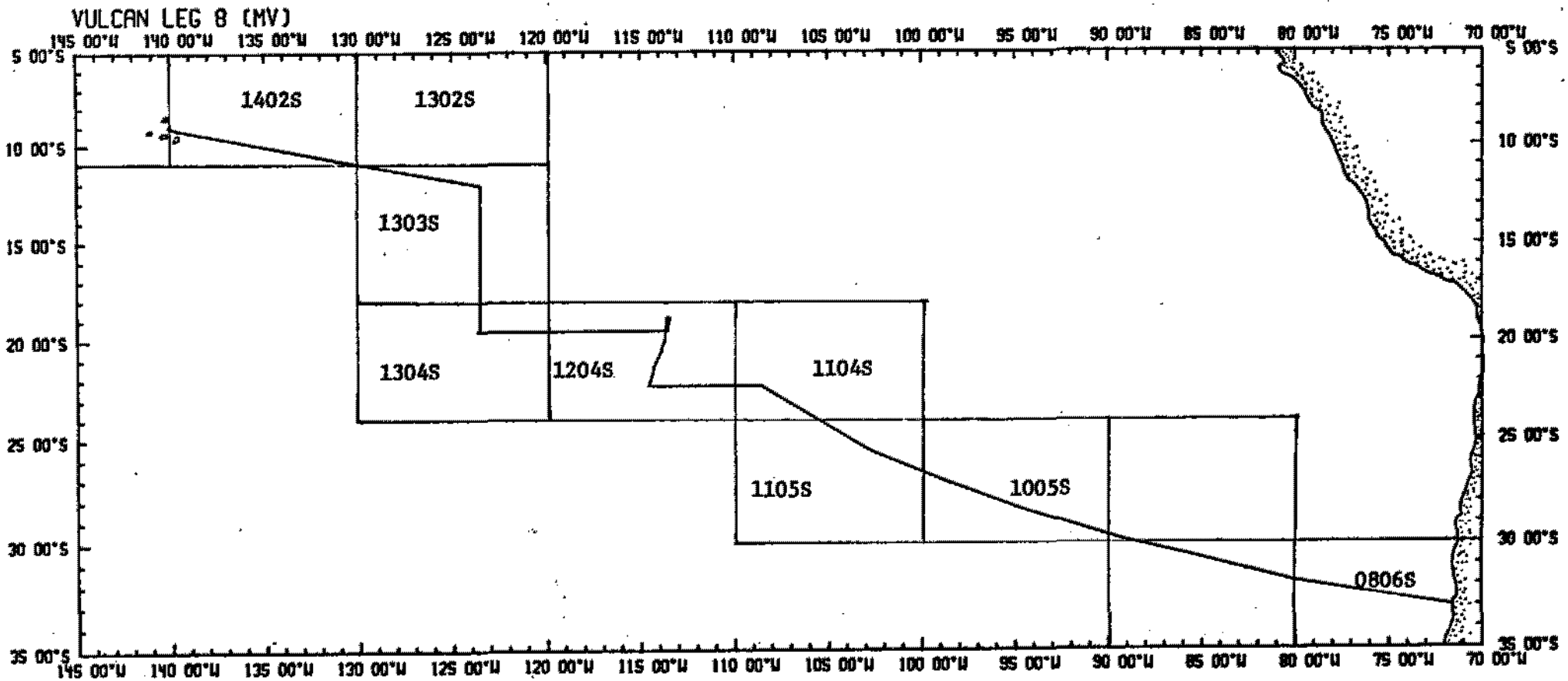
5. S.I.O. Sample Index - list of beginning and end times and positions of all underway records as well as all other samples (geology, biology, physical oceanography, etc.) collected on the cruise leg.

6. Microfilm or Xerox copies of:
   a. Echosounder records - 12 and 3.5 kHz frequency

   b. Subbottom profiler records (airgun)

   c. Magnetometer records

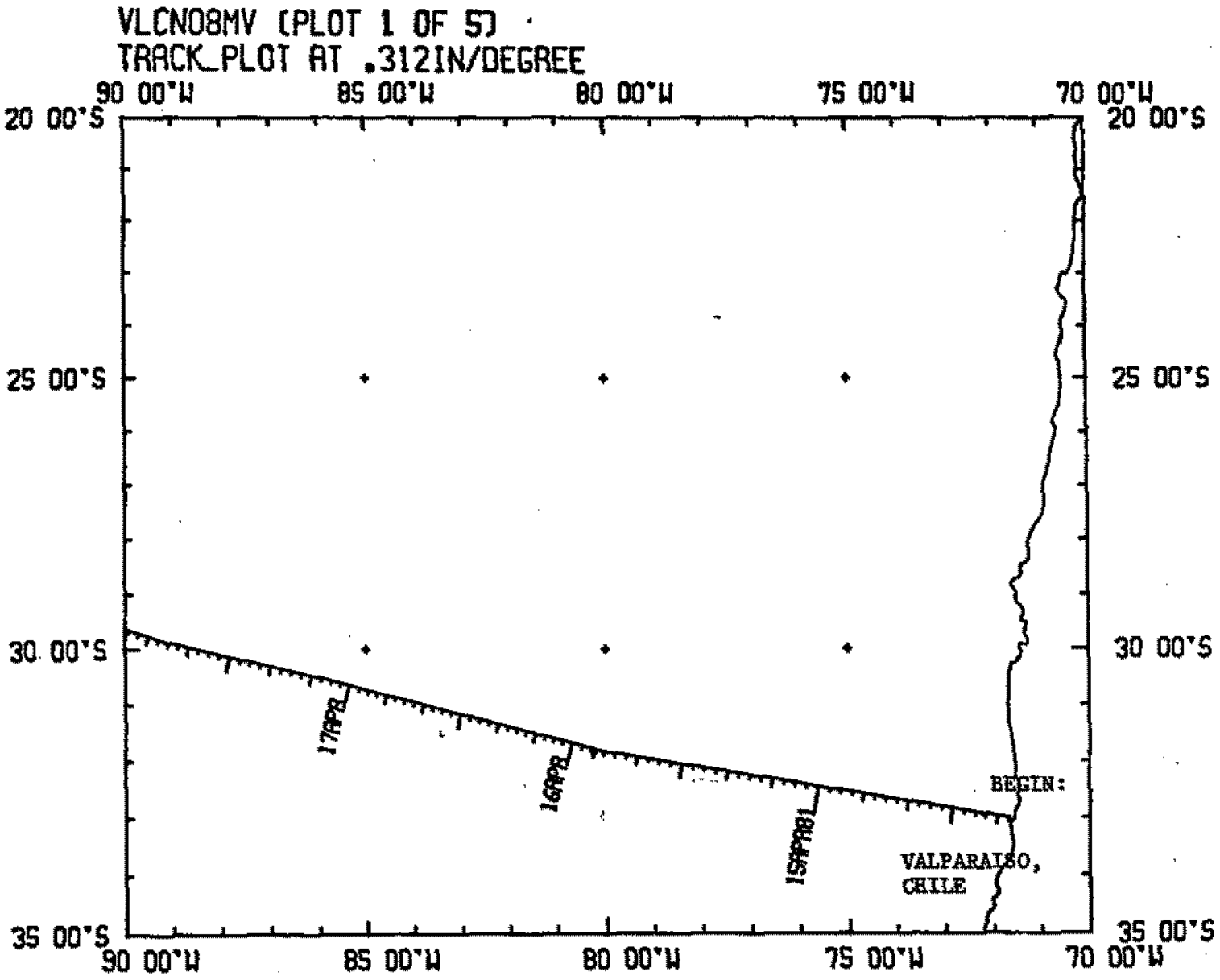
   d. Underway data log

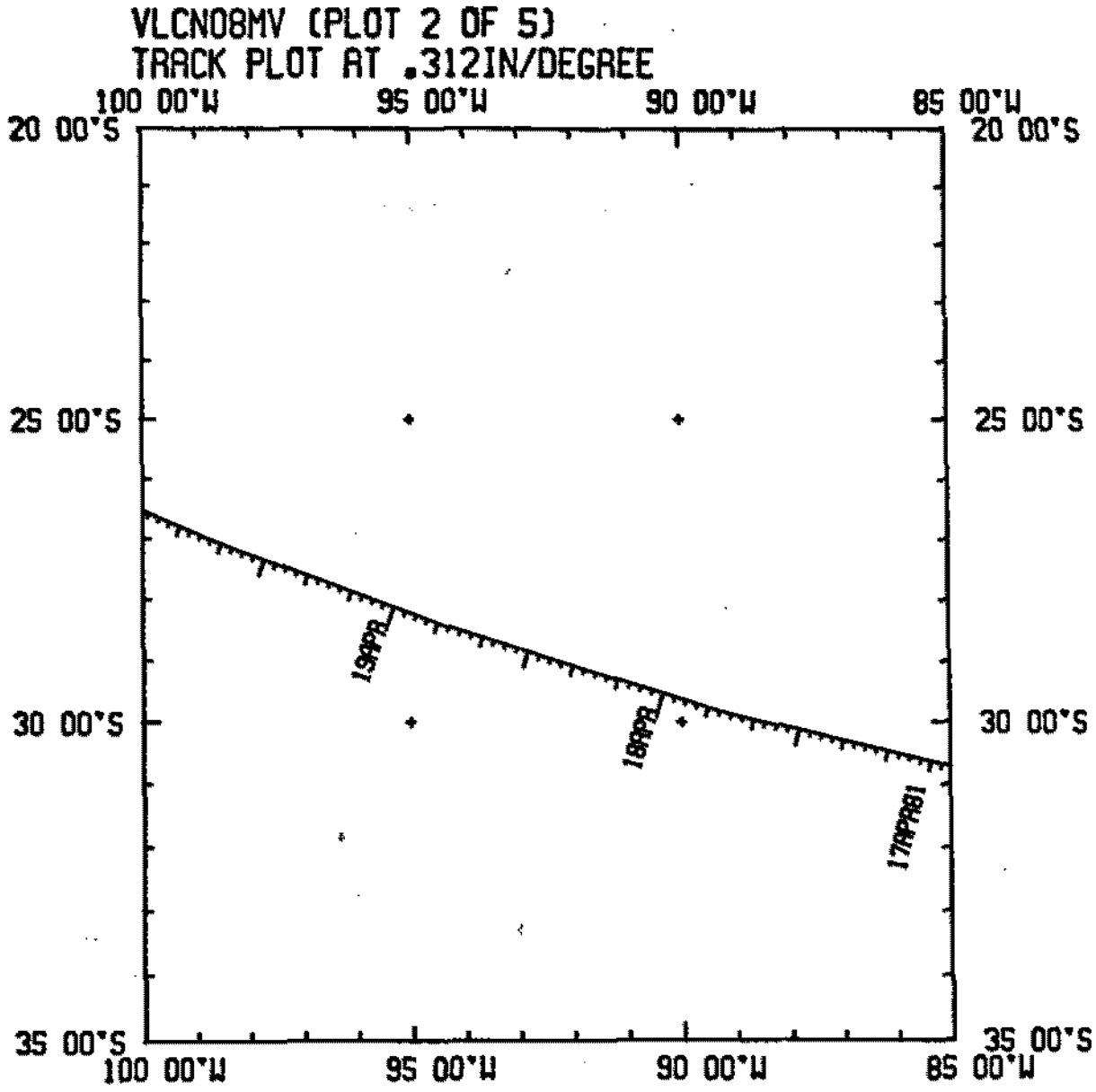


VULCAN EXPEDITION
LEG 8

Co-Chief Scientists: H. Craig (SIO)
R. Ballard (WHOI)
Ports: Valparaiso, Chile - Nuku Hiva, Marquesas
Dates: 13 April - 14 May 1981
Ship: R/V Melville

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED
1) Cruise - 5085 miles
2) Bathymetry - 3430 miles
3) Magnetics - 3665 miles
4) Seismic Reflection - none collected
5) Gravity - none collected


VLCN08MV (PLOT 1 OF 5)
TRACK_PLOT AT .312IN/DEGREE
90 00°W
85 00°W
80 00°W
75 00°W
70 00°W
20 00°S
25 00°S
30 00°S
35 00°S
17APR
16APR
15APR
BEGIN:
VALPARAISO,
CHILE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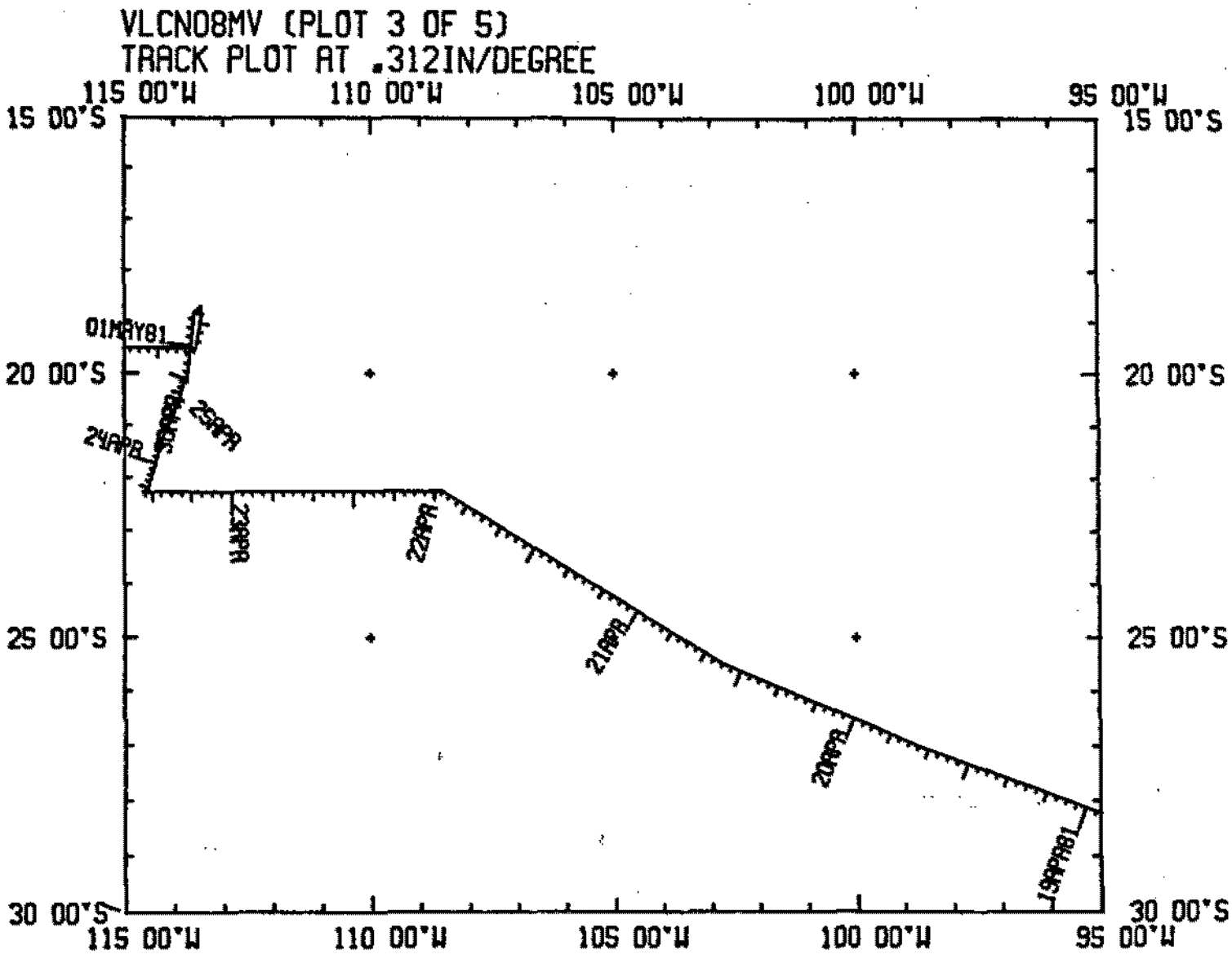
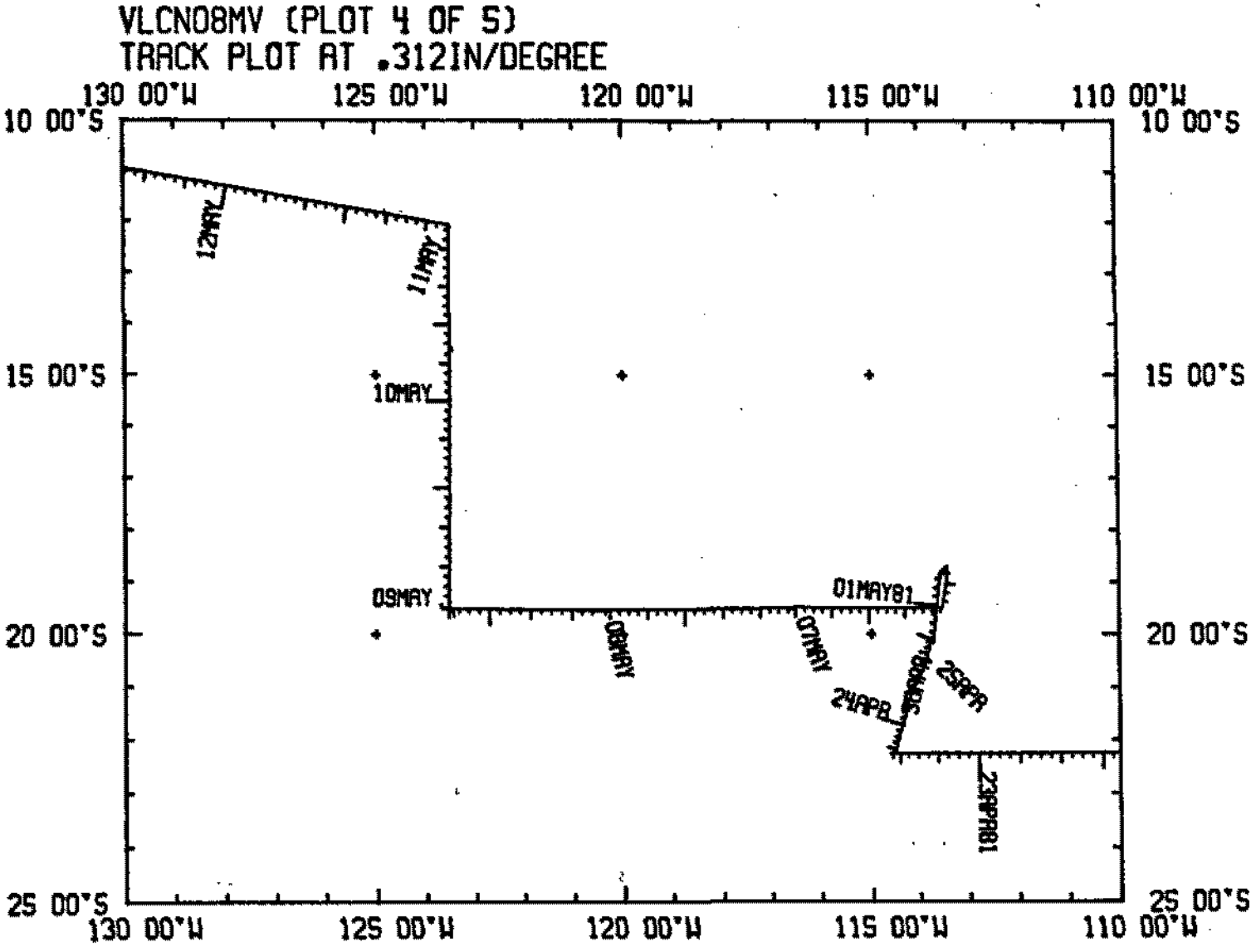
90 00°W
85 00°W
20 00°S
25 00°S
30 00°S
35 00°S
19APR
18APR
17APR


VLCN08MV (PLOT 3 OF 5)
TRACK PLOT AT .312IN/DEGREE
115 00°W
110 00°W
105 00°W
100 00°W
95 00°W
15 00°S
20 00°S
25 00°S
30 00°S
01MAY81
24APR
23APR
22APR
21APR
20APR
19APR81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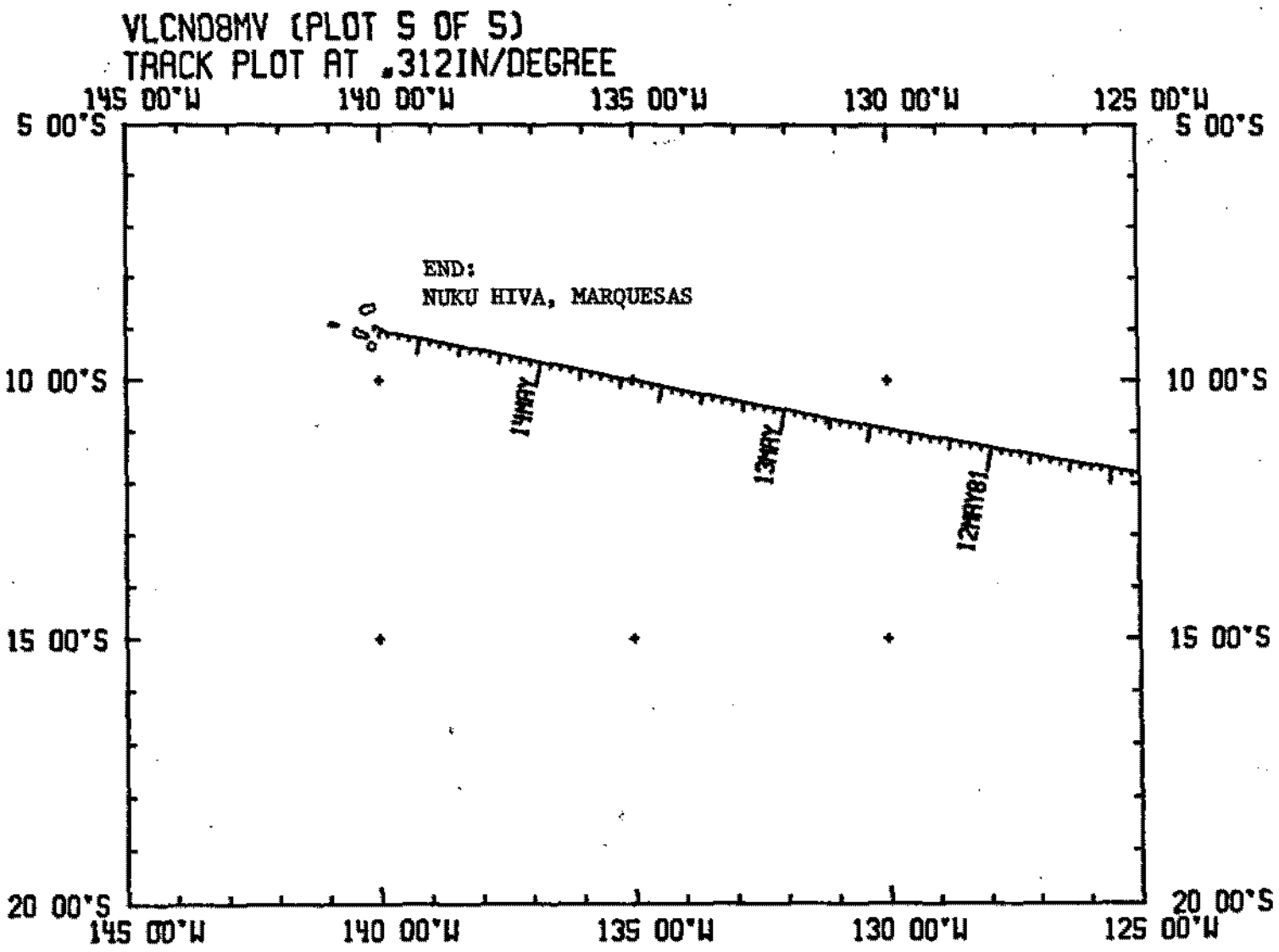
125 00°W
120 00°W
115 00°W
110 00°W
10 00°S
15 00°S
20 00°S
25 00°S
12MAY
11MAY
10MAY
09MAY
08MAY
07MAY
01MAY81
24APR
25APR
23APR81
18APR81


VLCN08MV (PLOT 5 OF 5)
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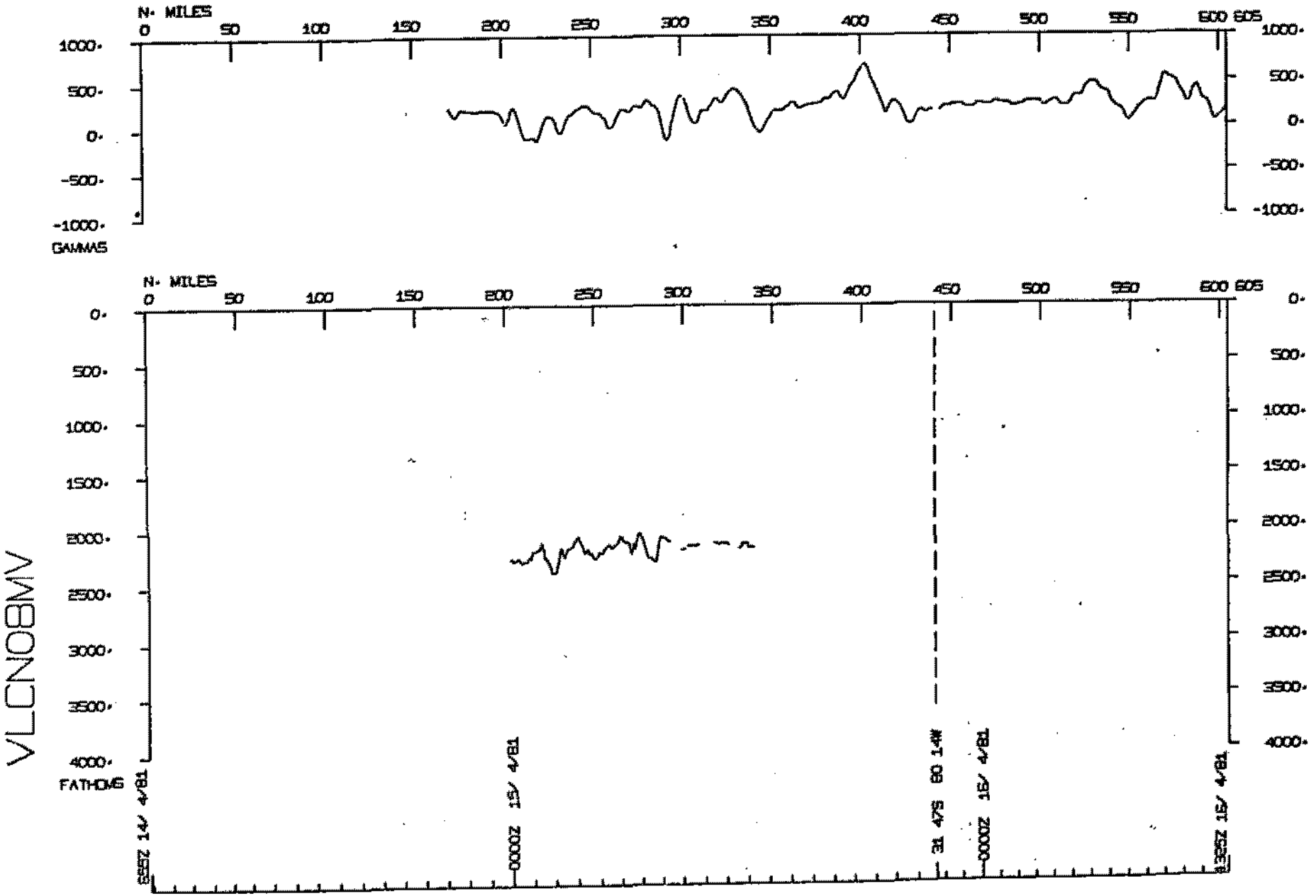
140 00°W
135 00°W
130 00°W
125 00°W
5 00°S
10 00°S
15 00°S
20 00°S
END:
NUKU HIVA, MARQUESAS
14MAY
13MAY
12MAY18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400
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-500
-1000
GAMMAS
N. MILES
0
50
100
150
200
250
300
350
400
450
500
550
600
605
0
500
1000
1500
2000
2500
3000
3500
4000
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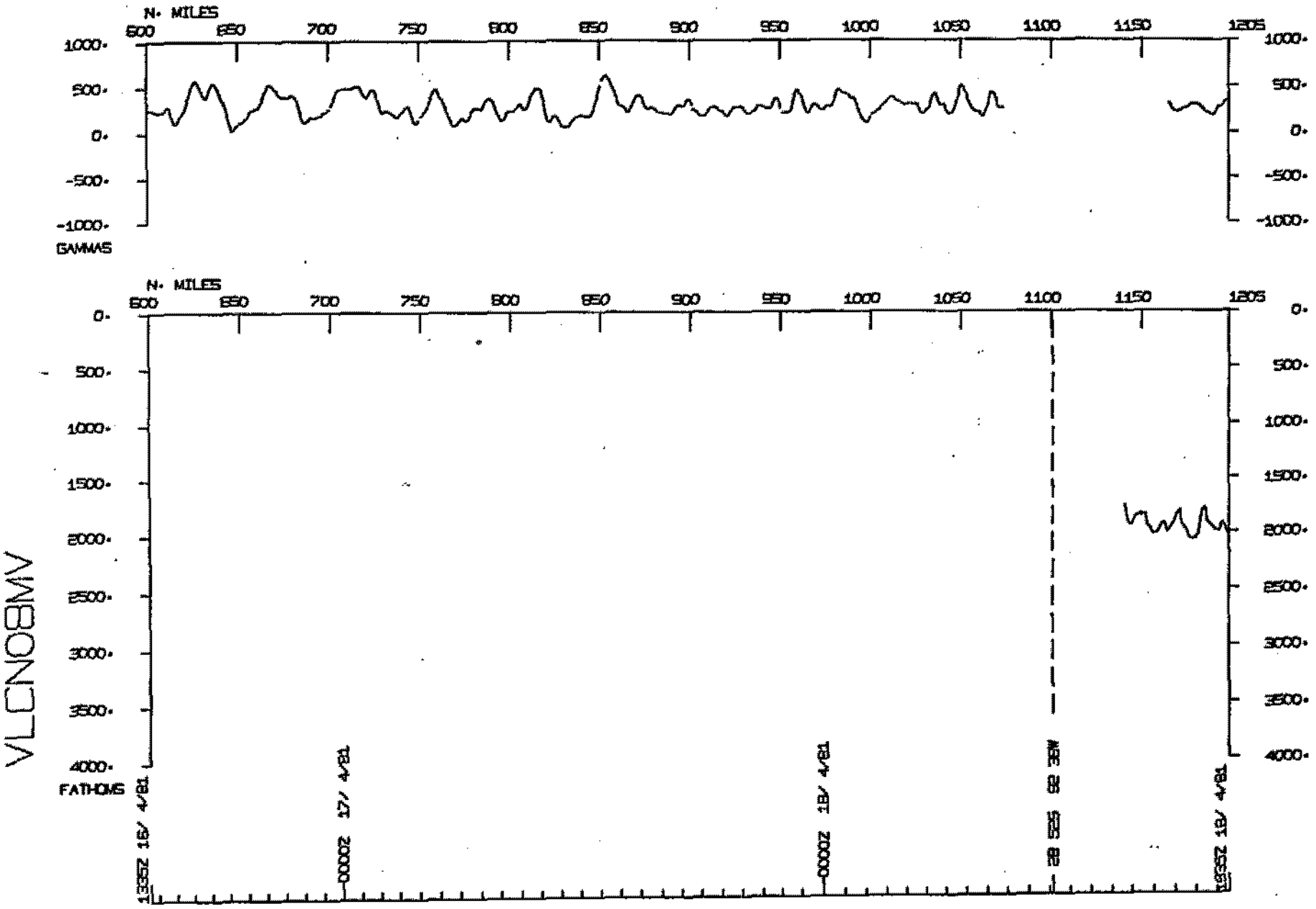
0000Z 15/ 4/81
31 47S 80 14W
0000Z 15/ 4/81
1325Z 15/ 4/81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-1000
GAMMAS
N. MILES
0
500
1000
1500
2000
2500
3000
3500
4000
FATHOMS
VLCNO8MV
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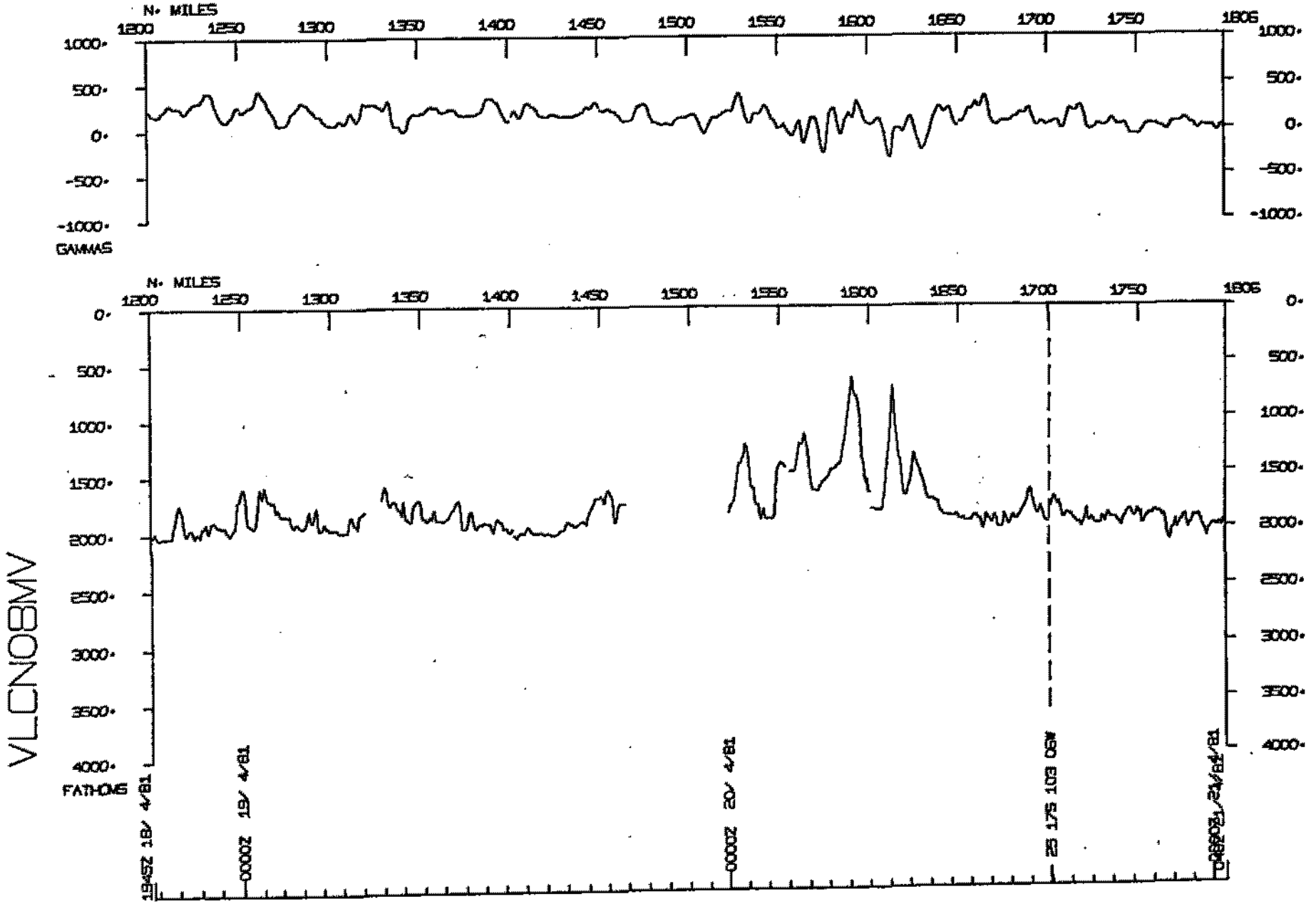
00002 17/ 4/81
00002 18/ 4/81
28 525 82 3EW
1535Z 18/ 4/81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1600
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1700
1750
1806
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500
0
-500
-1000
GAMMAS
N. MILES
0
500
1000
1500
2000
2500
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3500
4000
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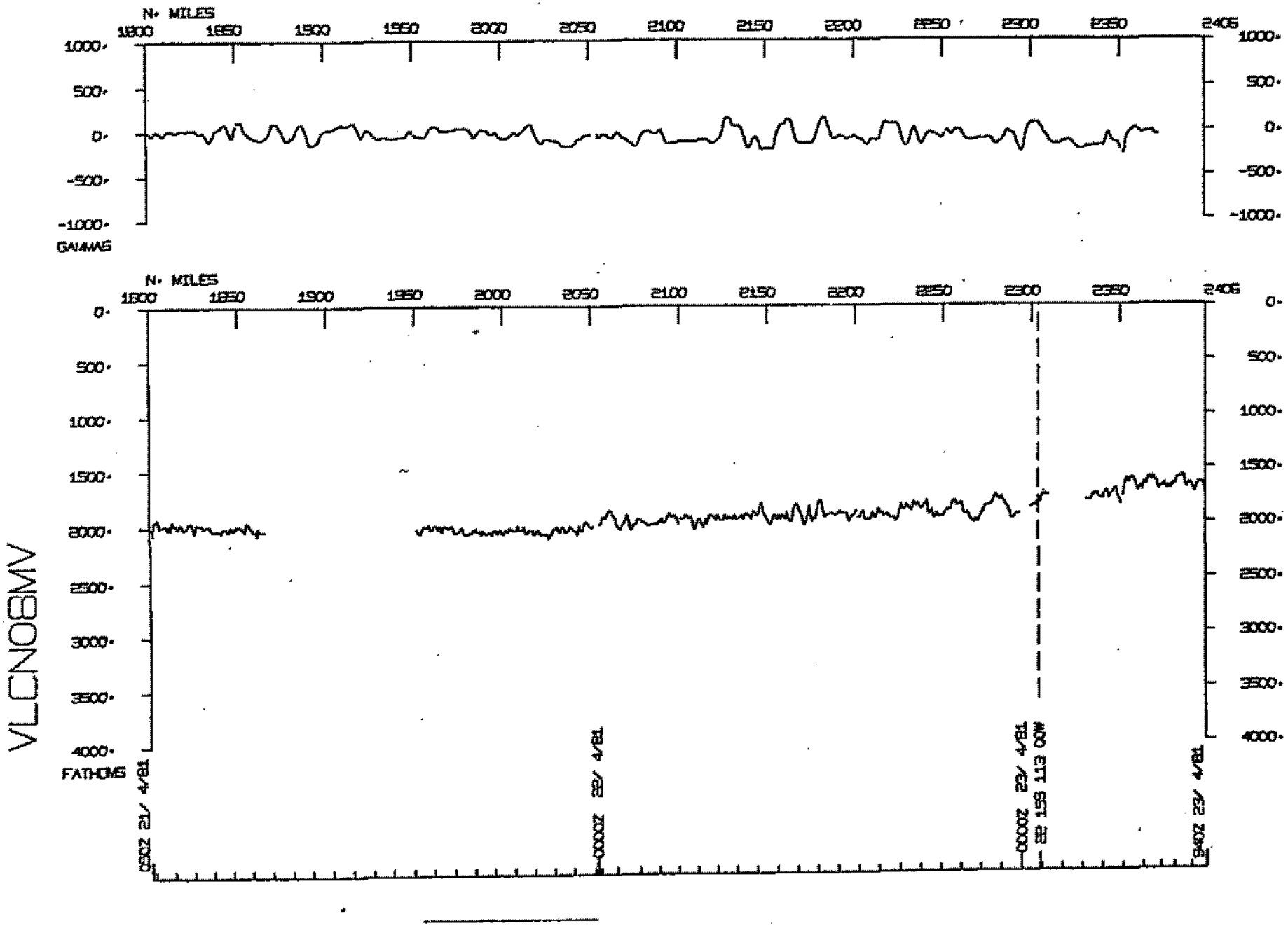
VLCN08MV
19452 18/ 4/81
00002 19/ 4/81
00002 20/ 4/81
25 175 103 08W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-500
-1000
GAMMAS
N. MILES
0
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1000
1500
2000
2500
3000
3500
4000
FATHOMS
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00002 22/ 4/81
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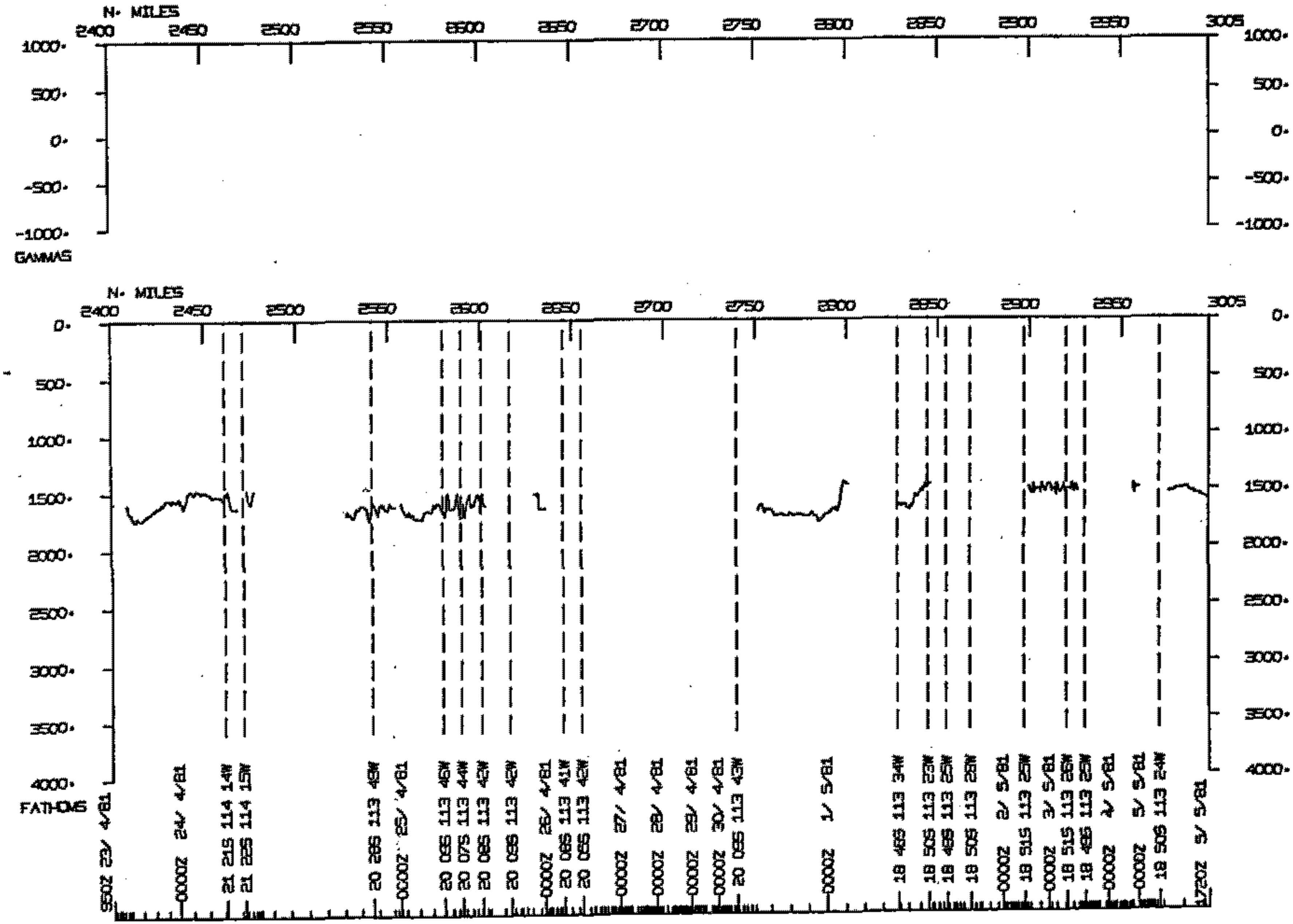
22 15S 113 00W
0402 23/ 4/81
VLCNO8MV

VLCN08MV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500.
0.
-500.
-1000.
GAMMAS
0.
500.
1000.
1500.
2000.
2500.
3000.
3500.
4000.
FATHOMS
9502 23/ 4/81
0000Z 24/ 4/81
21 21S 114 14W
21 22S 114 15W
20 28S 113 48W
0C00Z 25/ 4/81
20 03S 113 46W
20 07S 113 44W
20 08S 113 42W
20 09S 113 42W
0000Z 26/ 4/81
20 08S 113 41W
20 05S 113 42W
0000Z 27/ 4/81
0000Z 28/ 4/81
0000Z 29/ 4/81
0000Z 30/ 4/81
20 09S 113 43W
0000Z 1/ 5/81
18 48S 113 34W
18 50S 113 23W
18 48S 113 25W
18 50S 113 28W
0000Z 2/ 5/81
18 51S 113 25W
0000Z 3/ 5/81
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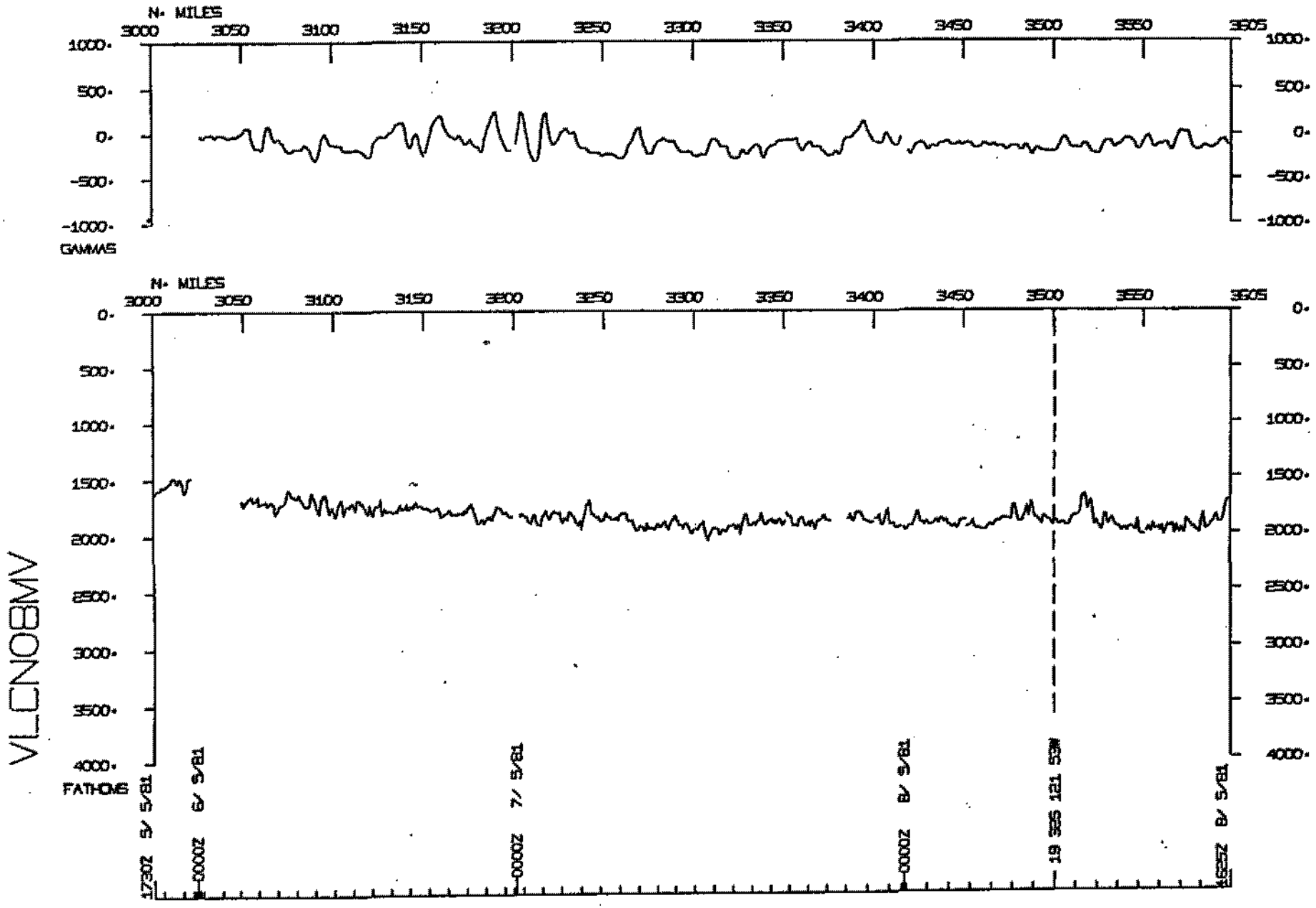
18 48S 113 25W
0000Z 4/ 5/81
0000Z 5/ 5/81
18 50S 113 24W
1720Z 5/ 5/81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GAMMAS
N. MILES
0
500
1000
1500
2000
2500
3000
3500
4000
FATHOMS
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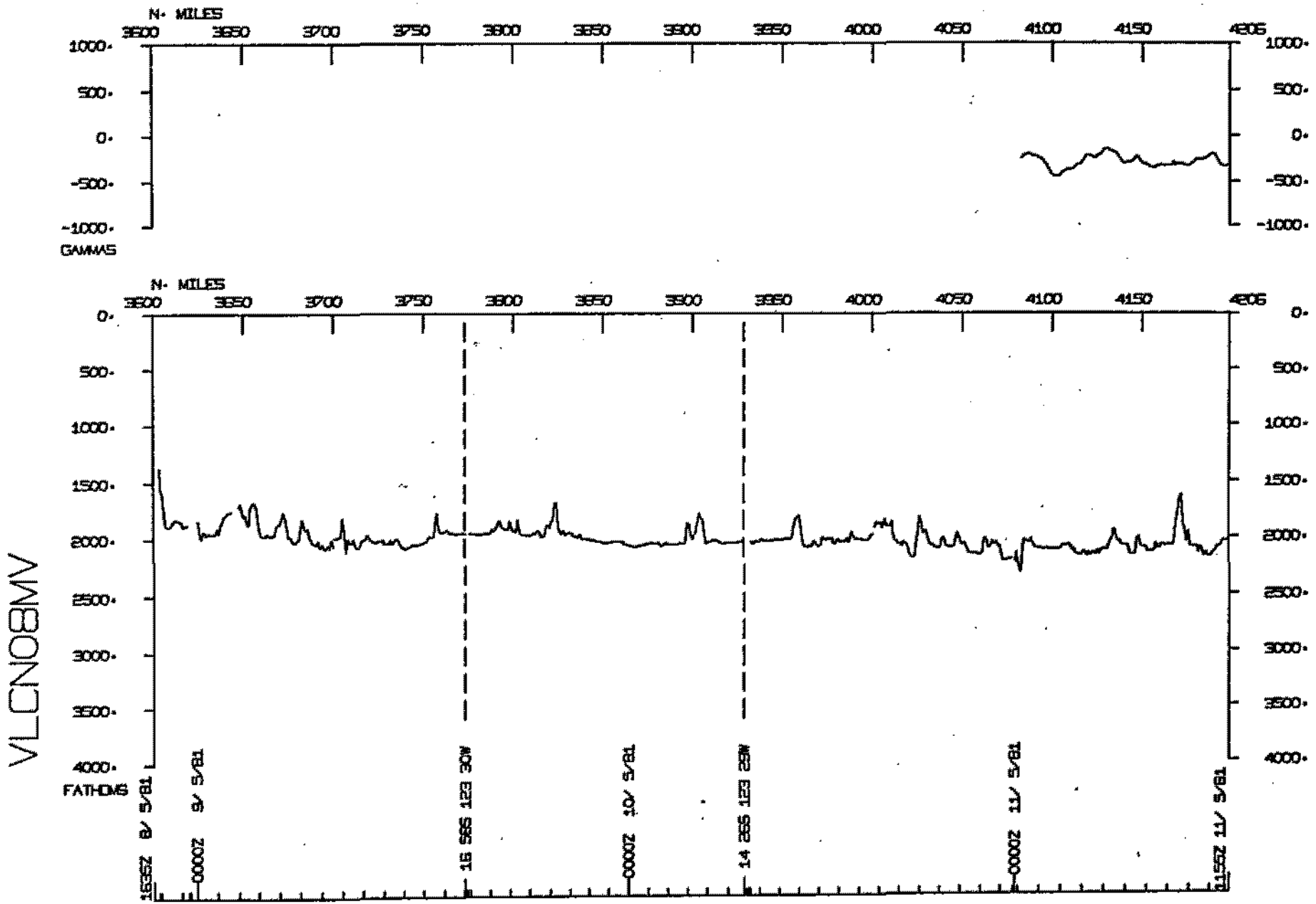
20000 6/ 5/81
20000 7/ 5/81
20000 8/ 5/81
19 335 121 53W
16252 8/ 5/81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0
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-1000
GAMMAS
N. MILES
0
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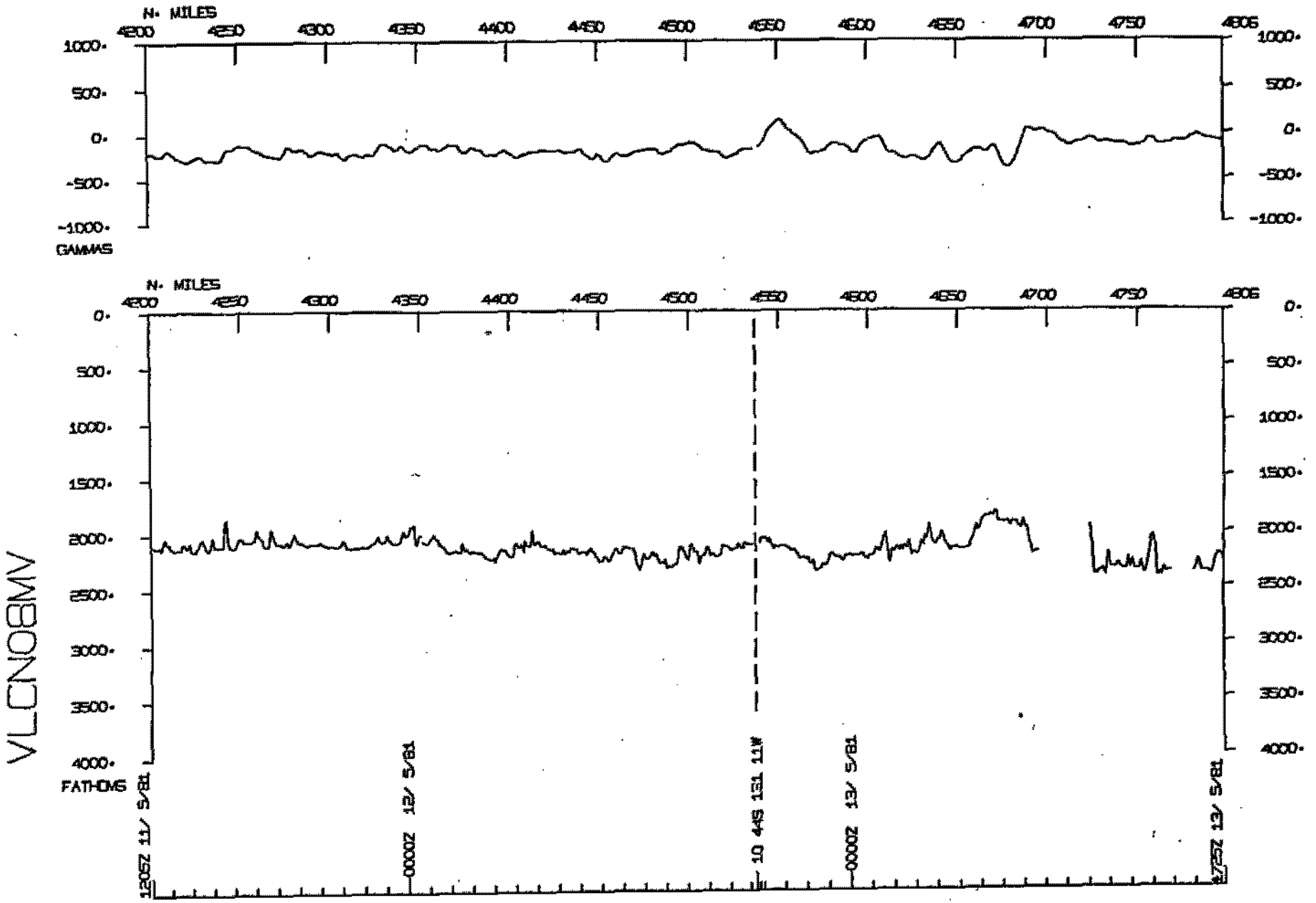
1000
1500
2000
2500
3000
3500
4000
FATHOMS
16552 8/ 5/81
00002 9/ 5/81
16 585 123 30W
00002 10/ 5/81
14 265 123 29W
00002 11/ 5/81
11552 11/ 5/81

VLCN08MV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-1000
GAMMAS
N. MILES
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1500
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2500
3000
3500
4000
FATHOMS
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20000
12/ 5/81
10 48 131 11W
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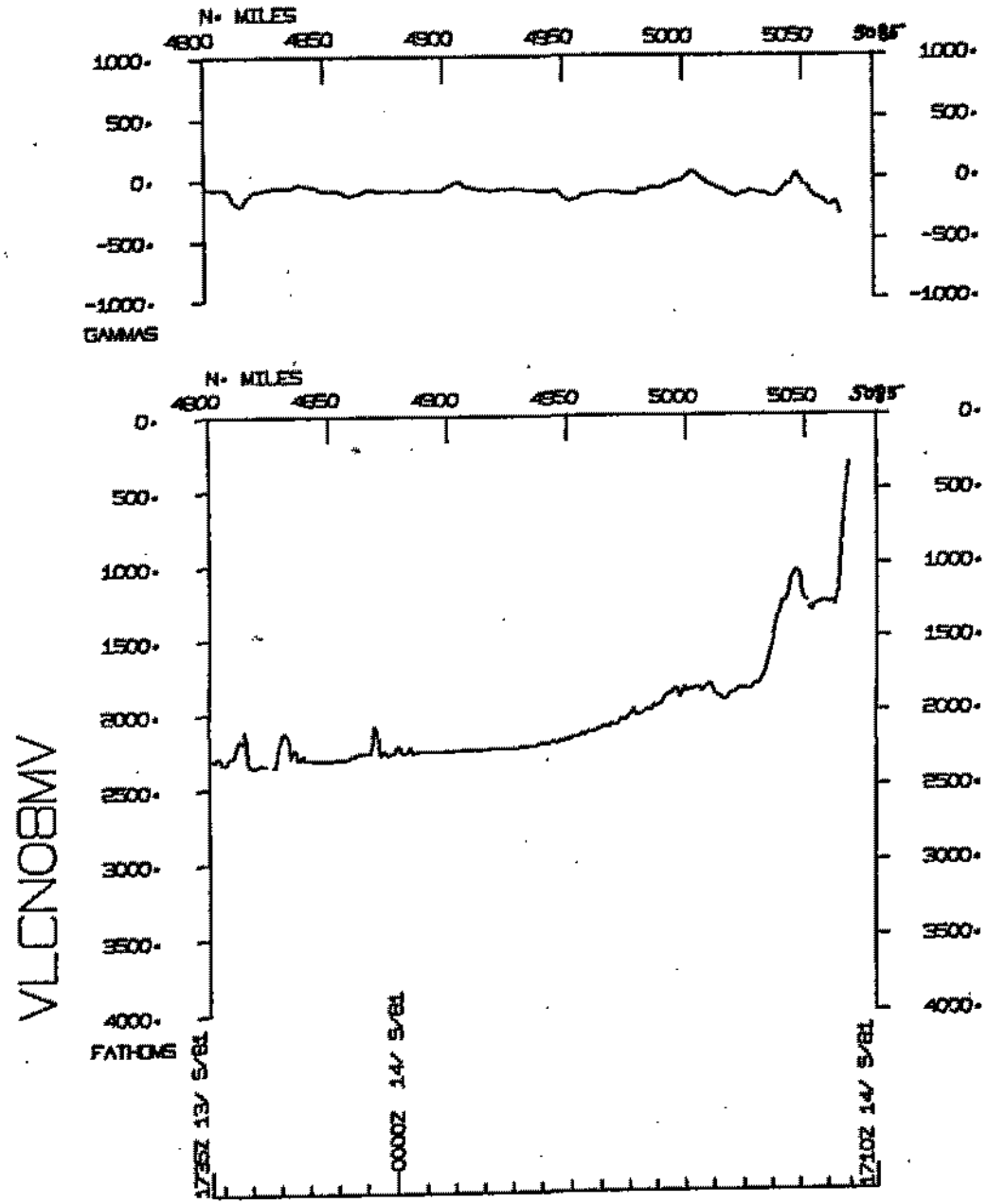
13/ 5/81
1527Z 13/ 5/81

VLCN08MV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0
500
1000
1500
2000
2500
3000
3500
4000
FATHOMS
VLCNOBMV
1732Z 13/ 5/81
0000Z 14/ 5/81
1710Z 14/ 5/81

S.I.O. Sample Index

(Issued August 1981)

VULCAN EXPEDITION

Leg 8

Valparaiso, Chile (13 April 1981)
to
Nuku Hiva, Marquesas Is. (14 May 1981)

R/V Melville

Co-Chief Scientists - H. Craig (SIO)
R. Ballard (WHOI)

Post-Cruise Processing and Report Preparation
by S.I.O. Geological Data Center

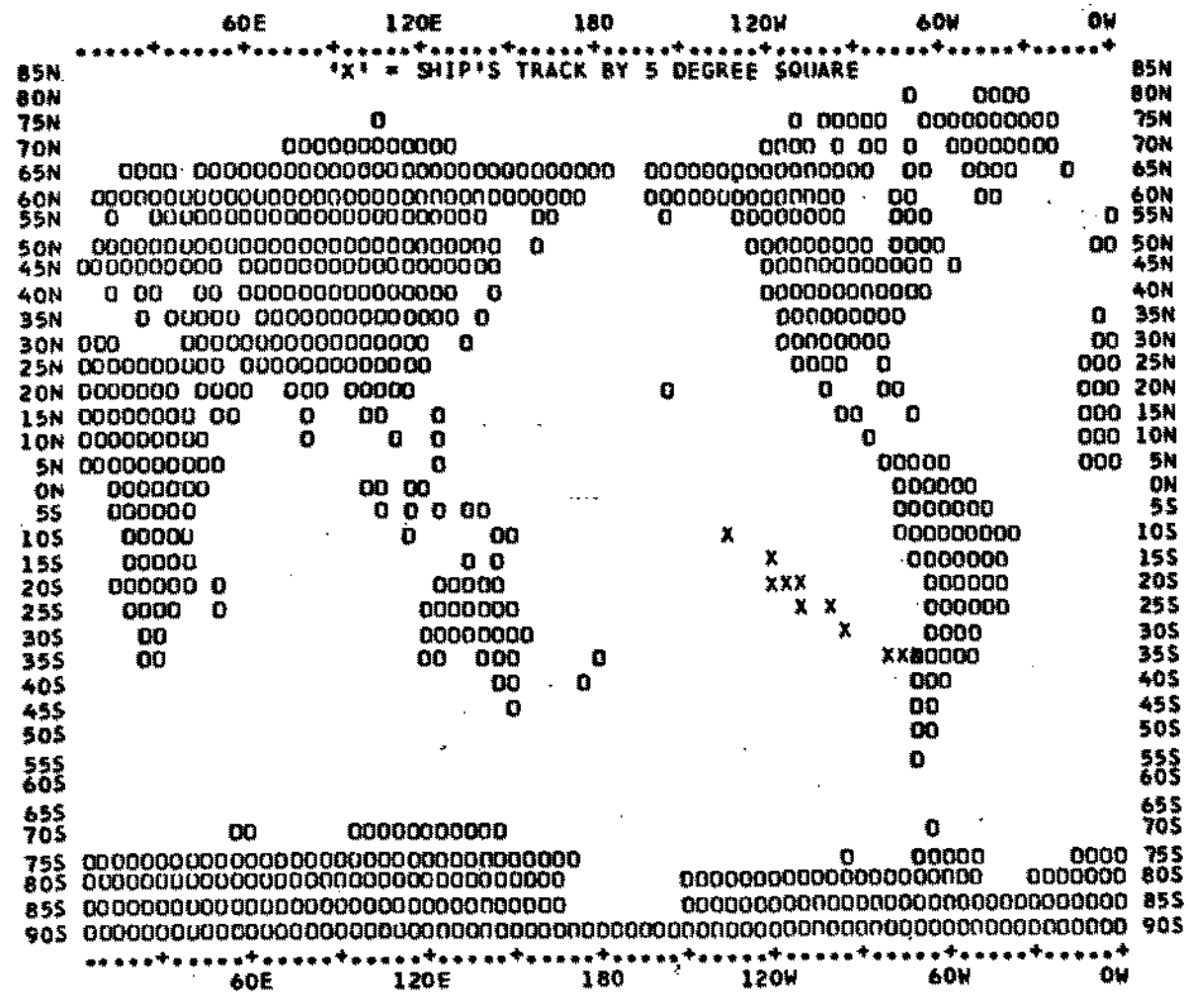
Index Encoding Funded by NSF
Grant Number OCE80-22996
Index Processing and Report Preparation
funded in part by SIA

The Sample Index is a first level interdisciplinary listing of time, position, sample identification and disposition of all samples, records and measurements collected on this cruise leg. The index data are encoded at sea by the resident technician and processed on shore by the S.I.O. Geological Data Center shortly after the completion of the cruise leg.

Positions are interpolated on the basis of sample time by comparison to a single, edited navigation file. Samples beginning at one time and position and ending at another are entered on two consecutive cards. Disposition and sample type are represented by three and four character codes to permit future computer searches on these parameters. (Listings defining these codes are available from the Geological Data Center.)

S.I.O. SAMPLE INDEX GENERATED 11AUG81

*** VULCAN LEG 8 SAMPLE INDEX (VLCN08NV) ***



13APR81 - VALPARAISO, CHILE
TO
14MAY81 - NUKU HIVA, MARQ. ISL

CHIEF SCIENTISTS - BALLARD,R.D.DR. WHO
CRAIG,H.DR. GRD

SHIP - R/V MELVILLE (SIO)

PRODUCED BY GEOLOGICAL DATA CENTER,SCRIPPS INSTITUTION
OF OCEANOGRAPHY, LA JOLLA, CALIFORNIA 92093

NUMBER OF SAMPLES OF CLASS 'TYPE' GOING TO DESTINATION 'DISP'

DISP	TYPE							TOTAL
	CA	DP	DR	GC	LB	MG	PE	
FNC	1						1	1
GCR			6					6
GDC		5			1	2		8
GRD				13			1	14
MTG							1	1
PCF							1	1
SCG							1	1
SIO							1	1
SIX							4	4
WHO	11						7	18
TOTAL	11	5	6	13	1	2	17	55

SAMPLE 'TYPE' CODES USED ABOVE

CA = CAMERA
DP = DEPTH
DR = DREDGE
GC = GEOCHEMICAL SAMPLING
LB = LOG BOOKS
MG = MAGNETICS (TOWED VEHICLE, SURFACE, TOTAL FIELD)
PE = PERSONNEL IN SCIENTIFIC PARTY

SAMPLE 'DISP' CODES USED ABOVE

FNC = FRANCE
GCR = GEOLOGICAL CURATING FACILITY -- W. RIEDEL, (EXT. 4386)
GDC = GEOLOGICAL DATA CENTER -- S. SMITH (EXT. 2752)
GRD = GEOLOGICAL RESEARCH DIVISION (EXT. 3360)
MTG = MARINE TECHNOLOGY GROUP (EXT 4194)
PCF = PHYSICAL AND CHEMICAL DATA FACILITY (EXT. 2240)
SCG = SHIPBOARD COMPUTER GROUP (EXT. 4195)
SIO = SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA, CAL. 92093
SIX = SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT.3675)
WHO = WOODS HOLE OCEANOGRAPHIC INSTITUTION

GMT TIME	D /M /Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
					VULCANO8MV SAMPLE INDEX				VLCNO8MV

*** PORTS ***

0800	13/ 4/81			LGPT	R VALPARAISO, CHILE		33 02. S	71 37. W	F VLCNO8MV
1630	14/ 5/81			LGPT	E NUKU HIVA, MARQ. ISL		08 56. S	140 05. W	F VLCNO8MV

PERSONNEL

*** NAME ***	*** TITLE ***	*** AFFILIATION ***
1 BALLARD,R.D.DR.	CHIEF SCIENTIST	WOODS HOLE OCEANOGRAPHIC INSTITUTION
2 CRAIG,H.DR.	CHIEF SCIENTIST	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
3 COKER,R.L.	RESIDENT TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
4 STUBER,D.V.	COMPUTER TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
5 COLLINS,C.	COMPUTER TECH	WOODS HOLE OCEANOGRAPHIC INSTITUTION
6 CORTES,N.	ELECTONICS TECH	FRANCE
7 HANDY,R.F.	MARINE TECH	WOODS HOLE OCEANOGRAPHIC INSTITUTION
8 LOUD,J.F.	COMPUTER TECH	WOODS HOLE OCEANOGRAPHIC INSTITUTION
9 PORTEOUS,J.W.	PHOTOGRAPHER	WOODS HOLE OCEANOGRAPHIC INSTITUTION
10 SCHEER,C.D.	COMPUTER TECH	WOODS HOLE OCEANOGRAPHIC INSTITUTION
11 VITEK,J.L.	ELECTRONICS TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
12 YOUNG,E.M.	CAMERA TECH.	WOODS HOLE OCEANOGRAPHIC INSTITUTION
13 DIXON,F.S.	VOLUNTEER	SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT.3675
14 CRAIG,V.K.	VOLUNTEER	SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT.3675
15 MORTON,J.	STUDENT	SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT.3675
16 KIM,K.	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
17 HUDSON,A.G.	STUDENT	SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT.3675

NOTES AN 'X' IN THE (B)EGIN/(E)ND COLUMN FOLLOWING THE SAMPLE CODE INDICATES NO SAMPLE OR DATA RECOVERED .
A 'C' INDICATES CONTINUATION OF DATA COLLECTION FROM BEFORE THE BEGINNING OR AFTER THE END OF THIS LEG. (MOORED BOTTOM INSTRUMENTS, FOR EXAMPLE).
THE NUMBER APPEARING IN THE COLUMNS BETWEEN THE SAMPLE IDENTIFIER AND THE DISPOSITION CODE, FOR MANY SAMPLE ENTRIES, IS THE WATER DEPTH IN CORRECTED METERS.

GMT D /M /Y TIME DATE	LOC TIME TZ	LOC CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
**** UNDERWAY DATA CURATOR - STUART M. SMITH EXT. 2752 ***							
*** LOG BOOKS ***							
2125 13/ 4/81		LBSC B	SCIENTIFIC LOG 139PG	GDC	32 59.9S	71 40.2W	S VLCN08MV
1600 14/ 5/81		LBSC E	SCIENTIFIC LOG 139PG	GDC	09 00.7S	139 57.8W	S VLCN08MV
*** FATHOGRAMS ***							
1235 14/04/81		DPR3 B	PDR 3.5 KHZ R-01	GDC	37 51.4S	72 49.4W	S VLCN08MV
0425 24/04/81		DPR3 E	PDR 3.5 KHZ R-01	GDC	21 22.0S	114 15.4W	S VLCN08MV
0705 24/04/81		DPR3 B	PDR 3.5 KHZ R-02	GDC	21 22.9S	114 16.4W	S VLCN08MV
0237 27/04/81		DPR3 E	PDR 3.5 KHZ R-02	GDC	20 06.5S	113 42.6W	S VLCN08MV
2040 30/04/81		DPR3 B	PDR 3.5 KHZ R-03	GDC	20 03.9S	113 42.5W	S VLCN08MV
0030 01/05/81		DPR3 E	PDR 3.5 KHZ R-03	GDC	19 21.1S	113 39.3W	S VLCN08MV
1650 02/05/81		DPR3 B	PDR 3.5 KHZ R-04	GDC	18 50.9S	113 25.3W	S VLCN08MV
0222 06/05/81		DPR3 E	PDR 3.5 KHZ R-04	GDC	19 30.8S	113 33.5W	S VLCN08MV
0608 06/05/81		DPR3 B	PDR 3.5 KHZ R-05	GDC	19 30.2S	113 49.9W	S VLCN08MV
1600 14/ 5/81		DPR3 E	PDR 3.5 KHZ R-05	GDC	09 00.7S	139 57.8W	S VLCN08MV
*** MAGNETOMETER ***							
2125 14/ 4/81		MGRA B	MAGNETICS ROLL-01	GDC	32 34.4S	75 02.0W	S VLCN08MV
0230 19/ 4/81		MGRA E	MAGNETICS ROLL-01	GDC	27 55.4S	95 48.7W	S VLCN08MV
0243 19/ 4/81		MGRA B	MAGNETICS ROLL-02	GDC	27 54.6S	95 51.2W	S VLCN08MV
1543 14/ 5/81		MGRA E	MAGNETICS ROLL-02	GDC	09 00.6S	139 56.9W	S VLCN08MV
*** CAMERA ***							
2346 26/ 4/81		CATR B	ANGUS LOW. 142 2925M	WHO	20 08.3S	113 42.7W	S VLCN08MV
0430 27/ 4/81		CATR E	35MM CAMERA-COLOR	WHO	20 05.3S	113 42.2W	S VLCN08MV
1022 27/ 4/81		CATR B	ANGUS LOW. 143 2800M	WHO	20 08.1S	113 42.1W	S VLCN08MV
0024 28/ 4/81		CATR E	35MM CAMERA-COLOR	WHO	20 09.1S	113 43.5W	S VLCN08MV
0024 28/ 4/81		CATR B	ANGUS LOW. 144 2802M	WHO	20 06.8S	113 43.4W	S VLCN08MV
1104 28/ 4/81		CATR E	35MM CAMERA-COLOR	WHO	20 09.4S	113 43.7W	S VLCN08MV
2211 29/ 4/81		CATR B	ANGUS LOW. 145 2950M	WHO	20 08.1S	113 42.2W	S VLCN08MV
0933 30/ 4/81		CATR E	35MM CAMERA-COLOR	WHO	20 08.4S	113 43.2W	S VLCN08MV

GMT TIME	D /M /Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
0036	2/ 5/81			CATR	B ANGUS LOW. 146 2800M	WHO	18 51.9S	113 26.3W S	VLCN08MV
0918	2/ 5/81			CATR	E 35MM CAMERA-COLOR	WHO	18 51.2S	113 25.6W S	VLCN08MV
1737	2/ 5/81			CATR	B ANGUS LOW. 147 2700M	WHO	18 50.6S	113 25.2W S	VLCN08MV
1958	2/ 5/81			CATR	E 35MM CAMERA-COLOR	WHO	18 50.5S	113 25.2W S	VLCN08MV
0854	3/ 5/81			CATR	B ANGUS LOW. 148 2900M	WHO	18 50.8S	113 25.6W S	VLCN08MV
1413	3/ 5/81			CATR	E 35MM CAMERA-COLOR	WHO	18 50.0S	113 27.8W S	VLCN08MV
2359	3/ 5/81			CATR	B ANGUS LOW. 149 2900M	WHO	18 51.0S	113 25.7W S	VLCN08MV
0600	4/ 5/81			CATR	E 35MM CAMERA-COLOR	WHO	18 50.1S	113 25.1W S	VLCN08MV
1227	4/ 5/81			CATR	B ANGUS LOW. 150 2900M	WHO	18 50.0S	113 25.8W S	VLCN08MV
1311	4/ 5/81			CATR	E 35MM CAMERA-COLOR	WHO	18 49.7S	113 25.5W S	VLCN08MV
1913	4/ 5/81			CATR	B ANGUS LOW. 151 2920M	WHO	18 49.6S	113 26.4W S	VLCN08MV
2151	4/ 5/81			CATR	E 35MM CAMERA-COLOR	WHO	18 48.9S	113 24.6W S	VLCN08MV
0504	5/ 5/81			CATR	B ANGUS LOW. 152 2750M	WHO	18 50.0S	113 27.4W S	VLCN08MV
1030	5/ 5/81			CATR	E 35MM CAMERA-COLOR	WHO	18 50.0S	113 27.0W S	VLCN08MV

*** DREDGES *** CURATOR - W. RIEDEL EXT. 4386

1635	23/ 4/81			DRRD	B DREDGE 1 STA.2 2962M	GCR	22 13.8S	114 28.6W S	VLCN08MV
1817	23/ 4/81			DRRD	E DREDGE 1 STA.2	GCR	22 11.0S	114 28.7W S	VLCN08MV
0952	24/ 4/81			DRRD	B DREDGE 2 STA.3 2745M	GCR	21 24.0S	114 16.7W S	VLCN08MV
1105	24/ 4/81			DRRD	E DREDGE 2 STA.3	GCR	21 24.1S	114 18.0W S	VLCN08MV
1331	30/ 4/81			DRRD	B DREDGE 3 STA.5 2807M	GCR	20 09.2S	113 43.3W S	VLCN08MV
1418	30/ 4/81			DRRD	E DREDGE 3 STA.5 2807M	GCR	20 09.2S	113 43.3W S	VLCN08MV
1906	3/ 5/81			DRRD	B DREDGE 4 2927M	GCR	18 50.2S	113 25.4W S	VLCN08MV
1941	3/ 5/81			DRRD	E DREDGE 4 2927M	GCR	18 49.7S	113 25.1W S	VLCN08MV
0055	5/ 5/81			DRRD	B DREDGE 5 2760M	GCR	18 49.3S	113 26.8W S	VLCN08MV
0230	5/ 5/81			DRRD	E DREDGE 5 2760M	GCR	18 49.8S	113 26.6W S	VLCN08MV
0108	6/ 5/81			DRRD	B DREDGE 6 STA.6 2800M	GCR	19 30.6S	113 34.1W S	VLCN08MV
0216	6/ 5/81			DRRD	E DREDGE 6 STA.6 2800M	GCR	19 30.7S	113 33.5W S	VLCN08MV

CONDUCTIVITY, TEMPERATURE, DEPTH

2038	15/ 4/81			GCTD	ST-99 TEST CAST 608M	GRD	31 46.7S	RO 14.2W S	VLCN08MV
0059	21/ 4/81			GCTD	ST-01 16BTL C1 3777M	GRD	24 23.9S	104 41.8W S	VLCN08MV
1210	23/ 4/81			GCTD	ST-02 16BTL C1 2984M	GRD	22 15.2S	114 28.8W S	VLCN08MV
0515	24/ 4/81			GCTD	ST-03 13BTL C1 2815M	GRD	21 22.4S	114 15.8W S	VLCN08MV
2059	24/ 4/81			GCTD	ST-04 13BTL C1 3090M	GRD	20 29.2S	113 51.2W S	VLCN08MV
0701	28/ 4/81			GCTD	ST-05 12BTL C1 2815M	GRD	20 09.6S	113 43.6W S	VLCN08MV
2015	5/ 5/81			GCTD	ST-06 13BTL C1 2770M	GRD	19 30.0S	113 33.4W S	VLCN08MV
2157	6/ 5/81			GCTD	ST-07 16BTL C1 3423M	GRD	19 30.0S	116 34.7W S	VLCN08MV

GMT TIME	D /M /Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
2212	7/ 5/81			GCTD	ST-08 15BTL C1 3624M	GRD	19 31.3S	120 24.1W S	VLCN08MV
1730	8/ 5/81			GCTD X	ST-09 14BTL C1 2625M	GRD	19 29.6S	123 39.0W S	VLCN08MV
2116	8/ 5/81			GCTD	ST-09 14BTL C2 3526M	GRD	19 29.5S	123 30.3W S	VLCN08MV
1405	9/ 5/81			GCTD	ST-10 14BTL C1 3649M	GRD	16 59.1S	123 30.3W S	VLCN08MV
0711	10/ 5/81			GCTD	ST-11 14BTL C1 3806M	GRD	14 27.0S	123 30.2W S	VLCN08MV
2336	10/ 5/81			GCTD	ST-12 14BTL C1 4114M	GRD	12 03.4S	123 29.8W S	VLCN08MV
9900				END SAMPLE INDEX					VLCN08MV