

INFORMAL REPORT AND INDEX OF
NAVIGATION, DEPTH, MAGNETIC AND SUBBOTTOM PROFILER DATA
(ISSUED JUNE 1981)

RAMA EXPEDITION

LEG 12

Cebu City, Philippines (30 March 1981)
to
Agana, Guam (5 May 1981)

R/V T. Washington

Chief Scientist - E. A. Silver (UCSC)

Resident Marine Tech - W. Keith

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

Data Collection Funded by NSF
Grant Number OCE80-24472
Data Processing Funded by NSF

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

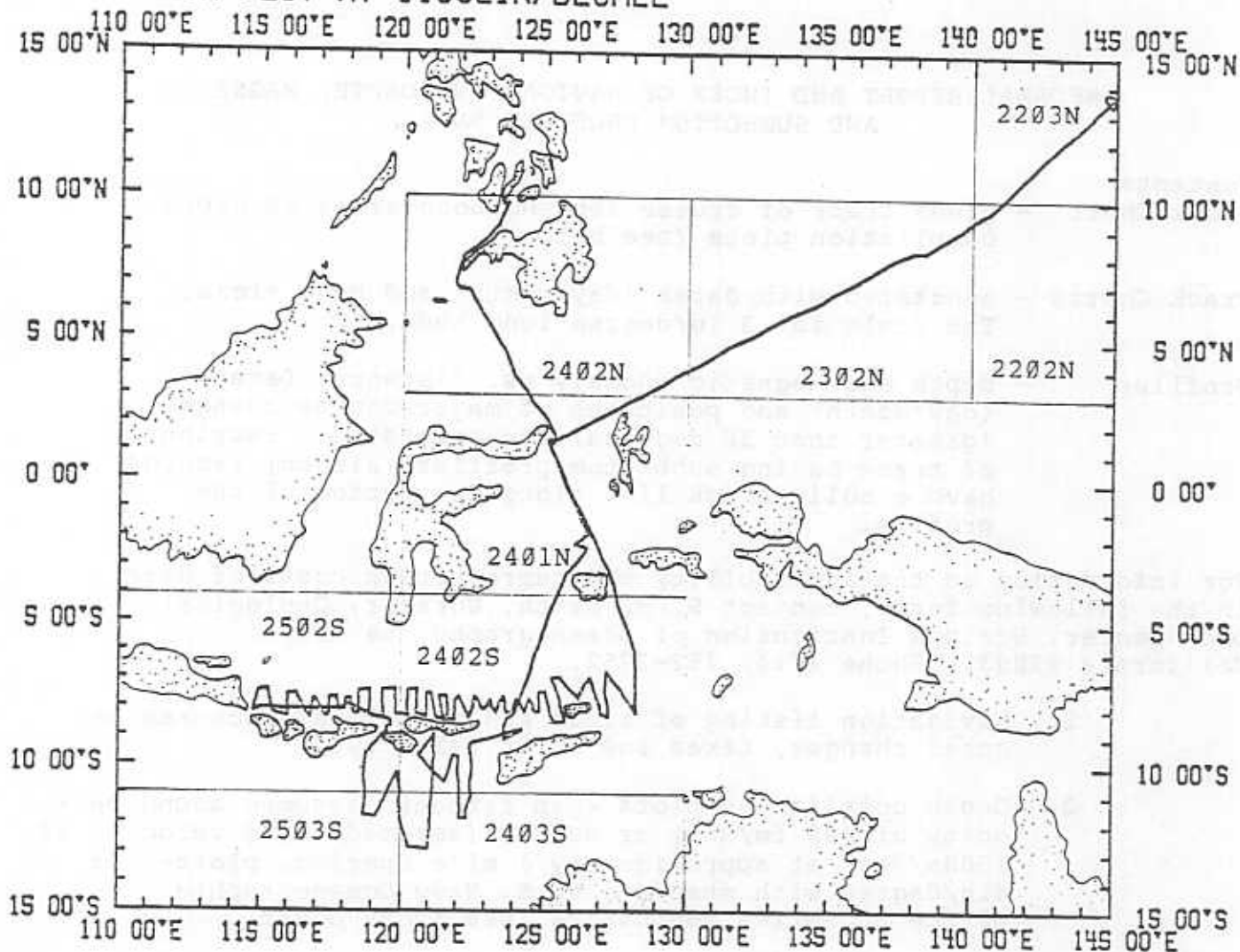
Contents:

- 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 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

RAMA12WT
TRACK PLOT AT .1632IN/DEGREE



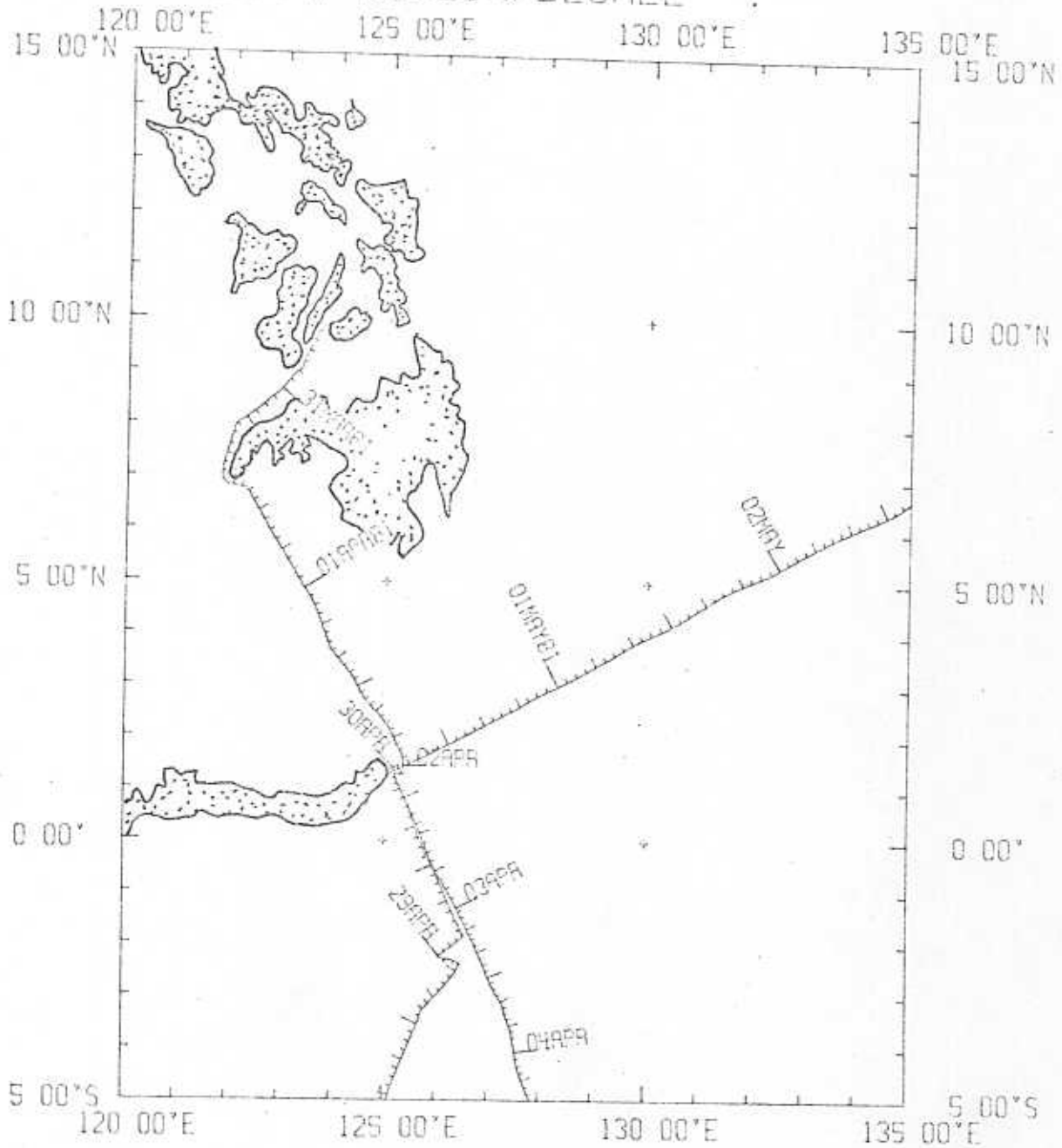
RAMA EXPEDITION
LEG 12

Chief Scientist: E. A. Silver (UCC)
Ports: Cebu City, Philippines to Agana, Guam
Dates: 30 March - 5 May 1981
Ship: R/V Melville

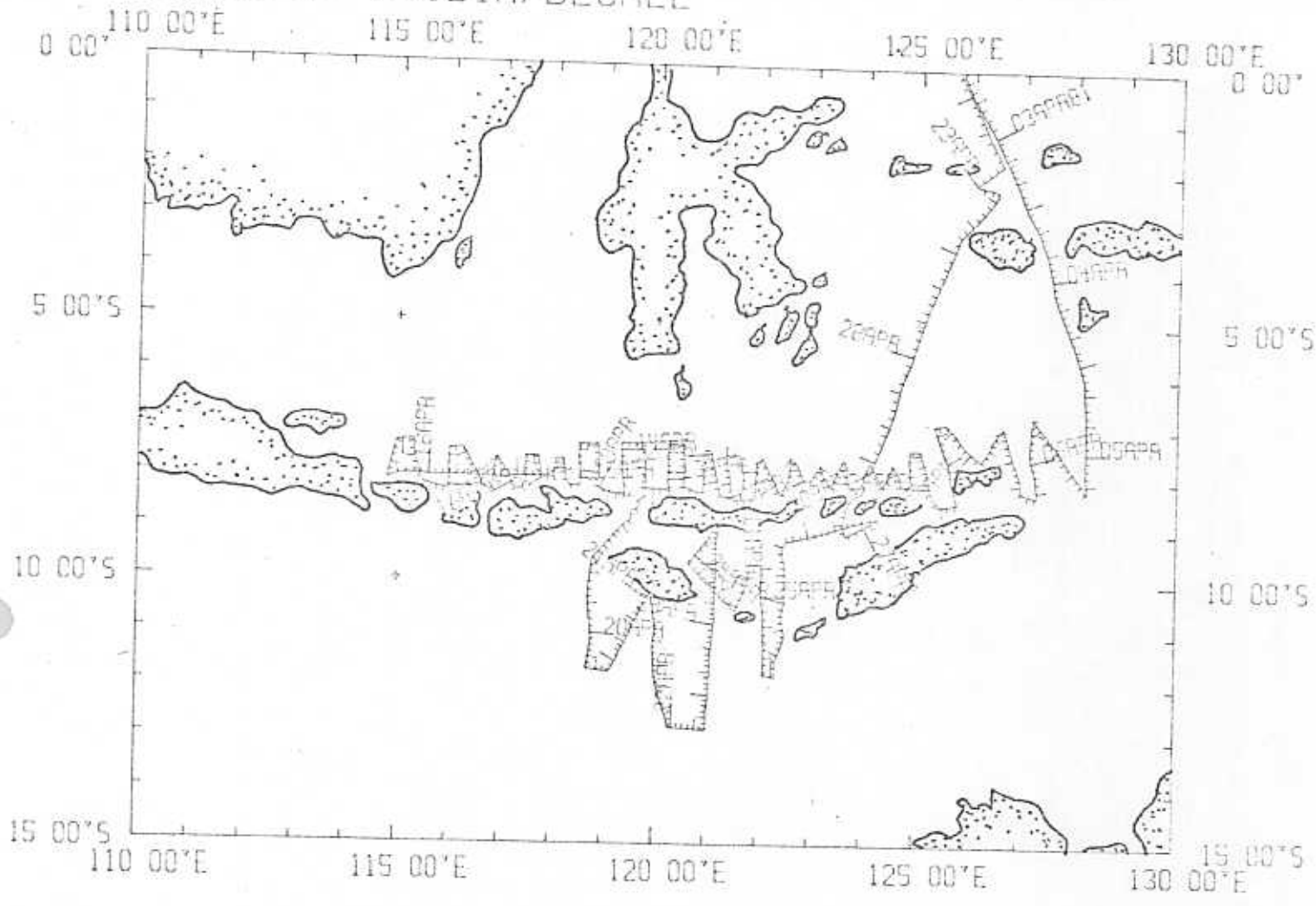
TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

- 1) Cruise - 7504 miles
- 2) Bathymetry - 7464 miles
- 3) Magnetics - 6551 miles
- 4) Seismic Reflection - 4640 miles
- 5) Gravity - 7334 miles

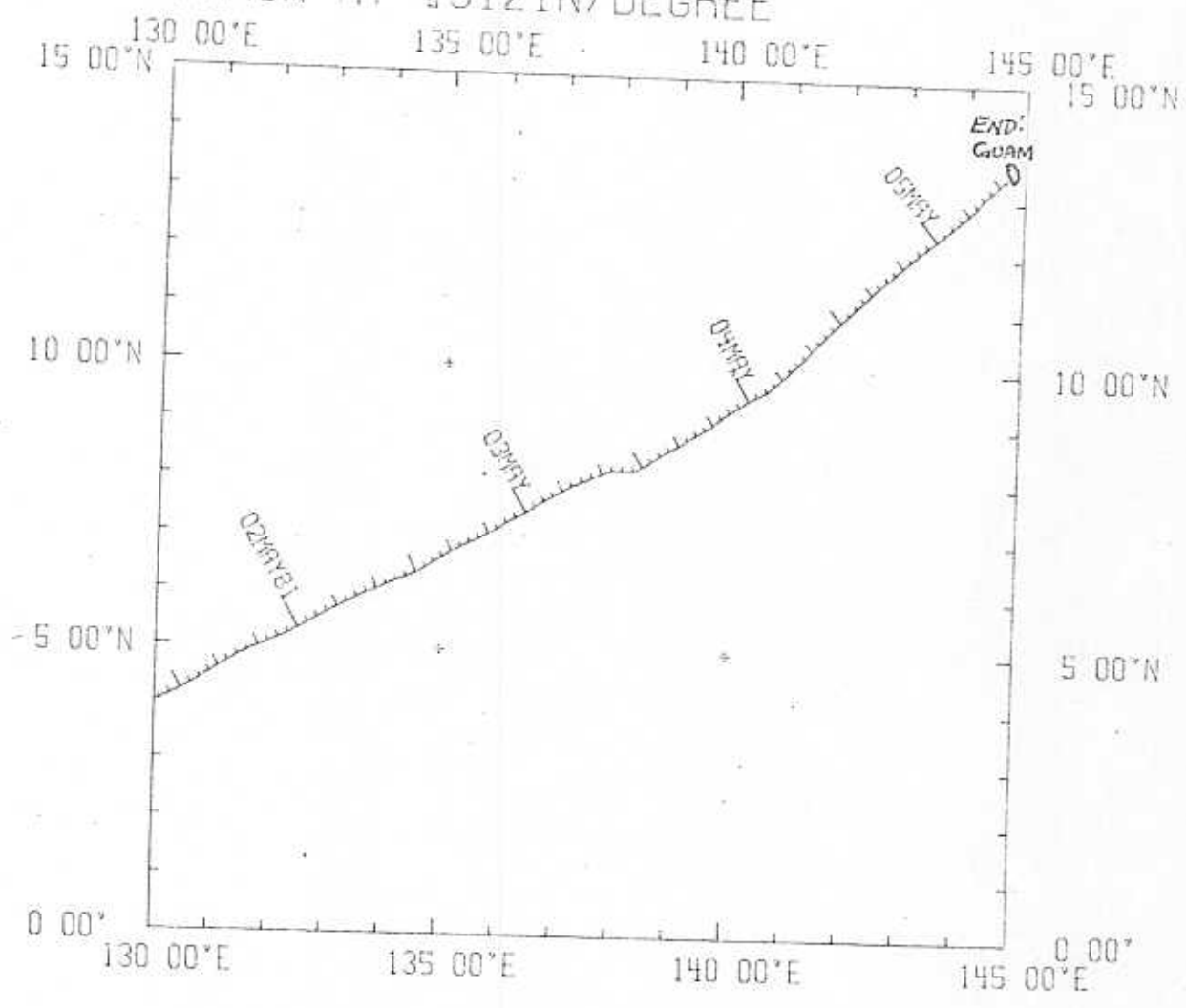
RAMA12WT (PLOT 1 OF 3)
TRACK AT 312 IN/DEGREE



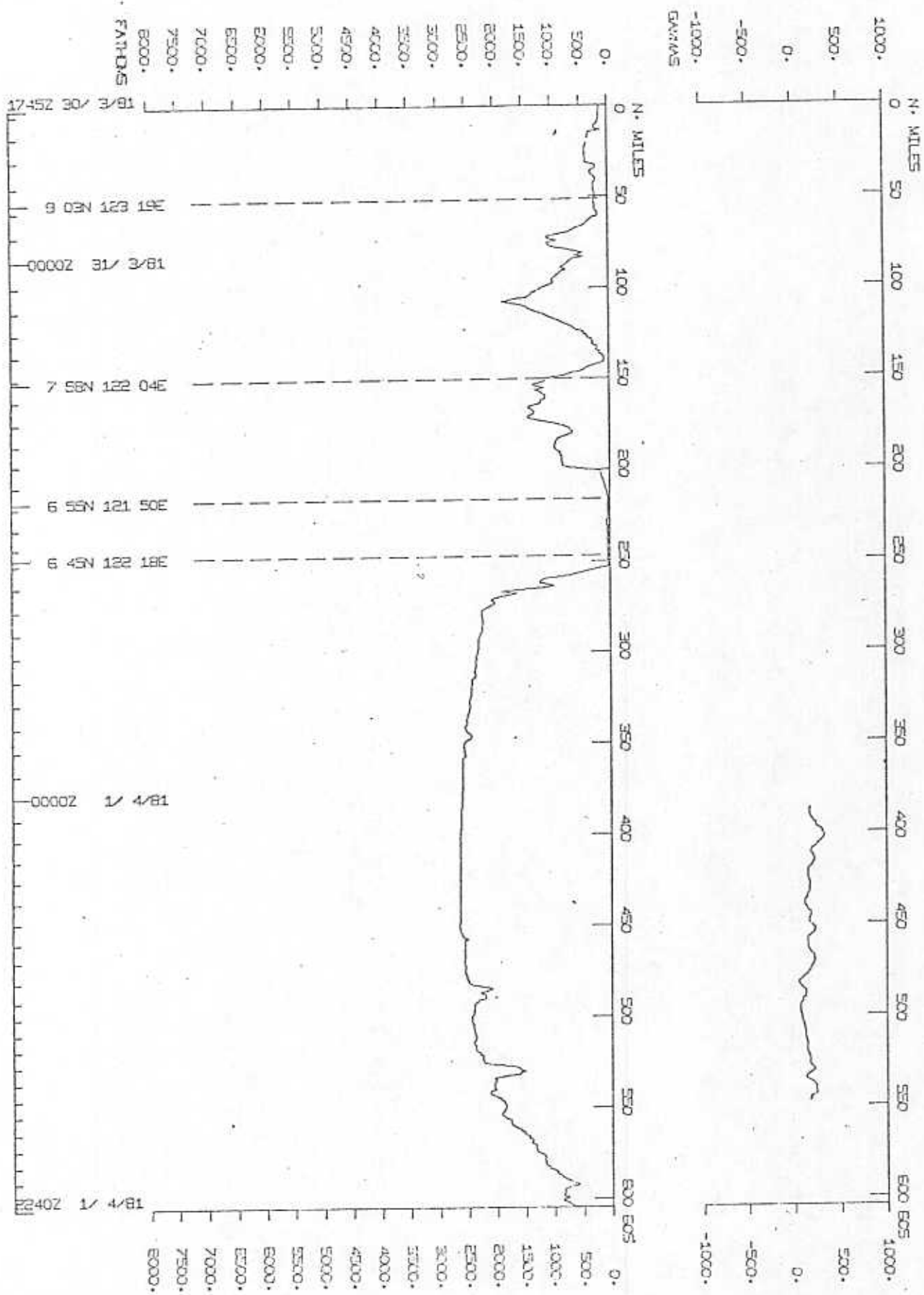
RAMA12WT (PLOT 2 OF 3)
TRACK AT .312IN/DEGREE



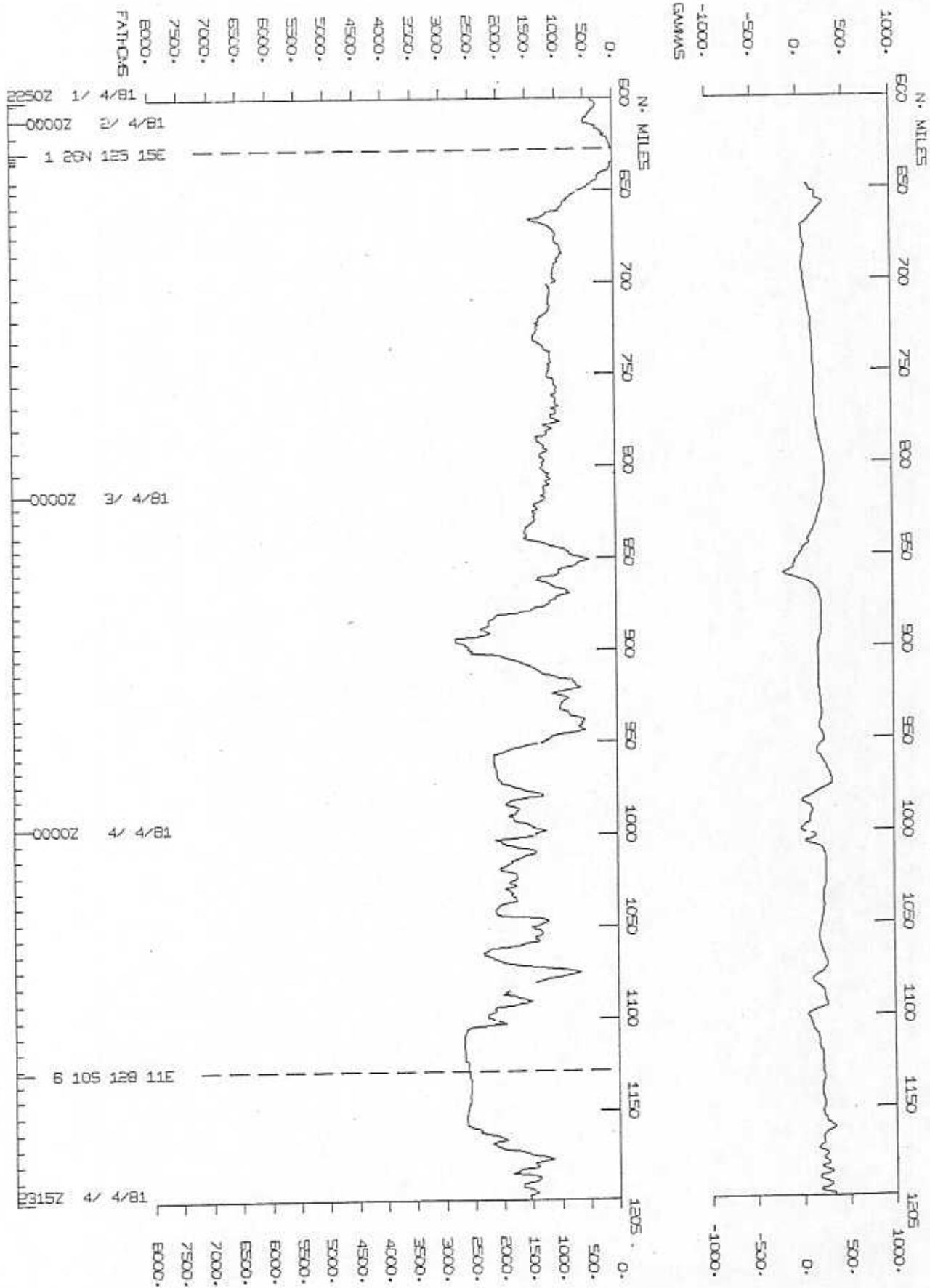
RAMA12WT (PLOT 3 OF 3)
TRACK AT .312IN/DEGREE



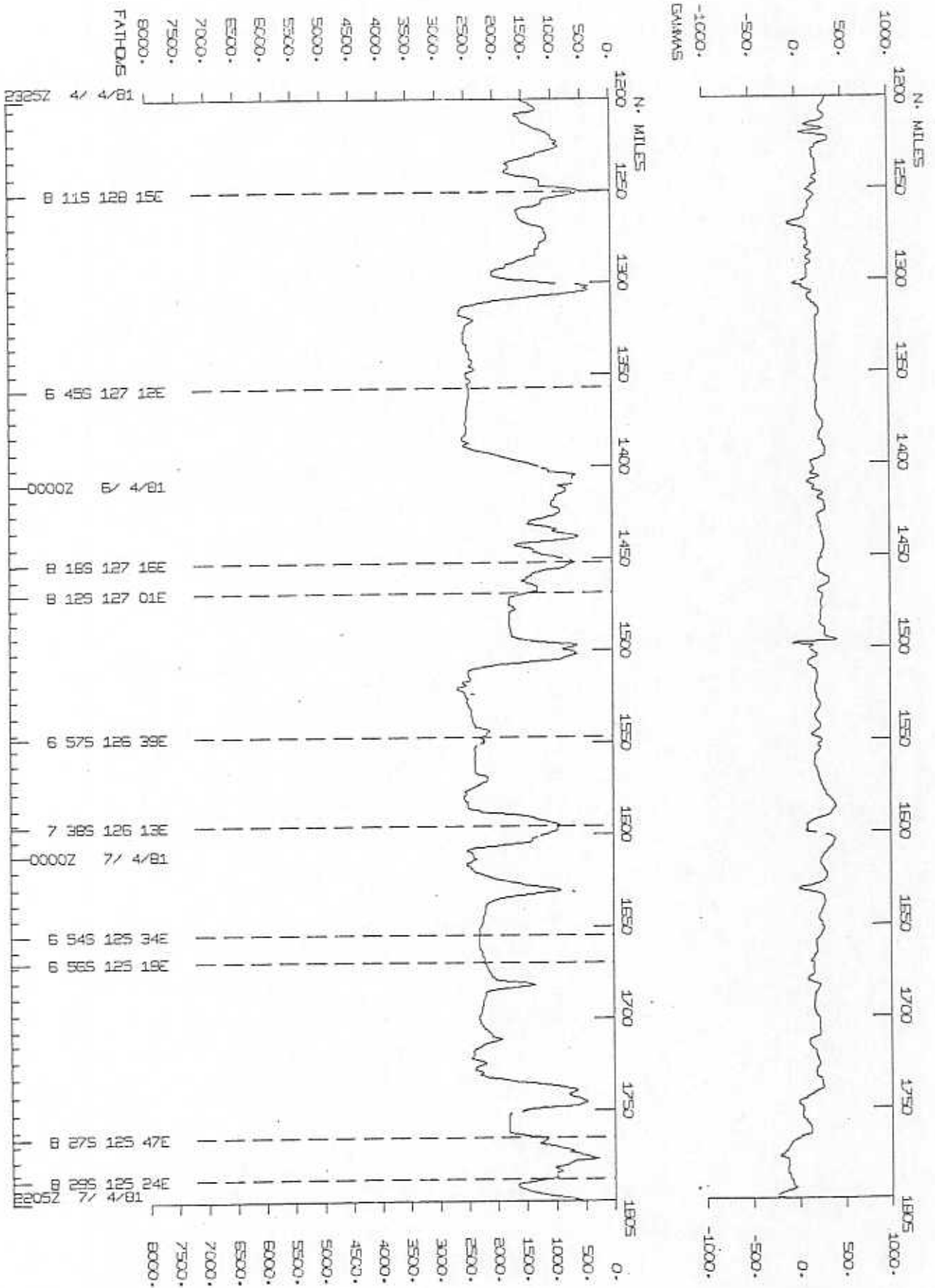
RAMA12WT



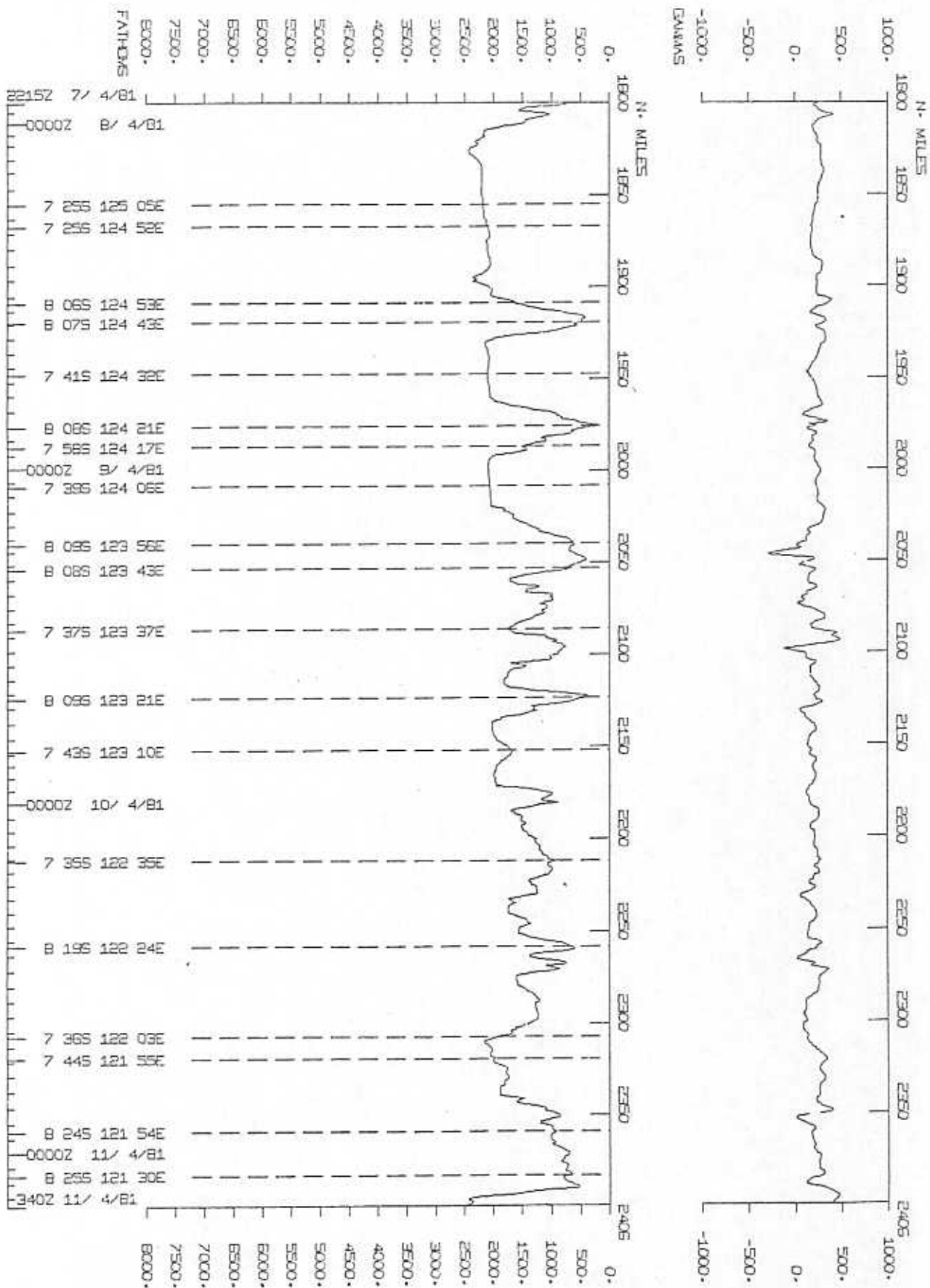
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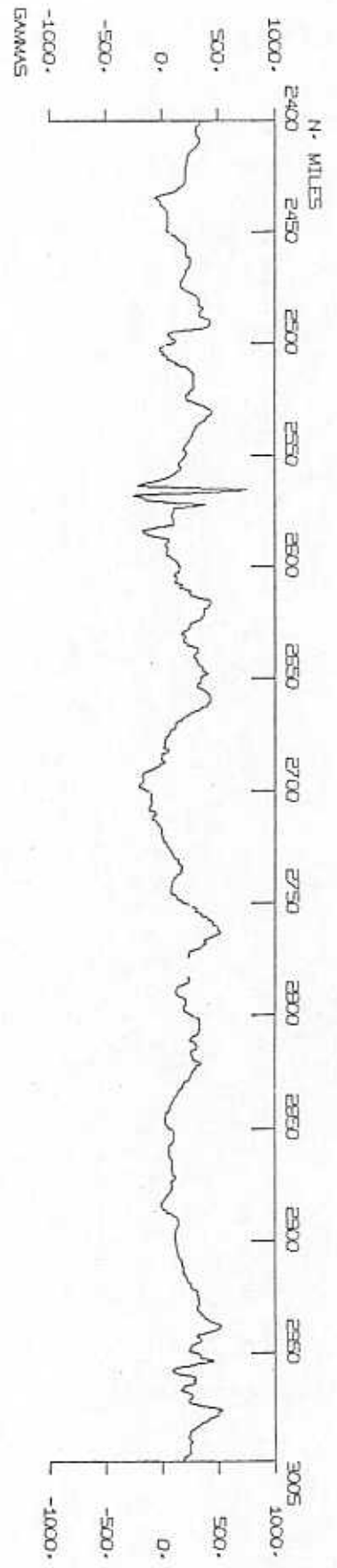
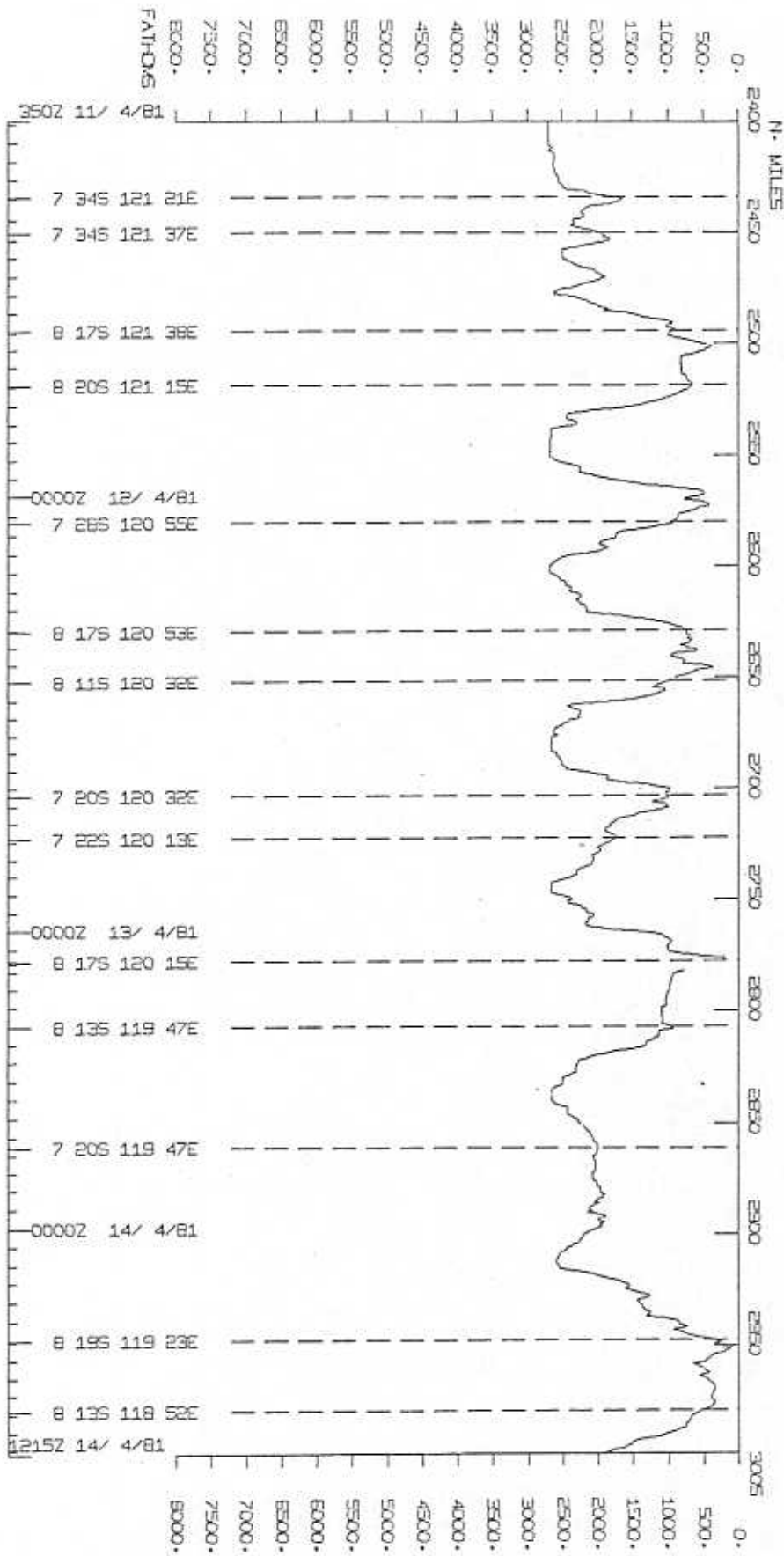
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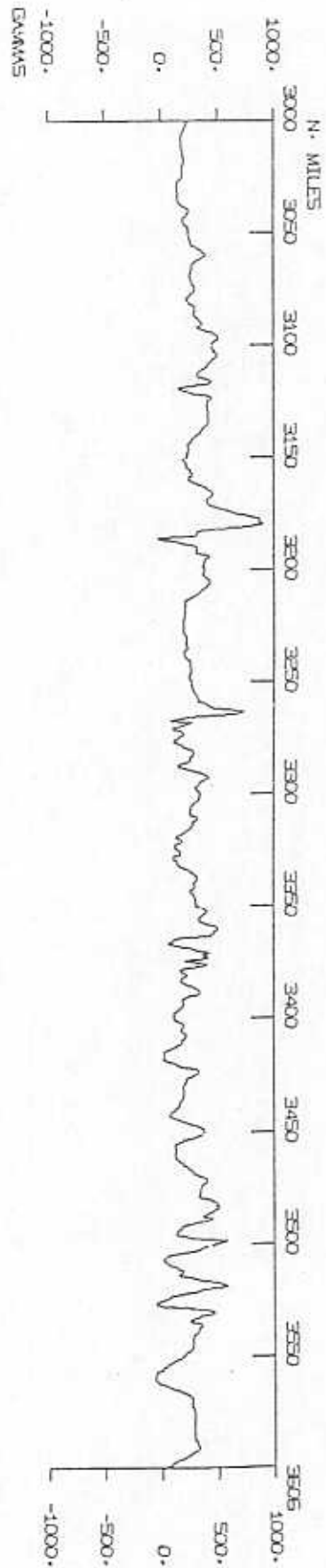
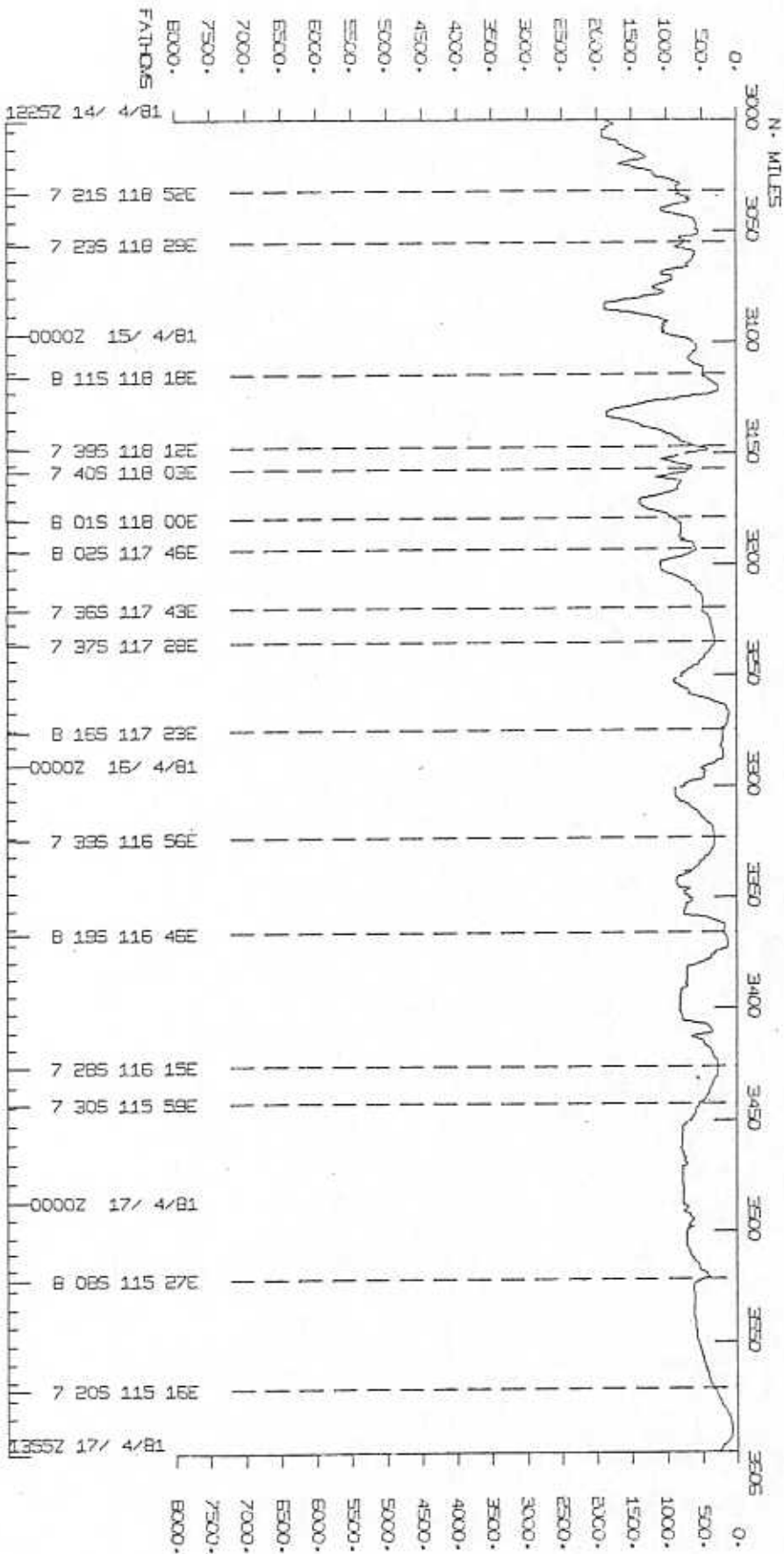
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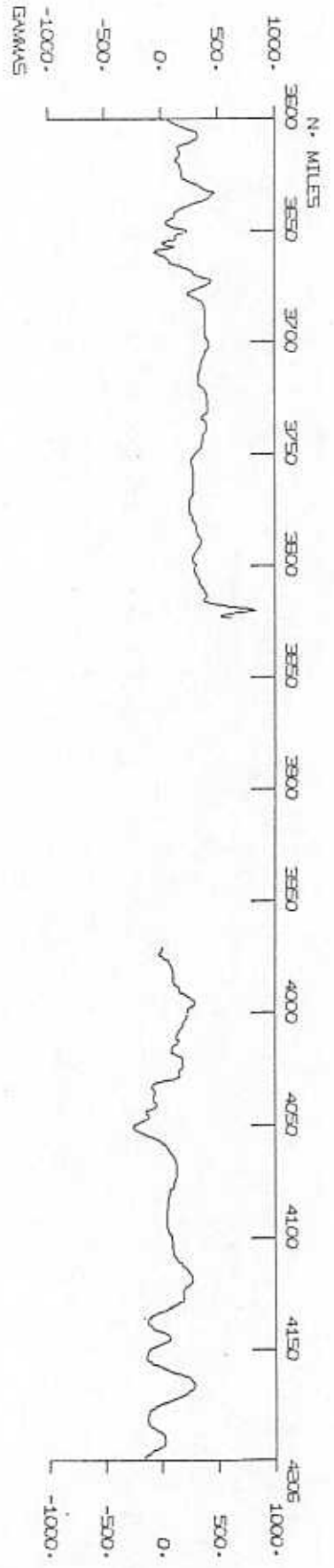
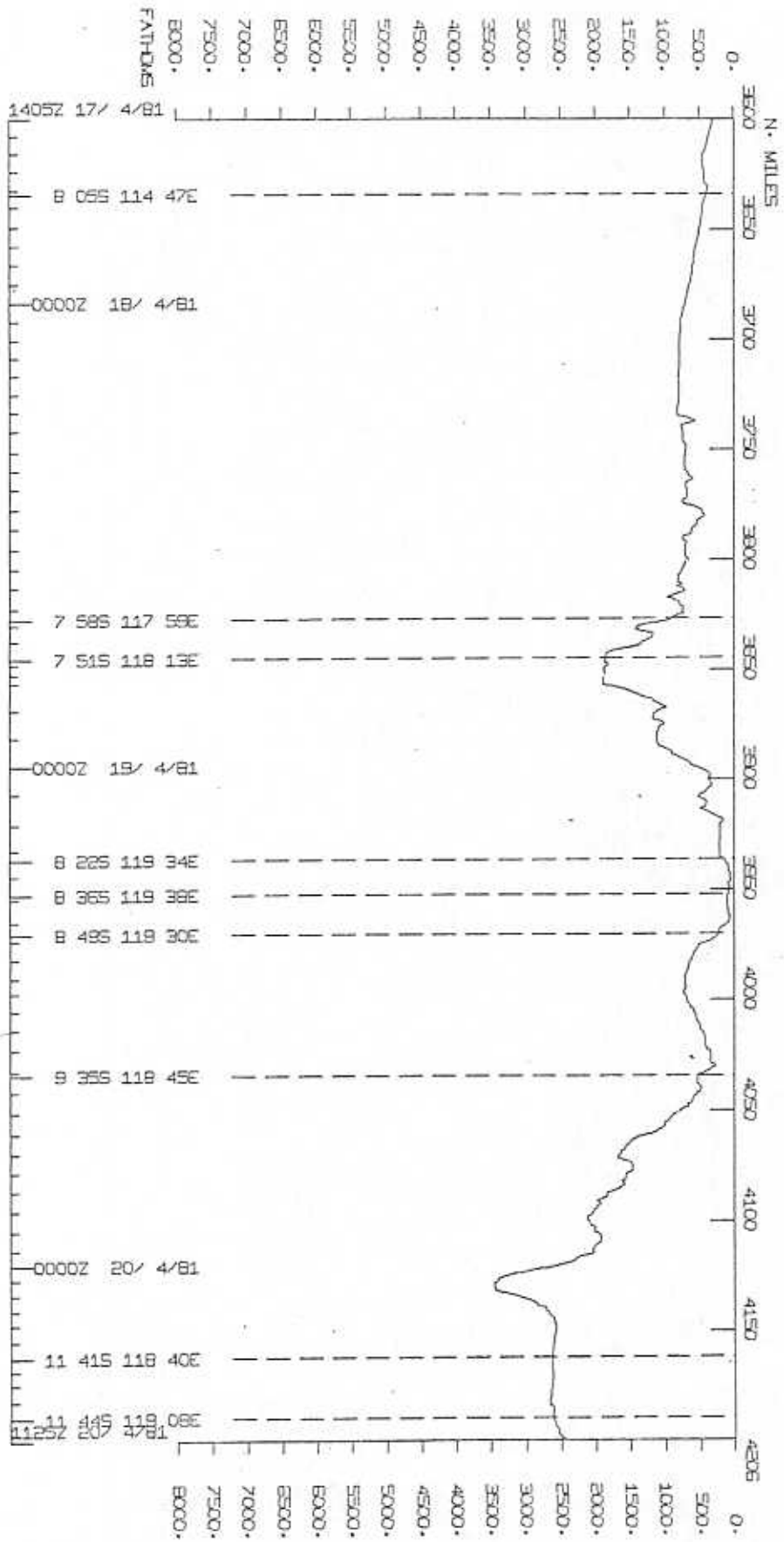
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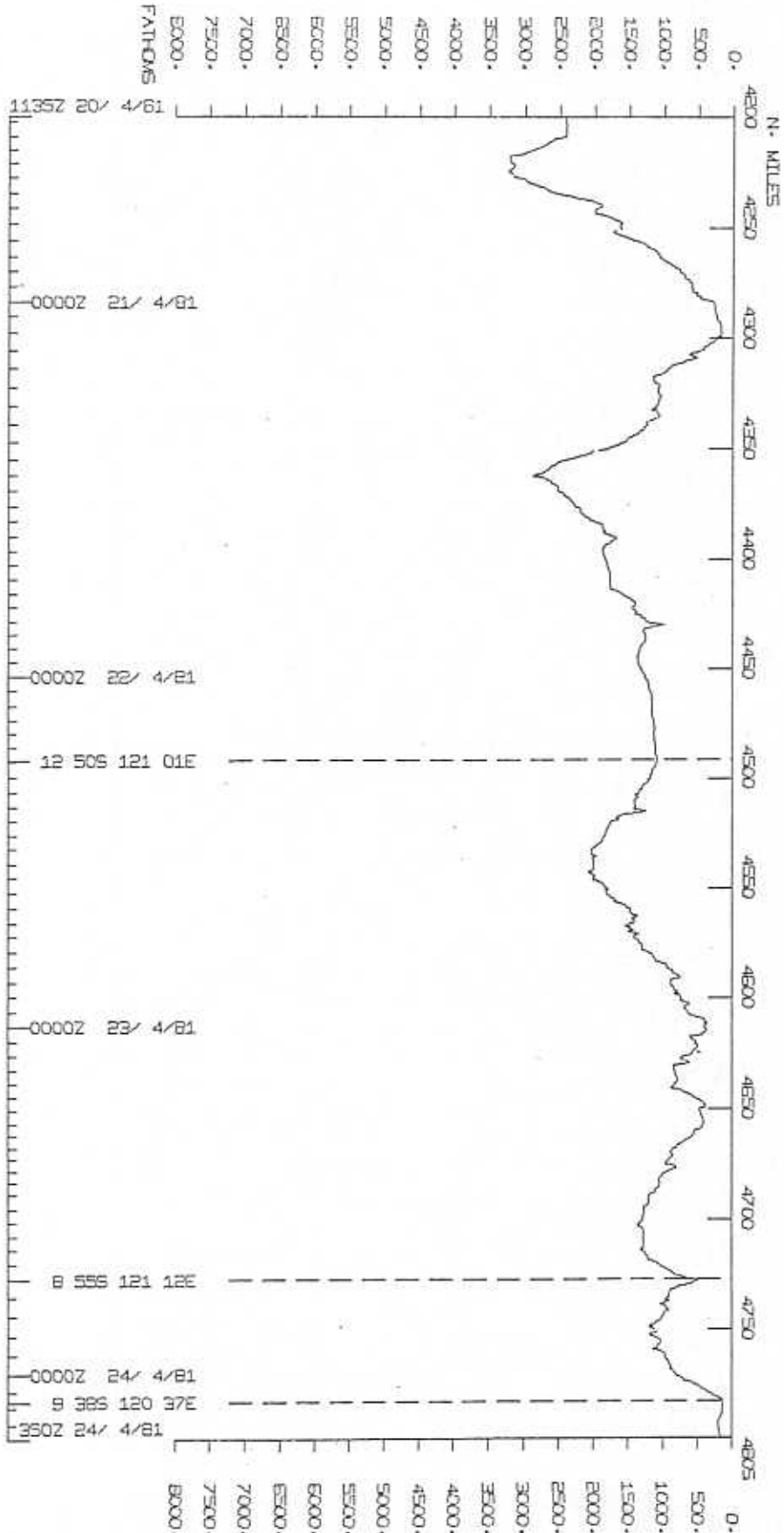
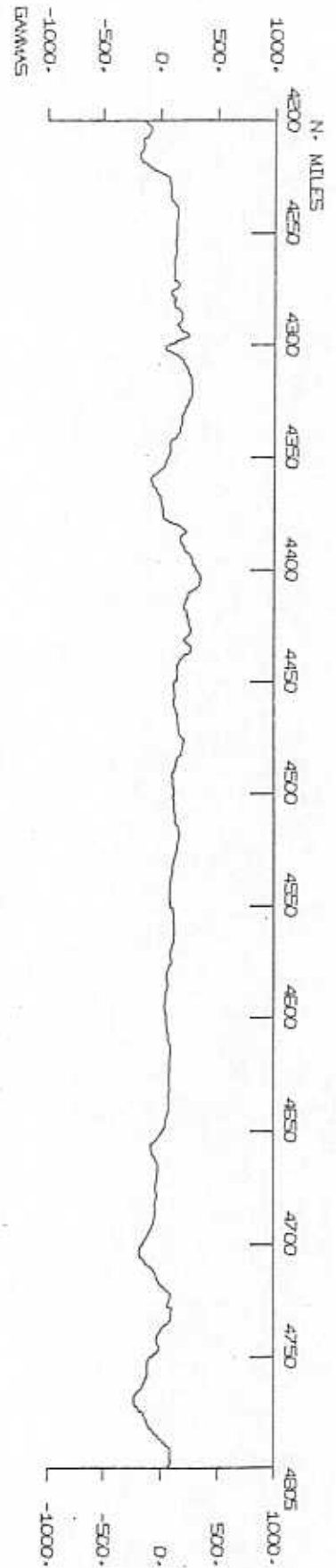
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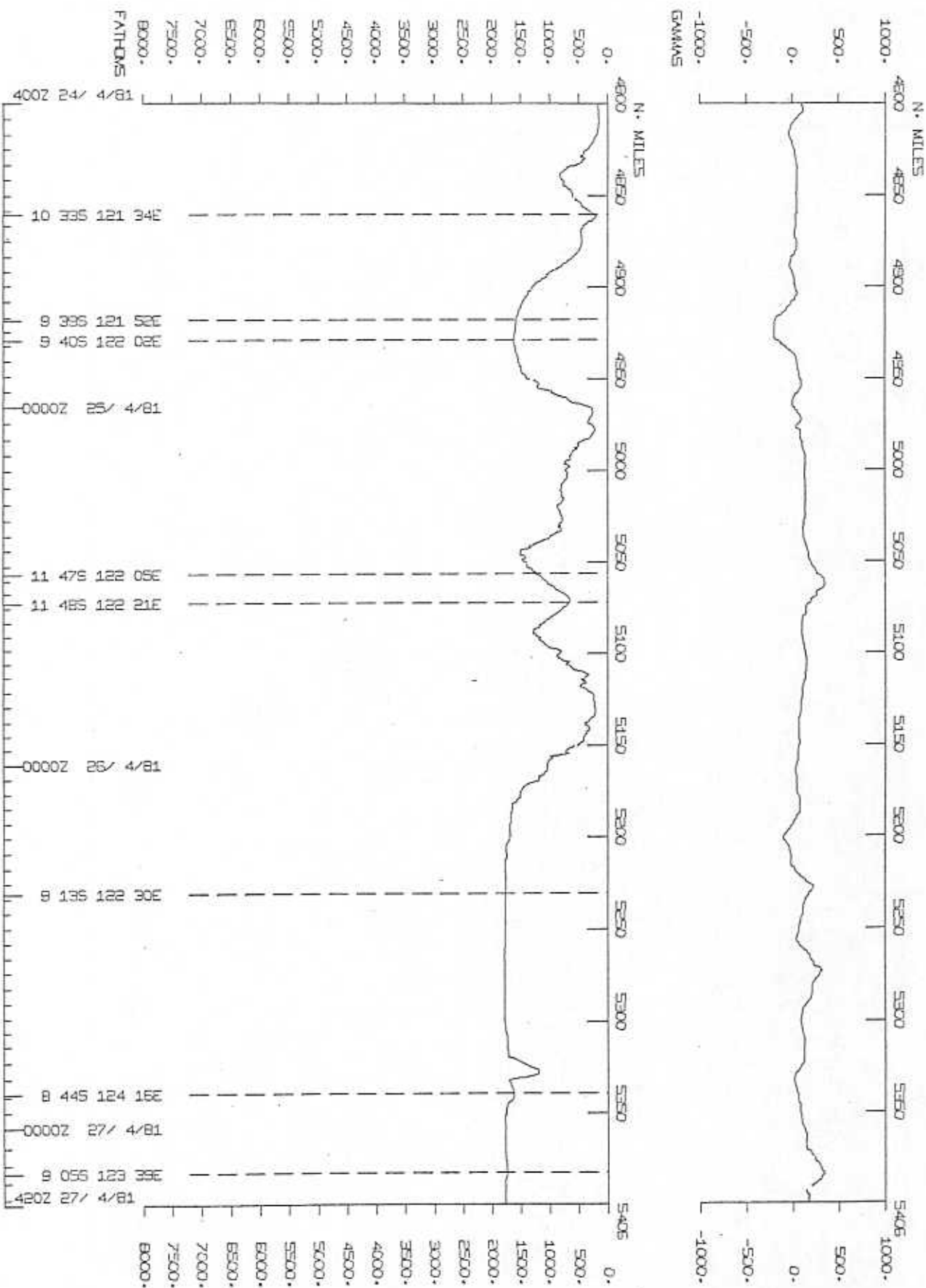
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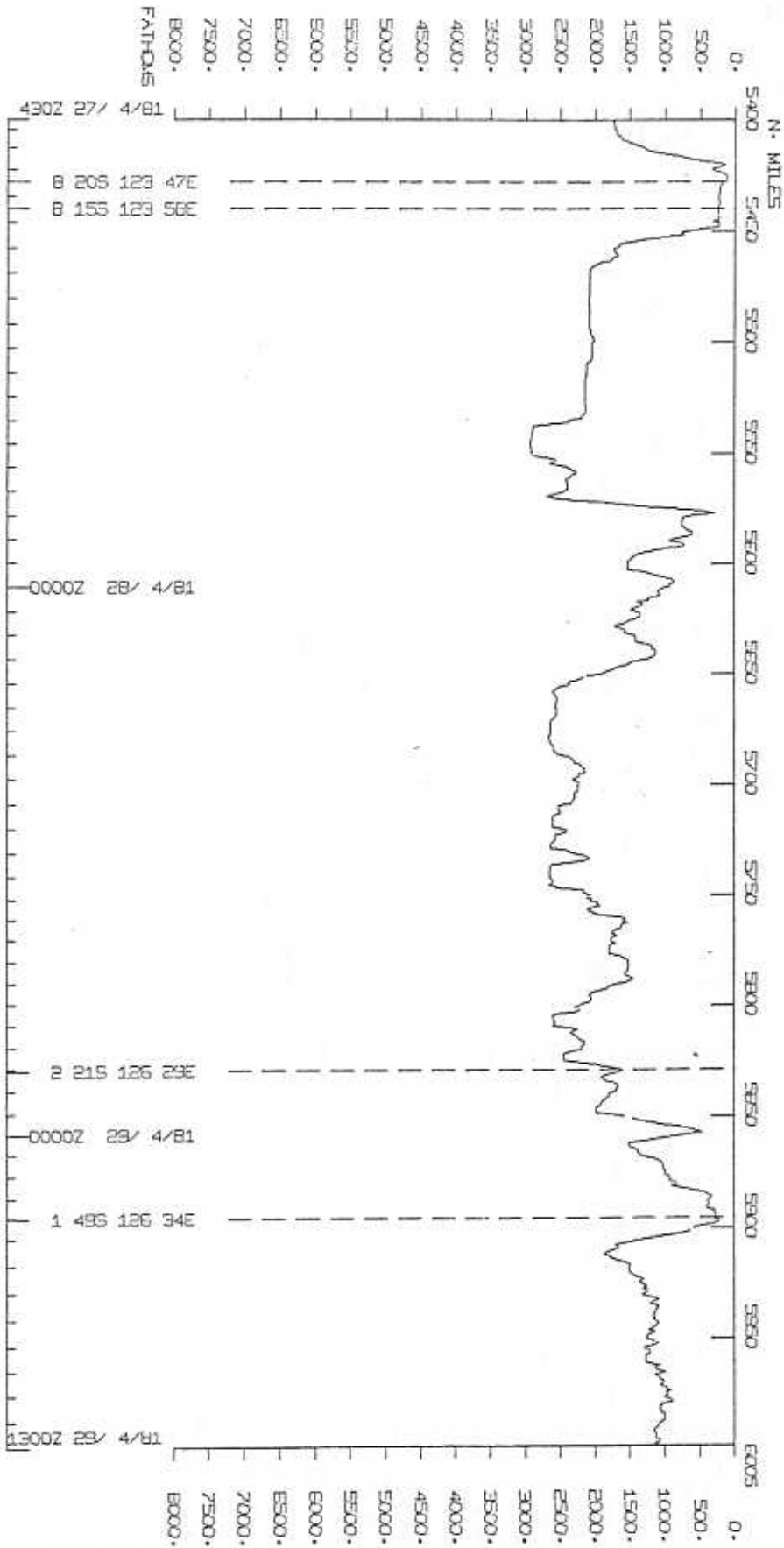
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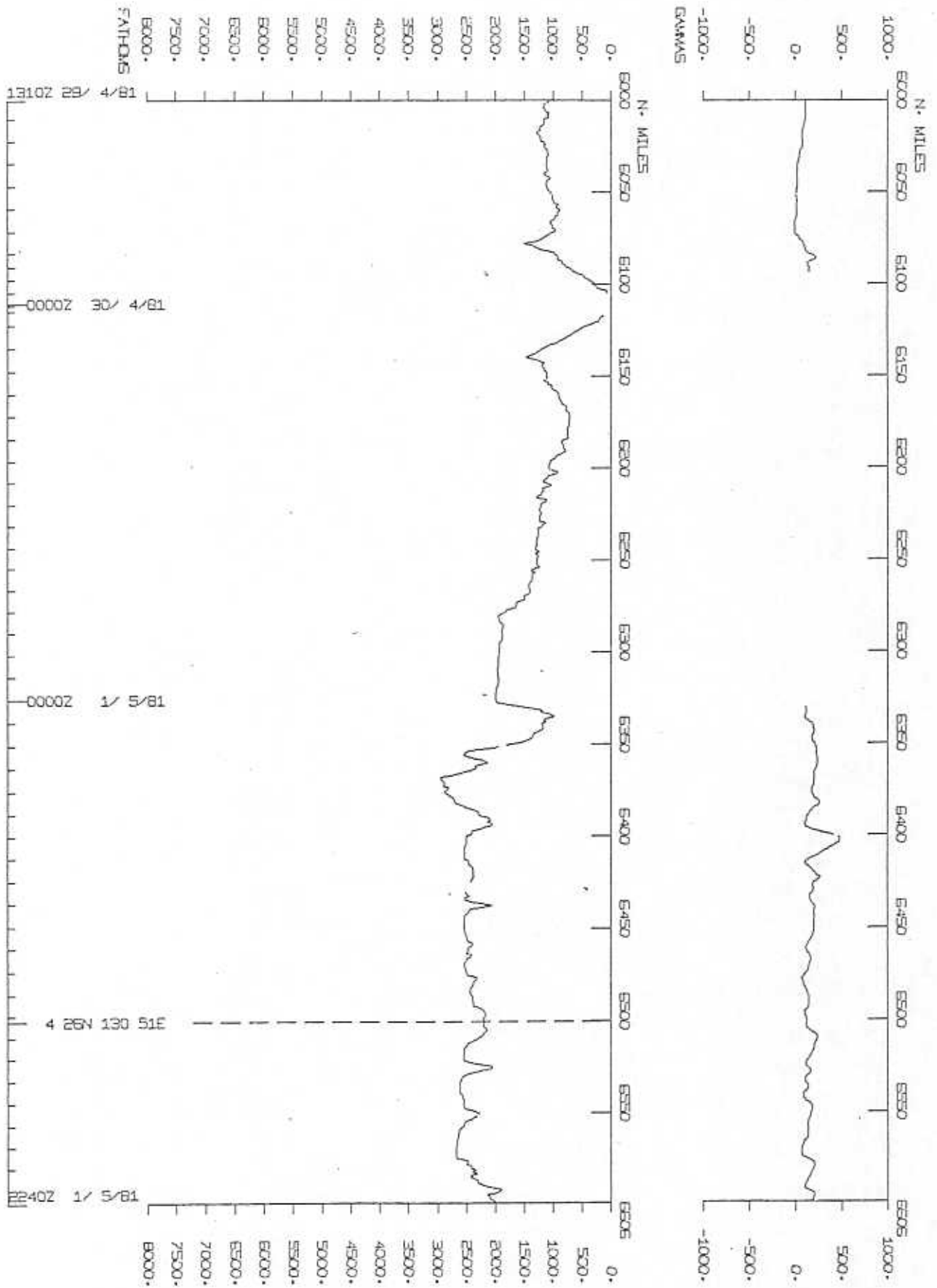
RAMA12WT



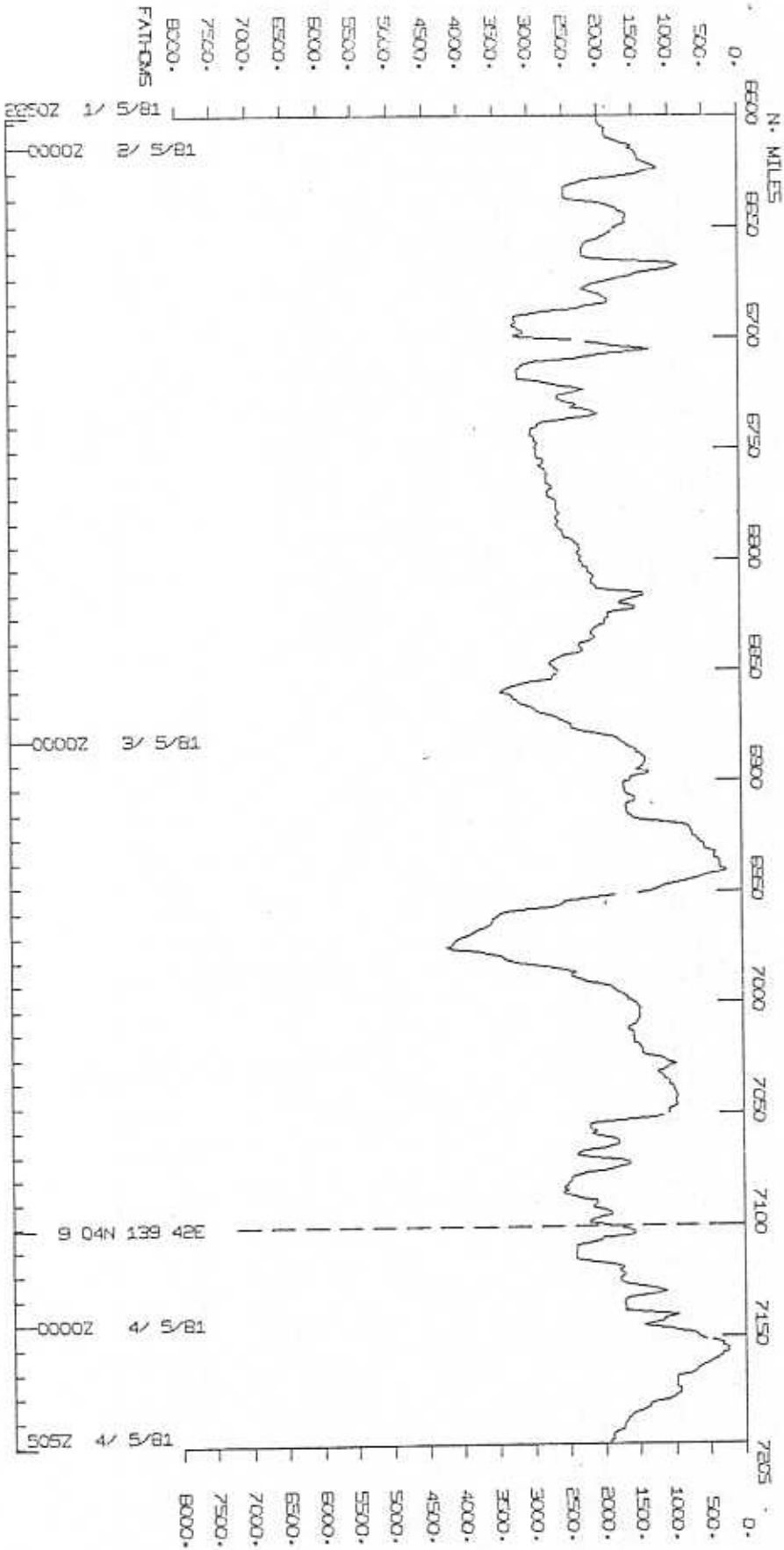
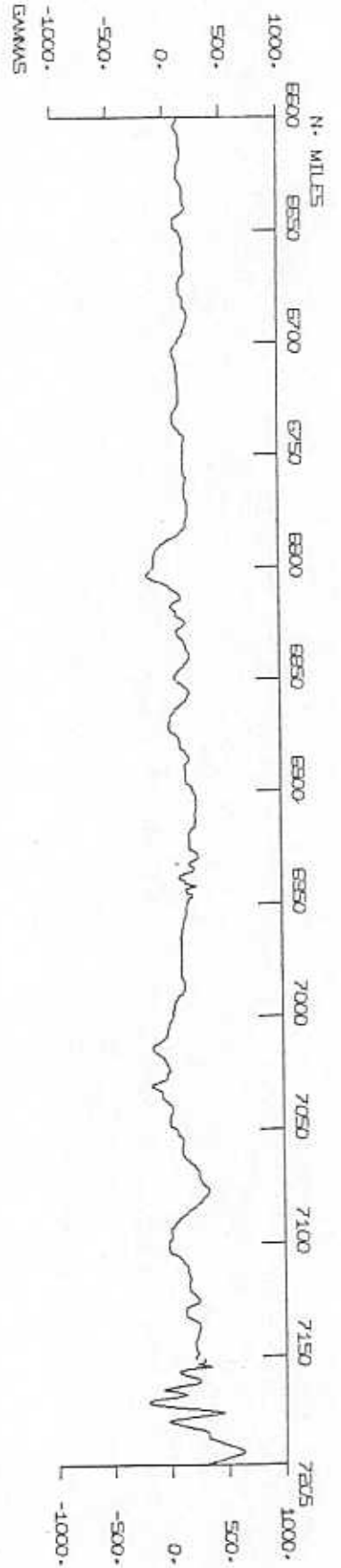
RAMA12WT



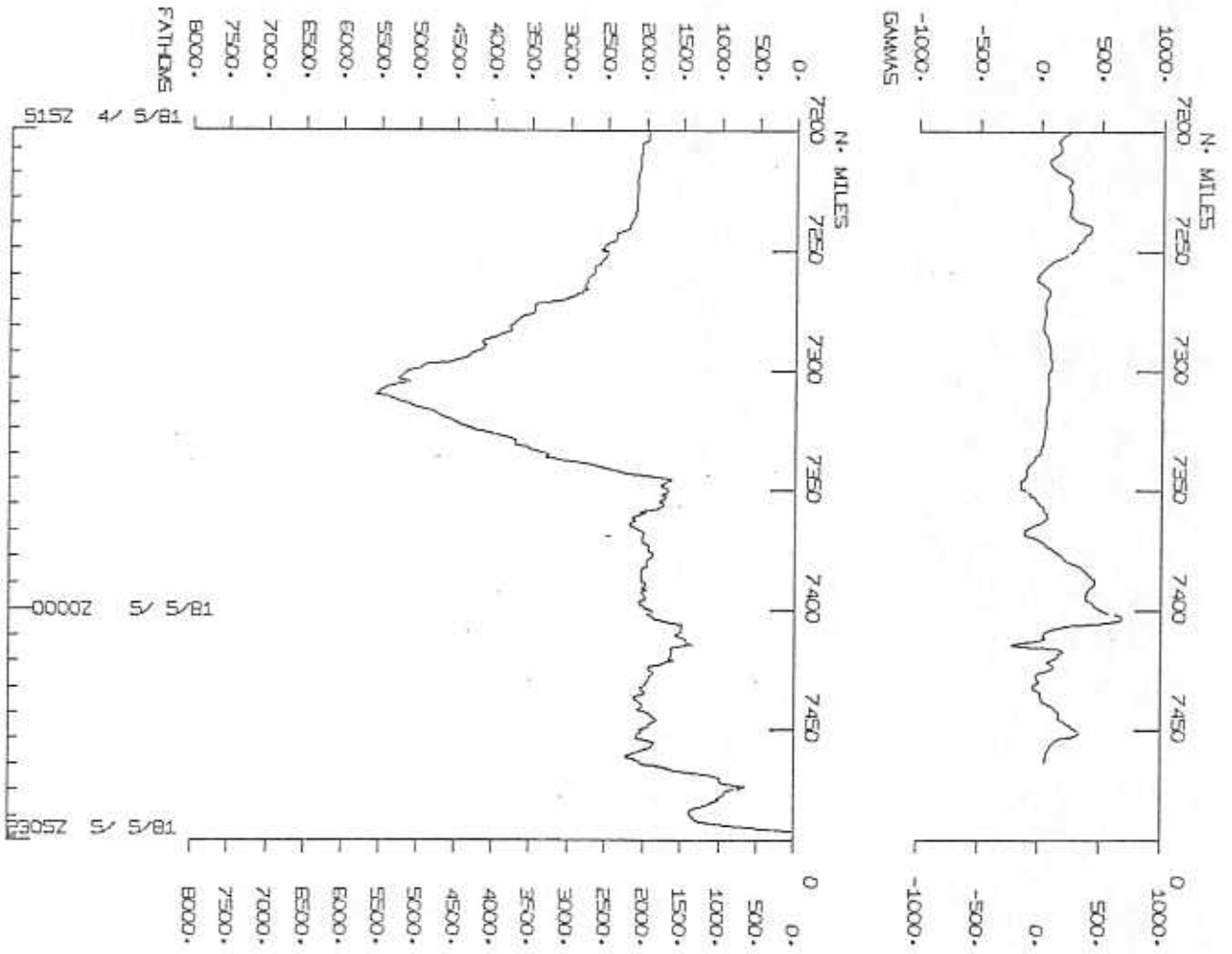
RAMA12WT



RAMA12WT



RAMA12WT



S.I.O. Sample Index

(Issued June 1981)

RAMA EXPEDITION

LEG 12

Cebu City, Philippines (30 March 1981)
to
Agana, Guam (5 May 1981)

R/V T. Washington

Chief Scientist - E. A. Silver (UCC)

Resident Marine Tech - W. Keith

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 26JUN81

*** RAMA LEG 12 SAMPLE INDEX

(RAMA12WT) ***



30MAR81 - CERU CITY, P.I.
 TO
 05MAY81 - AGANA, GUAM

CHIEF SCIENTIST - SILVER, F.A. 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	
	DP	GB	GV	LB	MG	PE	SB	SP			
GDC	1	6		1	4				110	1	121
IDU	1					3				1	3
MTG	1					3				1	3
SCG	1								1	1	1
SIU	1					1				1	1
UCC	1		1	3	1	7	7			1	19
TOTAL	1	6	1	3	2	4	14	7	111	1	148

SAMPLE 'TYPE' CODES USED ABOVE

DP = DEPTH
 GB = GRAB SAMPLE
 GV = GRAVITY
 LB = LOG BOOKS
 MG = MAGNETICS (TOWED VEHICLE, SURFACE, TOTAL FIELD)
 PE = PERSONNEL IN SCIENTIFIC PARTY
 SB = SEISMIC BODY
 SP = SEISMIC REFLECTION PROFILE AIRGUN
 SAMPLE 'DISP' CODES USED ABOVE

GDC = GEOLOGICAL DATA CENTER -- S. SMITH (EXT. 2752)
 IDU = INDONESIAN
 MTG = MARINE TECHNOLOGY GROUP (EXT 4194)
 SCG = SHIPBOARD COMPUTER GROUP (EXT. 4195)
 SIU = SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA, CAL. 92093
 UCC = UNIV. CALIF. SANTA CRUZ

GMT D /M /Y TIME DATE	LOC LOC TIME TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
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RAMA LEG 12 SAMPLE INDEX

RAMA12WT

*** PURTS ***

1530 30/ 3/81		LGPT R	CEBU CITY, P.I.	10	18. N	123 54. E	F RAMA12WT
0915 5/ 5/81		LGPT E	AGANA, GUAM	13	27. N	144 37. E	F RAMA12WT
0200 2/ 4/81		LGSS R	RITUNG, SULUWESI	01	30. N	124 50. E	F RAMA12WT
0700 02/04/81		LGSS E	RITUNG, SULUWESI	01	30. N	124 50. E	F RAMA12WT
2255 29/04/81		LGSS R	RITUNG, SULUWESI	01	30. N	124 50. E	F RAMA12WT
0545 30/04/81		LGSS E	RITUNG, SULUWESI	01	30. N	124 50. E	F RAMA12WT

PERSONNEL
*** NAME ***

*** TITLE ***

*** AFFILIATION ***

1 SILVER, E.A.	CHIEF SCIENTIST	UNIV. CALIF. SANTA CRUZ	
2 KEITH, W.E.	RESIDENT TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA	CAL. 92093
3 CHARTERS, J.S.	COMPUTER TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA	CAL. 92093
4 CRAMPTON, P.J.S.	SR. DVLMT. ENG.	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA	CAL. 92093
5 BLACKMAN, D.	STUDENT	UNIV. CALIF. SANTA CRUZ	
6 BOX, S.E.	GRAD. STUDENT	UNIV. CALIF. SANTA CRUZ	
7 HODGES, S.M.	GRAD. STUDENT	UNIV. CALIF. SANTA CRUZ	
8 MCCAFFREY, R.	GRAD. STUDENT	UNIV. CALIF. SANTA CRUZ	
9 RYAN, H.F.	GRAD. STUDENT	UNIV. CALIF. SANTA CRUZ	
10 REED, D.L.	GRAD. STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA	CAL. 92093
11 ZENDER, C.	GRAD. STUDENT	UNIV. CALIF. SANTA CRUZ	
12 JOYODIWIRYO, Y.S.	GEOPHYSICIST	INDONESIAN	
13 UTUMO, D.	NAVAL OFFICER	INDONESIAN	
14 HARJONO, H.	GEOLOGIST	INDONESIAN	

NOTES

AN 'X' IN THE (B)EGIN/(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. (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 TIME	D / M / Y DATE	LUC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
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**** UNDERWAY DATA CURATOR - STUART M. SMITH EXT. 2752 ****

*** LOG BOOKS ***

1530	30/ 3/81			LRUW B	UNDERWAY LOG	GDC 09	50.6N	123 39.8E	S RAMA12WT
0840	5/ 5/81			LRUW E	UNDERWAY LOG	GDC 13	26.5N	144 38.5E	S RAMA12WT
1500	30/ 3/81			LBSC B	SILVER'S LOG	UCC 09	50.6N	123 39.8E	S RAMA12WT
0915	5/ 5/81			LBSC E	SILVER'S LOG	UCC 13	26.0N	144 39.4E	S RAMA12WT

*** FATHOGRAMS ***

1540	30/ 3/81			DPR3 B	UGR 3.5KHZ R-01	GDC 09	50.6N	123 39.8E	S RAMA12WT
2335	5/ 4/81			DPR3 E	UGR 3.5KHZ R-01	GDC 07	33.2S	127 10.6E	S RAMA12WT
0000	6/ 4/81			DPR3 B	UGR 3.5KHZ R-02	GDC 07	36.7S	127 11.3E	S RAMA12WT
1809	14/ 4/81			DPR3 E	UGR 3.5KHZ R-02	GDC 07	22.5S	118 38.2E	S RAMA12WT
1830	14/ 4/81			DPR3 B	UGR 3.5KHZ R-03	GDC 07	22.7S	118 35.3E	S RAMA12WT
1534	20/ 4/81			DPR3 E	UGR 3.5KHZ R-03	GDC 11	13.4S	119 25.3E	S RAMA12WT
1555	20/ 4/81			DPR3 B	UGR 3.5KHZ R-04	GDC 11	11.4S	119 26.4E	S RAMA12WT
0825	27/ 4/81			DPR3 E	UGR 3.5KHZ R-04	GDC 08	15.9S	123 58.0E	S RAMA12WT
0844	27/ 4/81			DPR3 B	UGR 3.5KHZ R-05	GDC 08	17.8S	132 52.4E	S RAMA12WT
				DPR3 E	UGR 3.5KHZ R-05				
0140	2/5			GDR	12KHZ R-01				
0636	2/5			GDR	12KHZ R-01				
1112	2/ 5/81			DPRT B	UGR 12 KHZ R-01	GDC 06	17.9N	134 24.8E	S RAMA12WT
0842	5/ 5/81			DPRT E	UGR 12 KHZ R-01	GDC 13	26.6N	144 38.7E	S RAMA12WT

*** MAGNETOMETER ***

0049	1/ 4/81			MGRA B	MAGNETICS R-01	GDC 04	43.5N	123 31.7E	S RAMA12WT
0751	5/ 4/81			MGRA E	MAGNETICS R-01	GDC 07	49.2S	128 00.3E	S RAMA12WT
0755	5/ 4/81			MGRA B	MAGNETICS R-02	GDC 07	48.8S	128 00.0E	S RAMA12WT
1233	16/ 4/81			MGRA E	MAGNETICS R-02	GDC 07	59.6S	116 33.0E	S RAMA12WT
1238	16/ 4/81			MGRA B	MAGNETICS R-03	GDC 07	59.0S	116 32.7E	S RAMA12WT
0850	28/ 4/81			MGRA E	MAGNETICS R-03	GDC 04	04.7S	125 27.0E	S RAMA12WT
0855	28/ 4/81			MGRA B	MAGNETICS R-04	GDC 04	03.8S	125 27.3E	S RAMA12WT
0600	5/ 5/81			MGRA E	MAGNETICS R-04	GDC 13	06.7N	144 16.8E	S RAMA12WT

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

1540	30/ 3/81	GVRA B	GRAVITY	R-01	UCC 09	50.6N 123 39.8E	S RAMA12WT
0145	11/ 4/81	GVRA F	GRAVITY	R-01	UCC 08	23.8S 121 29.6E	S RAMA12WT
0154	11/ 4/81	GVRA B	GRAVITY	R-02	UCC 08	22.7S 121 29.3E	S RAMA12WT
0844	1/ 5/81	GVRA E	GRAVITY	R-02	UCC 03	54.0N 129 52.3E	S RAMA12WT
0846	1/ 5/81	GVRA B	GRAVITY	R-03	UCC 03	54.2N 129 52.6E	S RAMA12WT
1200	5/ 5/81	GVRA E	GRAVITY	R-03	UCC 13	25.6N 144 39.8E	S RAMA12WT

*** SEISMIC REFLECTION PROFILES ***

0908	2/ 4/81	SPRS B	AIRGUN-5SEC	PSR K01	GDC 01	10.4N 125 13.8E	S RAMA12WT
0725	6/ 4/81	SPRS E	AIRGUN-5SEC	PSR K01	GDC 08	09.3S 127 00.3E	S RAMA12WT
0740	6/ 4/81	SPRS B	AIRGUN-5SEC	PSR K02	GDC 08	07.3S 127 00.2E	S RAMA12WT
0630	8/ 4/81	SPRS E	AIRGUN-5SEC	PSR K02	GDC 07	25.4S 125 01.1E	S RAMA12WT
0648	8/ 4/81	SPRS B	AIRGUN-5SEC	PSR K03	GDC 07	25.5S 124 58.7E	S RAMA12WT
1627	18/ 4/81	SPRS E	AIRGUN-5SEC	PSR K03	GDC 07	59.1S 117 59.8E	S RAMA12WT
0645	19/ 4/81	SPRS B	AIRGUN-5SEC	PSR K04	GDC 08	50.2S 119 29.9E	S RAMA12WT
0408	29/ 4/81	SPRS E	AIRGUN-5SEC	PSR K04	GDC 01	49.4S 126 33.9E	S RAMA12WT
1030	2/ 4/81	SPRS B	AIRGUN-5SEC	EPC1 K01	GDC 01	00.0N 125 18.0E	S RAMA12WT
1030	3/ 4/81	SPRS E	AIRGUN-5SEC	EPC1 K01	GDC 02	28.4S 126 56.5E	S RAMA12WT
0210	4/ 4/81	SPRS B	AIRGUN-5SEC	EPC1 K02	GDC 04	22.7S 127 35.5E	S RAMA12WT
0330	5/ 4/81	SPRS E	AIRGUN-5SEC	EPC1 K02	GDC 07	58.5S 128 14.6E	S RAMA12WT
0349	5/ 4/81	SPRF B	AIRGUN-4SEC	EPC1 K03	GDC 08	01.4S 128 14.9E	S RAMA12WT
1220	8/ 4/81	SPRF E	AIRGUN-4SEC	EPC1 K03	GDC 08	05.8S 124 54.2E	S RAMA12WT
1228	8/ 4/81	SPRF B	AIRGUN-4SEC	EPC1 K04	GDC 08	06.2S 124 53.4E	S RAMA12WT
2119	11/ 4/81	SPRF E	AIRGUN-4SEC	EPC1 K04	GDC 07	53.6S 121 09.5E	S RAMA12WT
2132	11/ 4/81	SPRF B	AIRGUN-4SEC	EPC1 K05	GDC 07	51.9S 121 09.0E	S RAMA12WT
0305	15/ 4/81	SPRF E	AIRGUN-4SEC	EPC1 K05	GDC 08	04.0S 118 16.2E	S RAMA12WT
0315	15/ 4/81	SPRF B	AIRGUN-4SEC	EPC1 K06	GDC 08	02.8S 118 16.0E	S RAMA12WT
1249	18/ 4/81	SPRF E	AIRGUN-4SEC	EPC1 K06	GDC 08	01.2S 117 26.3E	S RAMA12WT
1302	18/ 4/81	SPRF B	AIRGUN-4SEC	EPC1 K07	GDC 08	01.2S 117 28.3E	S RAMA12WT
1201	21/ 4/81	SPRF E	AIRGUN-4SEC	EPC1 K07	GDC 11	37.6S 119 59.5E	S RAMA12WT
1213	21/ 4/81	SPRF B	AIRGUN-4SEC	EPC1 K08	GDC 11	38.9S 119 59.6E	S RAMA12WT
1805	24/ 4/81	SPRF E	AIRGUN-4SEC	EPC1 K08	GDC 09	40.1S 121 51.6E	S RAMA12WT
1815	24/ 4/81	SPRF B	AIRGUN-4SEC	EPC1 K09	GDC 09	39.9S 121 52.8E	S RAMA12WT
0048	29/ 4/81	SPRF E	AIRGUN-4SEC	EPC1 K09	GDC 02	08.6S 126 10.4E	S RAMA12WT

GMT TIME	D / M / Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
0054	29/ 4/81			SPRF B	AIRGUN-4SFC EPC1 R10	GDC 02	08.15	126 11.1E	S RAMA12WT
0407	29/ 4/81			SPRF E	AIRGUN-4SFC EPC1 R10	GDC 01	49.45	126 34.0E	S RAMA12WT
1110	3/ 4/81			SPRS B	AIRGUN-5SEC FPC3 R01	GDC 02	33.05	126 58.4E	S RAMA12WT
0202	4/ 4/81			SPRS E	AIRGUN-5SEC FPC3 R01	GDC 04	21.55	127 35.3E	S RAMA12WT
1902	7/ 4/81			SPRS B	A.G.(10)RFV.EPC3 R-2	GDC 08	29.15	125 35.0E	S RAMA12WT
0735	8/ 4/81			SPRS E	A.G.(10)RFV.EPC3 R-2	GDC 07	25.75	124 52.6E	S RAMA12WT
1714	28/ 4/81			SPRS B	A.G.(4)RFV. EPC3 R-3	GDC 02	52.05	126 08.4E	S RAMA12WT
0407	29/ 4/81			SPRS E	A.G.(4)RFV. EPC3 R-3	GDC 01	49.45	126 34.0E	S RAMA12WT

SINGLE-CHANNEL DIGITAL SEISMIC TAPES

0941	29/ 4/81			SPST B	SINGLE-CHANNEL TAPES	SEC 01	06.1N	126 13.9E	S RAMA12WT
0408	29/ 4/81			SPST E	REEL 0001-0054				

*** SONOBUOY ***

0840	8/ 4/81			SBSO	SONOBUOY RAMA 12-1	UCC 07	34.75	124 51.1E	S RAMA12WT
1029	8/ 4/81			SBSO	SONOBUOY RAMA 12-2	UCC 07	50.25	124 52.8E	S RAMA12WT
2000	12/ 4/81			SBSO	SONOBUOY RAMA 12-3	UCC 07	31.65	120 13.7E	S RAMA12WT
0613	22/ 4/81			SBSO	SONOBUOY RAMA 12-4	UCC 12	48.55	121 01.4E	S RAMA12WT
1951	24/ 4/81			SBSO	SONOBUOY RAMA 12-5	UCC 09	42.15	122 02.9E	S RAMA12W
0454	26/ 4/81			SBSO	SONOBUOY RAMA 12-6	UCC 09	43.85	122 30.9E	S RAMA12W.
1221	26/ 4/81			SBSO	SONOBUOY RAMA 12-7	UCC 09	06.55	122 59.9E	S RAMA12WT

*** SEISMIC REFLECTION LINE, DIGITAL, SINGLE CHANNEL ***

0928	2/ 4/81			SPSL B	SEIS.REFLECT.LINE-01	GDC 01	07.8N	125 14.7E	S RAMA12WT
1249	2/ 4/81			SPSL E	SEIS.REFLECT.LINE-01	GDC 00	42.4N	125 26.7E	S RAMA12WT
0118	3/ 4/81			SPSL B	SEIS.REFLECT.LINE-02	GDC 01	24.05	126 27.2E	S RAMA12WT
1400	4/ 4/81			SPSL E	SEIS.REFLECT.LINE-02	GDC 05	59.35	128 11.2E	S RAMA12WT
1404	4/ 4/81			SPSL B	SEIS.REFLECT.LINE-03	GDC 05	59.85	128 11.4E	S RAMA12WT
0454	5/ 4/81			SPSL E	SEIS.REFLECT.LINE-03	GDC 08	11.25	128 15.9E	S RAMA12WT
0454	5/ 4/81			SPSL B	SEIS.REFLECT.LINE-04	GDC 08	11.25	128 15.9E	S RAMA12WT
1801	5/ 4/81			SPSL E	SEIS.REFLECT.LINE-04	GDC 06	45.25	127 12.9E	S RAMA12WT
1805	5/ 4/81			SPSL B	SEIS.REFLECT.LINE-05	GDC 06	45.85	127 12.9E	S RAMA12WT
0452	6/ 4/81			SPSL E	SEIS.REFLECT.LINE-05	GDC 08	18.45	127 17.3E	S RAMA12WT
0455	6/ 4/81			SPSL B	SEIS.REFLECT.LINE-06	GDC 08	18.35	127 16.4E	S RAMA12WT
0700	6/ 4/81			SPSL E	SEIS.REFLECT.LINE-06	GDC 08	12.25	127 01.0E	S RAMA12WT
0701	6/ 4/81			SPSL B	SEIS.REFLECT.LINE-07	GDC 08	12.15	127 01.0E	S RAMA12WT
1616	6/ 4/81			SPSL E	SEIS.REFLECT.LINE-07	GDC 06	57.25	126 39.1E	S RAMA12WT

GMT TIME	D / M / Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDFN.	CODE DISP	LAT.	LONG.	LEG-SHIP
1620	6/ 4/81			SPSL B	SEIS.REFLFCT.LINE-08	GDC 06	57.6S	126 38.7E	S RAMA12WT
2211	6/ 4/81			SPSL E	SEIS.REFLFCT.LINE-08	GDC 07	38.1S	126 13.8E	S RAMA12WT
2211	6/ 4/81			SPSL B	SEIS.REFLFCT.LINE-09	GDC 07	38.1S	126 13.8E	S RAMA12WT
0502	7/ 4/81			SPSL E	SEIS.REFLFCT.LINE-09	GDC 06	54.7S	125 34.0E	S RAMA12WT
0502	7/ 4/81			SPSL B	SEIS.REFLFCT.LINE-10	GDC 06	54.7S	125 34.0E	S RAMA12WT
0646	7/ 4/81			SPSL E	SEIS.REFLFCT.LINE-10	GDC 06	56.3S	125 19.6E	S RAMA12WT
0646	7/ 4/81			SPSL B	SEIS.REFLFCT.LINE-11	GDC 06	56.3S	125 19.6E	S RAMA12WT
1730	7/ 4/81			SPSL E	SEIS.REFLFCT.LINE-11	GDC 08	27.0S	125 47.0E	S RAMA12WT
1730	7/ 4/81			SPSL B	SEIS.REFLFCT.LINE-12	GDC 08	27.0S	125 47.0E	S RAMA12WT
2022	7/ 4/81			SPSL E	SEIS.REFLFCT.LINE-12	GDC 08	29.8S	125 25.0E	S RAMA12WT
2022	7/ 4/81			SPSL B	SEIS.REFLFCT.LINE-13	GDC 08	29.8S	125 25.0E	S RAMA12WT
0602	8/ 4/81			SPSL E	SEIS.REFLFCT.LINE-13	GDC 07	25.3S	125 04.7E	S RAMA12WT
0602	8/ 4/81			SPSL B	SEIS.REFLFCT.LINE-14	GDC 07	25.3S	125 04.7E	S RAMA12WT
0735	8/ 4/81			SPSL E	SEIS.REFLFCT.LINE-14	GDC 07	25.7S	124 52.6E	S RAMA12WT
0735	8/ 4/81			SPSL B	SEIS.REFLFCT.LINE-15	GDC 07	25.7S	124 52.6E	S RAMA12WT
1219	8/ 4/81			SPSL E	SEIS.REFLFCT.LINE-15	GDC 08	05.7S	124 54.2E	S RAMA12WT
1219	8/ 4/81			SPSL B	SEIS.REFLFCT.LINE-16	GDC 08	05.7S	124 54.2E	S RAMA12WT
1352	8/ 4/81			SPSL E	SEIS.REFLFCT.LINE-16	GDC 08	07.2S	124 43.6E	S RAMA12WT
1731	8/ 4/81			SPSL B	SEIS.REFLFCT.LINE-17	GDC 08	07.2S	124 43.6E	S RAMA12WT
1731	8/ 4/81			SPSL E	SEIS.REFLFCT.LINE-17	GDC 07	41.8S	124 32.5E	S RAMA12WT
1731	8/ 4/81			SPSL B	SEIS.REFLFCT.LINE-18	GDC 07	41.8S	124 32.5E	S RAMA12WT
2057	8/ 4/81			SPSL E	SEIS.REFLFCT.LINE-18	GDC 08	08.1S	124 22.1E	S RAMA12WT
2058	8/ 4/81			SPSL B	SEIS.REFLFCT.LINE-19	GDC 08	08.2S	124 22.0E	S RAMA12WT
0121	9/ 4/81			SPSL E	SEIS.REFLFCT.LINE-19	GDC 07	39.6S	124 06.3E	S RAMA12WT
0121	9/ 4/81			SPSL B	SEIS.REFLFCT.LINE-20	GDC 07	39.6S	124 06.3E	S RAMA12WT
0521	9/ 4/81			SPSL E	SEIS.REFLFCT.LINE-20	GDC 08	09.2S	123 56.5E	S RAMA12WT
0521	9/ 4/81			SPSL B	SEIS.REFLFCT.LINE-21	GDC 08	09.2S	123 56.5E	S RAMA12WT
0715	9/ 4/81			SPSL E	SEIS.REFLFCT.LINE-21	GDC 08	08.7S	123 43.3E	S RAMA12WT
0715	9/ 4/81			SPSL B	SEIS.REFLFCT.LINE-22	GDC 08	08.7S	123 43.3E	S RAMA12WT
1130	9/ 4/81			SPSL E	SEIS.REFLFCT.LINE-22	GDC 07	37.0S	123 37.6E	S RAMA12WT
1130	9/ 4/81			SPSL B	SEIS.REFLFCT.LINE-23	GDC 07	37.0S	123 37.6E	S RAMA12WT
1616	9/ 4/81			SPSL E	SEIS.REFLFCT.LINE-23	GDC 08	10.3S	123 21.3E	S RAMA12WT
1616	9/ 4/81			SPSL B	SEIS.REFLFCT.LINE-24	GDC 08	10.3S	123 21.3E	S RAMA12WT
1951	9/ 4/81			SPSL E	SEIS.REFLFCT.LINE-24	GDC 07	43.8S	123 09.9E	S RAMA12WT
1951	9/ 4/81			SPSL B	SEIS.REFLFCT.LINE-25	GDC 07	43.8S	123 09.9E	S RAMA12WT
2302	9/ 4/81			SPSL E	SEIS.REFLFCT.LINE-25	GDC 08	01.6S	122 58.8E	S RAMA12WT

GMT TIME	D / M / Y DATE	LUC TIME	LDC T2	CODE SAMP	SAMPLF IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
2302	9/ 4/81			SPSL B	SEIS.RFFLECT.LINE-26	GDC 08	01.6S	122 58.8E	S RAMA12WT
2359	9/ 4/81			SPSL E	SEIS.RFFLECT.LINE-26	GDC 08	01.7S	122 51.9E	S RAMA12WT
2359	9/ 4/81			SPSL B	SEIS.RFFLECT.LINE-27	GDC 08	01.7S	122 51.9E	S RAMA12WT
0406	10/ 4/81			SPSL E	SEIS.REFLECT.LINE-27	GDC 07	35.6S	122 35.7E	S RAMA12WT
0406	10/ 4/81			SPSL B	SEIS.RFFLECT.LINE-28	GDC 07	35.6S	122 35.7E	S RAMA12WT
1018	10/ 4/81			SPSL E	SEIS.RFFLECT.LINE-28	GDC 08	19.9S	122 24.5E	S RAMA12WT
1018	10/ 4/81			SPSL B	SEIS.RFFLECT.LINE-29	GDC 08	19.9S	122 24.5E	S RAMA12WT
1619	10/ 4/81			SPSL E	SEIS.RFFLECT.LINE-29	GDC 07	36.1S	122 03.2E	S RAMA12WT
1619	10/ 4/81			SPSL B	SEIS.RFFLECT.LINE-30	GDC 07	36.1S	122 03.2E	S RAMA12WT
1746	10/ 4/81			SPSL E	SEIS.REFLECT.LINE-30	GDC 07	44.4S	121 55.0E	S RAMA12WT
1746	10/ 4/81			SPSL B	SEIS.RFFLECT.LINE-31	GDC 07	44.4S	121 55.0E	S RAMA12WT
2231	10/ 4/81			SPSL E	SEIS.RFFLECT.LINE-31	GDC 08	24.2S	121 53.9E	S RAMA12WT
2231	10/ 4/81			SPSL B	SEIS.RFFLECT.LINE-32	GDC 08	24.2S	121 53.9E	S RAMA12WT
0130	11/ 4/81			SPSL E	SEIS.RFFLECT.LINE-32	GDC 08	25.6S	121 30.1E	S RAMA12WT
0130	11/ 4/81			SPSL B	SEIS.RFFLECT.LINE-33	GDC 08	25.6S	121 30.1E	S RAMA12WT
0755	11/ 4/81			SPSL E	SEIS.RFFLECT.LINE-33	GDC 07	34.4S	121 21.6E	S RAMA12WT
0755	11/ 4/81			SPSL B	SEIS.RFFLECT.LINE-34	GDC 07	34.4S	121 21.6E	S RAMA12WT
0939	11/ 4/81			SPSL E	SEIS.RFFLECT.LINE-34	GDC 07	34.2S	121 37.6E	S RAMA12WT
0939	11/ 4/81			SPSL B	SEIS.RFFLECT.LINE-35	GDC 07	34.2S	121 37.6E	S RAMA12WT
1446	11/ 4/81			SPSL E	SEIS.RFFLECT.LINE-35	GDC 08	17.0S	121 39.2E	S RAMA12WT
1446	11/ 4/81			SPSL B	SEIS.RFFLECT.LINE-36	GDC 08	17.0S	121 39.2E	S RAMA12WT
1751	11/ 4/81			SPSL B	SEIS.RFFLECT.LINE-37	GDC 08	21.4S	121 15.5E	S RAMA12WT
0030	12/ 4/81			SPSL E	SEIS.RFFLECT.LINE-37	GDC 07	28.5S	121 03.9E	S RAMA12WT
0030	12/ 4/81			SPSL B	SEIS.RFFLECT.LINE-38	GDC 07	28.5S	121 03.9E	S RAMA12WT
0120	12/ 4/81			SPSL E	SEIS.RFFLECT.LINE-38	GDC 07	28.3S	120 55.8E	S RAMA12WT
0120	12/ 4/81			SPSL B	SEIS.RFFLECT.LINE-39	GDC 07	28.3S	120 55.8E	S RAMA12WT
0707	12/ 4/81			SPSL E	SEIS.REFLECT.LINE-39	GDC 08	17.3S	120 53.5E	S RAMA12WT
0707	12/ 4/81			SPSL B	SEIS.RFFLECT.LINE-40	GDC 08	17.3S	120 53.5E	S RAMA12WT
1000	12/ 4/81			SPSL E	SEIS.RFFLECT.LINE-40	GDC 08	11.4S	120 32.3E	S RAMA12WT
1000	12/ 4/81			SPSL B	SEIS.RFFLECT.LINE-41	GDC 08	11.4S	120 32.3E	S RAMA12WT
1623	12/ 4/81			SPSL E	SEIS.RFFLECT.LINE-41	GDC 07	20.4S	120 32.9E	S RAMA12WT
1623	12/ 4/81			SPSL B	SEIS.RFFLECT.LINE-42	GDC 07	20.4S	120 32.9E	S RAMA12WT
1850	12/ 4/81			SPSL E	SEIS.REFLECT.LINE-42	GDC 07	22.0S	120 13.7E	S RAMA12WT
1850	12/ 4/81			SPSL B	SEIS.RFFLECT.LINE-43	GDC 07	22.0S	120 13.7E	S RAMA12WT
0105	13/ 4/81			SPSL E	SEIS.RFFLECT.LINE-43	GDC 08	12.9S	120 14.1E	S RAMA12WT

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TIME	DATE	TIME TZ	SAMP		DISP	LAT.	LONG.		LEG-SHIP

0959	13/ 4/81		SPSL B	SEIS.RFFLFCT.LINE-44	GDC 08	15.0S	120 13.0E	S	RAMA12WT
1302	13/ 4/81		SPSL E	SEIS.REFLFCT.LINE-44	GDC 08	13.4S	119 47.7E	S	RAMA12WT
1302	13/ 4/81		SPSL B	SEIS.RFFLFCT.LINE-45	GDC 08	13.4S	119 47.7E	S	RAMA12WT
1930	13/ 4/81		SPSL E	SEIS.RFFLFCT.LINE-45	GDC 07	20.0S	119 47.7E	S	RAMA12WT
1930	13/ 4/81		SPSL B	SEIS.RFFLFCT.LINE-46	GDC 07	20.0S	119 47.7E	S	RAMA12WT
2300	13/ 4/81		SPSL E	SEIS.RFFLFCT.LINE-46	GDC 07	21.1S	119 19.4E	S	RAMA12WT
2300	13/ 4/81		SPSL B	SEIS.RFFLFCT.LINE-47	GDC 07	21.1S	119 19.4E	S	RAMA12WT
0555	14/ 4/81		SPSL E	SEIS.REFLFCT.LINE-47	GDC 08	19.6S	119 23.0E	S	RAMA12WT
0555	14/ 4/81		SPSL B	SEIS.RFFLFCT.LINE-48	GDC 08	19.6S	119 23.0E	S	RAMA12WT
0950	14/ 4/81		SPSL E	SEIS.RFFLFCT.LINE-48	GDC 08	13.7S	118 52.0E	S	RAMA12WT
0950	14/ 4/81		SPSL B	SEIS.RFFLFCT.LINE-49	GDC 08	13.7S	118 52.0E	S	RAMA12WT
1623	14/ 4/81		SPSL E	SEIS.RFFLFCT.LINE-49	GDC 07	21.7S	118 52.8E	S	RAMA12WT
1623	14/ 4/81		SPSL B	SEIS.RFFLFCT.LINE-50	GDC 07	21.7S	118 52.8E	S	RAMA12WT
1912	14/ 4/81		SPSL E	SEIS.RFFLFCT.LINE-50	GDC 07	23.3S	118 29.7E	S	RAMA12WT
1912	14/ 4/81		SPSL B	SEIS.RFFLFCT.LINE-51	GDC 07	23.3S	118 29.7E	S	RAMA12WT
0048	15/ 4/81		SPSL E	SEIS.RFFLFCT.LINE-51	GDC 08	10.4S	118 31.1E	S	RAMA12WT
0048	15/ 4/81		SPSL B	SEIS.REFLFCT.LINE-52	GDC 08	10.4S	118 31.1E	S	RAMA12WT
0216	15/ 4/81		SPSL E	SEIS.RFFLFCT.LINE-52	GDC 08	11.0S	118 18.8E	S	RAMA12WT
0216	15/ 4/81		SPSL B	SEIS.RFFLFCT.LINE-53	GDC 08	11.0S	118 18.8E	S	RAMA12WT
0603	15/ 4/81		SPSL E	SEIS.RFFLFCT.LINE-53	GDC 07	39.6S	118 13.1E	S	RAMA12WT
0603	15/ 4/81		SPSL B	SEIS.RFFLFCT.LINE-54	GDC 07	39.6S	118 13.1E	S	RAMA12WT
0722	15/ 4/81		SPSL E	SEIS.RFFLFCT.LINE-54	GDC 07	39.9S	118 03.1E	S	RAMA12WT
0722	15/ 4/81		SPSL B	SEIS.RFFLFCT.LINE-55	GDC 07	39.9S	118 03.1E	S	RAMA12WT
1000	15/ 4/81		SPSL E	SEIS.RFFLFCT.LINE-55	GDC 08	01.4S	118 00.6E	S	RAMA12WT
1000	15/ 4/81		SPSL B	SEIS.RFFLFCT.LINE-56	GDC 08	01.4S	118 00.6E	S	RAMA12WT
1200	15/ 4/81		SPSL E	SEIS.RFFLFCT.LINE-56	GDC 08	03.1S	117 46.7E	S	RAMA12WT
1516	15/ 4/81		SPSL B	SEIS.RFFLFCT.LINE-57	GDC 07	36.8S	117 43.2E	S	RAMA12WT
1516	15/ 4/81		SPSL E	SEIS.RFFLFCT.LINE-57	GDC 07	36.8S	117 43.2E	S	RAMA12WT
1707	15/ 4/81		SPSL B	SEIS.RFFLFCT.LINE-58	GDC 07	36.8S	117 43.2E	S	RAMA12WT
1707	15/ 4/81		SPSL E	SEIS.RFFLFCT.LINE-58	GDC 07	37.4S	117 28.0E	S	RAMA12WT
1707	15/ 4/81		SPSL B	SEIS.RFFLFCT.LINE-59	GDC 07	37.4S	117 28.0E	S	RAMA12WT
2203	15/ 4/81		SPSL E	SEIS.RFFLFCT.LINE-59	GDC 08	16.3S	117 24.2E	S	RAMA12WT
2203	15/ 4/81		SPSL B	SEIS.RFFLFCT.LINE-60	GDC 08	16.3S	117 24.2E	S	RAMA12WT
2302	15/ 4/81		SPSL E	SEIS.REFLFCT.LINE-60	GDC 08	15.7S	117 17.0E	S	RAMA12WT
2302	15/ 4/81		SPSL B	SEIS.REFLFCT.LINE-61	GDC 08	15.7S	117 17.0E	S	RAMA12WT
0409	16/ 4/81		SPSL E	SEIS.RFFLFCT.LINE-61	GDC 07	39.4S	116 56.6E	S	RAMA12WT

GMT TIME	D / M / Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	26 JUN 81		PAGE	8
							LAT.	LONG.		
0409	16/ 4/81			SPSL B	SEIS.RFFLECT.LINE-62	GDC 07	39.4S	116 56.6E	S	RAMA12WT
0430	16/ 4/81			SPSL E	SEIS.REFLECT.LINE-62	GDC 07	39.7S	116 53.7E	S	RAMA12WT
0430	16/ 4/81			SPSL B	SEIS.RFFLECT.LINE-63	GDC 07	39.7S	116 53.7E	S	RAMA12WT
0921	16/ 4/81			SPSL E	SEIS.RFFLECT.LINE-63	GDC 08	19.1S	116 46.8E	S	RAMA12WT
0921	16/ 4/81			SPSL B	SEIS.RFFLECT.LINE-64	GDC 08	19.1S	116 46.8E	S	RAMA12WT
1044	16/ 4/81			SPSL E	SEIS.RFFLECT.LINE-64	GDC 08	12.6S	116 39.3E	S	RAMA12WT
1044	16/ 4/81			SPSL B	SEIS.RFFLECT.LINE-65	GDC 08	12.6S	116 39.3E	S	RAMA12WT
1657	16/ 4/81			SPSL E	SEIS.RFFLECT.LINE-65	GDC 07	28.6S	116 16.4E	S	RAMA12WT
1657	16/ 4/81			SPSL B	SEIS.RFFLECT.LINE-66	GDC 07	28.6S	116 16.4E	S	RAMA12WT
1853	16/ 4/81			SPSL E	SEIS.REFLECT.LINE-66	GDC 07	30.1S	115 54.6E	S	RAMA12WT
1853	16/ 4/81			SPSL B	SEIS.RFFLECT.LINE-67	GDC 07	30.1S	115 59.6E	S	RAMA12WT
0017	17/ 4/81			SPSL E	SEIS.REFLECT.LINE-67	GDC 08	16.4S	115 58.3E	S	RAMA12WT
0017	17/ 4/81			SPSL B	SEIS.RFFLECT.LINE-68	GDC 08	16.4S	115 58.3E	S	RAMA12WT
0424	17/ 4/81			SPSL E	SEIS.RFFLECT.LINE-68	GDC 08	08.8S	115 28.1E	S	RAMA12WT
0424	17/ 4/81			SPSL B	SEIS.RFFLECT.LINE-69	GDC 08	08.8S	115 28.1E	S	RAMA12WT
1024	17/ 4/81			SPSL E	SEIS.REFLECT.LINE-69	GDC 07	20.5S	115 17.0E	S	RAMA12WT
1024	17/ 4/81			SPSL B	SEIS.RFFLECT.LINE-70	GDC 07	20.5S	115 17.0E	S	RAMA12WT
1243	17/ 4/81			SPSL E	SEIS.REFLECT.LINE-70	GDC 07	22.0S	114 58.3E	S	RAMA12WT
1243	17/ 4/81			SPSL B	SEIS.RFFLECT.LINE-71	GDC 07	22.0S	114 58.3E	S	RAMA12WT
1814	17/ 4/81			SPSL E	SEIS.REFLECT.LINE-71	GDC 08	05.8S	114 47.0E	S	RAMA12WT
1814	17/ 4/81			SPSL B	SEIS.RFFLECT.LINE-72	GDC 08	05.8S	114 47.0E	S	RAMA12WT
2020	17/ 4/81			SPSL E	SEIS.RFFLECT.LINE-72	GDC 07	59.9S	115 03.4E	S	RAMA12WT
2020	17/ 4/81			SPSL B	SEIS.RFFLECT.LINE-73	GDC 07	59.9S	115 03.4E	S	RAMA12WT
1627	18/ 4/81			SPSL E	SEIS.RFFLECT.LINE-73	GDC 07	59.1S	117 59.8E	S	RAMA12WT
0647	19/ 4/81			SPSL B	SEIS.RFFLECT.LINE-74	GDC 08	50.4S	119 29.7E	S	RAMA12WT
1415	19/ 4/81			SPSL E	SEIS.RFFLECT.LINE-74	GDC 09	35.7S	118 45.8E	S	RAMA12WT
1415	19/ 4/81			SPSL B	SEIS.RFFLECT.LINE-75	GDC 09	35.7S	118 45.8E	S	RAMA12WT
0550	20/ 4/81			SPSL E	SEIS.RFFLECT.LINE-75	GDC 11	41.8S	118 40.7E	S	RAMA12WT
0550	20/ 4/81			SPSL B	SEIS.REFLECT.LINE-76	GDC 11	44.4S	118 60.7E	S	RAMA12WT
1004	20/ 4/81			SPSL E	SEIS.RFFLECT.LINE-77	GDC 11	44.4S	119 08.6E	S	RAMA12WT
0111	21/ 4/81			SPSL B	SEIS.REFLECT.LINE-77	GDC 10	13.4S	119 54.7E	S	RAMA12WT
0111	21/ 4/81			SPSL B	SEIS.RFFLECT.LINE-78	GDC 10	13.4S	119 54.7E	S	RAMA12WT
2324	21/ 4/81			SPSL E	SEIS.RFFLECT.LINE-78	GDC 12	48.3S	120 17.7E	S	RAMA12WT
2324	21/ 4/81			SPSL B	SEIS.RFFLECT.LINE-79	GDC 12	48.3S	120 17.7E	S	RAMA12WT
0555	22/ 4/81			SPSL E	SEIS.REFLECT.LINE-79	GDC 12	50.5S	121 01.1E	S	RAMA12WT

GMT TIME	D / M / Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	PAGE	9 LEG-SHIP CRUISE
0555	22 / 4 / 81			SPSL B	SEIS.REFLFCT.LINE-80	GDC 12	50.55	121 01.1E	S	KAMA12WT
1905	23 / 4 / 81			SPSL E	SEIS.RFFLFCT.LINE-80	GDC 08	56.35	121 11.7E	S	KAMA12WT
1905	23 / 4 / 81			SPSL B	SEIS.RFFLFCT.LINE-81	GDC 08	56.35	121 11.7E	S	KAMA12WT
0134	24 / 4 / 81			SPSL E	SEIS.RFFLFCT.LINE-81	GDC 09	38.65	120 37.8E	S	KAMA12WT
0134	24 / 4 / 81			SPSL B	SEIS.REFLFCT.LINE-82	GDC 09	38.65	120 37.8E	S	KAMA12WT
1120	24 / 4 / 81			SPSL E	SEIS.RFFLECT.LINE-82	GDC 10	33.35	121 35.0E	S	KAMA12WT
1120	24 / 4 / 81			SPSL B	SEIS.REFLFCT.LINE-83	GDC 10	33.35	121 35.0E	S	KAMA12WT
1805	24 / 4 / 81			SPSL E	SEIS.RFFLECT.LINE-83	GDC 09	40.15	121 51.6E	S	KAMA12WT
1805	24 / 4 / 81			SPSL B	SEIS.REFLFCT.LINE-84	GDC 09	40.15	121 51.6E	S	KAMA12WT
1937	24 / 4 / 81			SPSL E	SEIS.RFFLFCT.LINE-84	GDC 09	40.25	122 02.8E	S	KAMA12WT
1937	24 / 4 / 81			SPSL B	SEIS.RFFLFCT.LINE-85	GDC 09	40.25	122 02.8E	S	KAMA12WT
1030	25 / 4 / 81			SPSL E	SEIS.REFLFCT.LINE-85	GDC 11	47.95	122 05.8E	S	KAMA12WT
1030	25 / 4 / 81			SPSL B	SEIS.RFFLFCT.LINE-86	GDC 11	47.95	122 05.8E	S	KAMA12WT
1234	25 / 4 / 81			SPSL E	SEIS.REFLECT.LINE-86	GDC 11	49.45	122 21.1E	S	KAMA12WT
1234	25 / 4 / 81			SPSL B	SEIS.RFFLFCT.LINE-87	GDC 11	49.45	122 21.1E	S	KAMA12WT
0845	26 / 4 / 81			SPSL E	SEIS.REFLFCT.LINE-87	GDC 09	13.45	122 30.8E	S	KAMA12WT
0845	26 / 4 / 81			SPSL B	SEIS.RFFLECT.LINE-88	GDC 09	13.45	122 30.8E	S	KAMA12WT
2150	26 / 4 / 81			SPSL E	SEIS.RFFLECT.LINE-88	GDC 08	44.65	124 16.5E	S	KAMA12WT
2150	26 / 4 / 81			SPSL B	SEIS.RFFLECT.LINE-89	GDC 08	44.65	124 16.5E	S	KAMA12WT
0221	27 / 4 / 81			SPSL E	SEIS.RFFLFCT.LINE-89	GDC 09	06.25	123 39.5E	S	KAMA12WT
0221	27 / 4 / 81			SPSL B	SEIS.RFFLFCT.LINE-90	GDC 09	06.25	123 39.5E	S	KAMA12WT
0551	27 / 4 / 81			SPSL E	SEIS.RFFLECT.LINE-90	GDC 08	35.75	123 40.2E	S	KAMA12WT
1342	28 / 4 / 81			SPSL B	SEIS.RFFLECT.LINE-91	GDC 03	16.25	125 45.7E	S	KAMA12WT
2104	28 / 4 / 81			SPSL E	SEIS.REFLECT.LINE-91	GDC 02	21.55	126 29.6E	S	KAMA12WT
2104	28 / 4 / 81			SPSL B	SEIS.RFFLFCT.LINE-92	GDC 02	21.55	126 29.6E	S	KAMA12WT
2351	28 / 4 / 81			SPSL E	SEIS.RFFLFCT.LINE-92	GDC 02	13.75	126 03.7E	S	KAMA12WT
2351	28 / 4 / 81			SPSL B	SEIS.RFFLFCT.LINE-93	GDC 02	13.75	126 03.7E	S	KAMA12WT
0408	29 / 4 / 81			SPSL E	SEIS.RFFLFCT.LINE-93	GDC 01	49.45	126 33.9E	S	KAMA12WT
GRAB SAMPLE										
0200	13 / 4 / 81			GBGS	SURF.SAM. FLORES IS.	UCC 08	17.15	120 15.0E	F	KAMA12WT
9900					END SAMPLE INDEX					KAMA12WT