

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

(Issued September 1979)

MARIANA EXPEDITION

LEG 11

Subic Bay, Philippines (1 July 1979)  
to  
Honolulu, Hawaii (1 August 1979)

R/V T. Washington

Chief Scientist - G. Shor (SIO)

Resident Marine Tech - R. Wilson

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

Data Collection Funded by NSF  
Grant Number OCE78-16758  
Data Processing Funded by SIA, NSF and ONR

NOTE: This is an index of underway geophysical data edited and processed shortly after the completion of the cruise leg and is intended primarily for informal use within the institution. This document is not to be reproduced or distributed outside Scripps without prior approval of the chief scientist or the Geological Data Center, Scripps Institution of Oceanography, La Jolla, California 92093.

## 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"/deg. long.
- 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.) at approximately 1 mile spacing, plotted at 4"/degree with standard U. S. Navy Oceanographic Office BC series boundaries (see index chart).

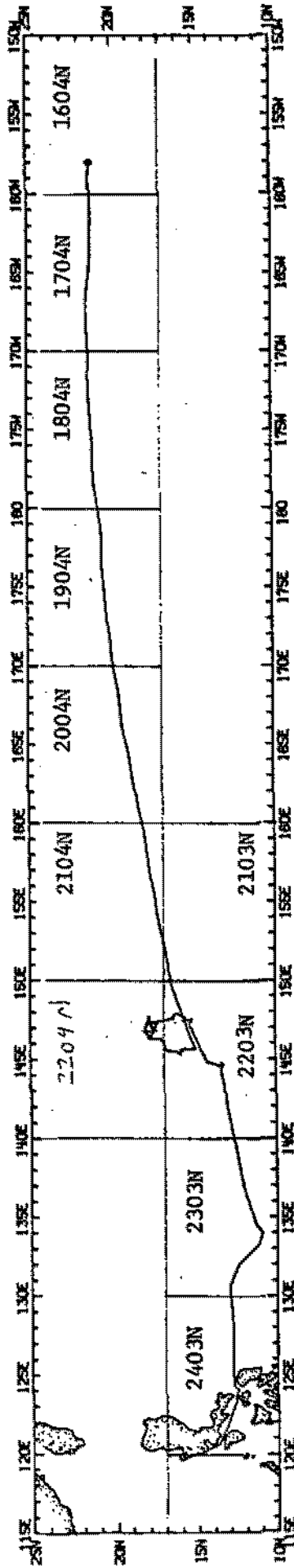
3. Plots of magnetic anomaly profiles along track - map scale = 1.2"/degree; anomaly scale between 15°N and 15°S latitude = 500 gamm/inch; anomaly scale north of 15°N and south of 15°S = 1000 gamm/inch; from values retrieved at approximately 1 mile spacing and regional field removed using the 1975 IGRF.

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



# MARIANA EXPEDITION LEG 11

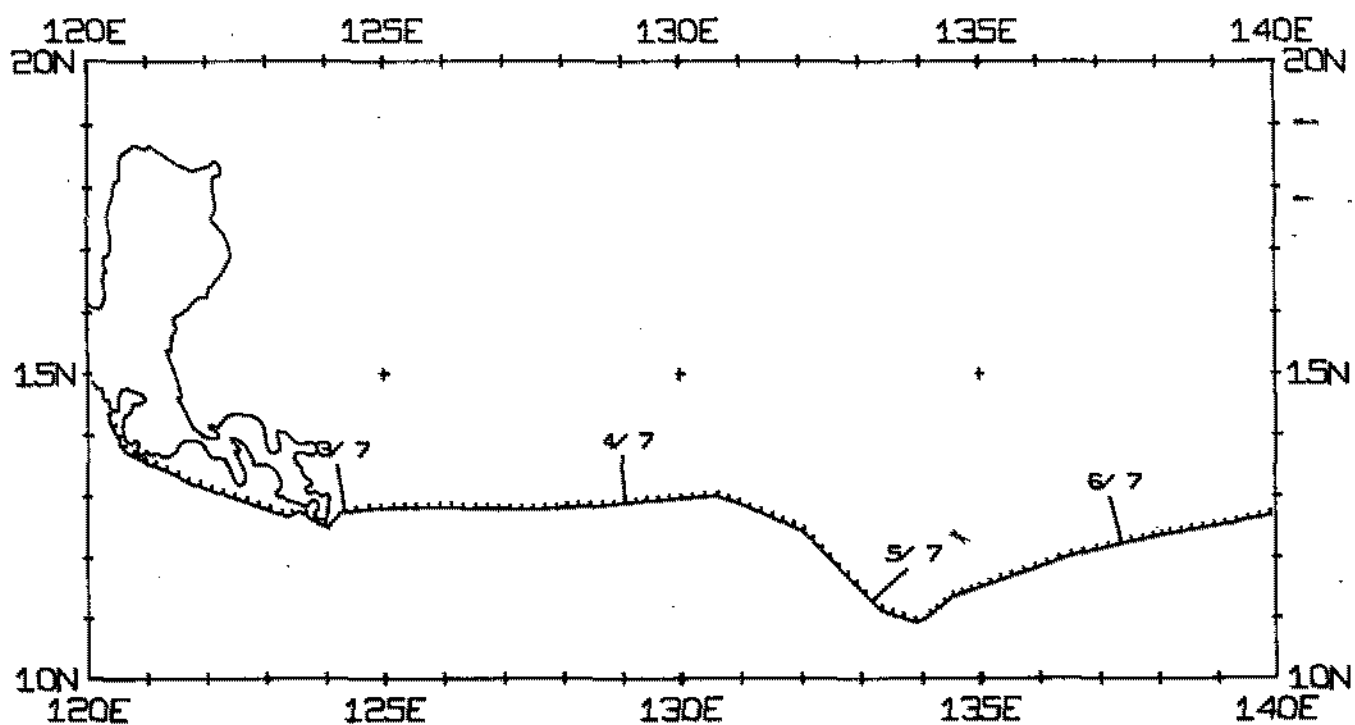
Chief Scientist: George Shor (SIO)  
 Ports: Subic Bay, Philippines - Honolulu, Hawaii  
 Dates: 1 July - 1 August 1979  
 Ship: R/V T. Washington

## TOTAL MILEAGE

- 1) Cruise - 6226 miles
- 2) Bathymetry - 6116 miles
- 3) Magnetics - 4991 miles
- 4) Seismic Reflection - 208 miles
- 5) Gravity - none collected

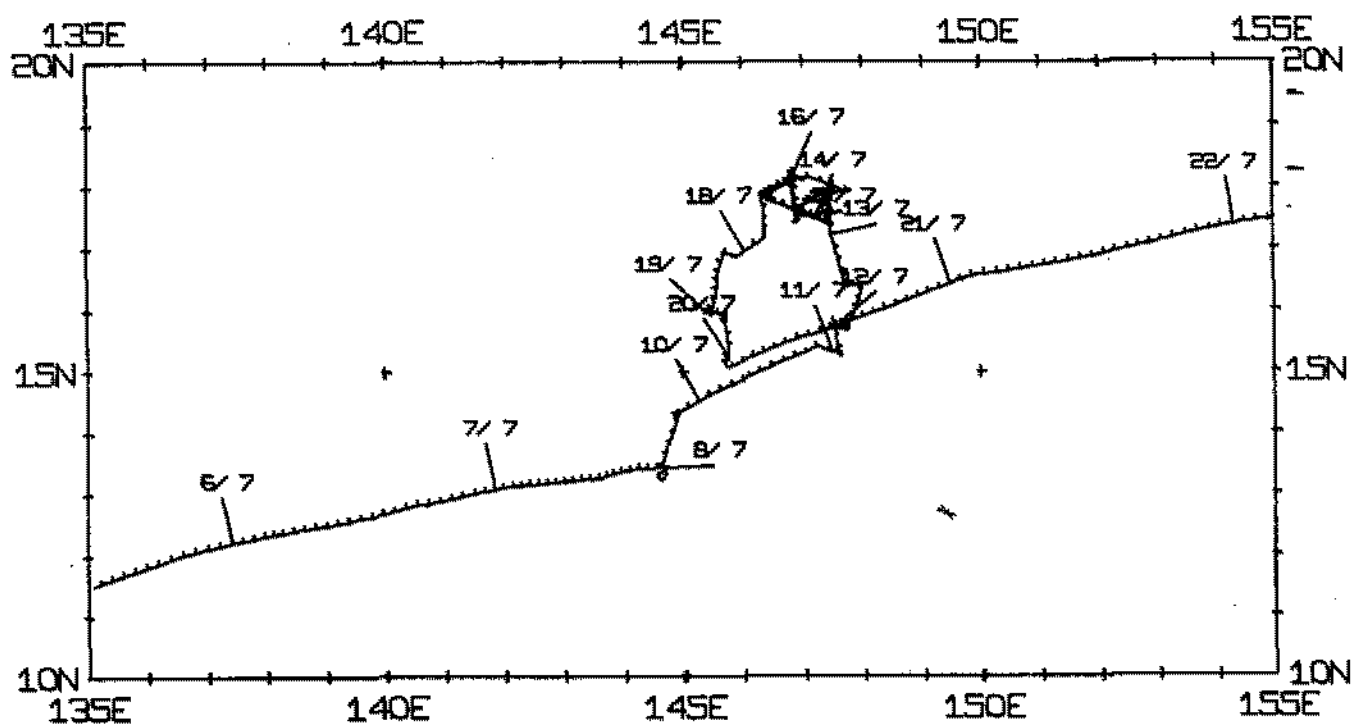
MARIANA LEG 11 TRACK PLOT (1 OF 5)

MERCATOR PROJECTION, SCALE= 0.312 IN/DEG LONGITUDE



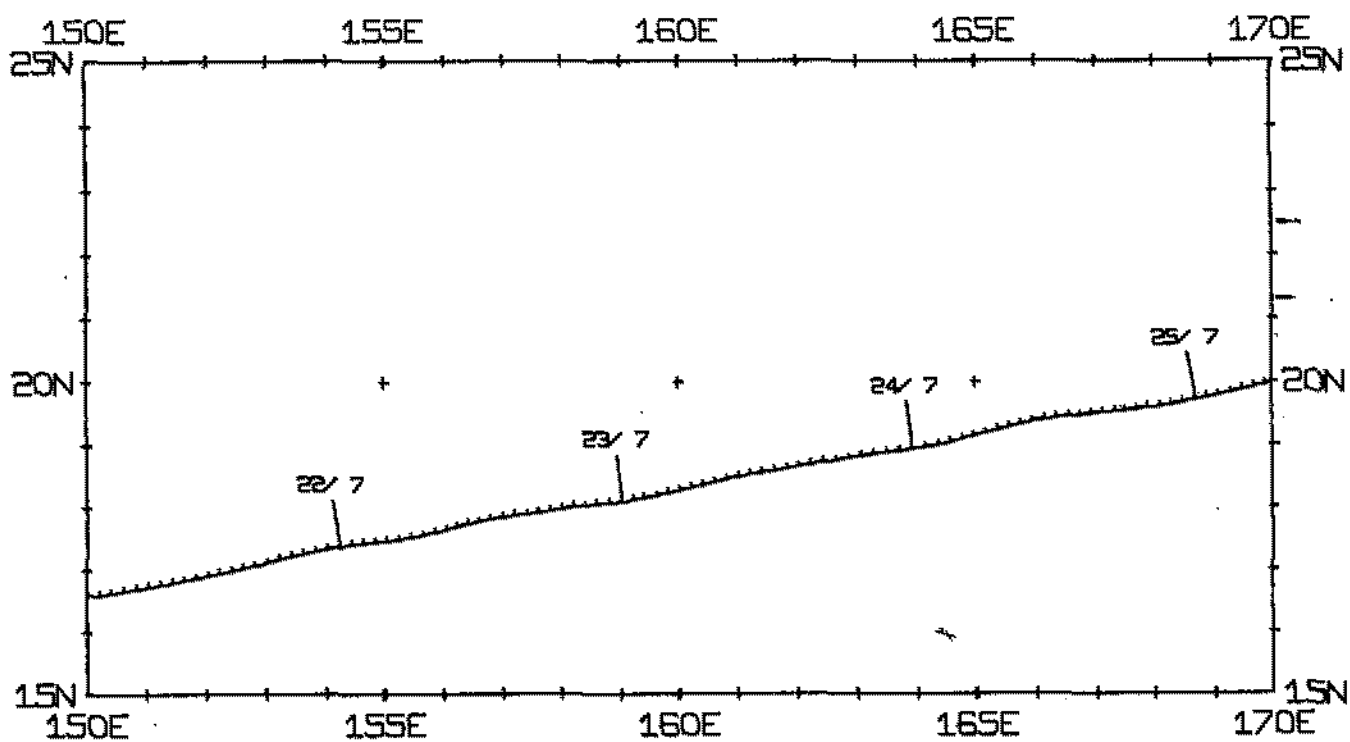
MARIANA LEG 11 TRACK PLOT (2 OF 5)

MERCATOR PROJECTION, SCALE= 0.312 IN/DEG LONGITUDE



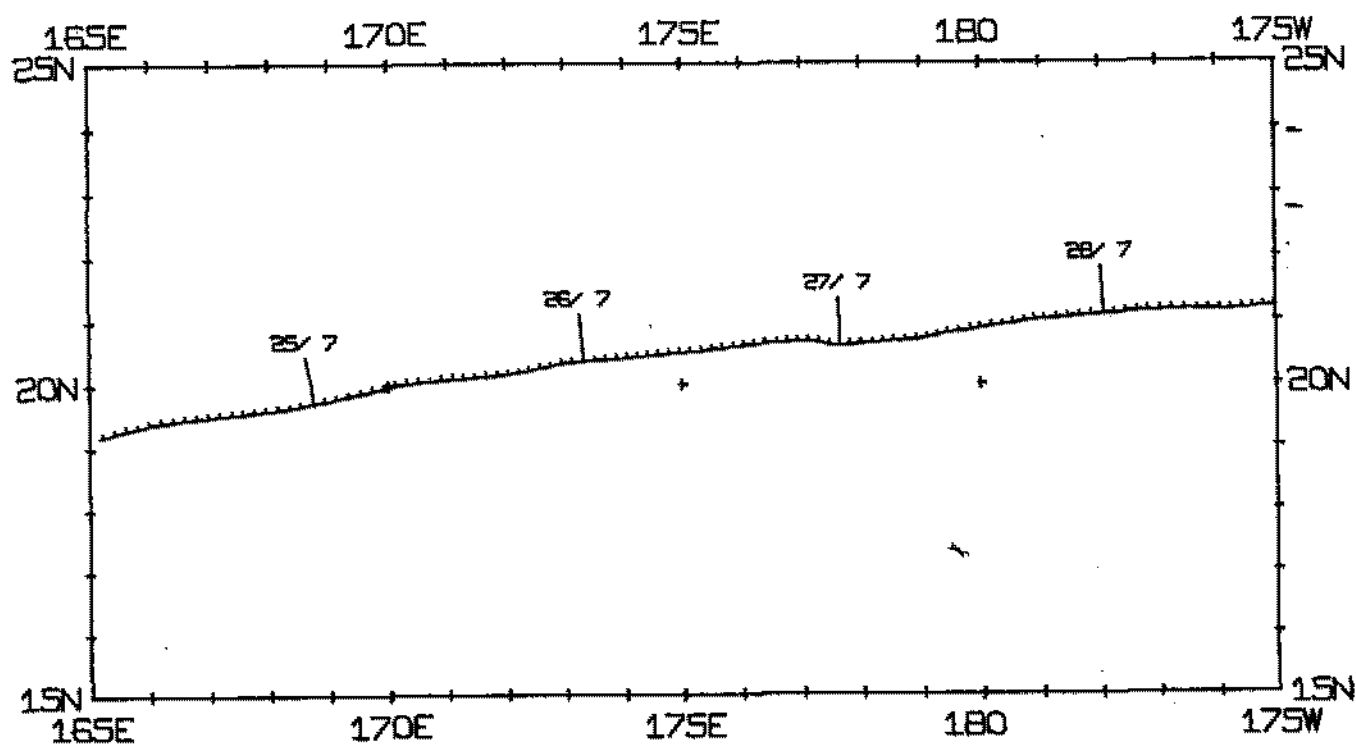
MARIANA LEG 11 TRACK PLOT (3 OF 5)

MERCATOR PROJECTION, SCALE= 0.312 IN/DEG LONGITUDE



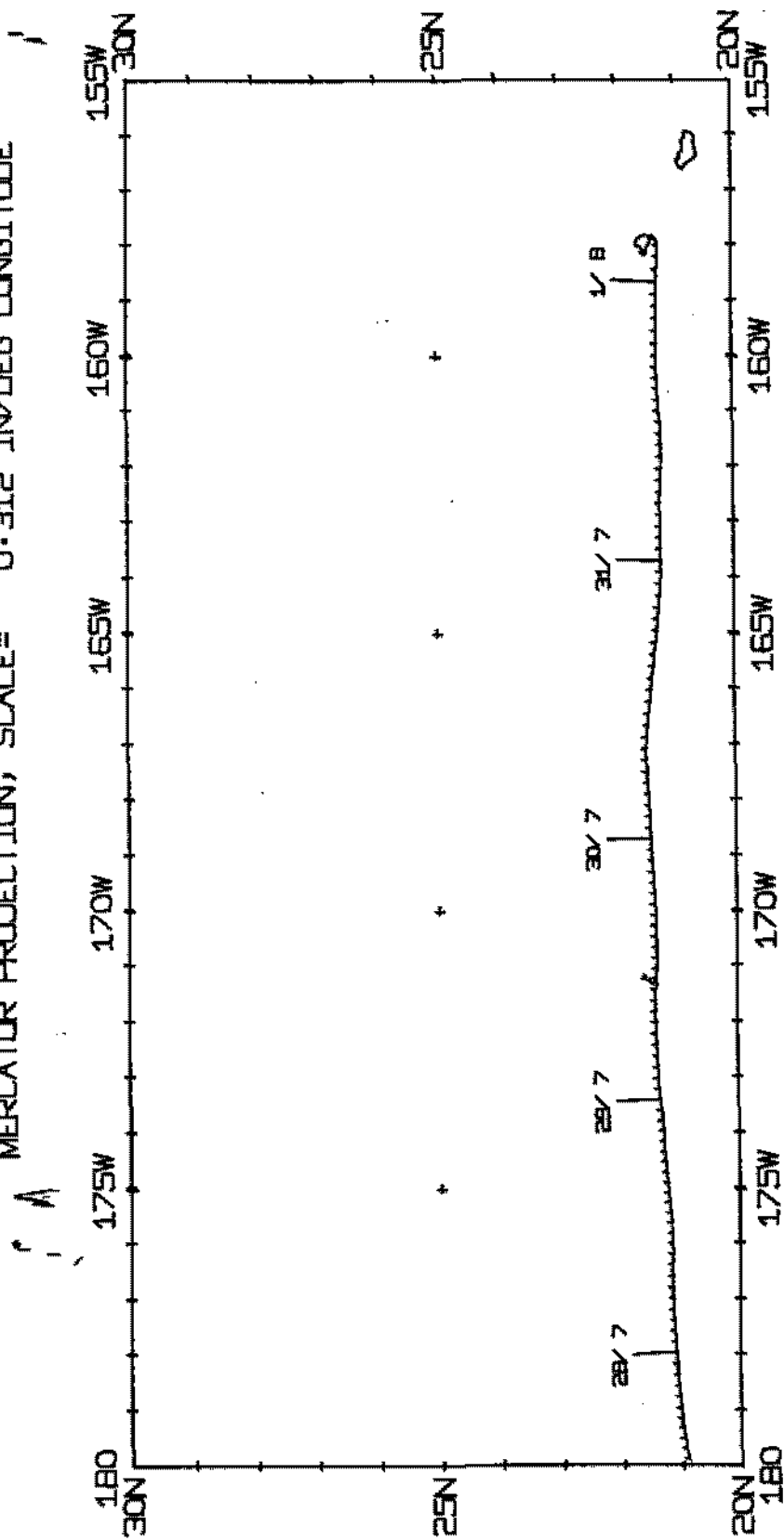
MARIANA LEG 11 TRACK PLOT (4 OF 5)

MERCATOR PROJECTION, SCALE= 0.312 IN/DEG LONGITUDE

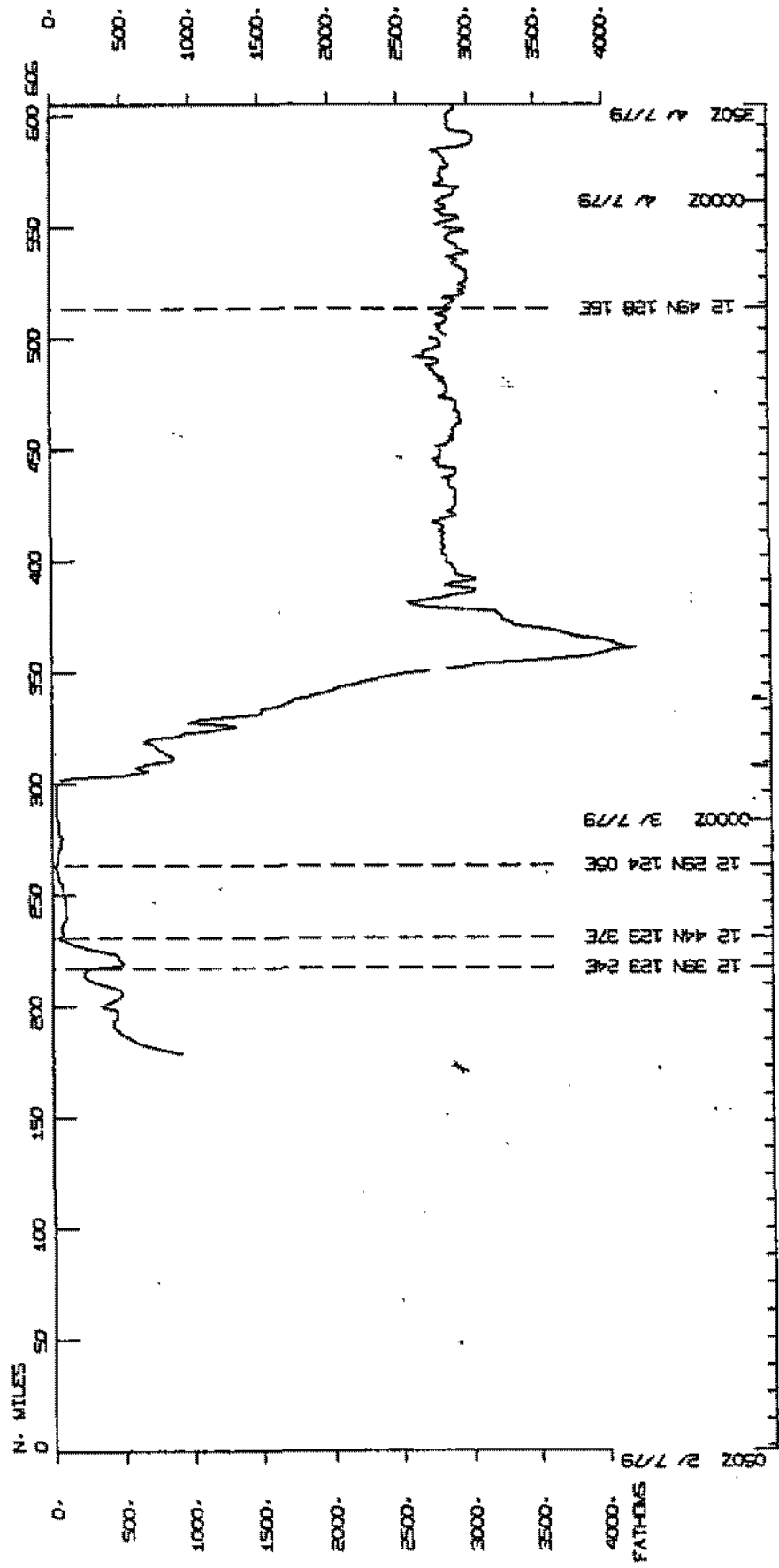
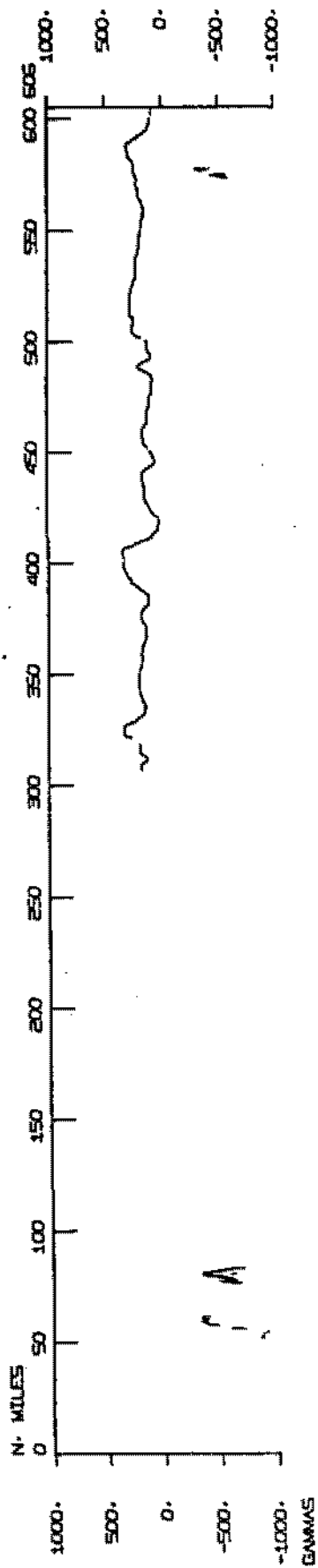


MARIANA LEG 11 TRACK PLOT (5 OF 5)

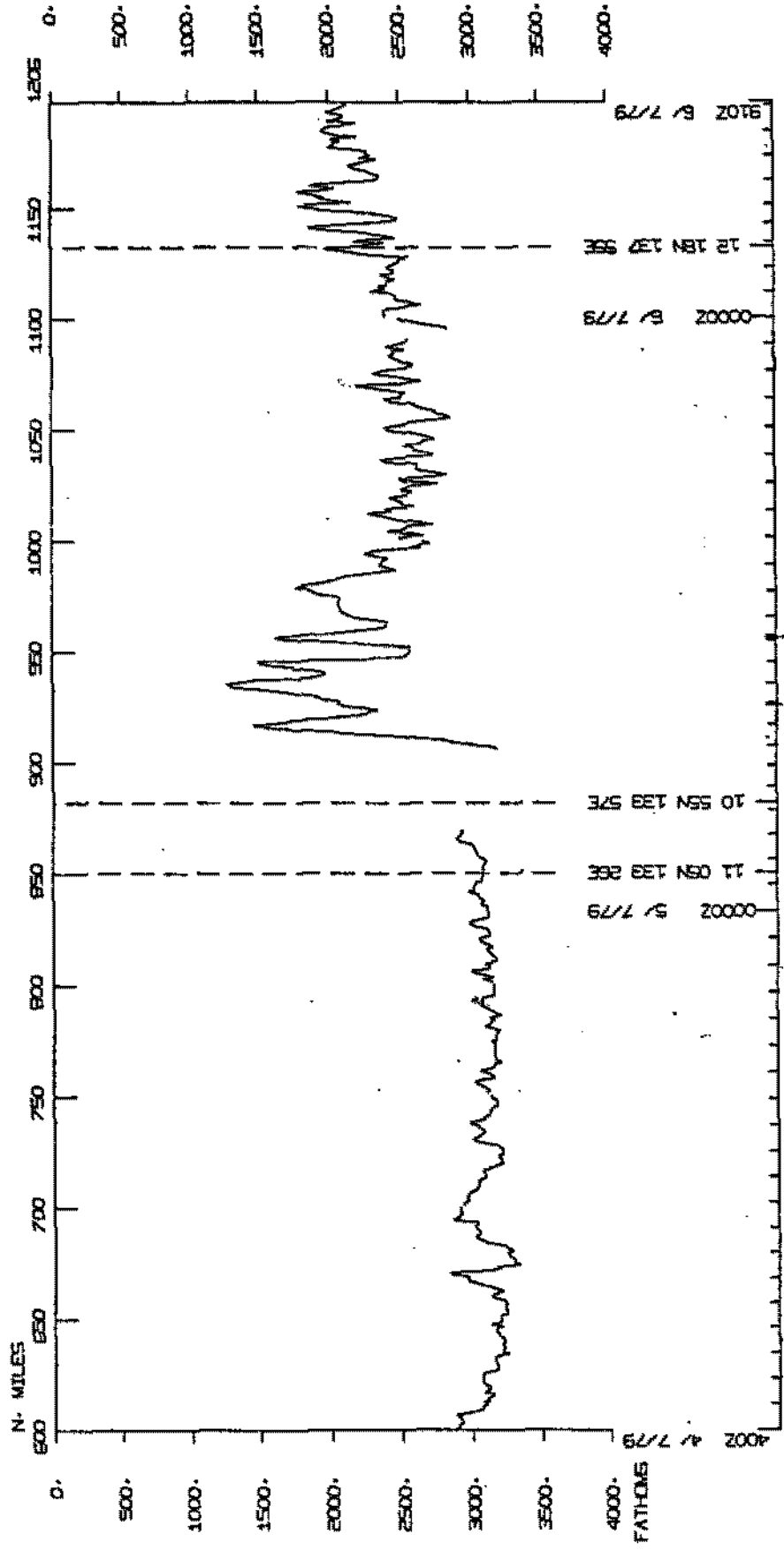
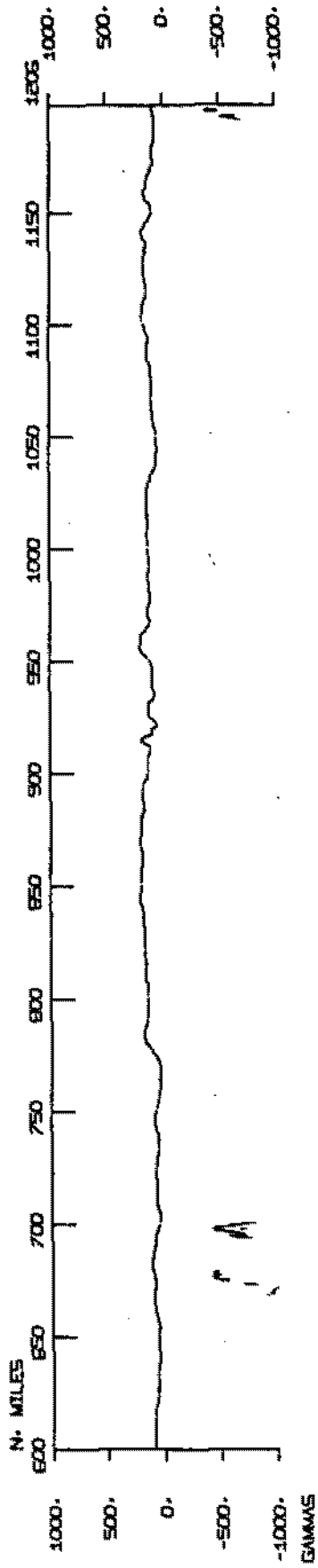
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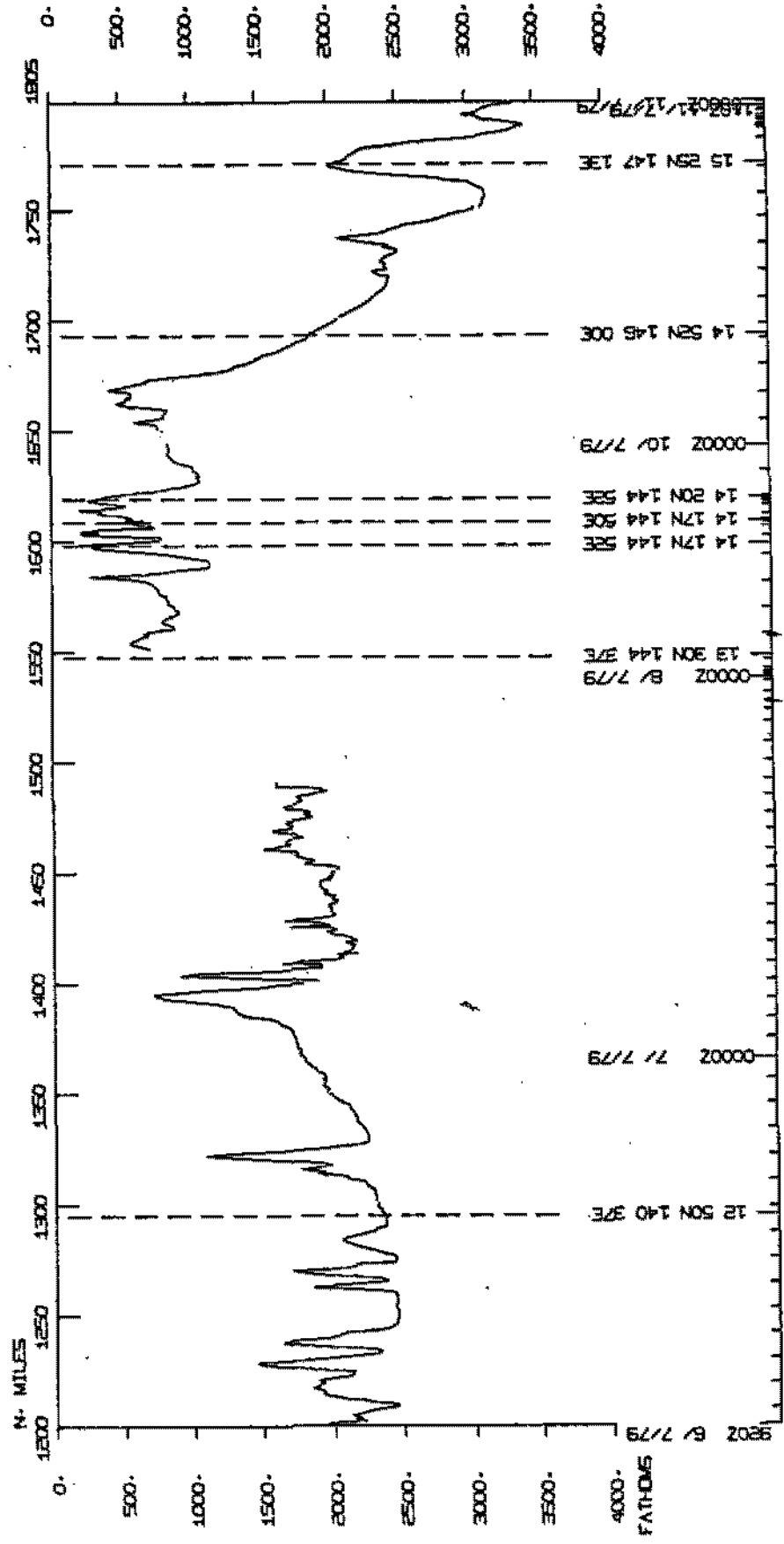
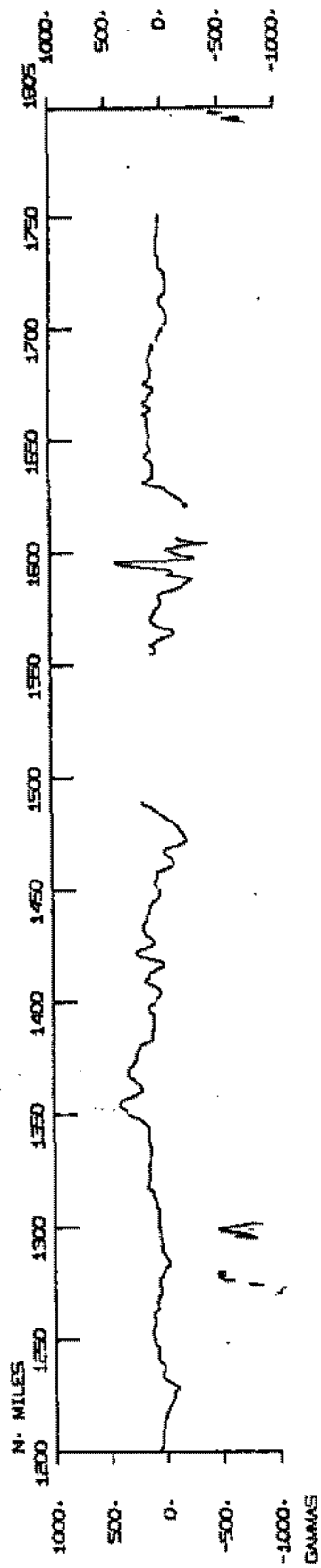
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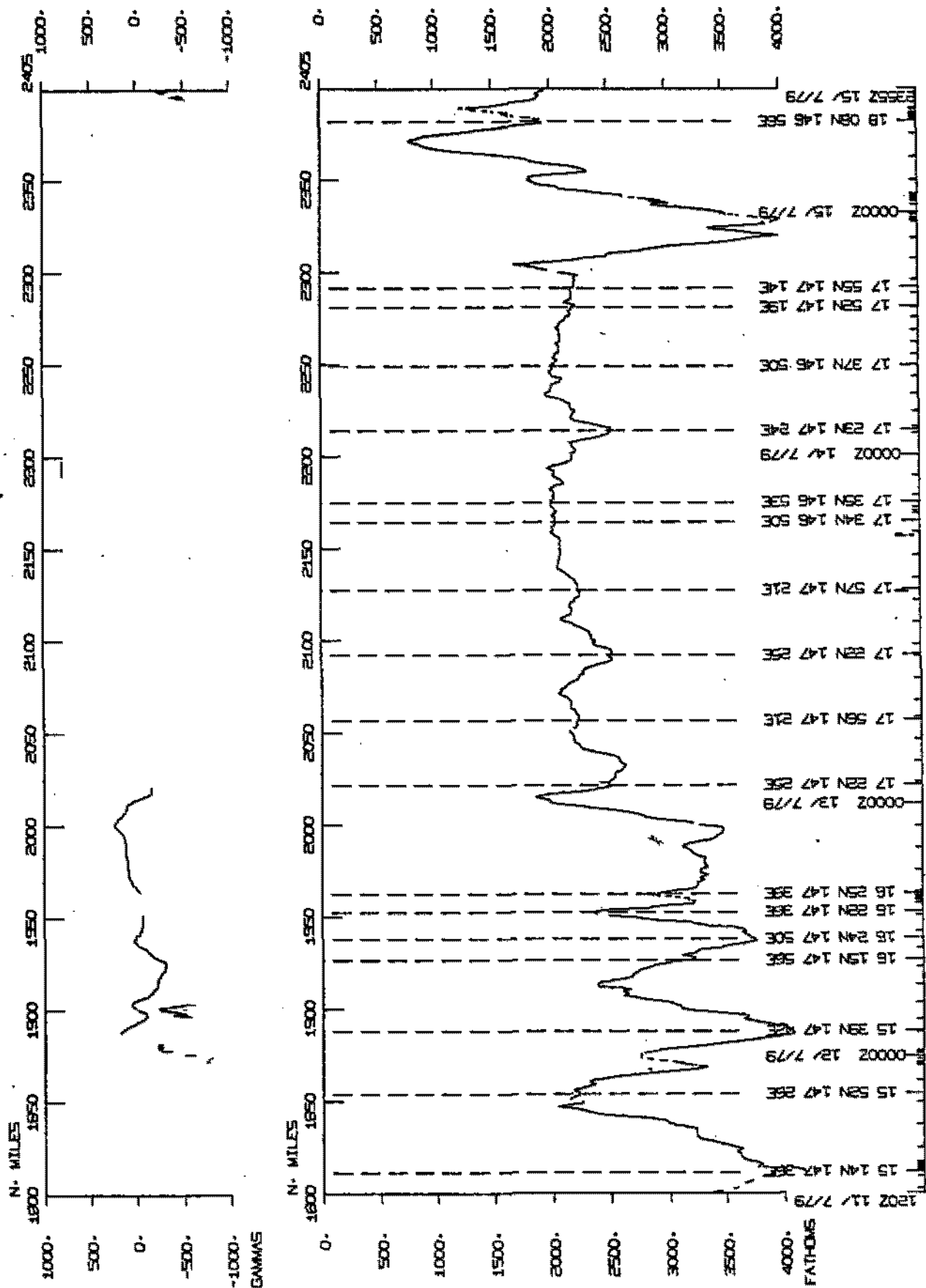
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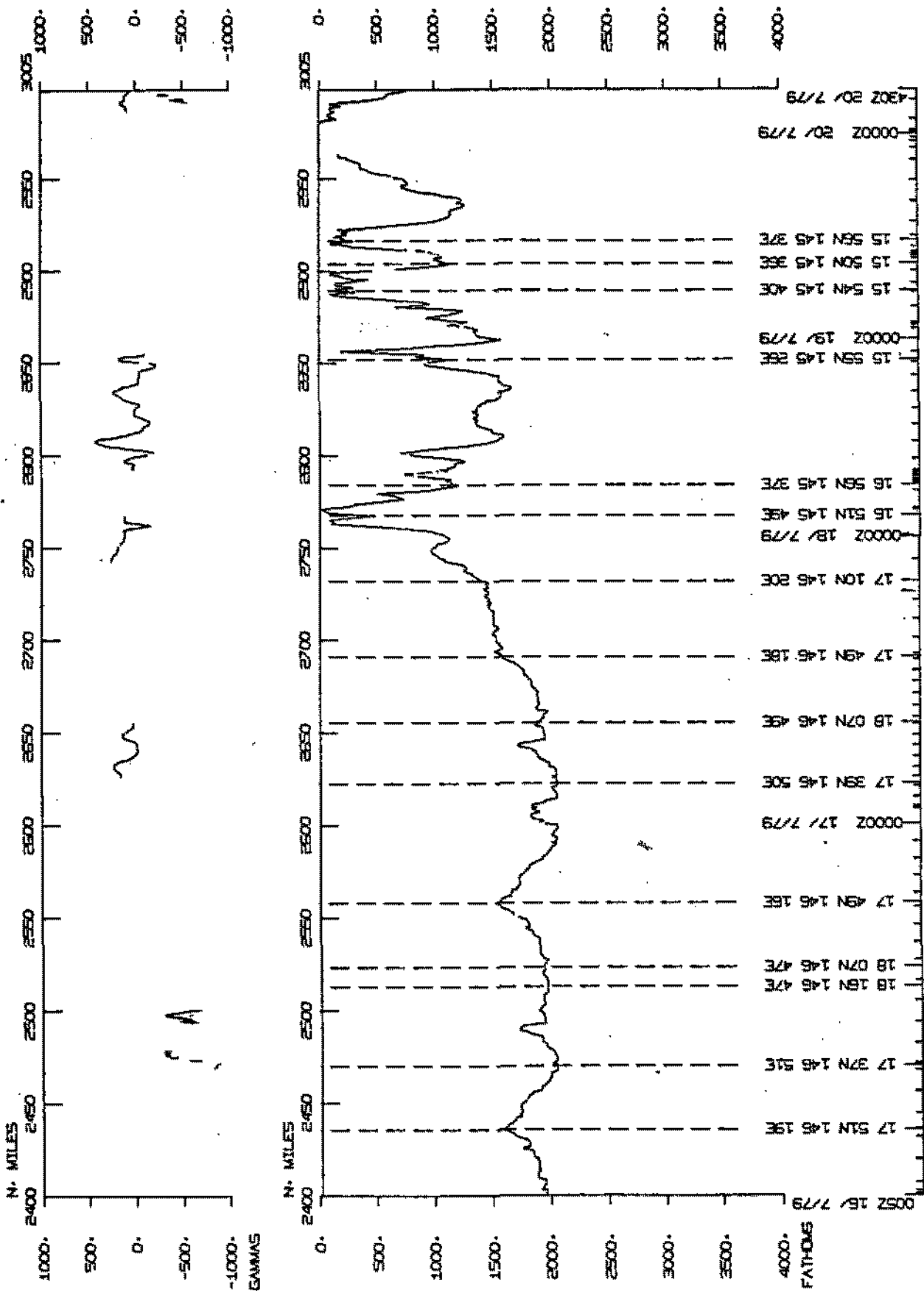
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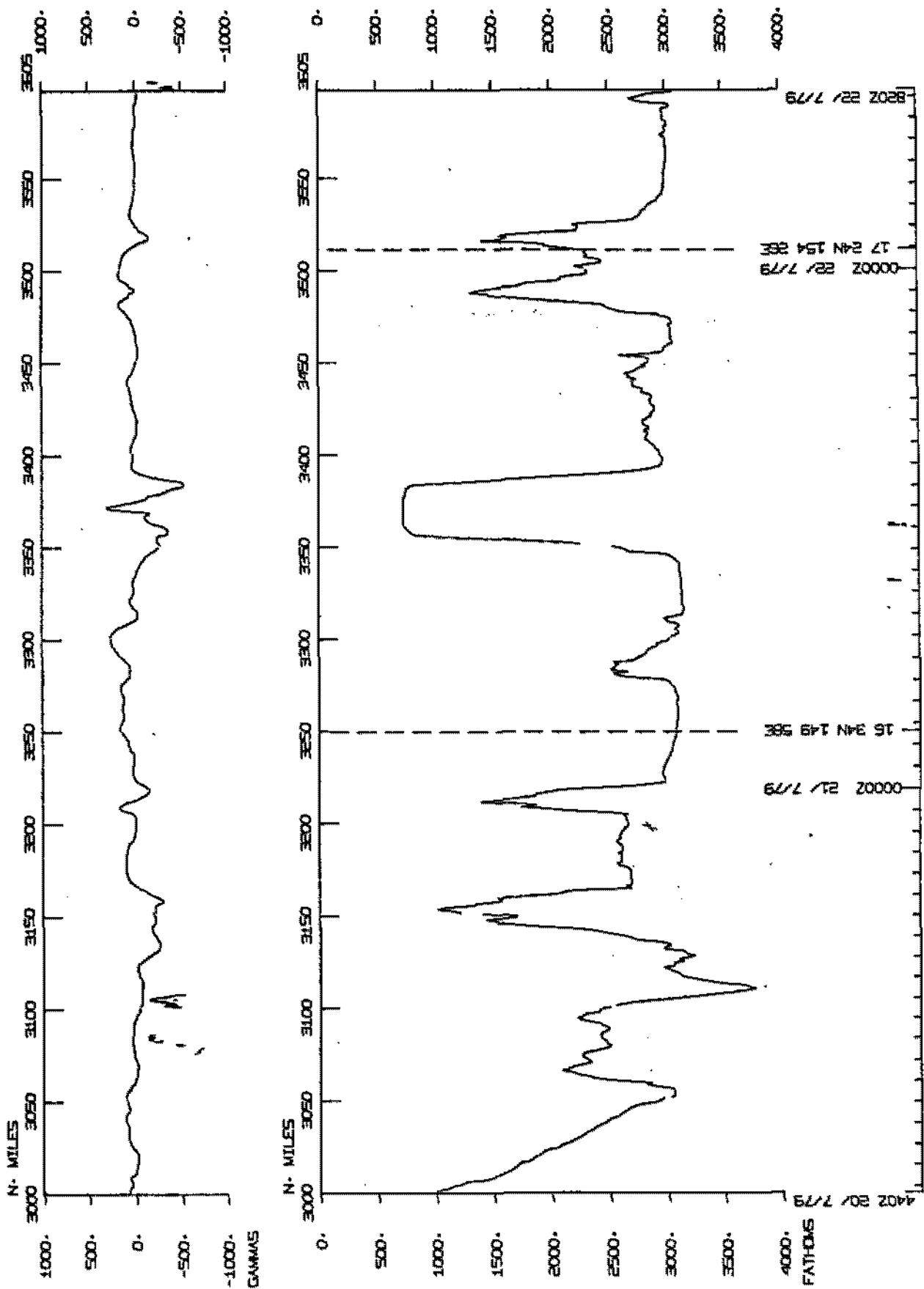
MARIANA LEG 11



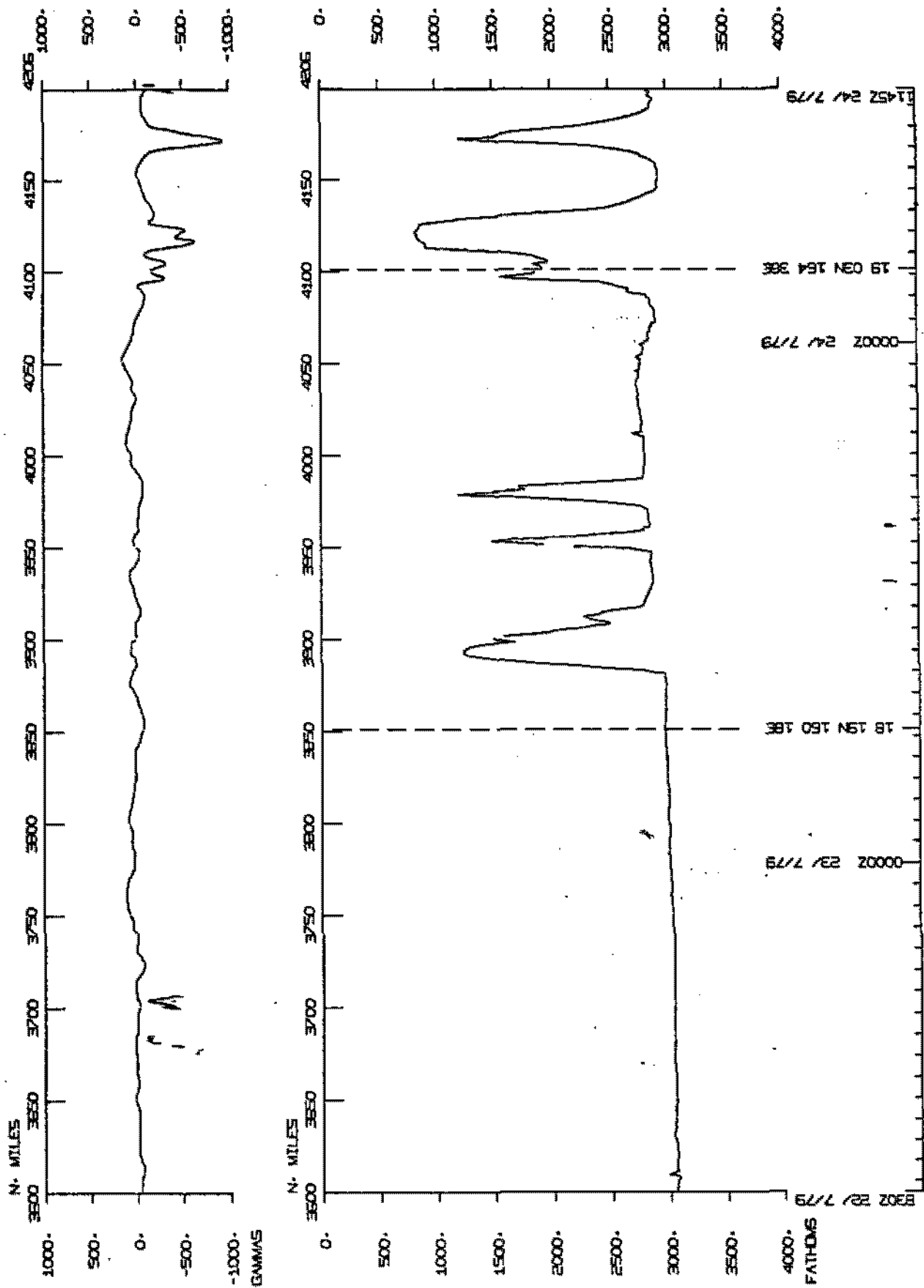
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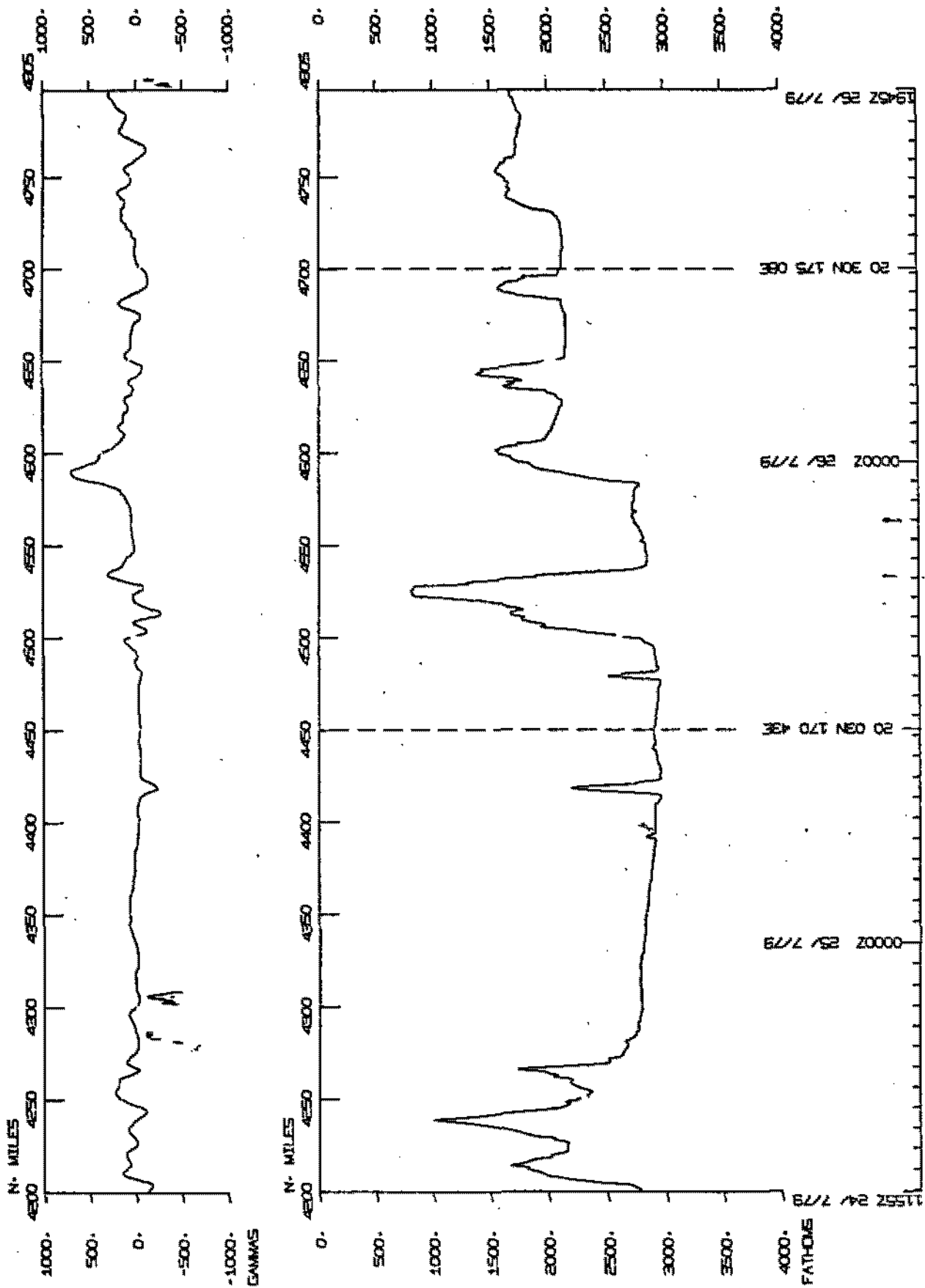
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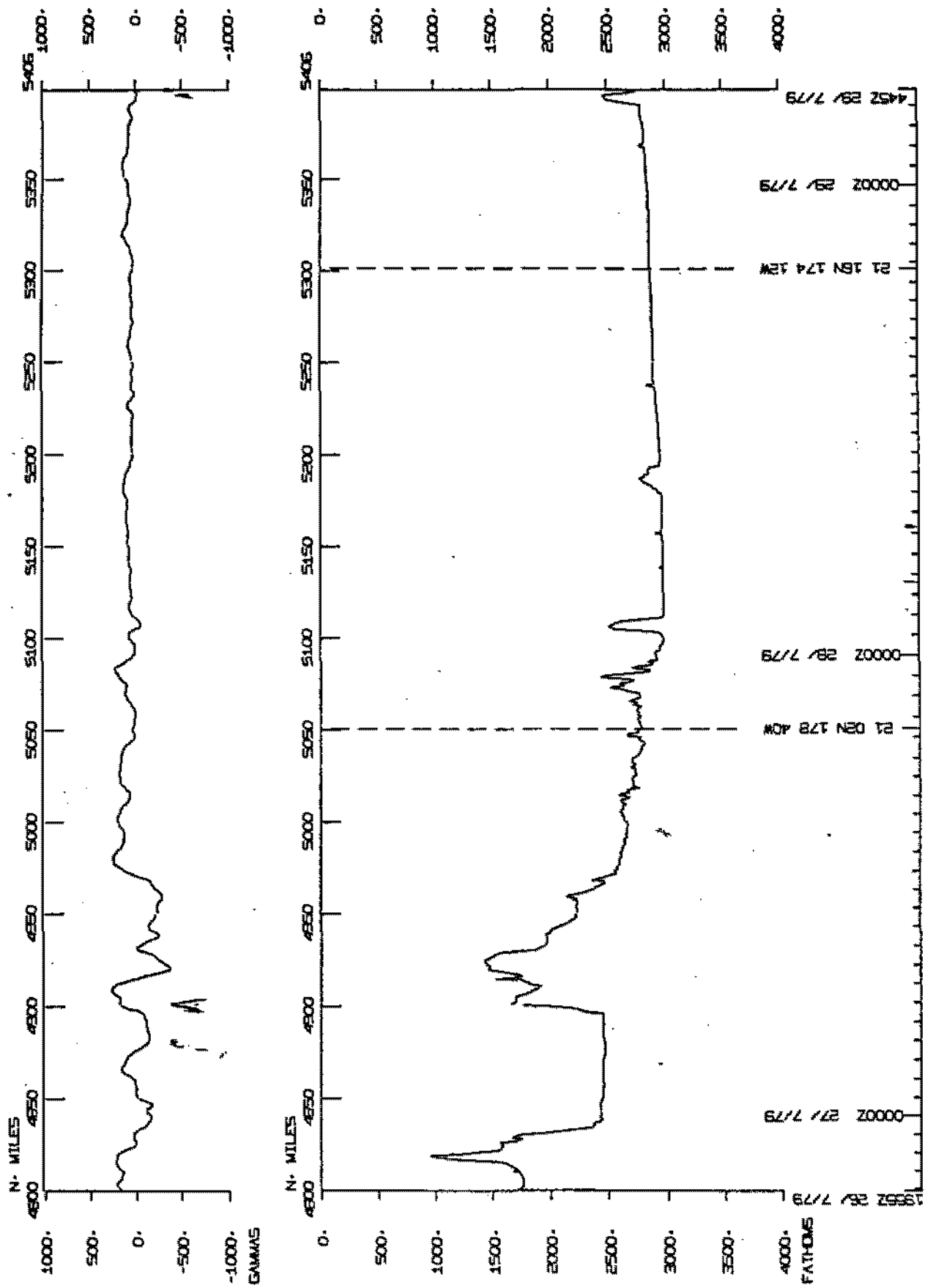
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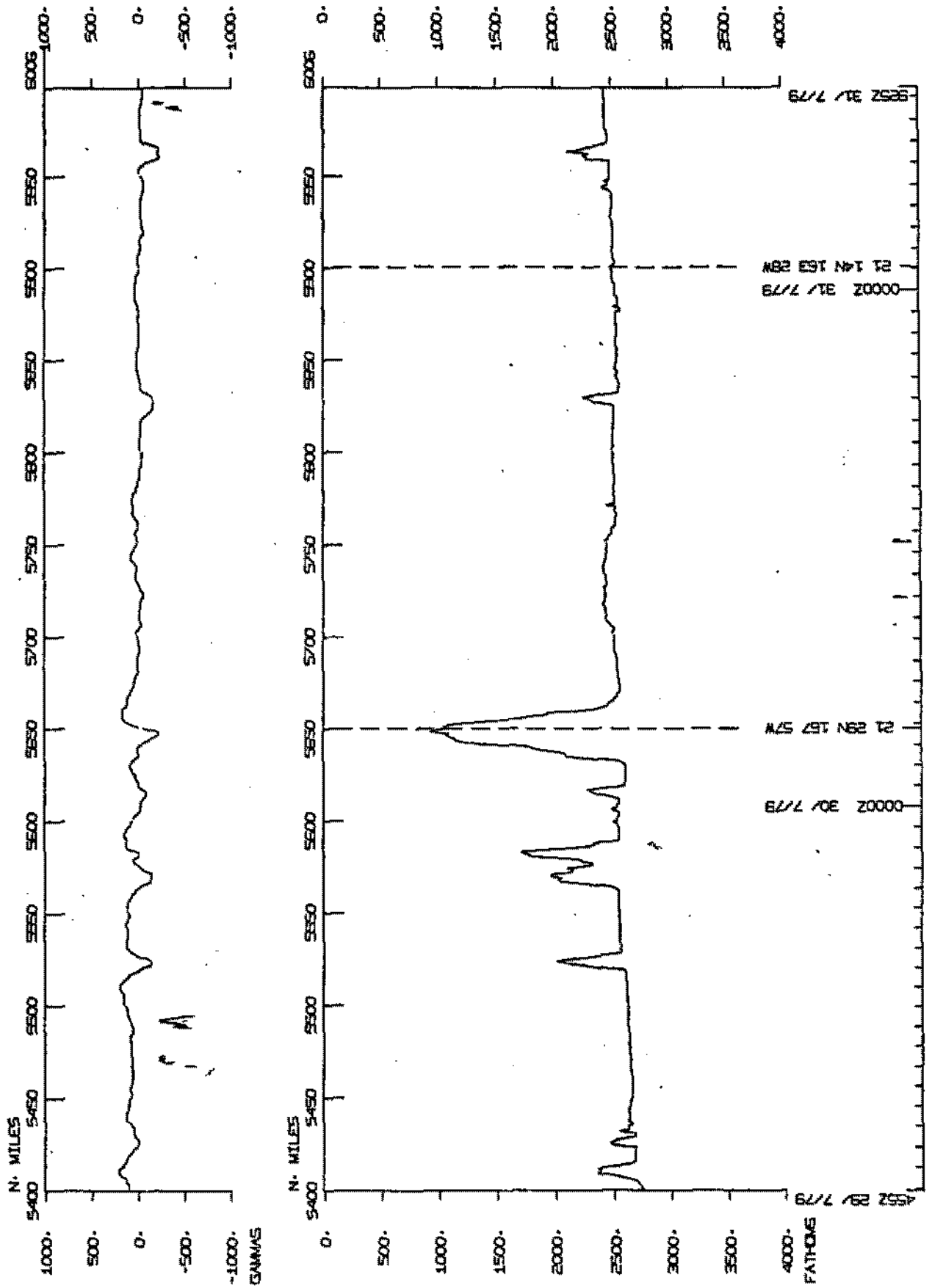
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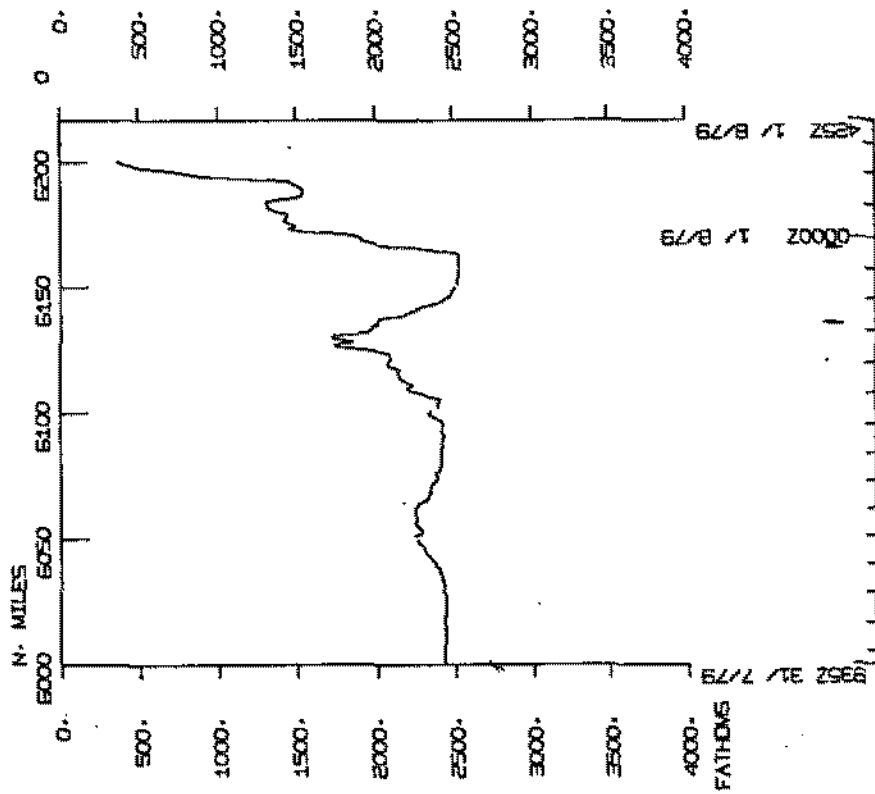
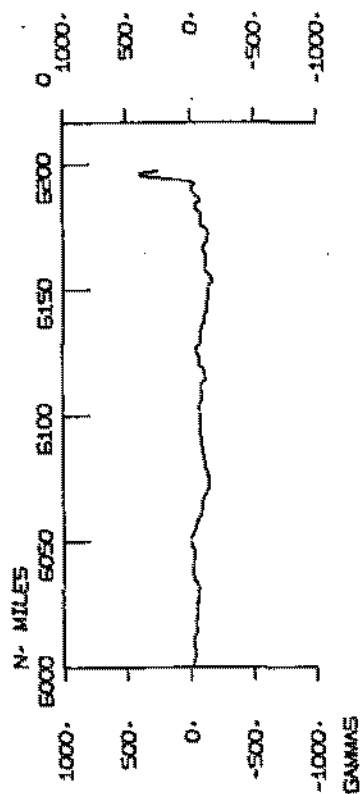
# MARIANA LEG 11



# MARIANA LEG 11



# MARIANA LEG 11



S.I.O. SAMPLE INDEX  
(Issued September 1979)

MARIANA EXPEDITION

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Subic Bay, Philippines (1 July 1979)  
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Chief Scientist - G. Shor (SIO)

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

Index Encoding Funded by NSF  
Grant Number OCE77-23704

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.)

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GENERATED 17SEP79

(MARALWT) \*\*\*

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	
	BT	DP	DR	GD	LB	MG	PE	SP	SR	TG		
GCR	1		13								1	13
GDC	1	23			1	2		2			1	28
MPL	1						1		71		1	72
MTG	1			1			3				1	4
NPX	1	15								22	1	37
SIO	1						12				1	12
SIX	1						1				1	1
TOTAL	1	15	23	13	1	1	2	17	2	71	22	167

SAMPLE 'TYPE' CODES USED ABOVE

BT = BATHYTHERMOGRAPH  
 DP = DEPTH  
 DR = DREDGE  
 GD = GEOLOGICAL SAMPLE  
 LB = LOG BOOKS  
 MG = MAGNETICS (TOWED VEHICLE, SURFACE, TOTAL FIELD)  
 PE = PERSONNEL IN SCIENTIFIC PARTY  
 SP = SEISMIC REFLECTION PROFILE AIRGUN  
 SR = SEISMIC STATION - SHOOTING RUN  
 TG = THERMOGRAPH

SAMPLE 'DISP' CODES USED ABOVE

GCR = GEOLOGICAL CURATING FACILITY -- W. RIEDEL, (EXT. 4386)  
 GDC = GEOLOGICAL DATA CENTER -- S. SMITH (EXT. 2752)  
 MPL = MARINE PHYSICAL LAB. (EXT. 2305)  
 MTG = MARINE TECHNOLOGY GROUP (EXT. 4194)  
 NPX = NORTH PACIFIC EXPERIMENT (EXT. 3226)  
 SIO = SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA, CAL. 92093  
 SIX = SCRIPPS INSTITUTION NON-EMPLOYEE (CONTACT DORCAS UTTER EXT. 2356)

17SEP79 PAGE 1

GAT TIME	D / M / Y DATE	LOC TIME T2	LOC T2	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
/ /	000				MAKA 11 SAMPLE INDEX		00 00.	00 00.	MARALLWT

\*\*\* PUKTS \*\*\*

2253	1/ 7/79				LGPT B SUBIC BAY, PHIL.		14 45. N	120 11. E	F MARALLWT
0400	1/ 8/79				LGPT E HONOLULU, HAWAII		21 18. N	157 52. W	F MARALLWT

2230	7/ 7/79				LGSS B APKA HARBOR, GUAM		13 27. N	144 37. E	F MARALLWT
0930	9/ 7/79				LGSS E APKA HARBOR, GUAM		13 27. N	144 37. E	F MARALLWT

2115	19/ 7/79				LGSS B SAIPAN, MARIANA IS.		15 10.0N	145 45. E	F MARALLWT
0220	20/ 7/79				LGSS E SAIPAN, MARIANA IS.		15 10.0N	145 45. E	F MARALLWT

\*\*\*PERSONNEL\*\*\*

\*\*\* NAME \*\*\*

\*\*\* TITLE \*\*\*

\*\*\* AFFILIATION \*\*\*

1. SHOK, G.	ASSOC DIR	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
2 HAWKINS, J.	PROFESSOR	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
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6 BENSON, M.	ASST DVLMT ENGR	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
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9 DIXON, T.	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
10 EVANS, C.	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
11 KIMMER, G.	ASST EDITOR	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
12 KIECKHEFER, K.	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
13 NIEVE, F.	OBSERVER	SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT DORCAS UTTER - EXT. 23-
14 OLTMAN, J.	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
15 POKEDA, K.	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
16 SHELINE, H.	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
17 SHOK, R.	SR WRITER	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093

\*\*\*NOTES\*\*\* AN 'X' IN THE (R)IGIN/(F)IND 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.

(HOOKED 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	LOC LOC	CODE	SAMPLE IDENT.	COND	LAT.	LONG.	LEG-SHIP
TIME DATE	TIME TZ	-SAMP		DISP			CRUISE

## UNDERWAY DATA CURATOR - STUART M. SMITH (EXT. 2752)

\*\*\* 106 BOOKS \*\*\*

2253	1/ 7/79		LRUW B UNDERWAY WATCH LOG	GDC 14	22.5N	120 19.9E	S MARALLWT
0230	1/ 8/79		LRUW E UNDERWAY WATCH LOG	GDC 21	15.8N	158 06.6W	S MARALLWT

\*\*\* FATHOGRAMS \*\*\*

1545	2/ 7/79		DPRT B GDR 12 KHZ R-01	GDC 12	51.2N	122 50.2E	S MARALLWT
0706	4/ 7/79		DPRT E GDR 12 KHZ R-01	GDC 12	59.6N	130 28.2E	S MARALLWT
0713	4/ 7/79		DPRT B GDR 12 KHZ R-02	GDC 12	59.6N	130 29.2E	S MARALLWT
0640	6/ 7/79		DPRT E GDR 12 KHZ R-02	GDC 12	25.9N	138 32.9E	S MARALLWT
0644	6/ 7/79		DPRT B GDR 12 KHZ R-03	GDC 12	26.0N	138 33.6E	S MARALLWT
1446	7/ 7/79		DPRT E GDR 12 KHZ R-03	GDC 13	21.7N	143 54.1E	S MARALLWT
0931	9/ 7/79		DPRT B GDR 12 KHZ R-04	GDC 13	34.5N	146 38.8E	S MARALLWT
1240	11/ 7/79		DPRT E GDR 12 KHZ R-04	GDC 15	19.9N	147 32.6E	S MARALLWT
1244	11/ 7/79		DPRT B GDR 12 KHZ R-05	GDC 15	20.7N	147 32.5E	S MARALLWT
2132	13/ 7/79		DPRT E GDR 12 KHZ R-05	GDC 17	37.1N	146 50.8E	S MARALLWT
2155	13/ 7/79		DPRT B GDR 12 KHZ R-06	GDC 17	37.2N	146 50.8E	S MARALLWT
0117	17/ 7/79		DPRT E GDR 12 KHZ R-06	GDC 17	25.7N	146 52.6E	S MARALLWT
0124	17/ 7/79		DPRT B GDR 12 KHZ R-07	GDC 17	25.8N	146 52.6E	S MARALLWT
2010	19/ 7/79		DPRT E GDR 12 KHZ R-07	GDC 15	16.1N	145 40.9E	S MARALLWT
0232	20/ 7/79		DPRT B GDR 12 KHZ R-08	GDC 15	13.3N	146 42.7E	S MARALLWT
2140	22/ 7/79		DPRT E GDR 12 KHZ R-08	GDC 16	02.9N	158 34.3E	S MARALLWT
2146	22/ 7/79		DPRT B GDR 12 KHZ R-09	GDC 18	03.0N	158 35.5E	S MARALLWT
0819	25/ 7/79		DPRT E GDR 12 KHZ R-09	GDC 20	00.8N	170 20.2E	S MARALLWT
0852	25/ 7/79		DPRT B GDR 12 KHZ R-10	GDC 20	01.6N	170 26.6E	S MARALLWT
0212	28/ 7/79		DPRT E GDR 12 KHZ R-10	GDC 21	06.8N	177 31.6W	S MARALLWT
0228	28/ 7/79		DPRT B GDR 12 KHZ R-11	GDC 21	07.0N	177 28.4W	S MARALLWT
0340	31/ 7/79		DPRT E GDR 12 KHZ R-11	GDC 21	15.2N	162 57.2W	S MARALLWT
1415	31/ 7/79		DPRT B GDR 12 KHZ R-12	GDC 21	16.3N	160 44.7W	S MARALLWT
0230	1/ 8/79		DPRT E GDR 12 KHZ R-12	GDC 21	15.8N	158 06.6W	S MARALLWT
1536	2/ 7/79		DPK3 B UGR 3.5KHZ R-01	GDC 12	51.8N	122 48.4E	S MARALLWT
2220	2/ 7/79		DPK3 E UGR 3.5KHZ R-01	GDC 12	29.7N	124 05.7E	S MARALLWT

GMT TIME	D / M / Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
2237 2153	2 / 7/79 5 / 7/79			DPR3 H DPR3 F	UGK 3.5KHZ R-02 UGK 3.5KHZ R-02	GDC 12 GDC 12	32.4N 06.7N	124 08.0E 136 57.4E	S MARALLWT S MARALLWT
2213 1611	5 / 7/79 10 / 7/79			DPR3 B DPR3 E	UGK 3.5KHZ R-03 UGK 3.5KHZ R-03	GDC 12 GDC 15	07.6N 20.5N	137 01.5E 147 28.8E	S MARALLWT S MARALLWT
1630 1144	10 / 7/79 13 / 7/79			DPR3 B DPR3 E	UGK 3.5KHZ R-04 UGK 3.5KHZ R-04	GDC 15 GDC 17	20.7N 26.7N	147 28.7E 147 23.8E	S MARALLWT S MARALLWT
1155 0024	13 / 7/79 16 / 7/79			DPR3 B DPR3 E	UGK 3.5KHZ R-05 UGK 3.5KHZ R-05	GDC 17 GDC 18	27.2N 09.4N	147 23.5E 146 50.0E	S MARALLWT S MARALLWT
0045 1157	16 / 7/79 18 / 7/79			DPR3 B DPR3 E	UGK 3.5KHZ R-06 UGK 3.5KHZ R-06	GDC 18 GDC 16	09.0N 54.3N	146 50.1E 145 39.9E	S MARALLWT S MARALLWT
1215 1915	18 / 7/79 21 / 7/79			DPR3 B DPR3 E	UGK 3.5KHZ R-07 UGK 3.5KHZ R-07	GDC 16 GDC 17	54.2N 10.8N	148 39.6E 153 18.5E	S MARALLWT S MARALLWT
2044 1927	21 / 7/79 24 / 7/79			DPR3 B DPR3 E	UGK 3.5KHZ R-08 UGK 3.5KHZ R-08	GDC 17 GDC 19	15.0N 34.3N	153 36.3E 167 49.1E	S MARALLWT S MARALLWT
1940 1427	24 / 7/79 27 / 7/79			DPR3 B DPR3 E	UGK 3.5KHZ R-09 UGK 3.5KHZ R-09	GDC 19 GDC 20	34.6N 54.7N	167 51.5E 179 46.7W	S MARALLWT S MARALLWT
1447 0831	27 / 7/79 30 / 7/79			DPR3 B DPR3 F	UGK 3.5KHZ R-10 UGK 3.5KHZ R-10	GDC 20 GDC 21	55.2N 30.6N	179 43.0W 166 58.4W	S MARALLWT S MARALLWT
0847 0230	30 / 7/79 1 / 8/79			DPR3 B DPR3 E	UGK 3.5KHZ R-11 UGK 3.5KHZ R-11	GDC 21 GDC 21	30.7N 15.6N	166 55.1W 158 06.6W	S MARALLWT S MARALLWT

\*\*\* MAGNETOMETER \*\*\*

0153 0150	3 / 7/79 22 / 7/79			MGR B MGR E	MAGNETICS R-01 MAGNETICS R-01	GDC 12 GDC 17	42.1N 25.7N	124 45.0E 154 37.8E	S MARALLWT S MARALLWT
0158 0216	22 / 7/79 1 / 8/79			MGR B MGR E	MAGNETICS R-02 MAGNETICS R-02	GDC 17 GDC 21	25.9N 15.9N	154 39.4E 158 09.0W	S MARALLWT S MARALLWT

\*\*\* SEISMIC REFLECTION PROFILES \*\*\*

0414 2240	12 / 7/79 16 / 7/79			SPRS B SPRS E	10 SEC SWEEP 10 SEC SWEEP	GDC 15 GDC 15	39.5N 57.0N	147 41.5E 145 27.1E	S MARALLWT S MARALLWT
0414 2240	12 / 7/79 16 / 7/79			SPRF B SPRF E	5 SEC SWEEP 5 SEC SWEEP	GDC 15 GDC 15	39.5N 57.0N	147 41.5E 145 27.1E	S MARALLWT S MARALLWT

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

\*\*\* SEISMIC REFRACTION STATION \*\*\*

1118 13/ 7/79			SRKK B STA 1-1	MPL 17 23.5N	147 24.6E	S	MARALLWT
1412 13/ 7/79			SRKK E STA 1-1	MPL 17 54.5N	147 21.8E	S	MARALLWT
1435 13/ 7/79			SRKK B STA 1-2	MPL 17 56.5N	147 20.2E	S	MARALLWT
1721 13/ 7/79			SRKK E STA 1-2	MPL 17 35.7N	146 51.2E	S	MARALLWT
1955 13/ 7/79			SRKK B STA 1-3	MPL 17 36.9N	146 51.6E	S	MARALLWT
0051 14/ 7/79			SRKK E STA 1-3	MPL 17 25.0N	147 21.4E	S	MARALLWT
1111 16/ 7/79			SRKK B STA 2-1	MPL 17 37.9N	146 51.9E	S	MARALLWT
1435 16/ 7/79			SRKK E STA 2-1	MPL 18 16.7N	146 48.0E	S	MARALLWT
1547 16/ 7/79			SRKK B STA 2-2	MPL 18 06.9N	146 46.0E	S	MARALLWT
1910 16/ 7/79			SRKK E STA 2-2	MPL 17 49.8N	146 17.2E	S	MARALLWT
1938 16/ 7/79			SRKK B STA 2-3	MPL 17 50.2N	146 18.6E	S	MARALLWT
2250 16/ 7/79			SRKK E STA 2-3	MPL 17 39.5N	146 47.6E	S	MARALLWT
2345 16/ 7/79			SRKK B STA 2-4	MPL 17 33.0N	146 51.5E	S	MARALLWT
0037 17/ 7/79			SRKK E STA 2-4	MPL 17 24.8N	146 52.4E	S	MARALLWT
1820 17/ 7/79			SRAR B STA 2-5	MPL 17 48.1N	146 18.4E	S	MARALLWT
2148 17/ 7/79			SRAR E STA 2-5	MPL 17 12.2N	146 21.2E	S	MARALLWT
0029 21/ 7/79			SRAR B STA 3	MPL 16 27.8N	149 33.0E	S	MARALLWT
0144 21/ 7/79			SRAR E STA 3	MPL 16 32.4N	149 47.6E	S	MARALLWT
0822 21/ 7/79			SRAR B STA 4	MPL 16 44.6N	151 08.7E	S	MARALLWT
0935 21/ 7/79			SRAR E STA 4	MPL 16 46.9N	151 23.5E	S	MARALLWT
0935 22/ 7/79			SRAR B STA 5	MPL 17 27.5N	154 59.0E	S	MARALLWT
0443 22/ 7/79			SRAR E STA 5	MPL 17 28.6N	155 12.8E	S	MARALLWT
0552 22/ 7/79			SRKK B STA 6	MPL 17 31.1N	155 26.8E	S	MARALLWT
0701 22/ 7/79			SRKK E STA 6	MPL 17 33.8N	155 40.7E	S	MARALLWT
2271 23/ 7/79			SRKK B STA 7	MPL 18 03.7N	158 42.7E	S	MARALLWT
0015 23/ 7/79			SRKK E STA 7	MPL 18 05.7N	159 06.1E	S	MARALLWT
0307 23/ 7/79			SRKK B STA 8	MPL 18 11.8N	159 39.9E	S	MARALLWT
0413 23/ 7/79			SRKK E STA 8	MPL 18 14.4N	159 53.0E	S	MARALLWT
0706 23/ 7/79			SRKK B STA 9	MPL 18 21.9N	160 27.2E	S	MARALLWT
0842 23/ 7/79			SRKK E STA 9	MPL 18 26.3N	160 46.6E	S	MARALLWT

\*\*\* OCEAN BOTTOM SEISMOMETER \*\*\*

0414 12/ 7/79	SRIB	SOMUBUDY 1	MPL 15 39.5N	147 41.5E	S	MARALLWT
1310 13/ 7/79	SRIB	SOMUBUDY 2	MPL 17 42.2N	147 22.6E	S	MARALLWT

GMT D / M / Y	LOC	LOC	CODE	SAMPLE IDENT.	CODE	LAT.	LONG.	LEG-SHIP
TIME DATE	TIME	T2	SAMP		DISP			CRUISE
2257 13/ 7/79			SR0B	S0N0B00Y 3	MPL	17 33.6N	147 00.0E	S MARALLWT
0148 14/ 7/79			SR0B	S0N0B00Y 4	MPL	17 23.5N	147 23.4E	S MARALLWT
0247 14/ 7/79			SR0B	S0N0B00Y 5	MPL	17 26.9N	147 16.7E	S MARALLWT
0618 14/ 7/79			SR0B	S0N0B00Y 6	MPL	17 37.8N	146 52.1E	S MARALLWT
0754 14/ 7/79			SR0B	S0N0B00Y 7	MPL	17 43.1N	147 01.5E	S MARALLWT
1530 16/ 7/79			SR0B	S0N0B00Y 8	MPL	18 08.0N	146 47.5E	S MARALLWT
1109 16/ 7/79			SR0B	S0N0B00Y 8A	MPL	17 37.6N	146 52.0E	S MARALLWT
1726 16/ 7/79			SR0B	S0N0B00Y 9	MPL	17 58.4N	146 31.7E	S MARALLWT
2020 16/ 7/79			SR0B	S0N0B00Y 10	MPL	17 47.2N	146 24.8E	S MARALLWT
0318 17/ 7/79			SR0B	S0N0B00Y 11	MPL	17 28.1N	146 52.7E	S MARALLWT
0617 17/ 7/79			SR0B	S0N0B00Y 12	MPL	17 38.8N	146 49.9E	S MARALLWT
0627 17/ 7/79			SR0B	S0N0B00Y 13	MPL	17 51.6N	146 48.3E	S MARALLWT
1016 17/ 7/79			SR0B	S0N0B00Y 14	MPL	18 01.8N	146 48.8E	S MARALLWT
1219 17/ 7/79			SR0B	S0N0B00Y 15	MPL	18 06.5N	146 45.8E	S MARALLWT
1225 17/ 7/79			SR0B	S0N0B00Y 16	MPL	18 06.1N	146 45.1E	S MARALLWT
1320 17/ 7/79			SR0B	S0N0B00Y 17	MPL	18 02.7N	146 39.9E	S MARALLWT
1806 17/ 7/79			SR0B	S0N0B00Y 18	MPL	17 50.3N	146 18.2E	S MARALLWT
1935 17/ 7/79			SR0B	S0N0B00Y 19	MPL	17 35.0N	146 19.0E	S MARALLWT
1947 17/ 7/79			SR0B	S0N0B00Y 20	MPL	17 32.9N	146 19.1E	S MARALLWT
2010 17/ 7/79			SR0B	S0N0B00Y 21	MPL	17 28.9N	146 19.3E	S MARALLWT
2012 18/ 7/79			SR0B	S0N0B00Y 22	MPL	16 10.7N	145 28.8E	S MARALLWT
0020 21/ 7/79			SR0B	S0N0B00Y 23	MPL	16 27.2N	149 31.2E	S MARALLWT
0021 21/ 7/79			SR0B	S0N0B00Y 24	MPL	16 27.2N	149 31.4E	S MARALLWT
0022 21/ 7/79			SR0B	S0N0B00Y 25	MPL	16 27.3N	149 31.6E	S MARALLWT
0024 21/ 7/79			SR0B	S0N0B00Y 26	MPL	16 27.4N	149 32.0E	S MARALLWT
0805 21/ 7/79			SR0B	S0N0B00Y 27	MPL	16 44.1N	151 05.2E	S MARALLWT
0807 21/ 7/79			SR0B	S0N0B00Y 28	MPL	16 44.2N	151 05.6E	S MARALLWT
0808 21/ 7/79			SR0B	S0N0B00Y 29	MPL	16 44.2N	151 05.8E	S MARALLWT
0813 21/ 7/79			SR0B	S0N0B00Y 30	MPL	16 44.3N	151 06.9E	S MARALLWT
0320 22/ 7/79			SR0B	S0N0B00Y 31	MPL	17 27.3N	154 55.9E	S MARALLWT
0321 22/ 7/79			SR0B	S0N0B00Y 32	MPL	17 27.3N	154 56.1E	S MARALLWT
0322 22/ 7/79			SR0B	S0N0B00Y 33	MPL	17 27.3N	154 56.3E	S MARALLWT
0537 22/ 7/79			SR0B	S0N0B00Y 34	MPL	17 30.5N	155 23.8E	S MARALLWT
0538 22/ 7/79			SR0B	S0N0B00Y 35	MPL	17 30.5N	155 24.0E	S MARALLWT
0539 22/ 7/79			SR0B	S0N0B00Y 36	MPL	17 30.6N	155 24.2E	S MARALLWT
0545 22/ 7/79			SR0B	S0N0B00Y 37	MPL	17 30.8N	155 25.4E	S MARALLWT
2206 22/ 7/79			SR0B	S0N0B00Y 38	MPL	18 03.4N	158 39.6E	S MARALLWT
2208 22/ 7/79			SR0B	S0N0B00Y 39	MPL	18 03.4N	158 40.0E	S MARALLWT
2209 22/ 7/79			SR0B	S0N0B00Y 40	MPL	18 03.5N	158 40.2E	S MARALLWT
2252 22/ 7/79			SR0B	S0N0B00Y 41	MPL	18 04.2N	158 49.1E	S MARALLWT
0252 23/ 7/79			SR0B	S0N0B00Y 42	MPL	18 11.2N	159 36.9E	S MARALLWT
0253 23/ 7/79			SR0B	S0N0B00Y 43	MPL	18 11.3N	159 37.1E	S MARALLWT
0254 23/ 7/79			SR0B	S0N0B00Y 44	MPL	18 11.3N	159 37.3E	S MARALLWT
0653 23/ 7/79			SR0B	S0N0B00Y 45	MPL	18 21.2N	160 24.6E	S MARALLWT
0654 23/ 7/79			SR0B	S0N0B00Y 46	MPL	18 21.3N	160 24.8E	S MARALLWT
0721 23/ 7/79			SR0B	S0N0B00Y 47	MPL	18 22.6N	160 30.2E	S MARALLWT

\*\*\* S0N0B00Y DR0P \*\*\* SEISMIC REFRACTION MONITORING

0244 13/ 7/79	SR0B B CASHIF	4614	MPL 17 23.0N	147 26.6E	S MARALLWT
1000 13/ 7/79	SR0B E CASHIF	4614	MPL 17 23.7N	147 24.9E	S MARALLWT

GMT D / M / Y		LTC LOC	CODE	SAMPLE IDENT.	CODE	17SEP79		PAGE	6	LEG-SHIP
TIME	DATE	TIME TZ	SAMP		DISP	LAT.	LONG.			CRUISE
0706	13/ 7/79		SRSB B JO	4168	MPL 17	56.0N	147 19.9E	S	MARALLWT	
1230	14/ 7/79		SRSB E JO	4168	MPL 17	55.1N	147 14.2E	S	MARALLWT	
1036	13/ 7/79		SRSB B REGINA	4713	MPL 17	22.6N	147 25.0E	S	MARALLWT	
0116	14/ 7/79		SRSB E REGINA	4713	MPL 17	23.1N	147 24.0E	S	MARALLWT	
1919	13/ 7/79		SPSB B CASHIF	3808	MPL 17	37.3N	146 50.9E	S	MARALLWT	
2035	13/ 7/79		SPSB E CASHIF	3808	MPL 17	37.1N	146 50.8E	S	MARALLWT	
2152	13/ 7/79		SRSB B CASHIF	3796	MPL 17	37.2N	146 50.8E	S	MARALLWT	
0550	14/ 7/79		SRSB E CASHIF	3796	MPL 17	37.2N	146 50.7E	S	MARALLWT	
0226	16/ 7/79		SRSB B REGINA	3671	MPL 18	07.9N	146 49.4E	S	MARALLWT	
1140	17/ 7/79		SRSB E REGINA	3671	MPL 18	07.8N	146 48.1E	S	MARALLWT	
0615	16/ 7/79		SRSB B JO	3001	MPL 17	51.1N	146 19.4E	S	MARALLWT	
1744	17/ 7/79		SRSB E JO	3001	MPL 17	50.5N	146 18.1E	S	MARALLWT	
1023	16/ 7/79		SPSB B CASHIF	3779	MPL 17	37.0N	146 51.8E	S	MARALLWT	
0554	17/ 7/79		SRSB E CASHIF	3779	MPL 17	37.5N	146 50.1E	S	MARALLWT	

\*\*\* JIKEDGE \*\*\* CURATOR - W. RIEDEL EXT. 4386

1940	9/ 7/79		DRK B DREDGE 47	1036	GCR 14	19.8N	144 54.1E	S	MARALLWT	
2116	9/ 7/79		DRK E DREDGE 47	760	GCR 14	19.6N	144 52.4E	S	MARALLWT	
1559	10/ 7/79		DRK B DREDGE 48	6424	GCR 15	20.5N	147 28.7E	S	MARALLWT	
2216	10/ 7/79		DRK E DREDGE 48	5681	GCR 15	20.4N	147 25.3E	S	MARALLWT	
0616	11/ 7/79		DRK B DREDGE 49	8189	GCR 15	15.4N	147 35.7E	S	MARALLWT	
0913	11/ 7/79		DRK E DREDGE 49	7213	GCR 15	16.3N	147 34.5E	S	MARALLWT	
2122	11/ 7/79		DRK B DREDGE 50	5265	GCR 15	43.3N	147 35.9E	S	MARALLWT	
0056	12/ 7/79		DRK E DREDGE 50	5157	GCR 15	48.0N	147 34.8E	S	MARALLWT	
1422	12/ 7/79		DRK B DREDGE 51	6021	GCR 16	24.5N	147 40.7E	S	MARALLWT	
1737	12/ 7/79		DRK E DREDGE 51	5399	GCR 16	25.6N	147 39.5E	S	MARALLWT	
1831	14/ 7/79		DRK B DREDGE 52	7532	GCR 17	56.1N	147 45.1E	S	MARALLWT	
2252	14/ 7/79		DRK E DREDGE 52	7688	GCR 17	55.1N	147 41.2E	S	MARALLWT	
0428	15/ 7/79		DRK B DREDGE 53	5584	GCR 17	56.2N	147 37.5E	S	MARALLWT	
0716	15/ 7/79		DRK E DREDGE 53	4909	GCR 17	57.0N	147 35.3E	S	MARALLWT	
1407	15/ 7/79		DRK B DREDGE 54	3587	GCR 18	08.0N	146 56.7E	S	MARALLWT	
1653	15/ 7/79		DRK E DREDGE 54	3060	GCR 18	07.4N	146 59.2E	S	MARALLWT	
1932	15/ 7/79		DRK B DREDGE 55	3003	GCR 18	06.6N	146 59.1E	S	MARALLWT	
2211	15/ 7/79		DRK E DREDGE 55	1296	GCR 18	05.9N	147 01.0E	S	MARALLWT	
0525	18/ 7/79		DRK B DREDGE 56	2218	GCR 16	56.1N	145 37.4E	S	MARALLWT	
0607	18/ 7/79		DRK E DREDGE 56	2140	GCR 16	55.5N	145 38.6E	S	MARALLWT	

GMT D / M / Y TIME DATE	LOC LOC TIME TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
1034 18/ 7/79		DPR	B DREDGE 57	1690	GCR	16 54.8N	145 39.8E S MARALLWT
1248 18/ 7/79		DRR	E DREDGE 57	1638	GCR	16 54.4N	145 39.5E S MARALLWT
0150 19/ 7/79		DPR	B DREDGE 58	2519	GCR	16 01.2N	145 23.1E S MARALLWT
0355 19/ 7/79		DPR	F DREDGE 58	2158	GCR	16 00.6N	145 24.2E S MARALLWT
1118 19/ 7/79		DRR	B DREDGE 59	2016	GCR	15 51.1N	145 35.5E S MARALLWT
1341 19/ 7/79		DRR	E DREDGE 59	1805	GCR	15 51.6N	145 36.7E S MARALLWT
*** THERMOGRAPH ***							
0220 2/ 7/79		TGR	B THERMOGRAPH	1	NPX	14 06.1N	120 27.0E S MARALLWT
1304 3/ 7/79		TGR	F THERMOGRAPH	1	NPX	12 47.7N	125 00.1E S MARALLWT
0305 3/ 7/79		TGR	B THERMOGRAPH	2	NPX	12 47.7N	125 00.3E S MARALLWT
0704 4/ 7/79		TGR	E THERMOGRAPH	2	NPX	12 59.5N	130 27.4E S MARALLWT
0706 4/ 7/79		TGR	B THERMOGRAPH	3	NPX	12 59.5N	130 27.8E S MARALLWT
1600 5/ 7/79		TGR	F THERMOGRAPH	3	NPX	11 03.4N	134 11.3E S MARALLWT
0604 5/ 7/79		TGR	X THERMOGRAPH	4	NPX	11 03.4N	134 11.8E S MARALLWT
0120 10/ 7/79		TGR	B THERMOGRAPH	5	NPX	14 38.7N	145 28.2E S MARALLWT
0030 12/ 7/79		TGR	F THERMOGRAPH	5	NPX	15 46.4N	147 35.0E S MARALLWT
0033 12/ 7/79		TGR	X THERMOGRAPH	6	NPX	15 46.5N	147 35.0E S MARALLWT
1945 13/ 7/79		TGR	B THERMOGRAPH	7	NPX	17 37.2N	146 50.5E S MARALLWT
2154 14/ 7/79		TGR	F THERMOGRAPH	7	NPX	17 55.3N	147 41.9E S MARALLWT
2155 14/ 7/79		TGR	B THERMOGRAPH	8	NPX	17 55.3N	147 41.9E S MARALLWT
0015 16/ 7/79		TGR	F THERMOGRAPH	8	NPX	18 09.6N	146 49.8E S MARALLWT
0018 16/ 7/79		TGR	B THERMOGRAPH	9	NPX	18 09.7N	146 49.9E S MARALLWT
2229 16/ 7/79		TGR	F THERMOGRAPH	9	NPX	17 40.6N	146 44.4E S MARALLWT
2233 16/ 7/79		TGR	B THERMOGRAPH	10	NPX	17 40.4N	146 45.1E S MARALLWT
2220 17/ 7/79		TGR	F THERMOGRAPH	10	NPX	17 08.1N	146 17.3E S MARALLWT
2223 17/ 7/79		TGR	B THERMOGRAPH	11	NPX	17 07.8N	146 16.8E S MARALLWT
2255 18/ 7/79		TGR	F THERMOGRAPH	11	NPX	15 57.1N	145 26.0E S MARALLWT
2258 18/ 7/79		TGR	B THERMOGRAPH	12	NPX	15 57.1N	145 25.7E S MARALLWT
0522 20/ 7/79		TGR	F THERMOGRAPH	12	NPX	15 11.7N	146 02.1E S MARALLWT
0524 20/ 7/79		TGR	B THERMOGRAPH	13	NPX	15 11.9N	146 02.4E S MARALLWT
2140 20/ 7/79		TGR	F THERMOGRAPH	13	NPX	16 16.3N	149 00.4E S MARALLWT
2140 20/ 7/79		TGR	B THERMOGRAPH	14	NPX	16 16.3N	149 00.4E S MARALLWT
2215 21/ 7/79		TGR	F THERMOGRAPH	14	NPX	17 18.7N	153 54.4E S MARALLWT
2216 21/ 7/79		TGR	B THERMOGRAPH	15	NPX	17 18.8N	153 55.0E S MARALLWT
2250 22/ 7/79		TGR	F THERMOGRAPH	15	NPX	18 04.2N	158 48.6E S MARALLWT



GMT TIME	D / M / Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
2052	22/ 7/79			TGR	B THERMOGRAPH 16	NPX 18	01.8N	158 24.7E	S MARALLWT
2049	23/ 7/79			TGR	E THERMOGRAPH 16	NPX 18	50.8N	163 16.1E	S MARALLWT
2051	23/ 7/79			TGR	B THERMOGRAPH 17	NPX 18	50.9N	163 16.5E	S MARALLWT
2107	24/ 7/79			TGR	E THERMOGRAPH 17	NPX 19	36.4N	168 08.4E	S MARALLWT
2107	24/ 7/79			TGR	B THERMOGRAPH 18	NPX 19	36.4N	168 08.4E	S MARALLWT
1945	25/ 7/79			TGR	E THERMOGRAPH 18	NPX 20	14.7N	172 29.8E	S MARALLWT
1945	25/ 7/79			TGR	B THERMOGRAPH 19	NPX 20	14.7N	172 29.8E	S MARALLWT
2000	26/ 7/79			TGR	E THERMOGRAPH 19	NPX 20	39.8N	176 54.4E	S MARALLWT
2000	26/ 7/79			TGR	B THERMOGRAPH 20	NPX 20	39.8N	176 54.4E	S MARALLWT
2010	27/ 7/79			TGR	E THERMOGRAPH 20	NPX 21	01.7N	178 43.3W	S MARALLWT
2010	27/ 7/79			TGR	B THERMOGRAPH 21	NPX 21	01.7N	178 43.3W	S MARALLWT
1948	28/ 7/79			TGR	E THERMOGRAPH 21	NPX 21	16.7N	174 10.9W	S MARALLWT
1948	28/ 7/79			TGR	B THERMOGRAPH 22	NPX 21	16.7N	174 10.9W	S MARALLWT
1820	29/ 7/79			TGR	E THERMOGRAPH 22	NPX 21	23.9N	169 49.3W	S MARALLWT
1827	29/ 7/79			TGR	B THERMOGRAPH 23	NPX 21	23.9N	169 47.9W	S MARALLWT
1848	30/ 7/79			TGR	E THERMOGRAPH 23	NPX 21	18.8N	164 47.9W	S MARALLWT
1850	30/ 7/79			TGR	B THERMOGRAPH 24	NPX 21	18.8N	164 47.4W	S MARALLWT
0148	01/ 8/79			TGR	E THERMOGRAPH 24	NPX 21	16.0N	158 15.3W	F MARALLWT

\*\*\* BATHY THERMOGRAPH \*\*\*

0000	16/ 7/79	BTX	NO. SAMPLES = 4	NPX 18	09.8N	146 50.0E	S MARALLWT
0000	17/ 7/79	BTX	NO. SAMPLES = 1	NPX 17	30.6N	146 51.8E	S MARALLWT
0000	18/ 7/79	BTX	NO. SAMPLES = 1	NPX 16	57.0N	145 59.7E	S MARALLWT
0000	20/ 7/79	BTX	NO. SAMPLES = 4	NPX 15	13.1N	145 43.2E	S MARALLWT
0000	21/ 7/79	BTX	NO. SAMPLES = 6	NPX 16	25.9N	149 27.4E	S MARALLWT
0000	22/ 7/79	BTX	NO. SAMPLES = 6	NPX 17	22.4N	154 15.6E	S MARALLWT
0000	23/ 7/79	BTX	NO. SAMPLES = 6	NPX 18	45.4N	159 03.0E	S MARALLWT
0000	24/ 7/79	BTX	NO. SAMPLES = 8	NPX 18	56.2N	163 56.6E	S MARALLWT
0000	25/ 7/79	BTX	NO. SAMPLES = 6	NPX 19	42.2N	168 42.7E	S MARALLWT
0000	26/ 7/79	BTX	NO. SAMPLES = 6	NPX 20	21.6N	173 17.2E	S MARALLWT
0000	27/ 7/79	BTX	NO. SAMPLES = 6	NPX 20	36.2N	177 36.5E	S MARALLWT
0000	28/ 7/79	BTX	NO. SAMPLES = 6	NPX 21	05.3N	177 57.3W	S MARALLWT
0000	29/ 7/79	BTX	NO. SAMPLES = 6	NPX 21	19.9N	173 23.7W	S MARALLWT
0000	30/ 7/79	BTX	NO. SAMPLES = 6	NPX 21	27.6N	168 42.2W	S MARALLWT
0000	31/ 7/79	BTX	NO. SAMPLES = 6	NPX 21	15.0N	163 41.9W	S MARALLWT

\*\*\* GEOLOGICAL SAMPLE \*\*\*

0130	18/ 7/79	GPXX	B GEO DIVE/ROCKS +	MTG 16	53.5N	145 51.0E	F MARALLWT
0249	18/ 7/79	GPXX	E PHOTUS-ZEALANDIA BK	MTG 16	53.5N	145 51.0E	F MARALLWT

9900

END SAMPLE INDEX

MARALLWT