INFORMAL REPORT AND INDEX OF

NAVIGATION, DEPTH, MAGNETIC AND SUBBOTTOM PROFILER DATA

(Issued May 1979)

MARIANA EXPEDITION

LEG 9

Agana, Guam (4 January 1979)
to
Djakarta, Indonesia (10 February 1979)

R/V T. Washington

Chief Scientist - E. Silver (Univ. of Cal., Santa Cruz)

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 OCE78-08693
Data Processing Funded by SIA, NSF and ONR

GDC Cruise I.D.# - 176

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.

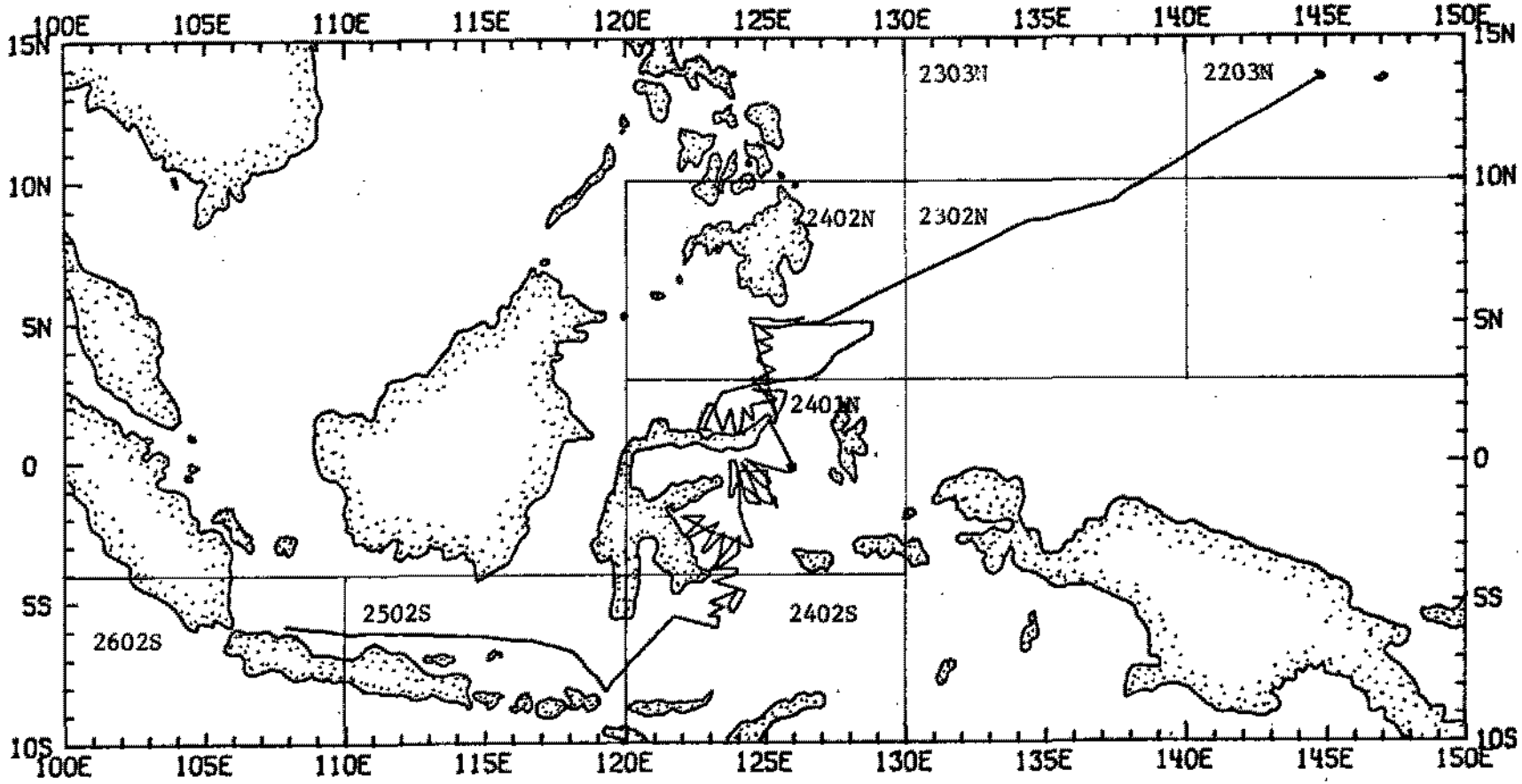
6. Microfilm or Xerox copies of:

   a. Echosounder records - 12 and 3.5 kHz frequency

   b. Subbottom profiler records (airgun)

   c. Magnetometer records

   d. Underway Data Log



MARIANA EXPEDITION LEG 9

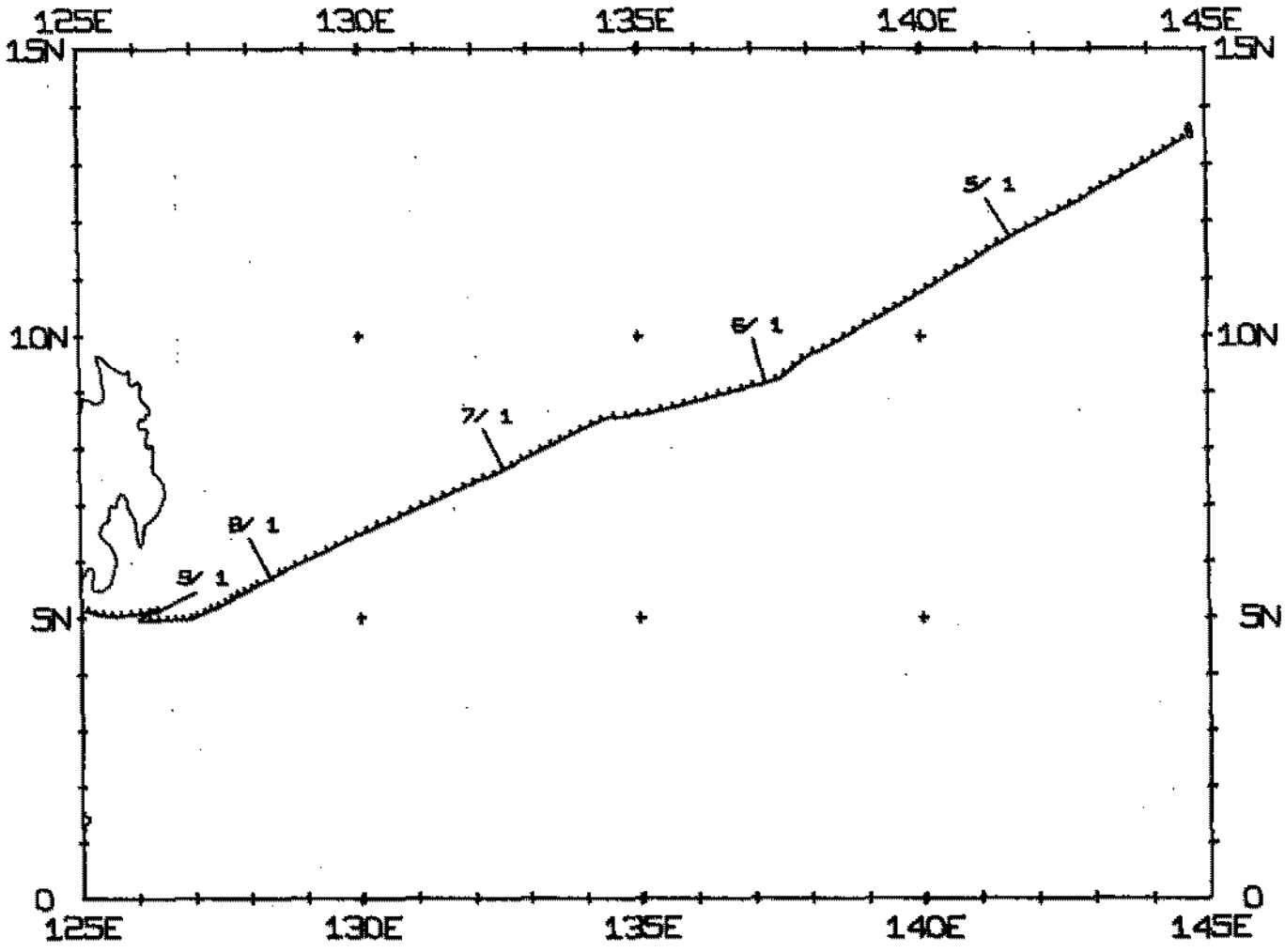
Chief Scientist - E. Silver (Univ. of Cal., Santa Cruz)
Ports - Agana, Guam to Djakarta, Indonesia
Dates - 4 January to 10 February 1979
Ship - R/V T. Washington

TOTAL MILEAGE

1) Cruise - 7222 miles
2) Bathymetry - 7137 miles
3) Magnetics - 6217 miles
4) Seismic Reflection - 4776 miles
5) Gravity - collected

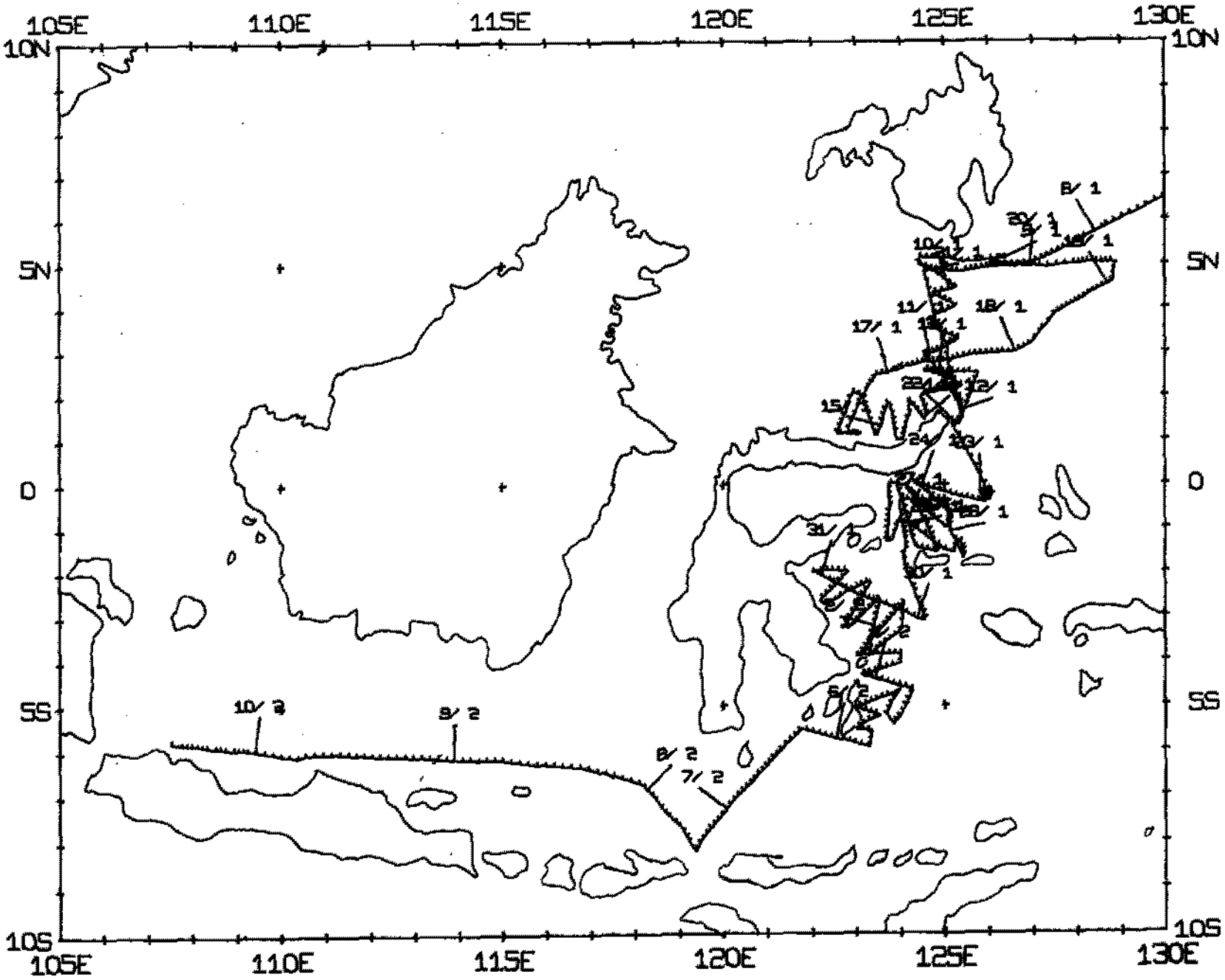
MARA09WT TRACK PLOT (1 OF 2)

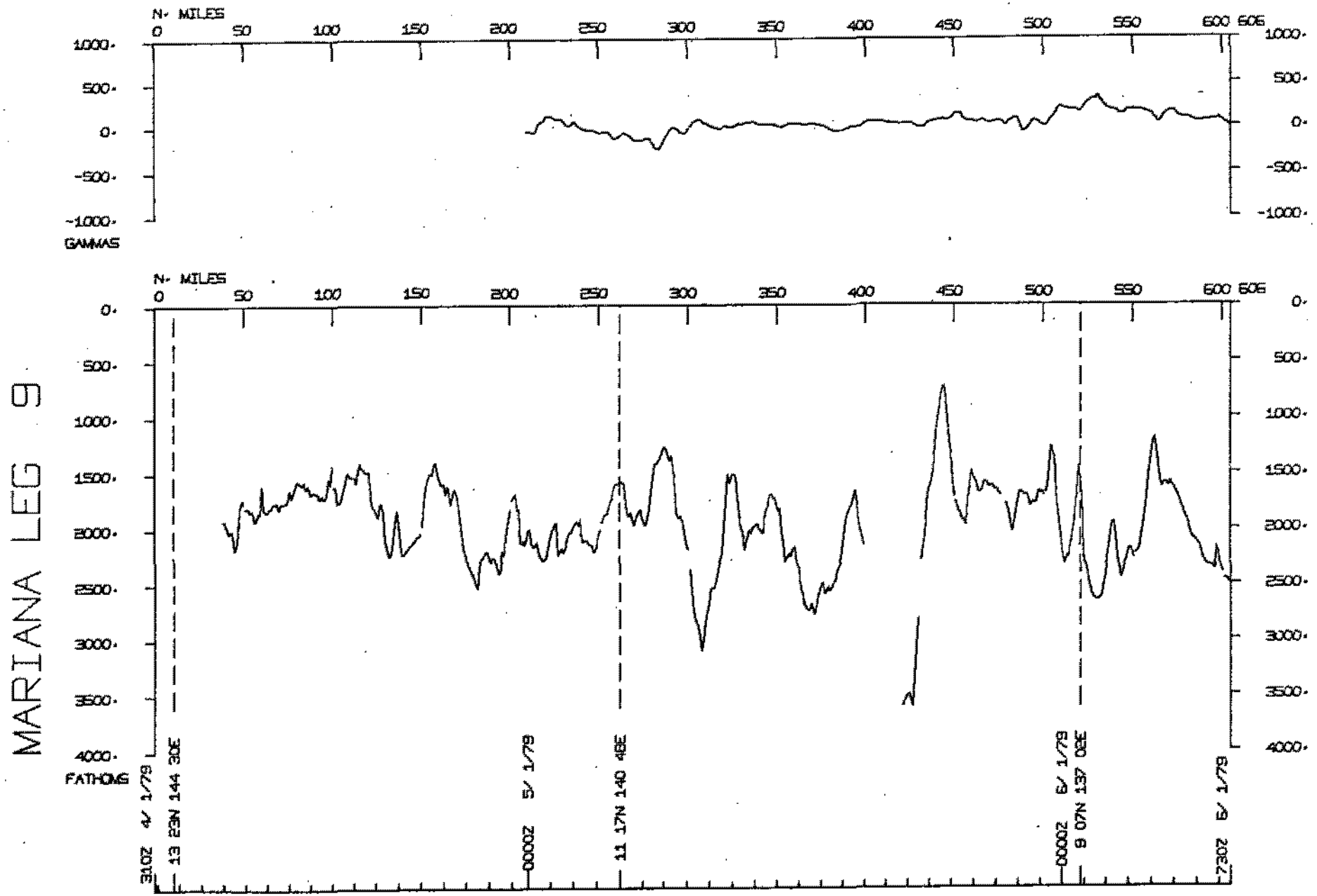
MERCATOR PROJECTION, SCALE= 0.312 IN/DEG LONGITUDE



MARA09WT TRACK PLOT (2 OF 2)

MERCATOR PROJECTION, SCALE= 0·312 IN/DEG LONGITUDE

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0
-500
-1000
GAMMAS
FATHOMS
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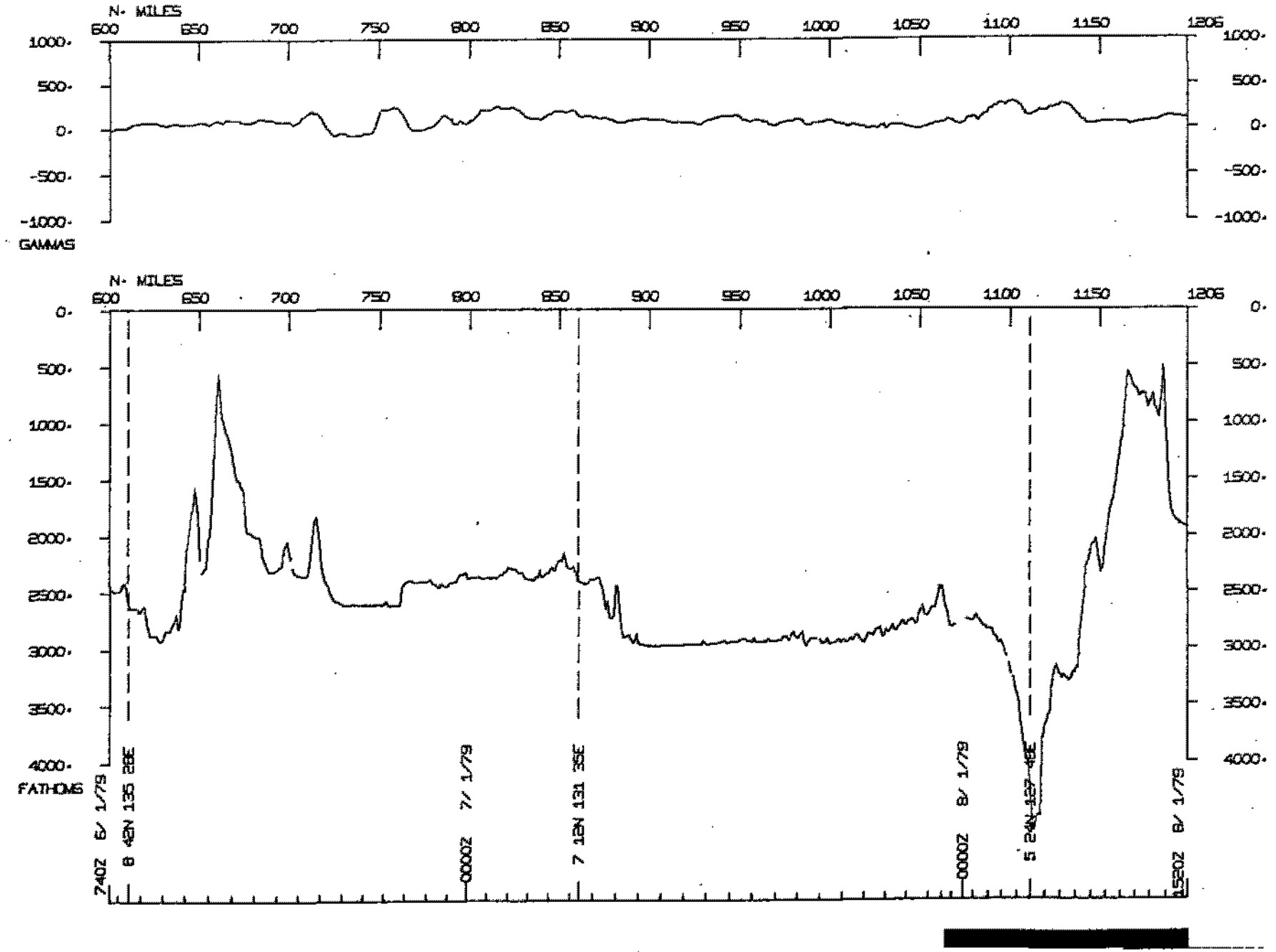
13 23N 144 30E
00002 5/ 1/79
11 17N 140 48E
00002 6/ 1/79
9 07N 137 02E
7302 6/ 1/79



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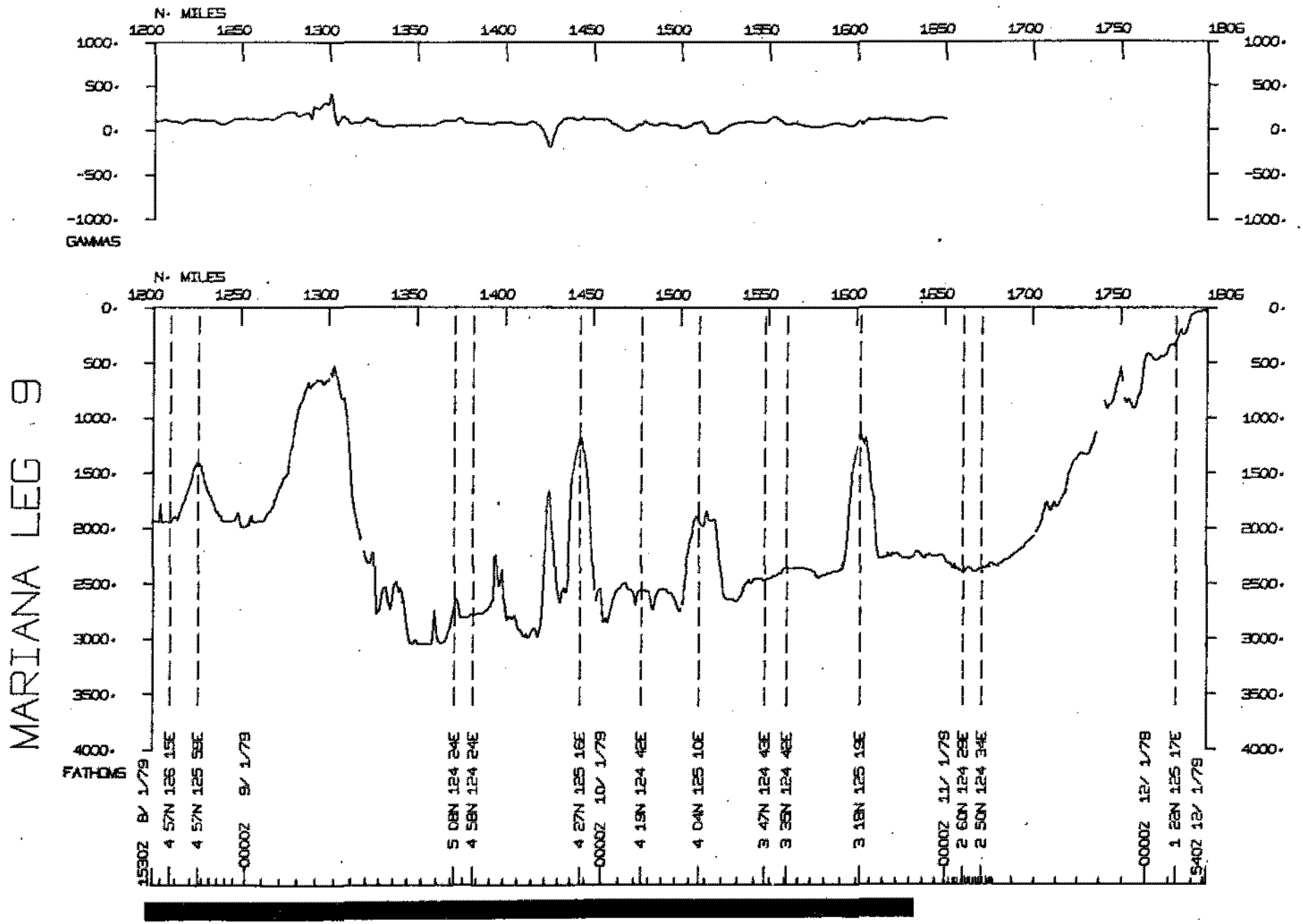
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500
0
-500
-1000
GAMMAS
FATHOMS
0
500
1000
1500
2000
2500
3000
3500
4000
15302 8/ 1/79
4 57N 126 15E
4 57N 125 53E
00002 9/ 1/79
5 08N 124 24E
4 58N 124 24E
4 27N 125 16E
00002 10/ 1/79
4 19N 124 42E
4 04N 125 10E
3 47N 124 43E
3 35N 124 42E
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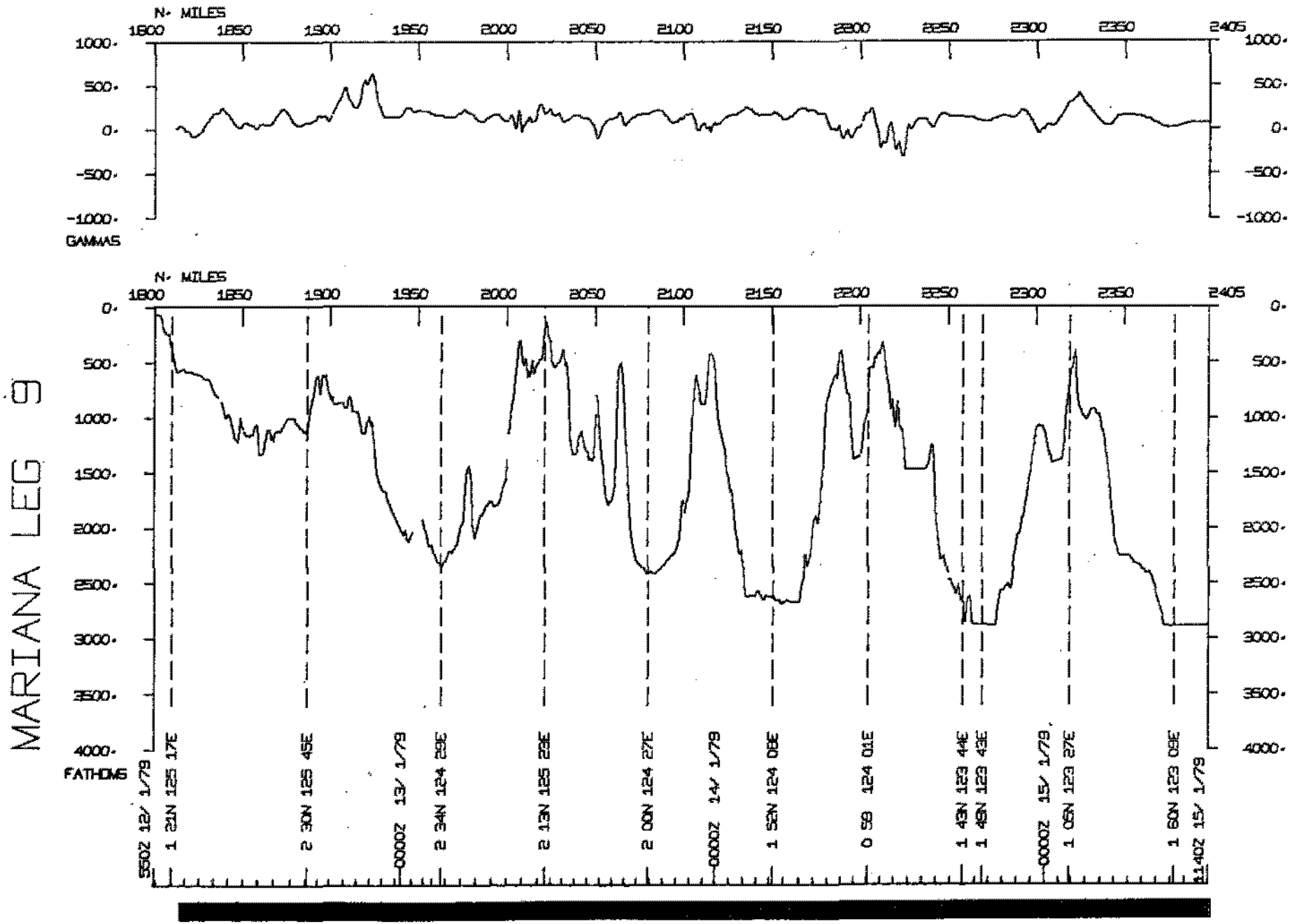
5402 12/ 1/79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FATHOMS
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2 30N 125 45E
00002 13/ 1/79
2 34N 124 23E
2 13N 125 23E
2 00N 124 27E
00002 14/ 1/79
1 52N 124 08E
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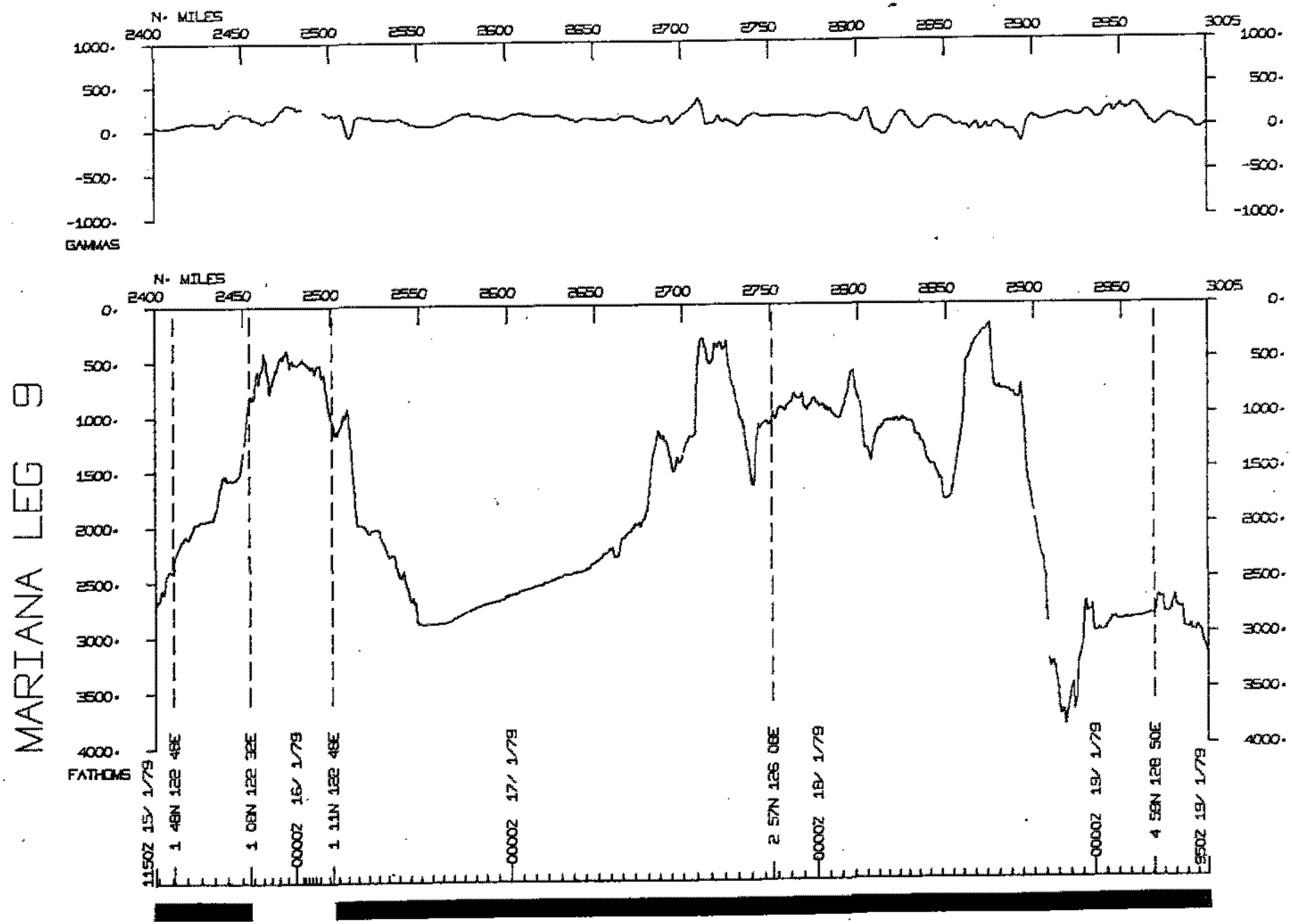
1402 15/ 1/79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FATHOMS
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1 08N 122 32E
1 11N 122 48E
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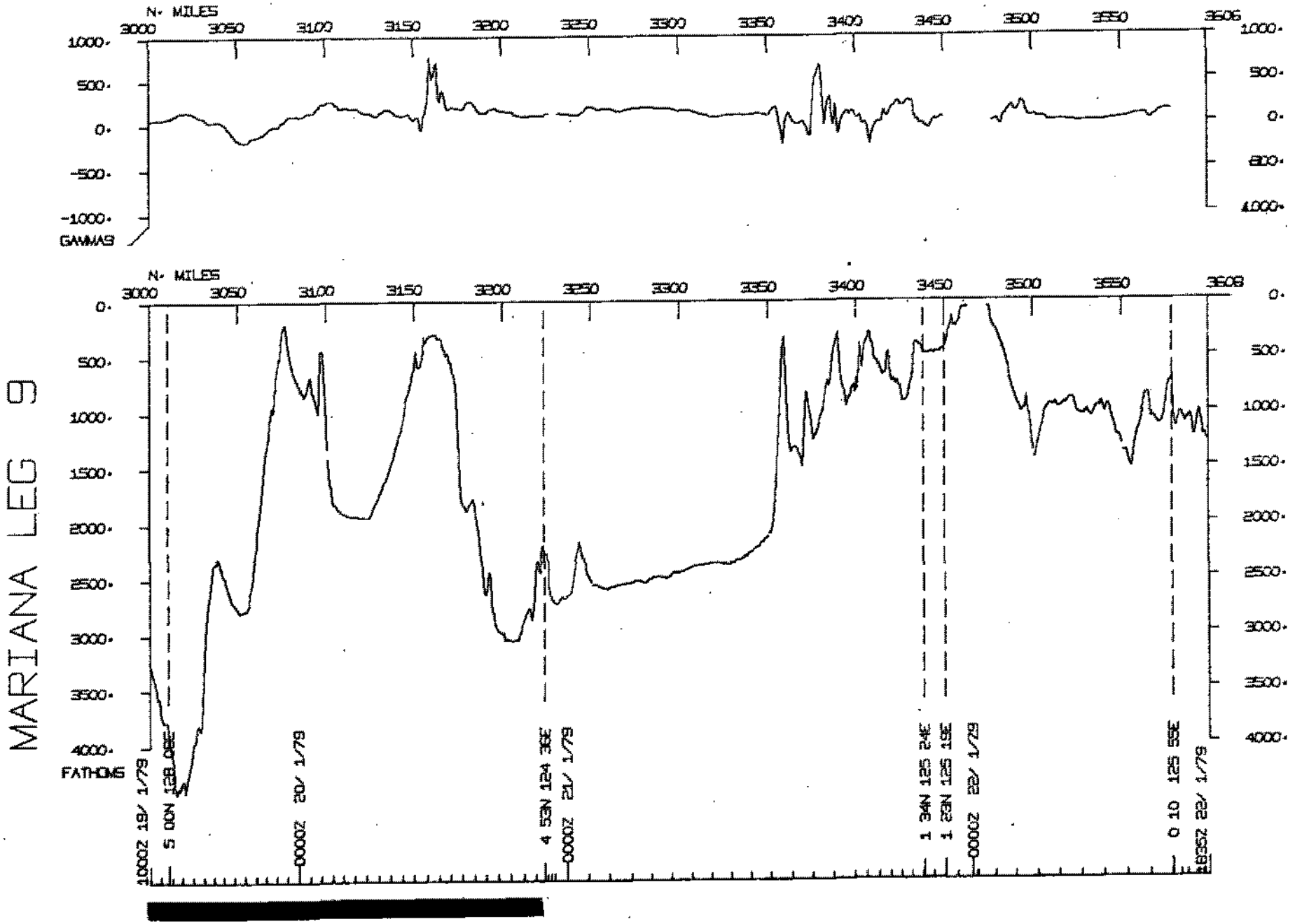
4 58N 128 50E



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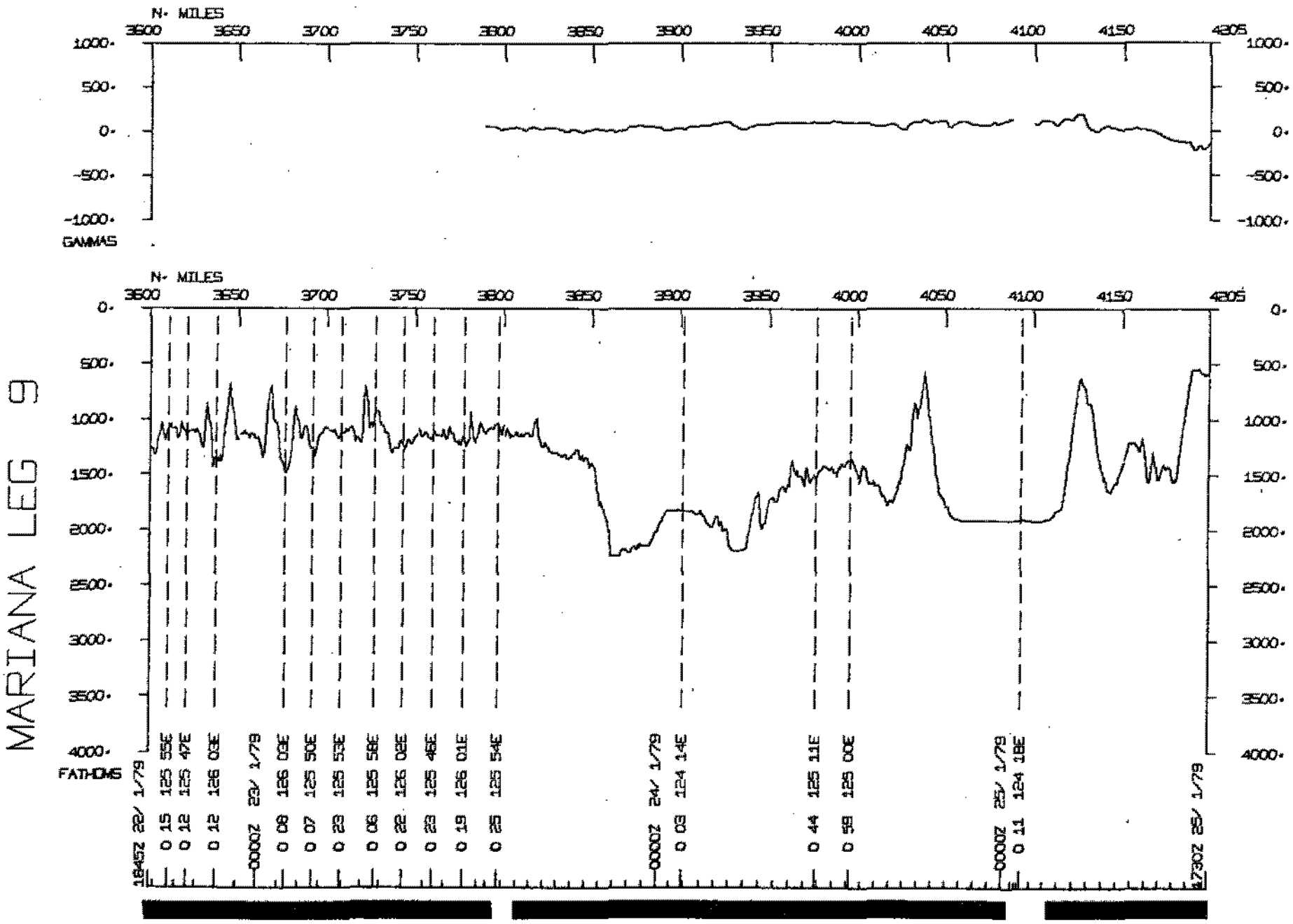
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GAMMAS
FATHOMS
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3000
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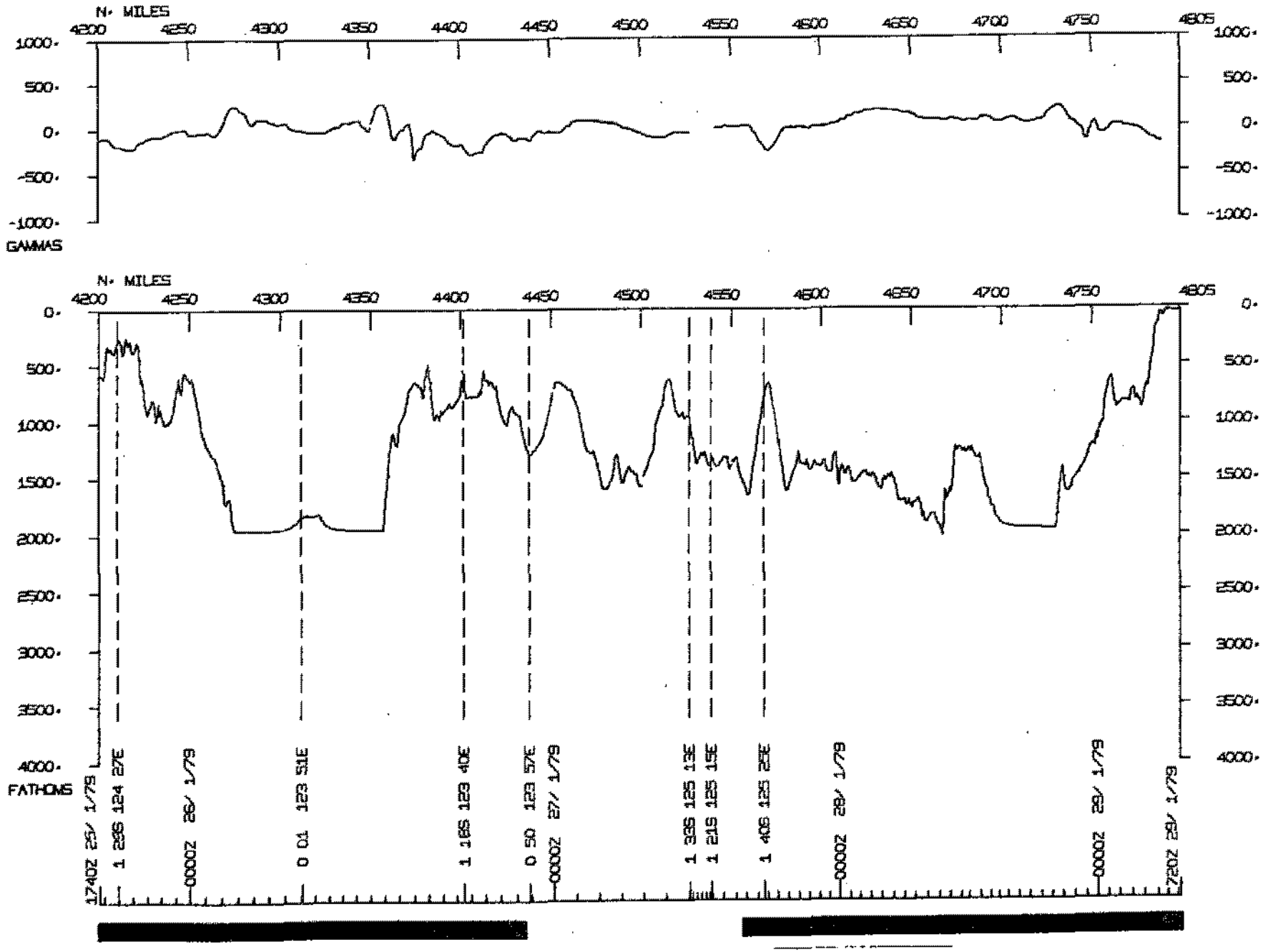
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1000
500
0
-500
-1000
GAMMAS
FATHOMS
1500
2000
2500
3000
3500
4000
17402 25/ 1/79
1 295 124 27E
00002 26/ 1/79
0 01 123 51E
1 165 129 40E
0 50 123 57E
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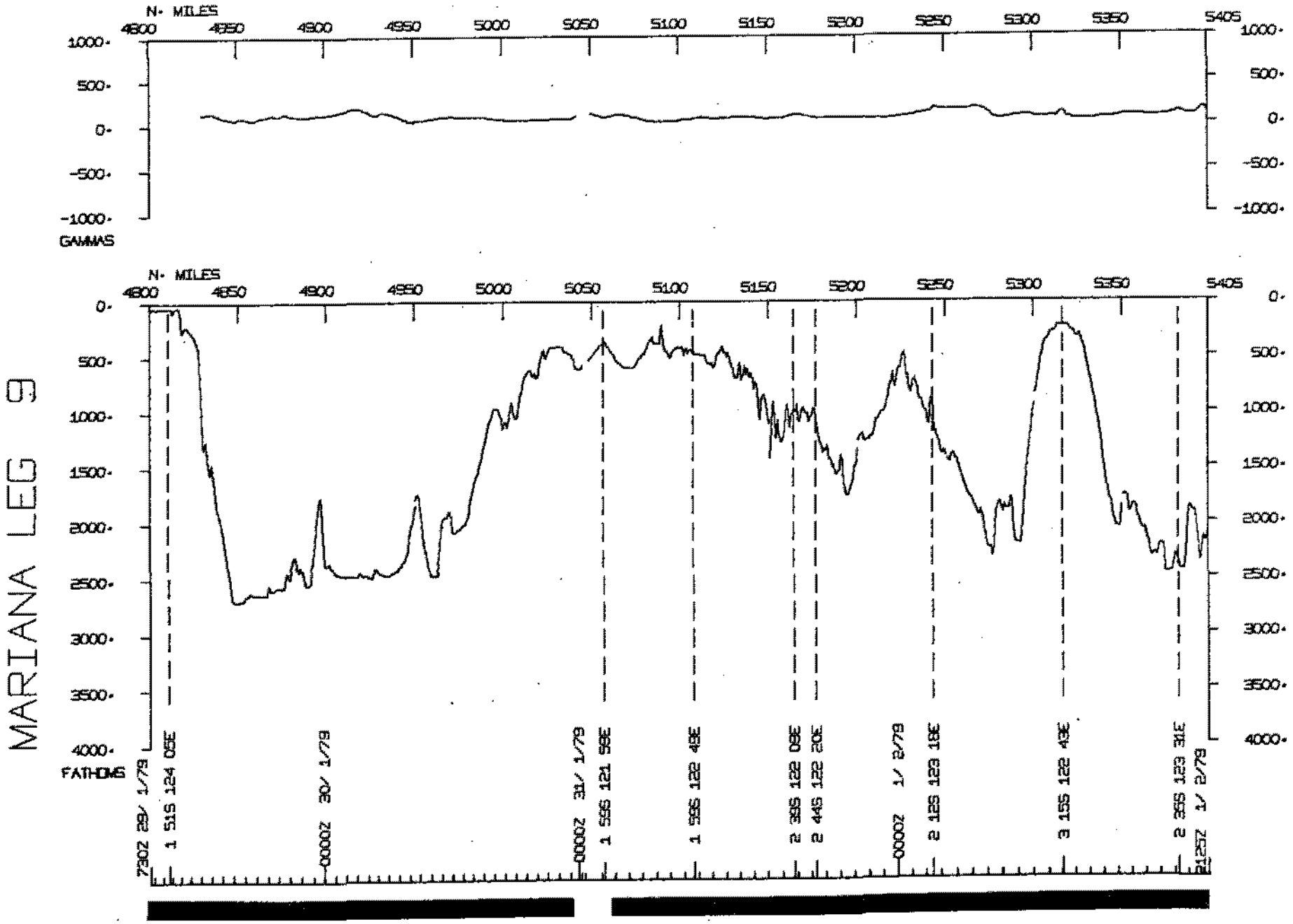
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0 500 1000 1500 2000 2500 3000 3500 4000
FATHOMS
2302 29/ 1/79
1 515 124 05E
00002 30/ 1/79
00002 31/ 1/79
1 556 121 58E
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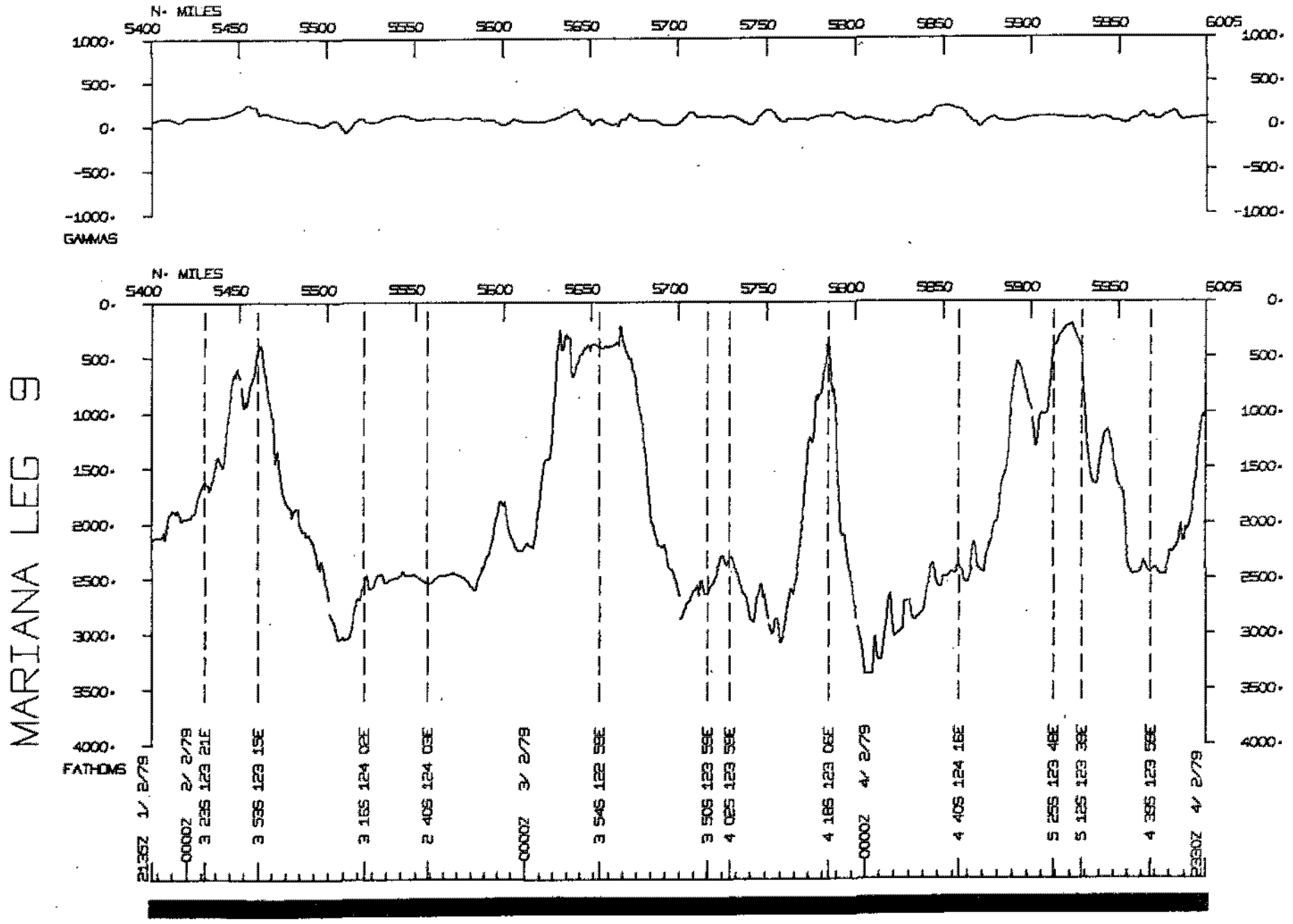
21257 1/ 2/79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5950
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1000
500
0
-500
-1000
GAMMAS
FATHOMS
1500
2000
2500
3000
3500
4000
21352 1/ 2/79
00002 2/ 2/79
3 235 123 21E
3 535 123 15E
3 165 124 02E
2 405 124 03E
00007 3/ 2/79
3 545 122 55E
3 505 123 55E
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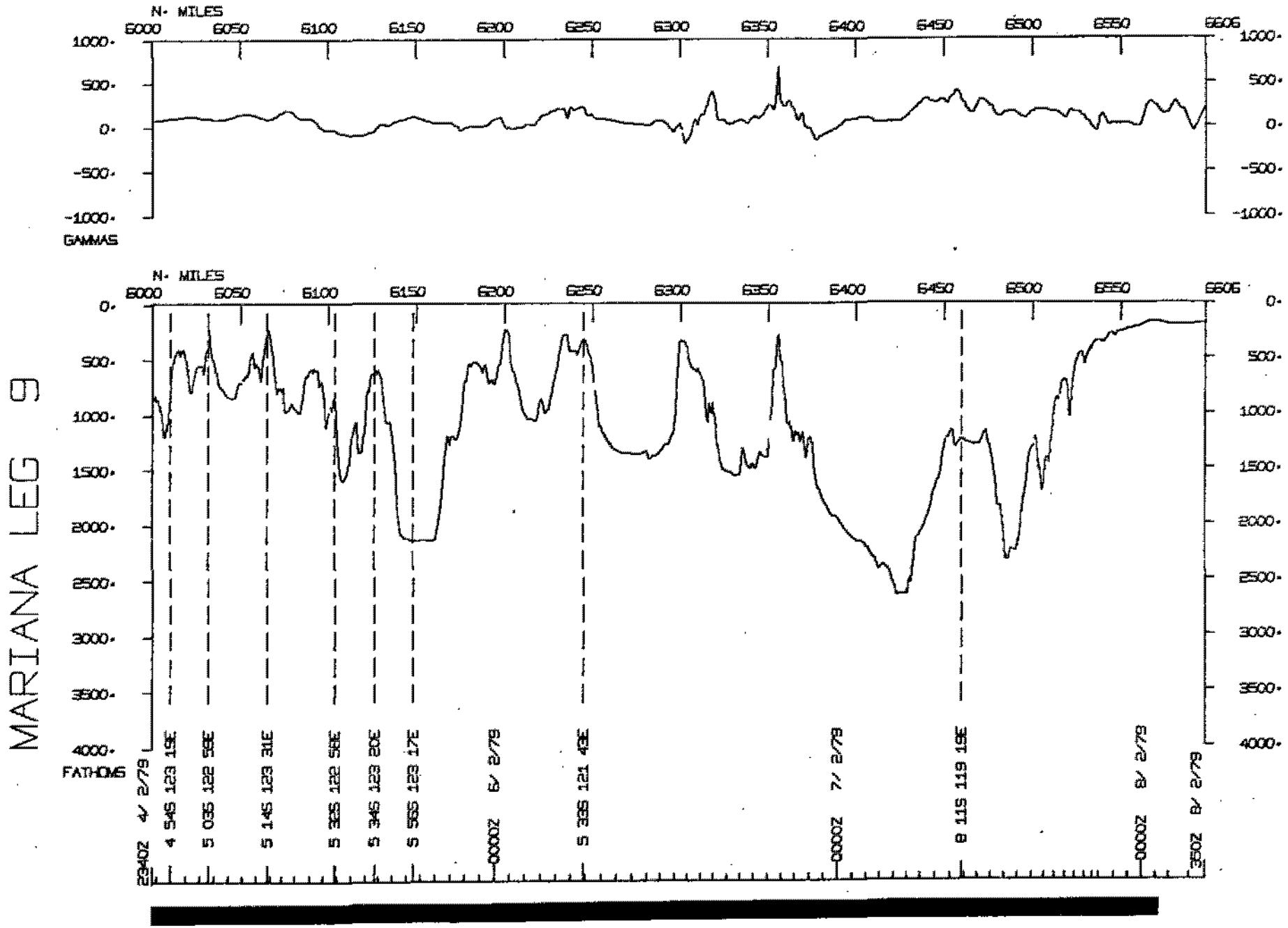
23302 4/ 2/79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GAMMAS
FATHOMS
1500
2000
2500
3000
3500
4000
4 546 123 15E
5 035 122 58E
5 145 123 31E
5 325 122 58E
5 346 123 20E
5 565 123 17E
5 335 121 43E
8 115 119 15E
4/ 2/79
6/ 2/79
7/ 2/79
8/ 2/79

MARIANA LEG 9

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S.I.O. SAMPLE INDEX

(Issued May 1979)

MARIANA EXPEDITION

LEG 9

Agana, Guam (4 January 1979)
to
Djakarta, Indonesia (10 February 1979)

Chief Scientist - E. Silver (Univ. of Cal., Santa Cruz)

Resident Marine Tech - R. Comer

R/V T. Washington

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

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.)

S.I.O. SAMPLE INDEX GENERATED 04MAY79

*** MARIANA LEG 9 SAMPLE INDEX (MARA09WT) ***

04JAN79 - AGANA, GUAM

TO

10FEB79 - DJAKARTA, INDONESIA

CHIEF SCIENTIST - ELI SILVER UCC

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	DP	GV	LB	MG	PE	SP	
GDC		9		1	4		1	14
IDO						3		3
LMD			4				1	4
MTG						1	1	1
SCG						2	2 1	4
SGG						2	1	2
SIX						2	1	2
UCC	3					4	11 1	18
TOTAL	3	9	4	1	4	14	13 1	48

SAMPLE 'TYPE' CODES USED ABOVE

BU = BUOY (OCEANOGRAPHIC) REPLACED TYPE RB MAR. 74
DP = DEPTH
GV = GRAVITY
LB = LOG BOOKS
MG = MAGNETICS (TOWED VEHICLE, SURFACE, TOTAL FIELD)
PE = PERSONNEL IN SCIENTIFIC PARTY
SP = SEISMIC REFLECTION PROFILE AIRGUN

SAMPLE 'DISP' CODES USED ABOVE

GDC = GEOLOGICAL DATA CENTER -- S. SMITH (EXT. 2752)
IDO = INDONESIAN
LMD = LEROY M. DORMAN (EXT. 2406)
MTG = MARINE TECHNOLOGY GROUP (EXT 4194)
SCG = SHIPBOARD COMPUTER GROUP (EXT. 4195)
SGG = SHIPBOARD GEOPHYSICAL GROUP--P. CRAMPTON (EXT.2079)
SIX = SCRIPPS INSTITUTION NON-EMPLOYEE -(CONTACT DORCAS UTTER EXT. 2356)
UCC = UNIV. CALIF. SANTA CRUZ

GMT TIME	D /M /Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.		LEG-SHIP CRUISE
					MARIANA LEG 9 SAMPLE INDEX					MARA09WT
*** PORTS ***										
0711	4/ 1/79			LGPT B	AGANA, GUAM		13 27. N	144 37. E	F	MARA09WT
0800	10/ 2/79			LGPT E	DJAKARTA, INDONESIA		06 07. S	106 48. E	F	MARA09WT
0300	12/ 1/79			LGSS B	BITUNG, INDONESIA		01 25. N	125 10. E	F	MARA09WT
0530	12/ 1/79			LGSS E	BITUNG, INDONESIA		01 25. N	125 10. E	F	MARA09WT
0005	22/ 1/79			LGUS B	BITUNG, SULAWESI, IN		01 25. N	125 10. E	F	MARA09WT
0436	22/ 1/79			LGUS E	BITUNG, SULAWESI, IN		01 25. N	125 10. E	F	MARA09WT

PERSONNEL

*** NAME ***	*** TITLE ***	*** AFFILIATION ***
1 ELI SILVER	PROFFESSOR	UNIV. CALIF. SANTA CRUZ
2 RONALD COMER	RESIDENT TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
3 J. LYNN ABBOTT	PR DVLMT ENGR	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
4 PERRY CRAMPTON	ASSO DVLMT ENGR	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
5 ART BURKHALTER	COMPUTER TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
6 FRANK MUBENKA	AIRGUN TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
7 RUBIN NEWMARK	RES ASSIST	UNIV. CALIF. SANTA CRUZ
8 LAURIE BROWN	STUDENT	UNIV. CALIF. SANTA CRUZ
9 RANDALL SMITH	STUDENT	UNIV. CALIF. SANTA CRUZ
10 SANDRA SMITH	DOCTOR-GEOPHYSIC	SCRIPPS INSTITUTION NON-EMPLOYEE -(CONTACT DORCAS UTTER EXT. 235
11 SUSAN TANNER	STUDENT	SCRIPPS INSTITUTION NON-EMPLOYEE -(CONTACT DORCAS UTTER EXT. 235
12 SUGIARTA	GEOLOGIST	INDONESIAN
13 SOFJAN KAWI	MAJOR	INDONESIAN
14 SUMANTRI TANRIR	GEOLOGIST	INDONESIAN

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	LOC TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
UNDERWAY DATA CURATOR - STUART M. SMITH (EXT.2752)								
*** LOG BOOKS ***								
1010 4/ 1/79			LBUW B	UNDERWAY WATCH	GDC	13 07.5N	144 04.5E	S MARA09WT
1330 10/ 2/79			LBUW E	UNDERWAY WATCH	GDC	05 50.6S	107 53.8E	S MARA09WT
*** BATHOGRAMS ***								
1010 4/ 1/79			DPR3 B	UGR 3.5 KHZ R-01	GDC	13 07.5N	144 04.5E	S MARA09WT
1530 6/ 1/79			DPR3 E	UGR 3.5 KHZ R-01	GDC	08 22.9N	134 02.1E	S MARA09WT
1542 6/ 1/79			DPR3 B	UGR 3.5 KHZ R-02	GDC	08 21.9N	133 59.8E	S MARA09WT
0310 12/ 1/79			DPR3 E	UGR 3.5 KHZ R-02	GDC	01 26.0N	125 10.7E	S MARA09WT
0530 12/ 1/79			DPR3 B	UGR 3.5 KHZ R-03	GDC	01 25.7N	125 09.7E	S MARA09WT
2002 16/ 1/79			DPR3 E	UGR 3.5 KHZ R-03	GDC	02 18.8N	123 21.5E	S MARA09WT
2024 16/ 1/79			DPR3 B	UGR 3.5 KHZ R-04	GDC	02 20.8N	123 22.7E	S MARA09WT
0005 22/ 1/79			DPR3 E	UGR 3.5 KHZ R-04	GDC	01 25.5N	125 09.8E	S MARA09WT
0436 22/ 1/79			DPR3 B	UGR 3.5 KHZ R-05	GDC	01 22.0N	125 09.1E	S MARA09WT
0145 27/ 1/79			DPR3 E	UGR 3.5 KHZ R-05	GDC	01 06.9S	124 28.2E	S MARA09WT
0201 27/ 1/79			DPR3 B	UGR 3.5 KHZ R-06	GDC	01 08.8S	124 30.9E	S MARA09WT
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0204 31/ 1/79			DPR3 B	UGR 3.5 KHZ R-07	GDC	02 03.2S	122 08.4E	S MARA09WT
1318 4/ 2/79			DPR3 E	UGR 3.5 KHZ R-07	GDC	05 23.0S	123 46.1E	S MARA09WT
1336 4/ 2/79			DPR3 B	UGR 3.5 KHZ R-08	GDC	05 21.0S	123 44.6E	S MARA09WT
1345 8/ 2/79			DPR3 E	UGR 3.5 KHZ R-08	GDC	06 18.9S	115 47.7E	S MARA09WT
1358 8/ 2/79			DPR3 B	UGR 3.5 KHZ R-09	GDC	06 18.7S	115 45.1E	S MARA09WT
1330 10/ 2/79			DPR3 E	UGR 3.5 KHZ R-09	GDC	05 50.6S	107 53.8E	S MARA09WT
*** MAGNETOMETER ***								
2355 4/ 1/79			MGR B	MAGNETICS R-01	GDC	11 43.8N	141 34.6E	S MARA09WT
2333 10/ 1/79			MGR E	MAGNETICS R-01	GDC	02 56.9N	124 39.4E	S MARA09WT
0716 12/ 1/79			MGR B	MAGNETICS R-02	GDC	01 21.6N	125 19.0E	S MARA09WT
0025 25/ 1/79			MGR E	MAGNETICS R-02	GDC	00 11.3S	124 11.3E	S MARA09WT
0510 25/ 1/79			MGR B	MAGNETICS R-03	GDC	00 11.9S	124 13.0E	S MARA09WT
0335 6/ 2/79			MGR E	MAGNETICS R-03	GDC	05 37.2S	122 02.3E	S MARA09WT
0345 6/ 2/79			MGR B	MAGNETICS R-04	GDC	05 36.9S	122 00.9E	S MARA09WT
1110 8/ 2/79			MGR E	MAGNETICS R-04	GDC	06 21.1S	116 17.9E	S MARA09WT

GMT TIME	D /M /Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.		LEG-SHIP CRUISE
GRAVIMETRIC RECORDS CURATOR L.M. DORMAN (EXT.2406)										
1330	7/ 1/79			GVR B	GRAVITY R-01	LMD	06 30.5N	130 01.2E	S	MAKAU9WT
0531	15/ 1/79			GVR E	GRAVITY R-01	LMD	01 31.2N	123 15.5E	S	MAKAU9WT
0535	15/ 1/79			GVR B	GRAVITY R-02	LMD	01 31.7N	123 15.3E	S	MAKAU9WT
0139	24/ 1/79			GVR E	GRAVITY R-02	LMD	00 03.4N	124 15.9E	S	MAKAU9WT
0142	24/ 1/79			GVR B	GRAVITY R-03	LMD	00 03.5N	124 15.5E	S	MAKAU9WT
0505	3/ 2/79			GVR E	GRAVITY R-03	LMD	03 52.7S	123 01.5E	S	MAKAU9WT
0511	3/ 2/79			GVR B	GRAVITY R-04	LMD	03 53.3S	123 00.9E	S	MAKAU9WT
0130	11/ 2/79			GVR E	GRAVITY R-04	LMD	05 47.1S	107 29.0E	S	MAKAU9WT
*** SEISMIC REFLECTION PROFILES ***										
2242	7/ 1/79			SPRV B	PSR1 R-01	UCC	05 46.4N	128 29.6E	S	MAKAU9WT
2116	10/ 1/79			SPRV E	PSR1 R-01	UCC	03 03.6N	124 54.6E	S	MAKAU9WT
0713	12/ 1/79			SPRV B	PSR1 R-02	UCC	01 21.6N	125 18.6E	S	MAKAU9WT
2017	~~22~~ 20/ 1/79			SPRV E	PSR1 R-02	UCC	~~00 15.7S 125 47.7E~~ 4 52.4N 124 37.5E		S	MAKAU9WT
2025	22/ 1/79			SPRV B	PSR1 R-03	UCC	00 14.4S	125 47.5E	S	MAKAU9WT
1537	1/ 2/79			SPRV E	PSR1 R-03	UCC	02 56.1S	123 10.6E	S	MAKAU9WT
1546	1/ 2/79			SPRV B	PSR1 R-04	UCC	02 55.3S	123 11.4E	S	MAKAU9WT
0101	8/ 2/79			SPRV E	PSR1 R-04	UCC	06 46.6S	118 08.9E	S	MAKAU9WT
2243	7/ 1/79			SPRV B	PSR2 R-01	UCC	05 46.4N	128 29.5E	S	MAKAU9WT
1836	15/ 1/79			SPRV E	PSR2 R-01	UCC	01 08.5N	122 32.6E	S	MAKAU9WT
0702	16/ 1/79			SPRV B	PSR2 R-02	UCC	01 10.5N	122 48.9E	S	MAKAU9WT
0137	30/ 1/79			SPRV E	PSR2 R-02	UCC	03 00.0S	124 13.3E	S	MAKAU9WT
0145	30/ 1/79			SPRV B	PSR2 R-03	UCC	02 59.7S	124 12.6E	S	MAKAU9WT
2341	6/ 2/79			SPRV E	PSR2 R-03	UCC	07 15.7S	120 04.6E	S	MAKAU9WT
2353	6/ 2/79			SPRV B	PSR2 R-04	UCC	07 17.1S	120 03.6E	S	MAKAU9WT
0101	8/ 2/79			SPRV E	PSR2 R-04	UCC	06 46.6S	118 08.9E	S	MAKAU9WT
*** SEISMIC REFLECTION SURVEY ***										
1820	22/ 1/79			SPS B	SURVEY	UCC	00 16.5S	126 01.2E	S	MAKAU9WT
1117	23/ 1/79			SPS E	SURVEY	UCC	00 15.8S	125 53.9E	S	MAKAU9WT

GMT D /M /Y TIME DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
MULTI-CHANNEL SEISMIC LINE								
0833 16/01/79			SPML B	MULTICHANNEL RUN-01	UCC 01	18.0N 122	50.6E S	MAKA09WT
2018 20/ 1/79			SPML E	MULTICHANNEL RUN-01	UCC 04	52.3N 124	38.5E S	MAKA09WT
1730 27/01/79			SPML B	MULTICHANNEL RUN-02	UCC 01	38.9S 125	22.8E S	MAKA09WT
2330 30/ 1/79			SPML E	MULTICHANNEL RUN-02	UCC 02	05.8S 122	13.8E S	MAKA09WT
MULTI-CHANNEL DIGITAL SEISMIC TAPE								
0833 16/ 1/79			SPMT B	DIGITAL TAPES 1-41	SCG 01	18.0N 122	50.6E S	MAKA09WT
2015 20/ 1/79			SPMT E	DIGITAL TAPES 1-41	SCG 04	52.2N 124	38.8E S	MAKA09WT
1730 27/ 1/79			SPMT B	DIGITAL TAPES 42-84	SCG 01	38.9S 125	22.8E S	MAKA09WT
2330 30/ 1/79			SPMT E	DIGITAL TAPES 42-84	SCG 02	05.8S 122	13.8E S	MAKA09WT
*** BUOY ***								
1430 22/ 1/79			BUR	RADAR MARKER BUOY 01	UCC 00	11.0S 125	55.4E S	MAKA09WT
1625 22/ 1/79			BUR	RADAR MARKER BUOY 02	UCC 00	16.3S 125	52.3E S	MAKA09WT
1803 22/ 1/79			BUR	RADAR MARKER BUOY 03	UCC 00	16.3S 126	00.1E S	MAKA09WT
9900				END SAMPLE INDEX				MAKA09WT