

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

(Issued May 1979)

MARIANA EXPEDITION

LEG 10

Djakarta, Indonesia (16 February 1979)
to
Subic Bay, Philippines (10 March 1979)

R/V T. Washington

Chief Scientist - G. Shor (SIO)

Resident Marine Tech - R. Comer

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

Data Collection Funded by NORDA/ONR
Grant Number 0749
and University of California 446080-19900
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 Geological Data Center, Scripps Institution of Oceanography, La Jolla, California 92093.

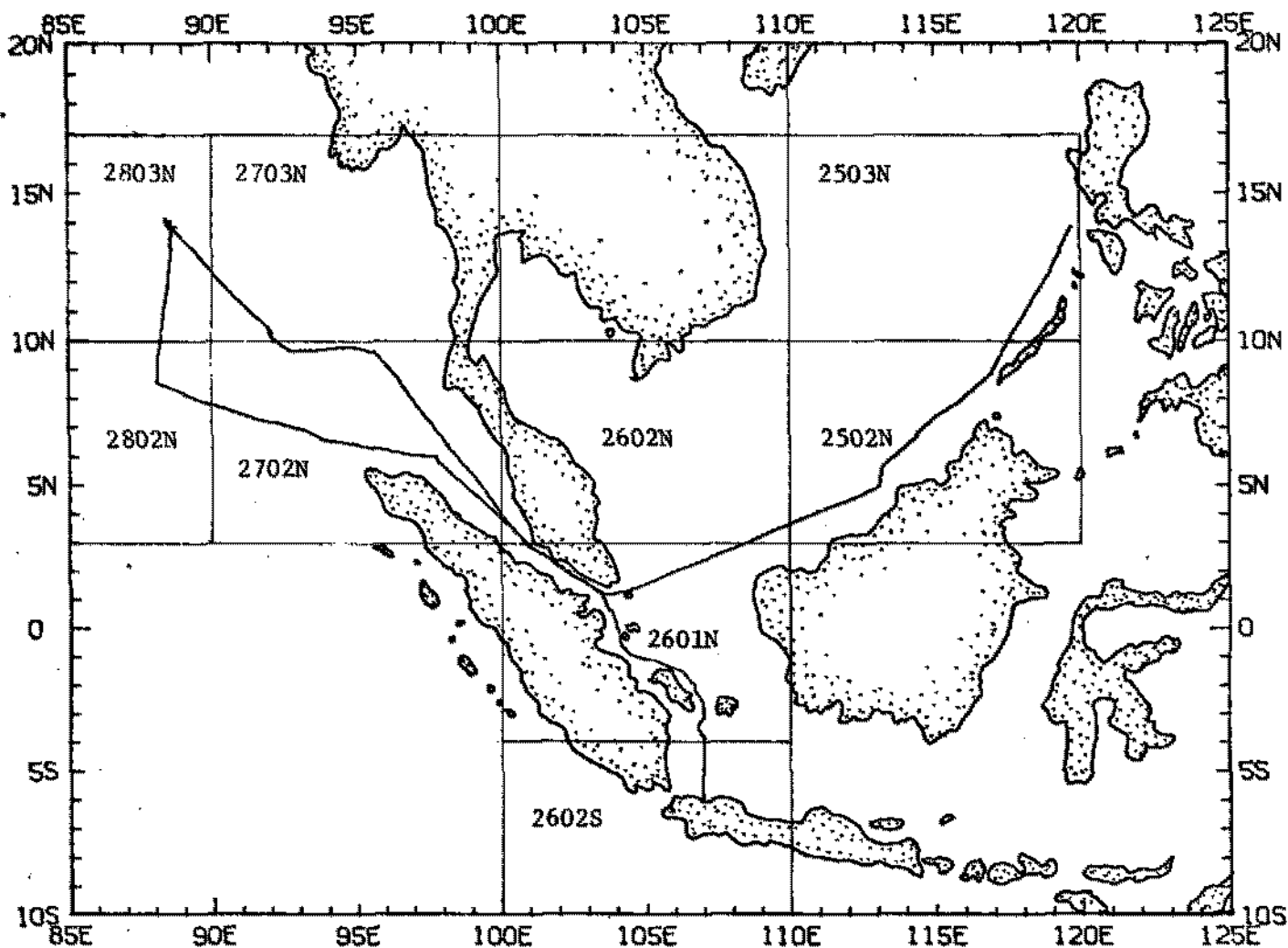
Informal Report and Index of Navigation, Depth, Magnetic and Subbottom Profiler Data

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 10

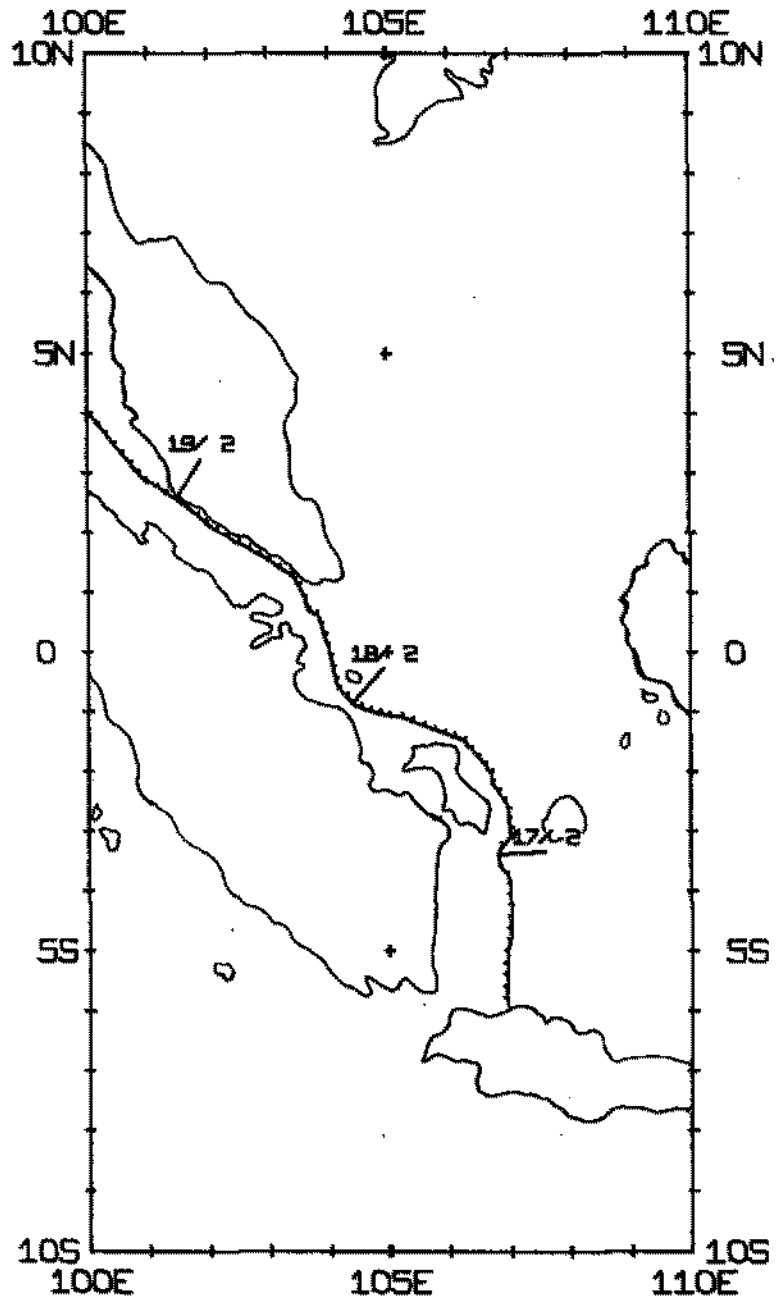
Chief Scientist: George Shor
 Ports: Djakarta, Indonesia - Subic Bay, Philippines
 Dates: 16 February - 10 March 1979
 Ship: T. Washington

TOTAL MILEAGE

- 1) Cruise - 4718 miles
- 2) Bathymetry - 3958 miles
- 3) Magnetics - 2815 miles
- 4) Seismic Reflection - 1920 miles
- 5) Gravity - collected

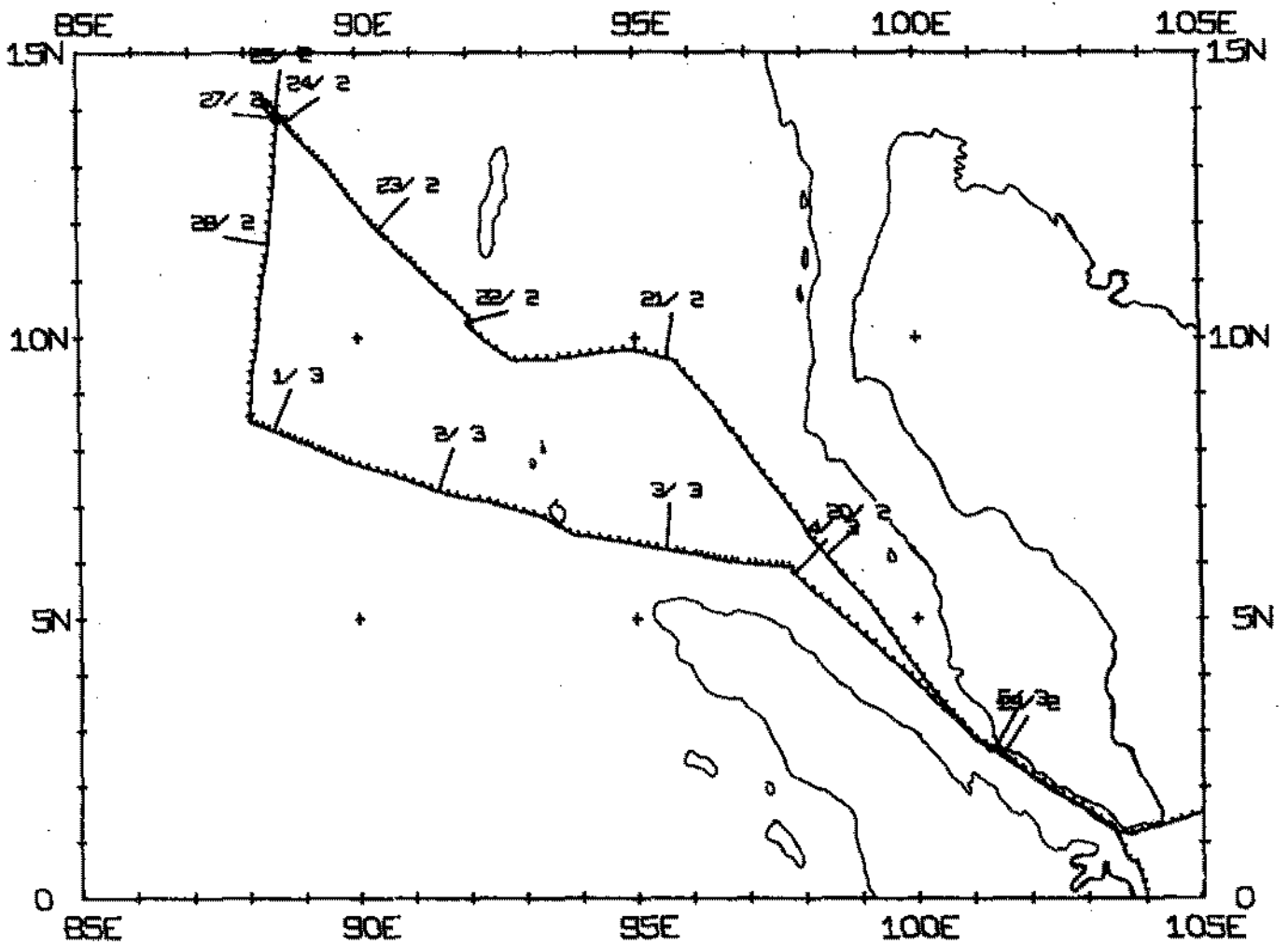
MARA10WT TRACK PLOT (1 OF 3)

MERCATOR PROJECTION; SCALE= 0.312 IN/DEG LONGITUDE



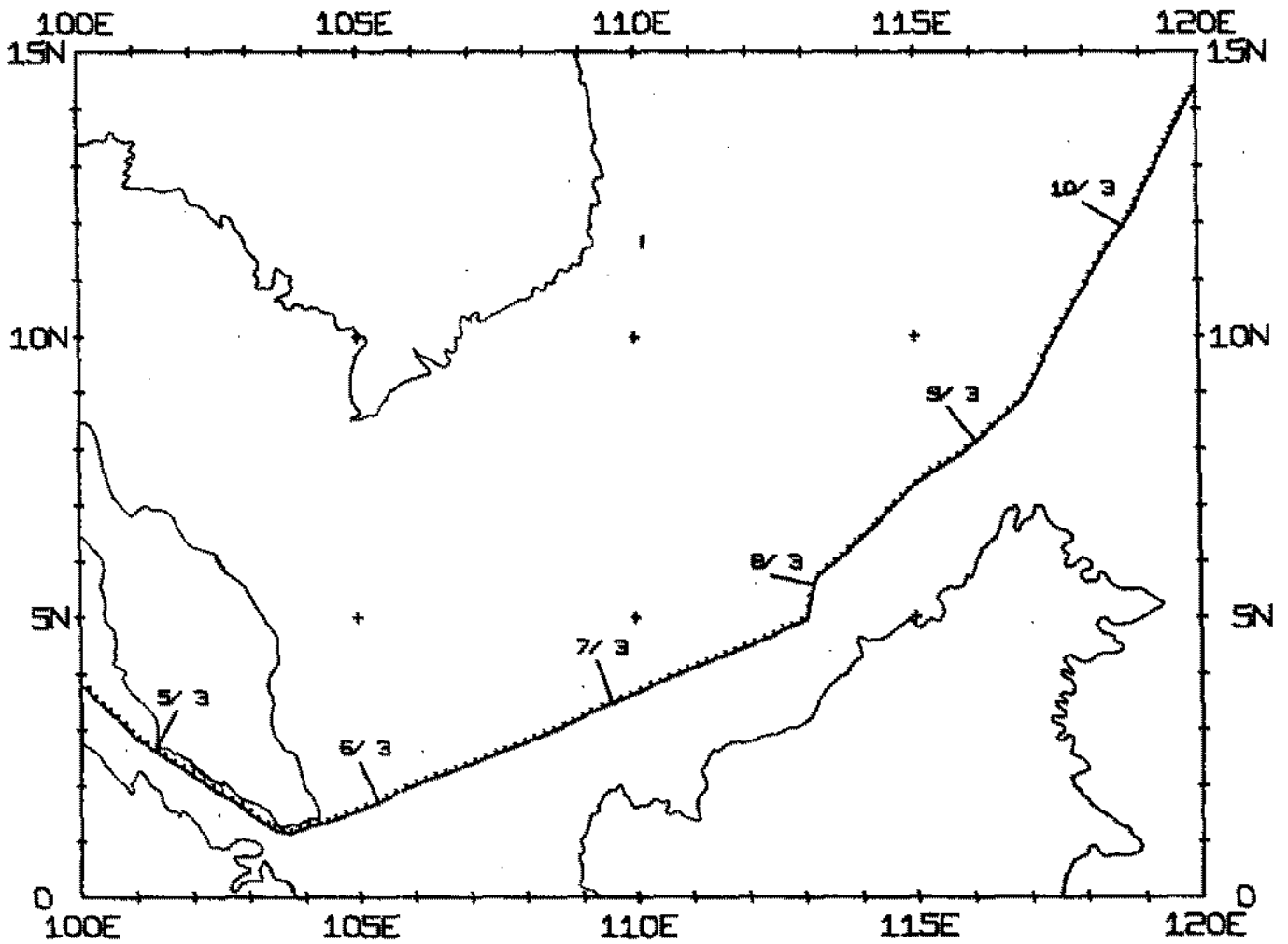
MARA10WT TRACK PLOT (2 OF 3)

MERCATOR PROJECTION, SCALE= 0.312 IN/DEG LONGITUDE

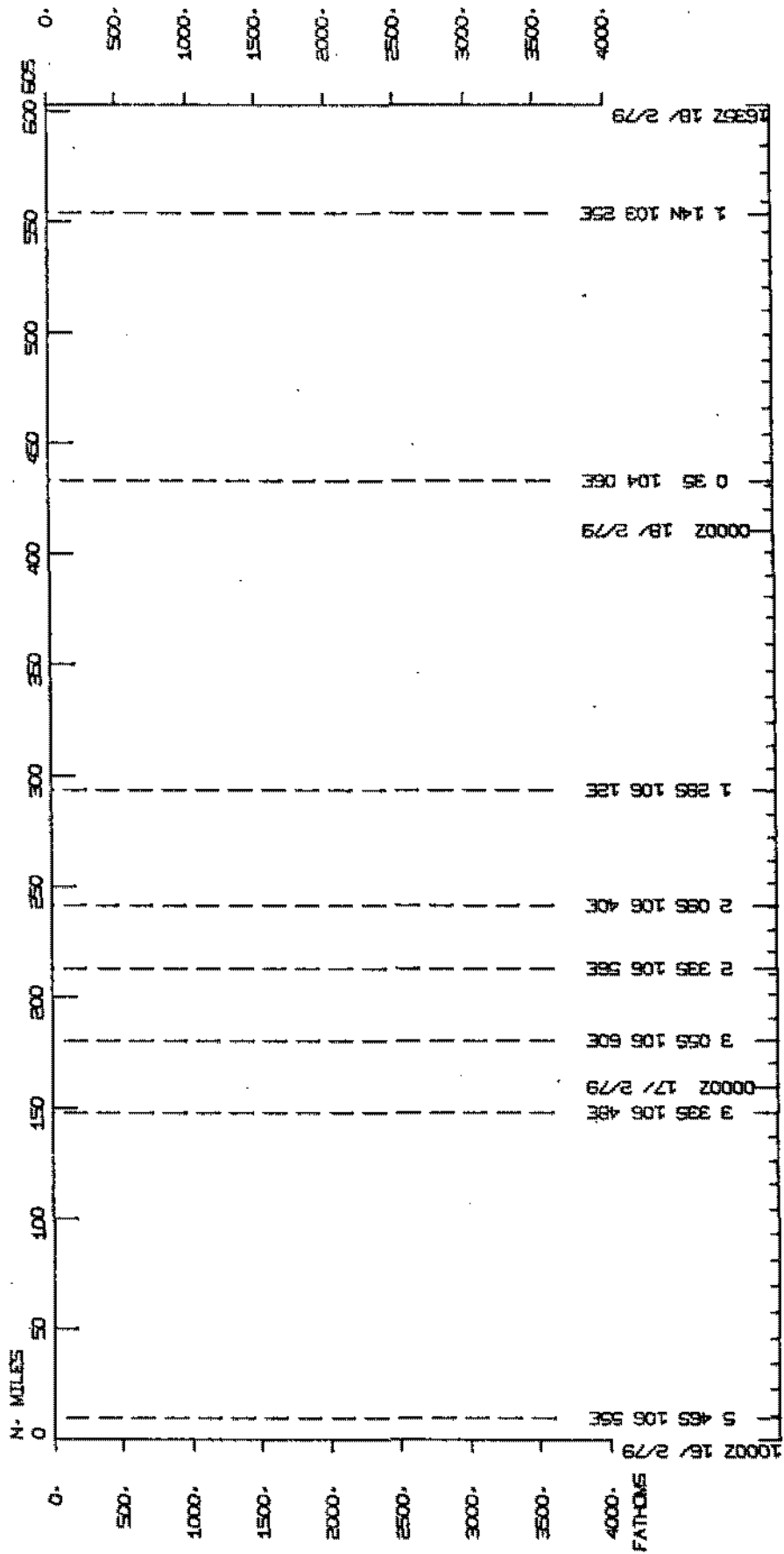
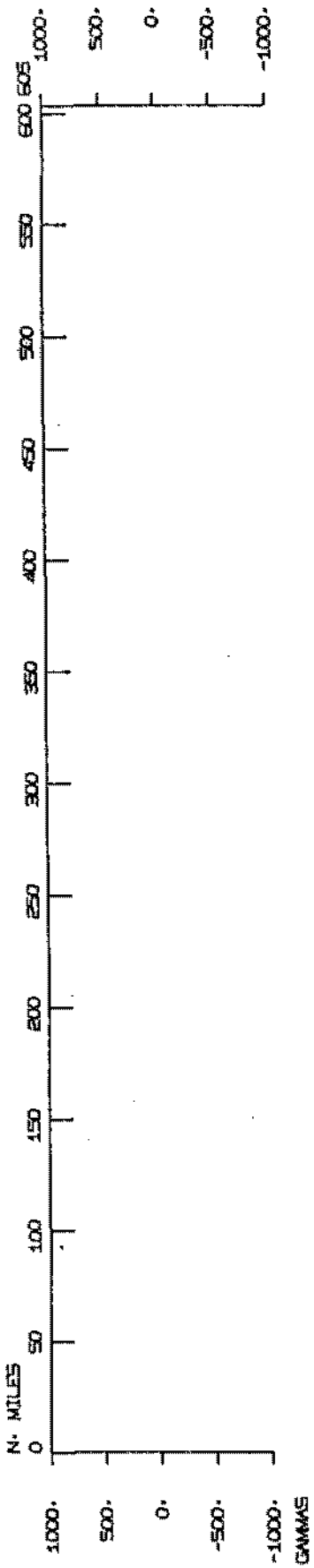


MARA10WT TRACK PLOT (3 OF 3)

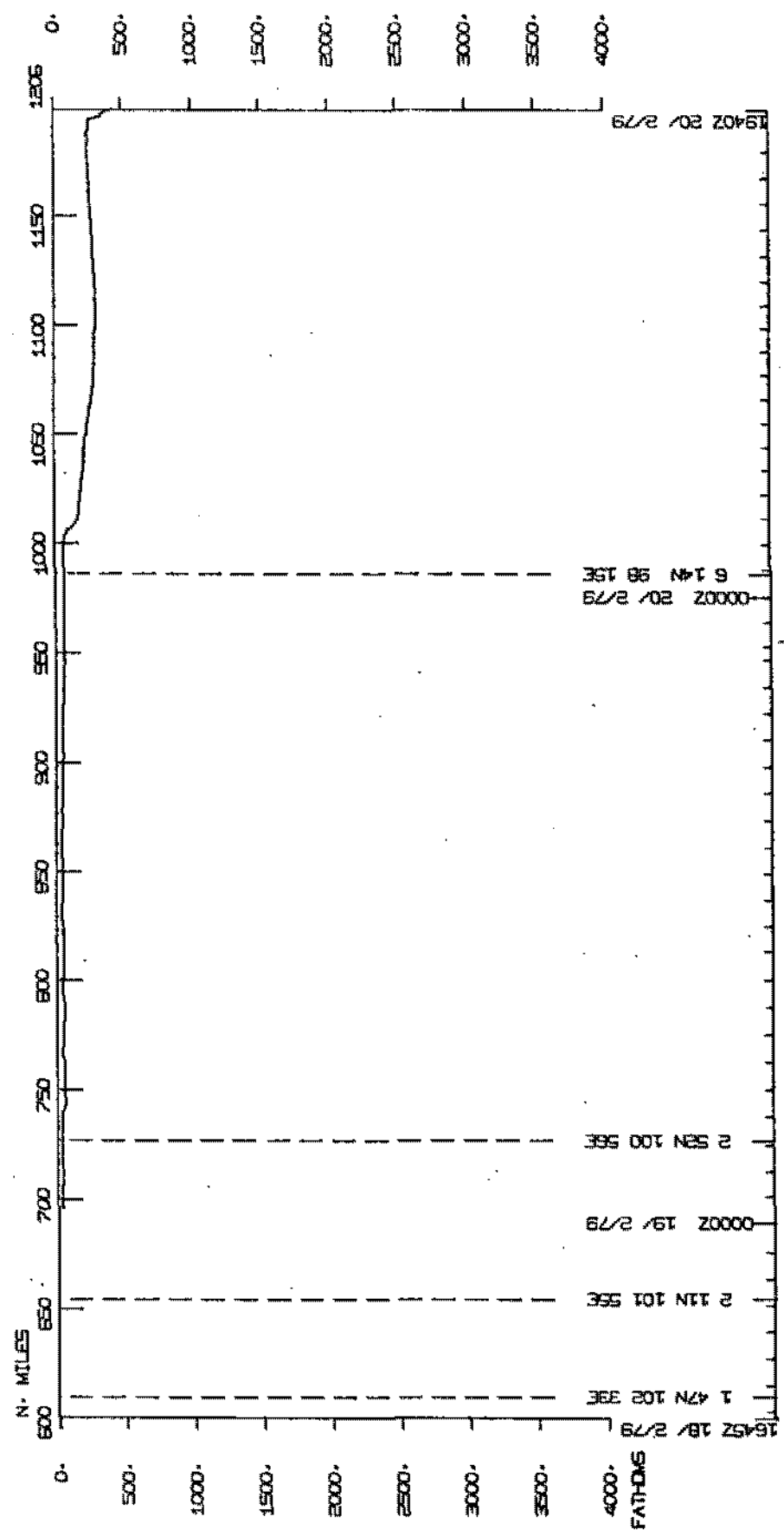
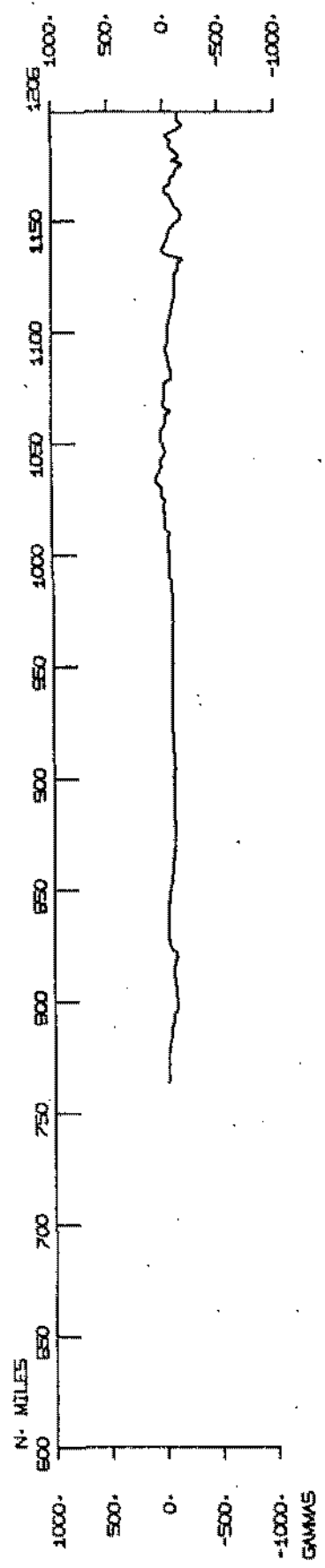
MERCATOR PROJECTION, SCALE= 0.312 IN/DEG LONGITUDE



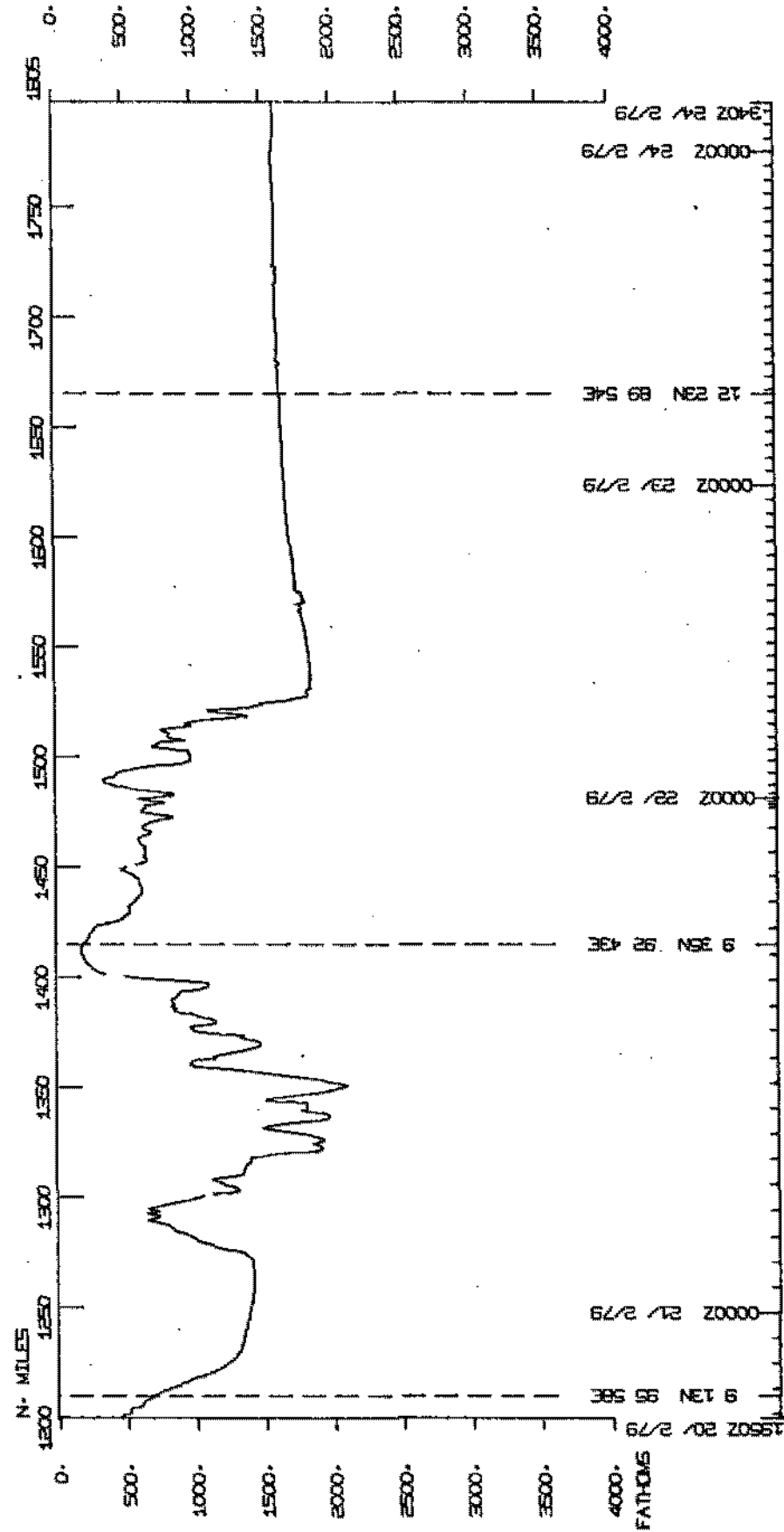
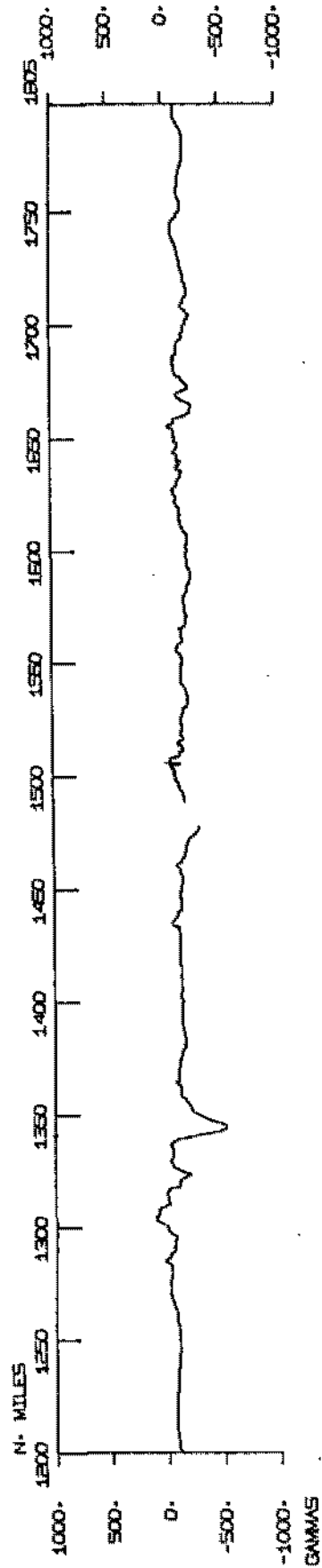
MARIANA LEG 10



MARIANA LEG 10

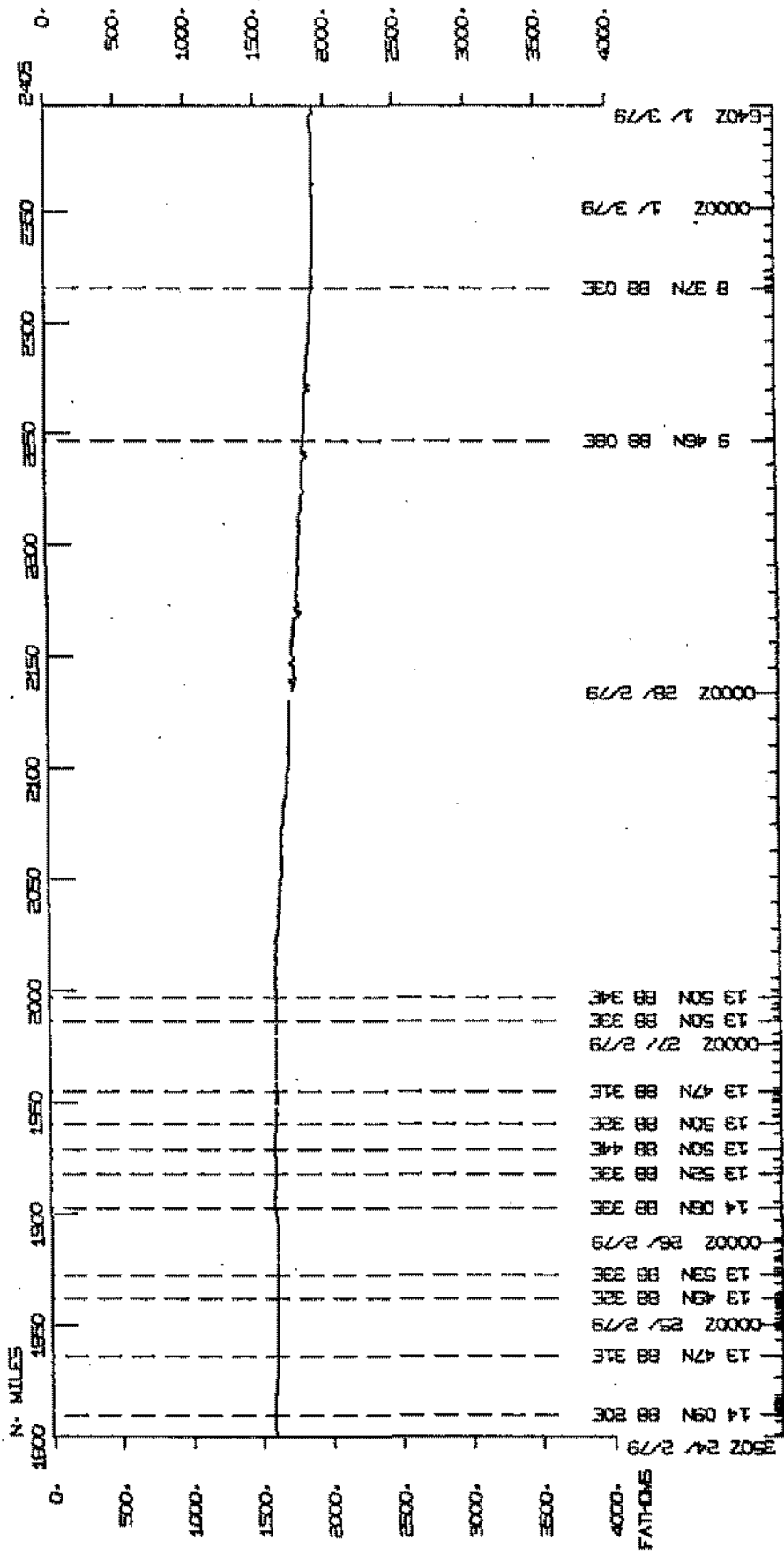
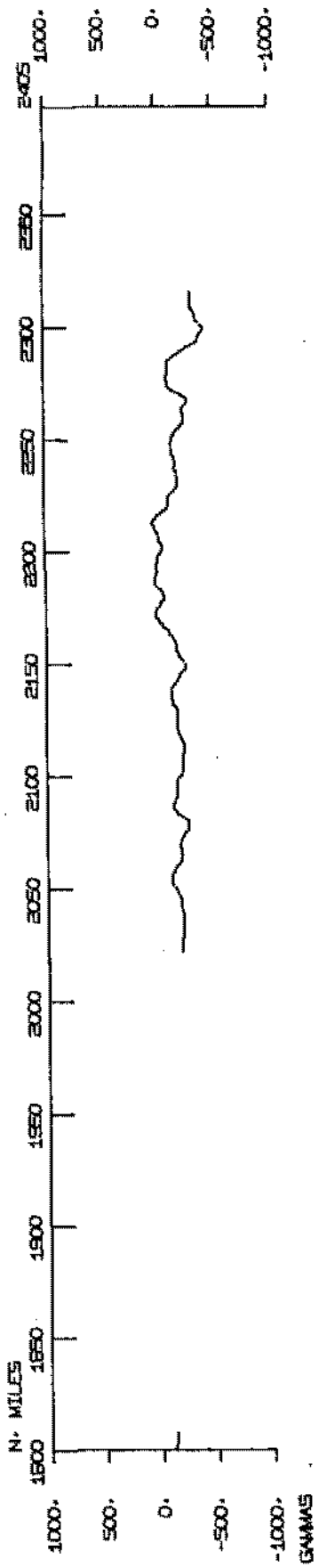


MARIANA LEG 10

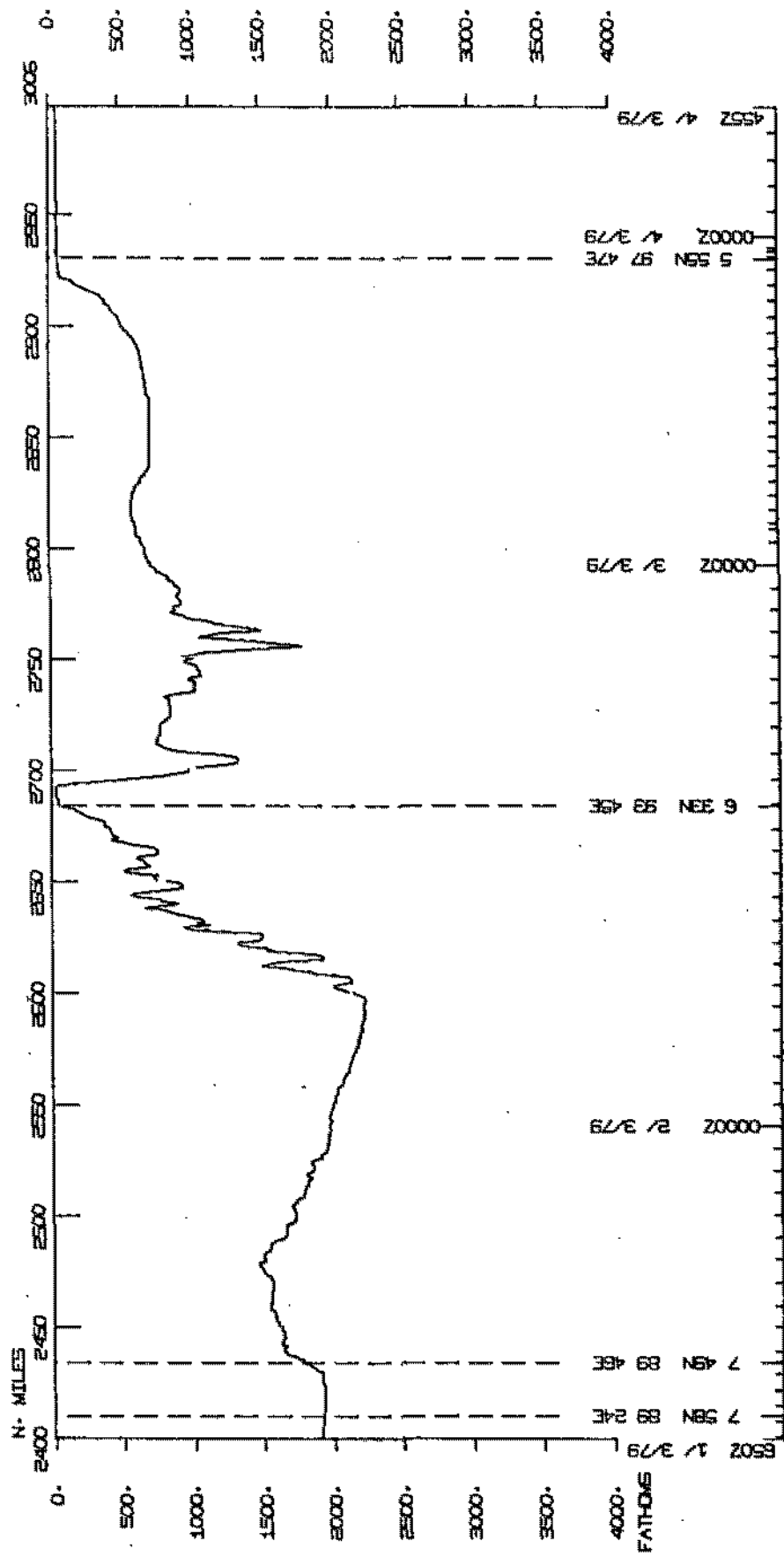
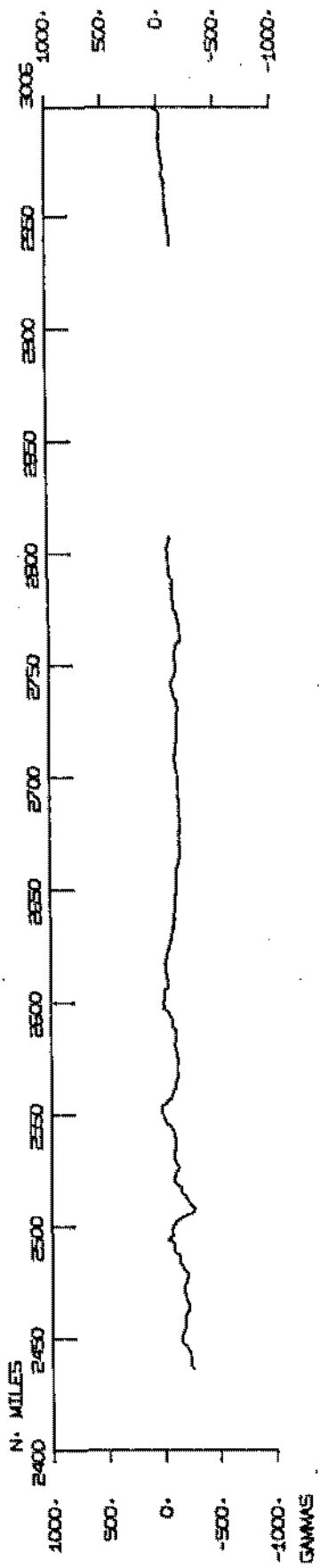


1802 20/ 2/79 9 13N 98 58E 00002 21/ 2/79 9 30Z 19 48E 00002 22/ 2/79 12 03N 98 54E 00002 23/ 2/79 340Z 24/ 2/79

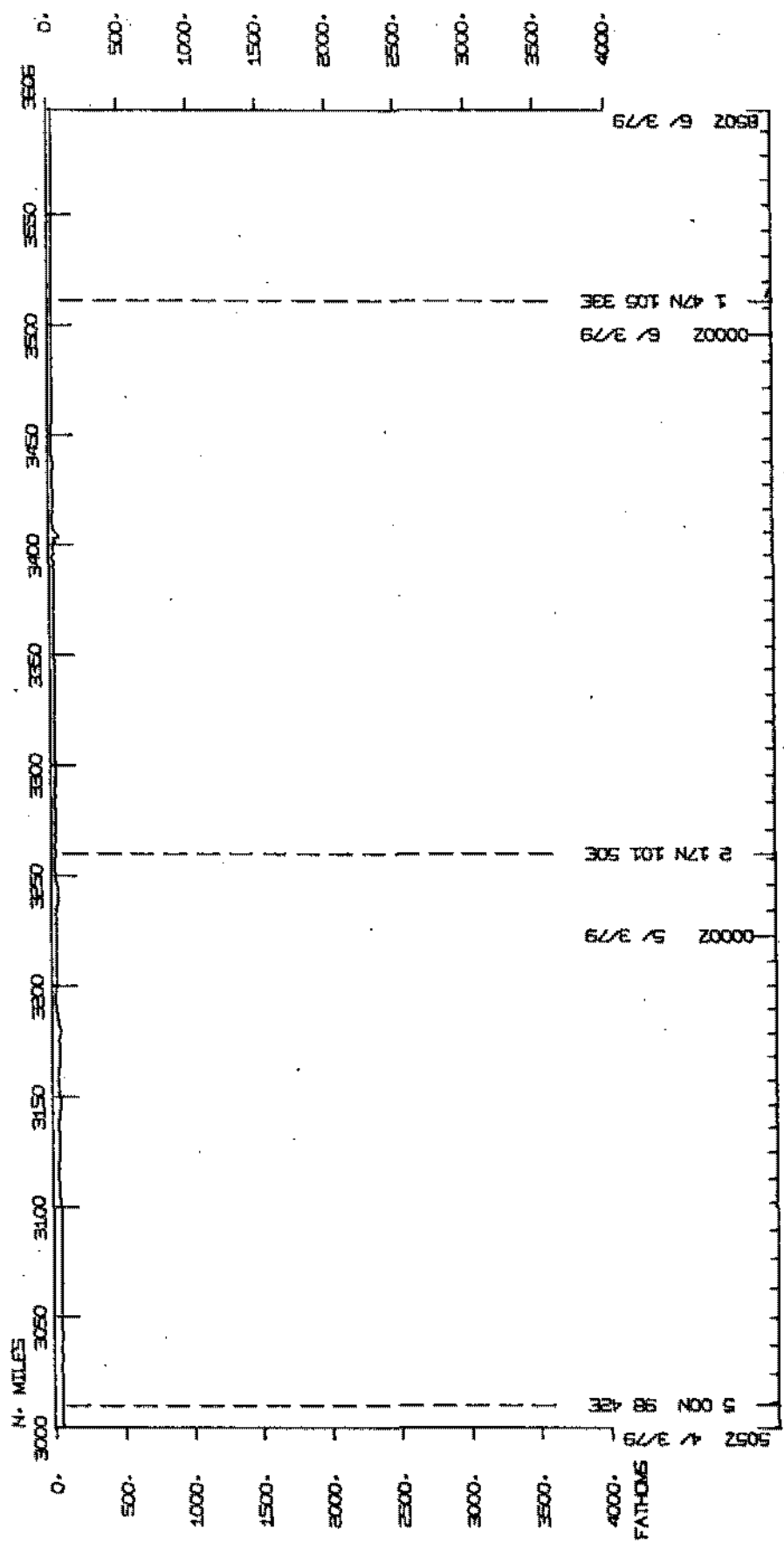
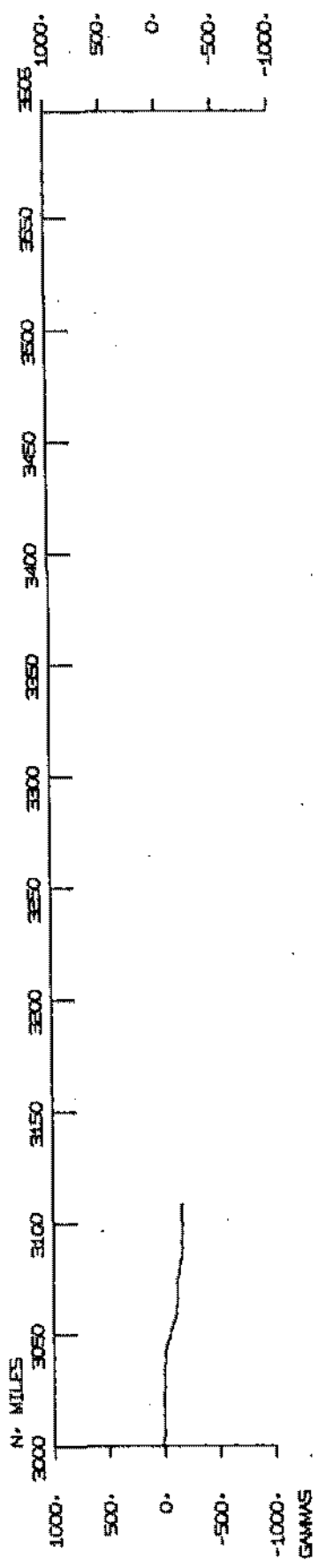
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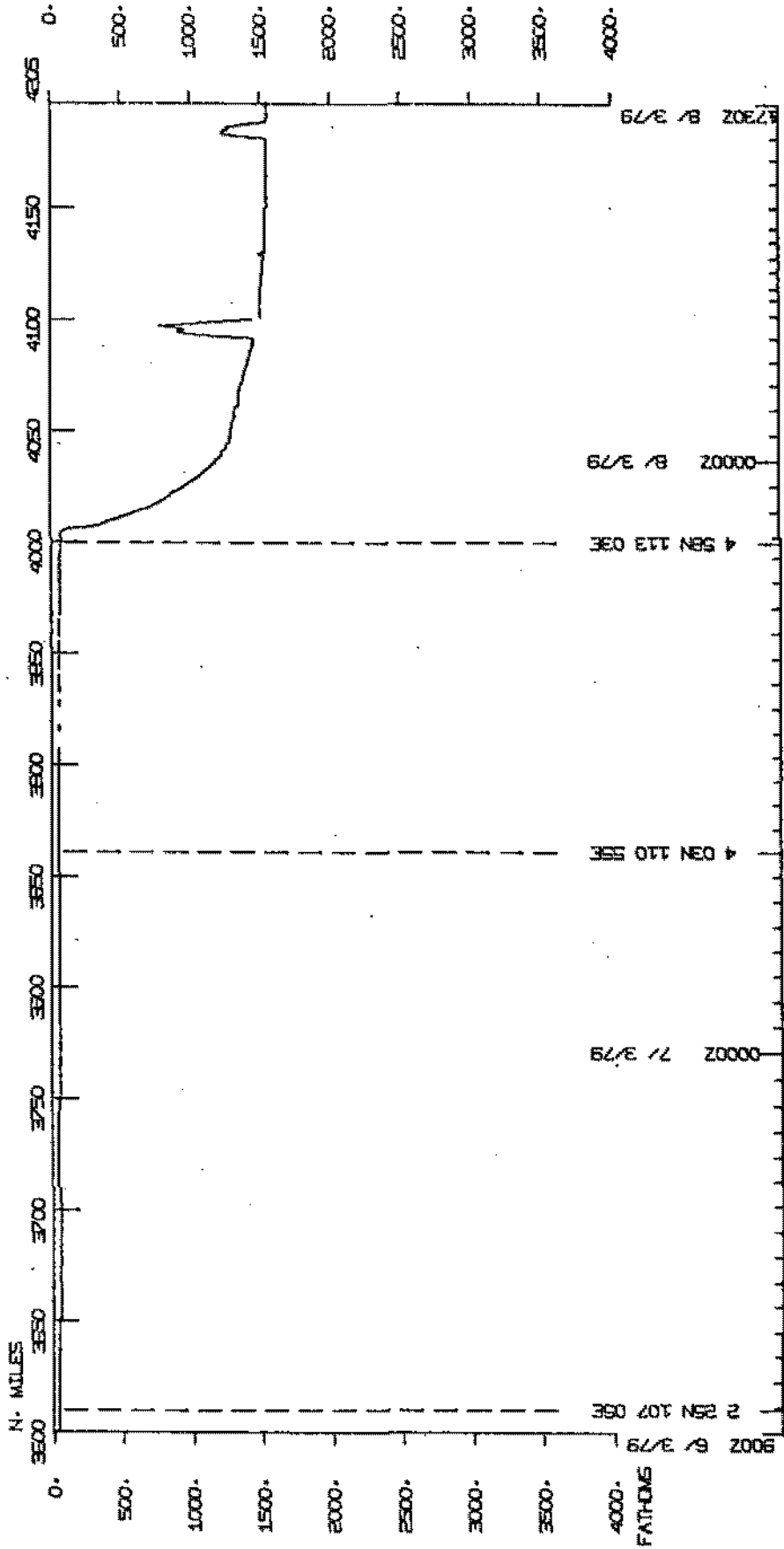
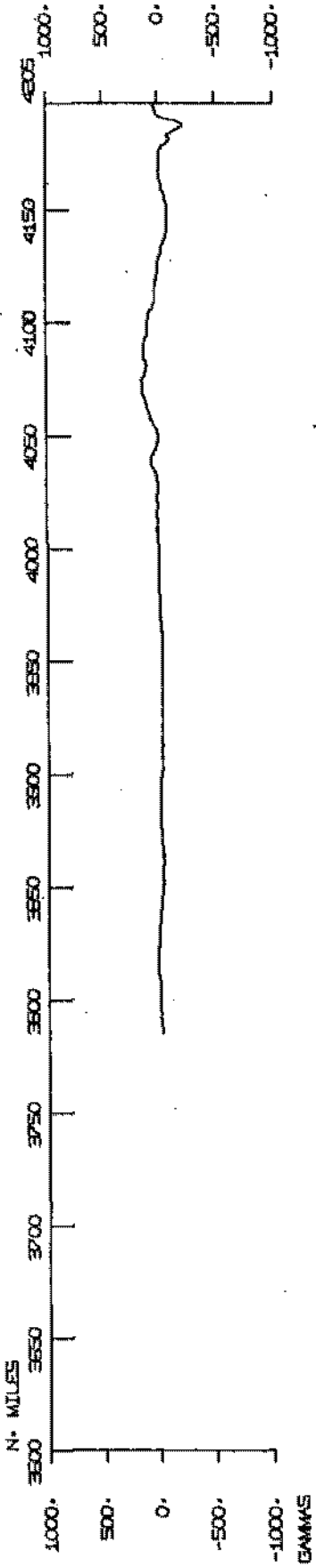
MARIANA LEG 10



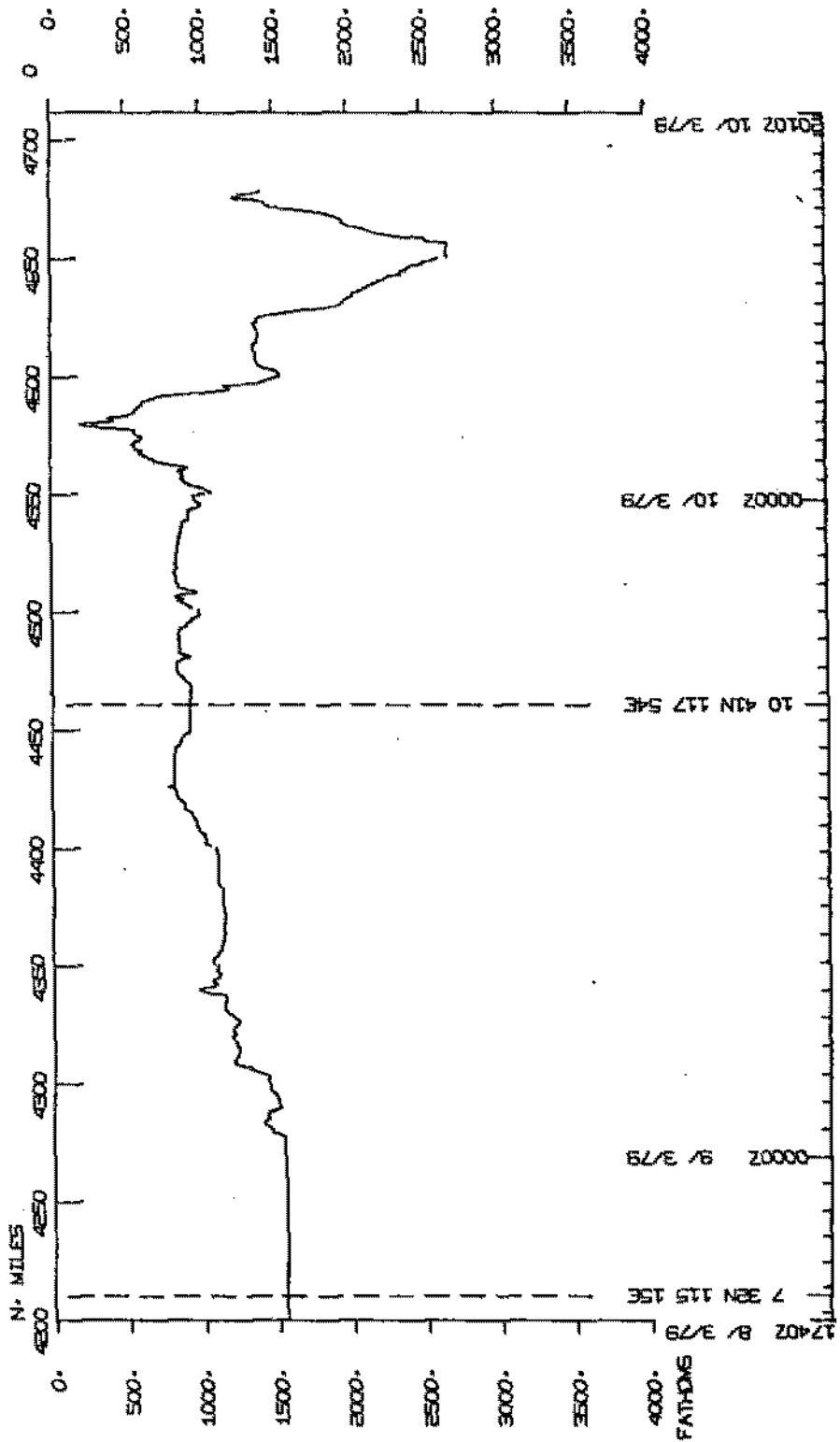
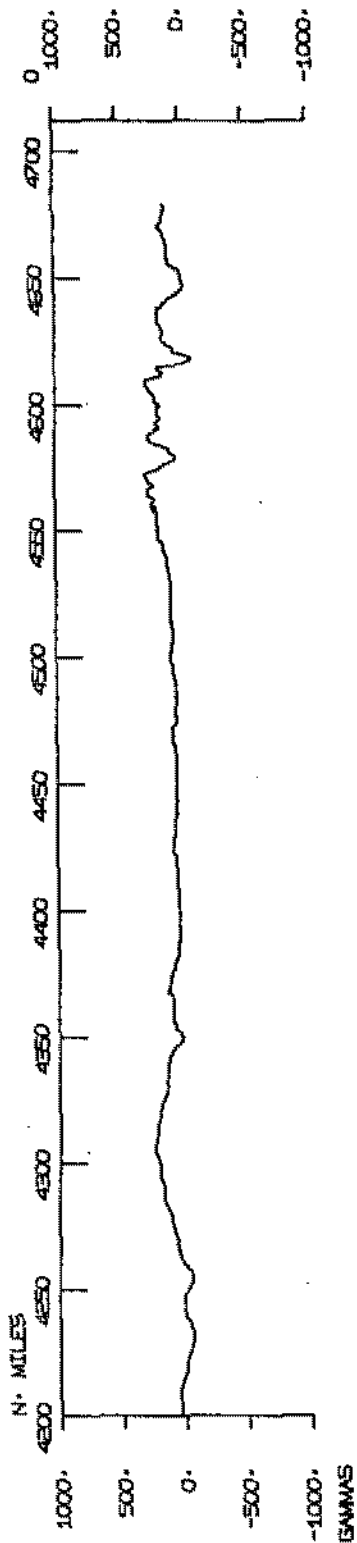
MARIANA LEG 10



MARIANA LEG 10



MARIANA LEG 10



1740Z B/ 3/79
 7 38N 115 15E
 0000Z 9/ 3/79
 10 41N 117 54E
 0000Z 10/ 3/79
 2010Z 10/ 3/79

S.I.O. SAMPLE INDEX

(Issued May 1979)

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Djakarta, Indonesia (16 February 1979)
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Post-Cruise Processing and Report Preparation
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Index Encoding Funded by NSF
Grant Number OCE76-80618
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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*** MAKIANA LEG 10 SAMPLE INDEX

(MAK10WT) ***

	60E	120E	180	120W	60W	0W	
85N	X' = SHIP'S TRACK BY 5 DEGREE SQUARE						85N
80N							80N
75N							75N
70N							70N
65N							65N
60N							60N
55N							55N
50N							50N
45N							45N
40N							40N
35N							35N
30N							30N
25N							25N
20N							20N
15N							15N
10N							10N
5N							5N
0N							0N
5S							5S
10S							10S
15S							15S
20S							20S
25S							25S
30S							30S
35S							35S
40S							40S
45S							45S
50S							50S
55S							55S
60S							60S
65S							65S
70S							70S
75S							75S
80S							80S
85S							85S
90S							90S

16FEB79 - DJAKARTA, INDONESIA

TU

10MAR79 - SUBIC BAY, PHIL.

CHIEF SCIENTIST - GEORGE SHOK, JR. MPL

SHIP - R/V THOMAS WASHINGTON (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	
		BU	CU	DN	DP	GV	LB	MG	UN	PE	SP	SR		
GCK	I		3										1	3
GDC	I				13		1	2				6	1	23
GGG	I	2									55	10	1	67
LMD	I					2							1	2
MIC	I								1				1	1
MPL	I									4			1	4
MTG	I									1			1	1
MVC	I			2									1	2
SCG	I									2	3		1	5
SGG	I									1			1	1
SIU	I									3			1	3
TOTAL	I	6	2	3	2	13	2	1	2	1	11	64	5	112

SAMPLE 'TYPE' CODES USED ABOVE

BU = BODY (OCEANOGRAPHIC) REPLACED TYPE KB MAK. 74
 CU = CORE
 DN = DIP NET
 DP = DEPTH
 GV = GRAVITY
 LB = LUG HOOKS
 MG = MAGNETICS (TOWED VEHICLE, SURFACE, TOTAL FIELD)
 UN = OPEN NET
 PE = PERSONNEL IN SCIENTIFIC PARTY
 SP = SEISMIC REFLECTION PROFILE AIRGUN
 SR = SEISMIC STATION - SHOOTING RUN

SAMPLE 'DISP' CODES USED ABOVE

GCK = GEOLOGICAL CURATING FACILITY -- W. KIEDEL, (EXT. 4386)
 GDC = GEOLOGICAL DATA CENTER -- S. SMITH (EXT. 2752)
 GGS = GEORGE SHOK (EXT. 2853)
 LMD = LEROY M. DORMAN (EXT. 2406)
 MIC = MARINE INVERTEBRATE CURATOR - A. FLEMINGER, (EXT. 2071)
 MPL = MARINE PHYSICAL LAB. (EXT 2305)
 MTG = MARINE TECHNOLOGY GROUP (EXT 4194)
 MVC = MARINE VERTEBRATE CURATOR -- R. H. ROSENBLATT, (EXT 2199)
 SCG = SHIPBOARD COMPUTER GROUP (EXT. 4195)
 SGG = SHIPBOARD GEOPHYSICAL GROUP--P. CRAMPTON (EXT. 2079)
 SIU = SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA, CAL. 92093

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

MARIANA LEG 10 SAMPLE INDEX

MARA10WT

*** PORTS ***

0915 16/ 2/79			LGPT B DJAKARTA, INDONESIA		06 07. S	106 48. E	F MARA10WT
0100 10/ 3/79			LGPT E SUBIC BAY, PHIL.		14 45. N	120 11. E	F MARA10WT

PERSONNEL

*** NAME ***	*** TITLE ***	*** AFFILIATION ***
1 GEORGE SHOR, JR.	PROFESSOR	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
2 RON CUMER	RESIDENT TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
3 ART BUKKHALTER	COMPUTER TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
4 J. LYNN ABBOTT	PR DVLMT ENGR	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
5 FRANK HUBENKA	AIRGUN TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
6 BETTY SHOR	VOLUNTEER	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
7 PAUL ONEILL	S/RCS ASSOC	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
8 MARTIN BENSON	ASSO DVLMT ENGR	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
9 DUFFY MCGOWAN	S/RCS ASSOC	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
10 BOB KIECKHEFER	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
11 RANDY JACOBSON	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093

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. (MORDED 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.

07MAY79 PAGE 2

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

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

*** LOG BOOKS ***

0040	19/ 2/79		LBW	B UNDERWAY WATCH	GDC 02	37.6N	101 21.6E	S MAKALOWT
1600	10/ 3/79		LBW	E UNDERWAY WATCH	GDC 13	52.4N	119 41.4E	S MAKALOWT

*** FATHIGRAMS ***

0037	19/ 2/79		DPK3	B UGR 3.5KHZ ROLL-01	GDC 02	37.3N	101 22.1E	S MAKALOWT
1331	21/ 2/79		DPK3	E UGR 3.5KHZ ROLL-01	GDC 09	36.4N	92 53.3E	S MAKALOWT
1333	21/ 2/79		DPK3	B UGR 3.5KHZ ROLL-02	GDC 09	36.4N	92 52.9E	S MAKALOWT
0355	25/ 2/79		DPK3	E UGR 3.5KHZ ROLL-02	GDC 13	54.1N	88 33.1E	S MAKALOWT
0411	25/ 2/79		DPK3	B UGR 3.5KHZ ROLL-03	GDC 13	54.6N	88 33.0E	S MAKALOWT
0015	2/ 3/79		DPK3	E UGR 3.5KHZ ROLL-03	GDC 07	16.1N	91 29.9E	S MAKALOWT
0033	2/ 3/79		DPK3	B UGR 3.5KHZ ROLL-04	GDC 07	15.3N	91 32.8E	S MAKALOWT
0150	5/ 3/79		DPK3	E UGR 3.5KHZ ROLL-04	GDC 02	26.0N	101 37.0E	S MAKALOWT
0227	5/ 3/79		DPK3	B UGR 3.5KHZ ROLL-05	GDC 02	22.1N	101 43.2E	S MAKALOWT
0822	7/ 3/79		DPK3	E UGR 3.5KHZ ROLL-05	GDC 04	05.4N	110 59.6E	S MAKALOWT
0838	7/ 3/79		DPK3	B UGR 3.5KHZ ROLL-06	GDC 04	06.5N	111 02.3E	S MAKALOWT
1600	10/ 3/79		DPK3	E UGR 3.5KHZ ROLL-06	GDC 13	52.4N	119 41.4E	S MAKALOWT
0300	17/ 2/79		DPKT	B GDR 12KHZ ROLL-01	GDC 02	55.9S	106 58.8E	S MAKALOWT
0306	21/ 2/79		DPKT	E GDR 12KHZ ROLL-01	GDC 09	46.6N	94 55.8E	S MAKALOWT
0530	21/ 2/79		DPKT	B GDR 12KHZ ROLL-02	GDC 09	44.7N	94 27.4E	S MAKALOWT
1127	23/ 2/79		DPKT	E GDR 12KHZ ROLL-02	GDC 12	46.8N	89 34.6E	S MAKALOWT
1132	23/ 2/79		DPKT	B GDR 12KHZ ROLL-03	GDC 12	47.2N	89 34.3E	S MAKALOWT
0156	28/ 2/79		DPKT	E GDR 12KHZ ROLL-03	GDC 11	16.8N	88 19.4E	S MAKALOWT
0207	28/ 2/79		DPKT	B GDR 12KHZ ROLL-04	GDC 11	14.8N	88 19.1E	S MAKALOWT
0021	3/ 3/79		DPKT	E GDR 12KHZ ROLL-04	GDC 06	14.0N	95 35.3E	S MAKALOWT
0112	3/ 3/79		DPKT	B GDR 12KHZ ROLL-05	GDC 06	12.4N	95 44.2E	S MAKALOWT
1429	6/ 3/79		DPKT	E GDR 12KHZ ROLL-05	GDC 02	44.0N	107 53.3E	S MAKALOWT
1445	6/ 3/79		DPKT	B GDR 12KHZ ROLL-06	GDC 02	45.1N	107 56.1E	S MAKALOWT
1248	9/ 3/79		DPKT	E GDR 12KHZ ROLL-06	GDC 10	05.2N	117 32.8E	S MAKALOWT
1303	9/ 3/79		DPKT	B GDR 12KHZ ROLL-07	GDC 10	07.7N	117 34.0E	S MAKALOWT
1609	10/ 3/79		DPKT	E GDR 12KHZ ROLL-07	GDC 13	53.4N	119 41.9E	S MAKALOWT

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

0604 19/ 2/79		MGR B	MAGNETICS RULL-01	GDC 03	20.2N	100 32.4E	S MAKALOWT
0320 8/ 3/79		MGR E	MAGNETICS RULL-01	GDC 06	01.4N	113 35.8E	S MAKALOWT
0329 8/ 3/79		MGR B	MAGNETICS RULL-02	GDC 06	02.4N	113 37.1E	S MAKALOWT
1600 10/ 3/79		MGR E	MAGNETICS RULL-02	GDC 13	52.4N	119 41.4E	S MAKALOWT

GRAVIMETRIC RECORDS CURATOR L.M. DURMAN (EXT.2406)

0030 10/ 2/79		GVR B	GRAVITY RULL-01	LMD 05	57.9S	106 56.0E	S MAKALOWT
0020 24/ 2/79		GVR E	GRAVITY RULL-01	LMD 13	47.7N	88 39.7E	S MAKALOWT
0030 24/ 2/79		GVR B	GRAVITY RULL-02	LMD 13	48.6N	88 39.1E	S MAKALOWT
0958 3/ 3/79		GVR E	GRAVITY RULL-02	LMD 06	02.8N	96 34.9E	S MAKALOWT

*** SEISMIC REFLECTION PROFILES ***

2350 19/ 2/79		SPKS B	PSR 1 (5-10) K-01	GDC 05	49.8N	98 36.0E	S MAKALOWT
1942 21/ 2/79		SPKS E	PSR 1 (5-10) K-01	GDC 10	14.0N	91 55.3E	S MAKALOWT
0232 22/ 2/79		SPKS B	PSR 1 (5-10) K-02	GDC 10	19.7N	92 00.2E	S MAKALOWT
2030 3/ 3/79		SPKS E	PSR 1 (5-10) K-02	GDC 05	56.3N	97 47.0E	S MAKALOWT
2039 7/ 3/79		SPKS B	PSR 1 (5-10) K-03	GDC 04	57.7N	113 03.4E	S MAKALOWT
1458 8/ 3/79		SPKS E	PSR 1 (5-10) K-03	GDC 07	08.8N	114 45.6E	S MAKALOWT
2205 19/ 2/79		SPRF B	PSR 2 (0-3) K-01	GDC 06	05.0N	98 23.1E	S MAKALOWT
1942 21/ 2/79		SPRF E	PSR 2 (0-3) K-01	GDC 10	14.0N	91 55.3E	S MAKALOWT
0232 22/ 2/79		SPRF B	PSR 2 (0-3) K-02	GDC 10	19.7N	92 00.2E	S MAKALOWT
2030 3/ 3/79		SPRF E	PSR 2 (0-3) K-02	GDC 05	56.3N	97 47.0E	S MAKALOWT
2039 7/ 3/79		SPRF B	PSR 2 (0-3) K-03	GDC 04	57.7N	113 03.4E	S MAKALOWT
1458 8/ 3/79		SPRF E	PSR 2 (0-3) K-03	GDC 07	08.8N	114 45.6E	S MAKALOWT

MULTI-CHANNEL SEISMIC LINE

0235 22/ 2/79		SPML B	MULTICHANNEL KUN 1	GG5 10	19.9N	91 60.0E	S MAKALOWT
0500 24/ 2/79		SPML E	MULTICHANNEL KUN 1	GG5 14	10.8N	88 21.5E	S MAKALOWT
1954 28/ 2/79		SPML B	MULTICHANNEL KUN 2	GG5 08	31.2N	88 02.8E	S MAKALOWT
1132 1/ 3/79		SPML E	MULTICHANNEL KUN 2	GG5 07	49.8N	89 45.4E	S MAKALOWT
0324 3/ 3/79		SPML B	MULTICHANNEL KUN 3	GG5 06	11.3N	95 52.0E	S MAKALOWT
2032 3/ 3/79		SPML E	MULTICHANNEL KUN 3	GG5 05	56.2N	97 47.1E	S MAKALOWT

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

MULTI-CHANNEL DIGITAL SEISMIC TAPE

0235	22/ 2/79		SPMT B DIGITAL TAPES	1-29	SCG 10	19.9N	91 60.0E	S MARALOWT
0500	24/ 2/79		SPMT E DIGITAL TAPES	1-29	SCG 14	10.8N	88 21.5E	S MARALOWT
1954	28/ 2/79		SPMT B DIGITAL TAPES	30-38	SCG 08	31.2N	88 02.8E	S MARALOWT
1132	1/ 3/79		SPMT E DIGITAL TAPES	30-38	SCG 07	49.8N	89 45.4E	S MARALOWT
0324	3/ 3/79		SPMT B DIGITAL TAPES	39-49	SCG 06	11.3N	95 52.0E	S MARALOWT
2032	3/ 3/79		SPMT E DIGITAL TAPES	39-49	SCG 05	56.2N	97 47.1E	S MARALOWT

*** WIDE ANGLE SEISMIC REFRACTION ***

0944	25/ 2/79		SRWA B SHOOTING RUN 01		GGG 13	51.8N	88 33.7E	S MARALOWT
1349	25/ 2/79		SRWA E SHOOTING RUN 01		GGG 13	48.7N	88 31.8E	S MARALOWT
1758	26/ 2/79		SRWA B SHOOTING RUN 02		GGG 13	51.3N	88 33.3E	S MARALOWT
2144	26/ 2/79		SRWA E SHOOTING RUN 02		GGG 13	45.3N	88 34.1E	S MARALOWT
0647	8/ 3/79		SRWA B SHOOTING RUN 03		GGG 06	31.4N	114 10.2E	S MARALOWT
0917	8/ 3/79		SRWA E SHOOTING RUN 03		GGG 06	34.0N	114 12.8E	S MARALOWT
1125	8/ 3/79		SRWA B SHOOTING RUN 04		GGG 06	44.3N	114 22.3E	S MARALOWT
1220	8/ 3/79		SRWA E SHOOTING RUN 04		GGG 06	56.2N	114 32.7E	S MARALOWT
1319	08/03/79		SRWA B SHOOTING RUN 05		GDC 06	57.4N	114 33.0E	F MARALOWT
1421	08/03/79		SRWA E SHOOTING RUN 05		GDC 07	04.8N	114 41.4E	F MARALOWT

SEISMIC RECEIVING BUOY

2240	24/ 2/79		BUSK B MOORED BUOY DIUNNA		GGG 13	56.1N	88 32.6E	S MARALOWT
1218	27/ 2/79		BUSK E MOORED BUOY DIUNNA		GGG 13	54.6N	88 33.4E	S MARALOWT
0036	25/ 2/79		BUSK B MOORED BUOY JO		GGG 13	54.9N	88 32.7E	S MARALOWT
1218	27/ 2/79		BUSK E MOORED BUOY JO		GGG 13	50.3N	88 34.1E	S MARALOWT

*** SEISMIC REFRACTION SEAFLOOR HYDROPHONE ***

0334	25/ 2/79		SRSH B SEAFLOOR HYDRO ST1-1		GGG 13	54.3N	88 33.0E	S MARALOWT
2230	25/ 2/79		SRSH E SEAFLOOR HYDRO ST1-1		GGG 13	52.7N	88 34.5E	S MARALOWT
0459	25/ 2/79		SRSH B SEAFLOOR HYDRO ST1-2		GGG 13	54.1N	88 33.2E	S MARALOWT
1622	25/ 2/79		SRSH E SEAFLOOR HYDRO ST1-2		GGG 13	53.7N	88 33.4E	S MARALOWT
0818	25/ 2/79		SRSH B SEAFLOOR HYDRO ST1-3		GGG 13	53.2N	88 33.6E	S MARALOWT
1500	25/ 2/79		SRSH E SEAFLOOR HYDRO ST1-3		GGG 13	52.8N	88 32.2E	S MARALOWT
1049	26/ 2/79		SRSH B SEAFLOOR HYDRO ST2-1		GGG 13	51.6N	88 33.6E	S MARALOWT
1000	27/ 2/79		SRSH E SEAFLOOR HYDRO ST2-1		GGG 13	50.3 N	88 34.0 E	S MARALOWT

GHT D /K /Y		LUC LUC	CODE	SAMPLE IDENT.		CODE	07MAY79		PAGE	5	
TIME	DATE	TIME TZ	SAMP			DISP	LAT.	LONG.		LEG-SHIP	CRUISE
1058	26/ 2/79		SRSH	B	SEAFLOOR HYDRO	ST2-2	GG5 13	51.4N	88	33.6E	S MARALOWT
0012	27/ 2/79		SRSH	E	SEAFLOOR HYDRO	ST2-2	GG5 13	51.3N	88	34.1E	S MARALOWT
1107	26/ 2/79		SRSH	B	SEAFLOOR HYDRO	ST2-3	GG5 13	51.3N	88	33.6E	S MARALOWT
2345	26/ 2/79		SRSH	E	SEAFLOOR HYDRO	ST2-3	GG5 13	51.0N	88	33.8E	S MARALOWT
*** SONOBOUY DRUP ***											
2322	19/ 2/79		SPWA		SONOBOUY	1	GG5 06	00.7N	98	26.4E	S MARALOWT
0055	20/ 2/79		SPWA		SONOBOUY	2	GG5 06	14.9N	98	14.3E	S MARALOWT
0154	20/ 2/79		SPWA		SONOBOUY	3	GG5 06	23.8N	98	06.8E	S MARALOWT
0918	20/ 2/79		SPWA		SONOBOUY	4	GG5 07	30.0N	97	18.8E	S MARALOWT
1053	20/ 2/79		SPWA		SONOBOUY	5	GG5 07	43.3N	97	08.1E	S MARALOWT
1100	20/ 2/79		SPWA		SONOBOUY	6	GG5 07	44.3N	97	07.3E	S MARALOWT
1305	20/ 2/79		SPWA		SONOBOUY	7	GG5 08	02.6N	96	53.8E	S MARALOWT
1405	20/ 2/79		SPWA	X	SONOBOUY	8	GG5 08	12.1N	96	47.0E	S MARALOWT
1408	20/ 2/79		SPWA		SONOBOUY	9	GG5 08	12.5N	96	46.6E	S MARALOWT
2357	20/ 2/79		SPWA		SONOBOUY	10	GG5 09	37.8N	95	31.9E	S MARALOWT
0113	21/ 2/79		SPWA		SONOBOUY	11	GG5 09	41.0N	95	17.5E	S MARALOWT
0533	21/ 2/79		SPWA		SONOBOUY	12	GG5 09	44.6N	94	26.8E	S MARALOWT
1424	21/ 2/79		SPWA		SONOBOUY	13	GG5 09	36.3N	92	42.6E	S MARALOWT
1552	21/ 2/79		SPWA		SONOBOUY	14	GG5 09	46.5N	92	28.6E	S MARALOWT
1627	21/ 2/79		SPWA		SONOBOUY	15	GG5 09	50.3N	92	23.1E	S MARALOWT
1952	21/ 2/79		SPWA		SONOBOUY	16	GG5 10	14.4N	91	55.1E	S MARALOWT
0935	22/ 2/79		SPWA		SONOBOUY	17	GG5 10	48.1N	91	30.3E	S MARALOWT
1003	22/ 2/79		SPWA		SONOBOUY	18	GG5 10	50.0N	91	28.1E	S MARALOWT
1559	22/ 2/79		SPWA		SONOBOUY	19	GG5 11	15.7N	91	00.4E	S MARALOWT
1726	22/ 2/79		SPWA		SONOBOUY	20	GG5 11	22.2N	90	52.7E	S MARALOWT
2141	22/ 2/79		SPWA		SONOBOUY	21	GG5 11	41.7N	90	32.3E	S MARALOWT
2206	22/ 2/79		SPWA		SONOBOUY	22	GG5 11	43.6N	90	30.5E	S MARALOWT
0952	23/ 2/79		SPWA		SONOBOUY	23	GG5 12	38.6N	89	41.0E	S MARALOWT
1337	23/ 2/79		SPWA		SONOBOUY	24	GG5 12	57.3N	89	26.3E	S MARALOWT
1352	23/ 2/79		SPWA		SONOBOUY	25	GG5 12	58.5N	89	25.3E	S MARALOWT
1414	23/ 2/79		SPWA		SONOBOUY	26	GG5 13	00.1N	89	23.8E	S MARALOWT
0212	26/ 2/79		SPWA		SONOBOUY	27	GG5 13	55.1N	88	33.3E	S MARALOWT
0349	26/ 2/79		SPWA		SONOBOUY	28	GG5 14	06.3N	88	33.3E	S MARALOWT
0808	26/ 2/79		SPWA		SONOBOUY	29	GG5 13	50.7N	88	43.7E	S MARALOWT
2048	26/ 2/79		SPWA		SONOBOUY	30	GG5 13	50.6N	88	37.0E	S MARALOWT
2048	26/ 2/79		SPWA		SONOBOUY	31	GG5 13	50.3N	88	32.7E	S MARALOWT
2015	28/ 2/79		SPWA		SONOBOUY	32	GG5 08	30.2N	88	05.4E	S MARALOWT
2151	28/ 2/79		SPWA		SONOBOUY	33	GG5 08	26.6N	88	15.4E	S MARALOWT
2208	28/ 2/79		SPWA		SONOBOUY	34	GG5 08	25.9N	88	17.3E	S MARALOWT
0009	1/ 3/79		SPWA	X	SONOBOUY	35	GG5 08	20.5N	88	30.2E	S MARALOWT
0023	1/ 3/79		SPWA		SONOBOUY	36	GG5 08	19.9N	88	32.4E	S MARALOWT
0210	1/ 3/79		SPWA		SONOBOUY	37	GG5 08	15.2N	88	44.6E	S MARALOWT
0430	1/ 3/79		SPWA		SONOBOUY	38	GG5 08	08.6N	88	54.2E	S MARALOWT
0755	1/ 3/79		SPWA		SONOBOUY	39	GG5 07	59.3N	89	21.2E	S MARALOWT
0810	1/ 3/79		SPWA		SONOBOUY	40	GG5 07	58.7N	89	22.8E	S MARALOWT
0831	1/ 3/79		SPWA	X	SONOBOUY	41	GG5 07	57.7N	89	25.2E	S MARALOWT
0844	1/ 3/79		SPWA		SONOBOUY	42	GG5 07	57.1N	89	26.6E	S MARALOWT
1606	1/ 3/79		SPWA		SONOBOUY	43	GG5 07	42.1N	90	11.1E	S MARALOWT
0030	2/ 3/79		SPWA		SONOBOUY	44	GG5 07	15.4 N	91	32.3 E	S MARALOWT

GMT D / M / Y TIME DATE	LOC LOC TIME TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
0317	2/ 3/79	SPWA	SUNUBUUY 45	GG5 07	09.0N	92 02.0E	S MARA10WT
0337	2/ 3/79	SPWA	SUNUBUUY 46	GG5 07	08.3N	92 06.0E	S MARA10WT
0815	3/ 3/79	SPWA	SUNUBUUY 47	GG5 06	05.3N	96 23.7E	S MARA10WT
0942	3/ 3/79	SPWA	SUNUBUUY 48	GG5 06	03.2N	96 33.2E	S MARA10WT
1027	3/ 3/79	SPWA	SUNUBUUY 49	GG5 06	02.3N	96 38.0E	S MARA10WT
1923	3/ 3/79	SPWA	SUNUBUUY 50	GG5 05	56.5N	97 39.3E	S MARA10WT
0744	8/ 3/79	SPWA	SUNUBUUY 51	GG5 06	26.5N	114 04.7E	S MARA10WT
1002	8/ 3/79	SPWA	SUNUBUUY 52	GG5 06	37.3N	114 16.0E	S MARA10WT
1003	8/ 3/79	SPWA	SUNUBUUY 53	GG5 06	37.3N	114 16.1E	S MARA10WT
1112	8/ 3/79	SPWA X	SUNUBUUY 54 BAD	GG5 06	43.4N	114 21.6E	S MARA10WT
1237	8/ 3/79	SPWA	SUNUBUUY 55	GG5 06	51.1N	114 27.9E	S MARA10WT
1240	8/ 3/79	SPWA	SUNUBUUY 56	GG5 06	51.4N	114 28.2E	S MARA10WT

*** CORES ***

1830	25/ 2/79	COG	GRAVITY CORE 16	29	GCR 13	51.3N	88 33.3E	S MARA10WT
2050	25/ 2/79	COG	GRAVITY CORE 17	29	GCR 13	52.7N	88 33.5E	S MARA10WT
0036	26/ 2/79	COG	GRAVITY CORE 18	29	GCR 13	55.1N	88 32.7E	S MARA10WT

OPEN NET

2105	21/ 2/79	ONIM B	PLANKTON TOW 1 METER	MIC 10	16.5N	91 54.8E	S MARA10WT
2120	21/ 2/79	ONIM E	PLANKTON TOW 1 METER	MIC 10	16.4N	91 54.8E	S MARA10WT

DIPNET

0000	22/ 2/79	DNVT	DIP NET 1	MVC 10	15.2N	91 56.4E	S MARA10WT
1320	24/ 2/79	DNVT	DIP NET 2	MVC 14	04.3N	88 20.6E	S MARA10WT

9900 END SAMPLE INDEX

MARA10WT