

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

RAMA EXPEDITION

LEG 5

Agana, Guam (22 August 1980)
to
Padang, Sumatra (29 September 1980)

R/V Thomas Washington

Co-Chief Scientists - G. Moore and J. Curray (SIO)

Resident Marine Tech - R. Wilson

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

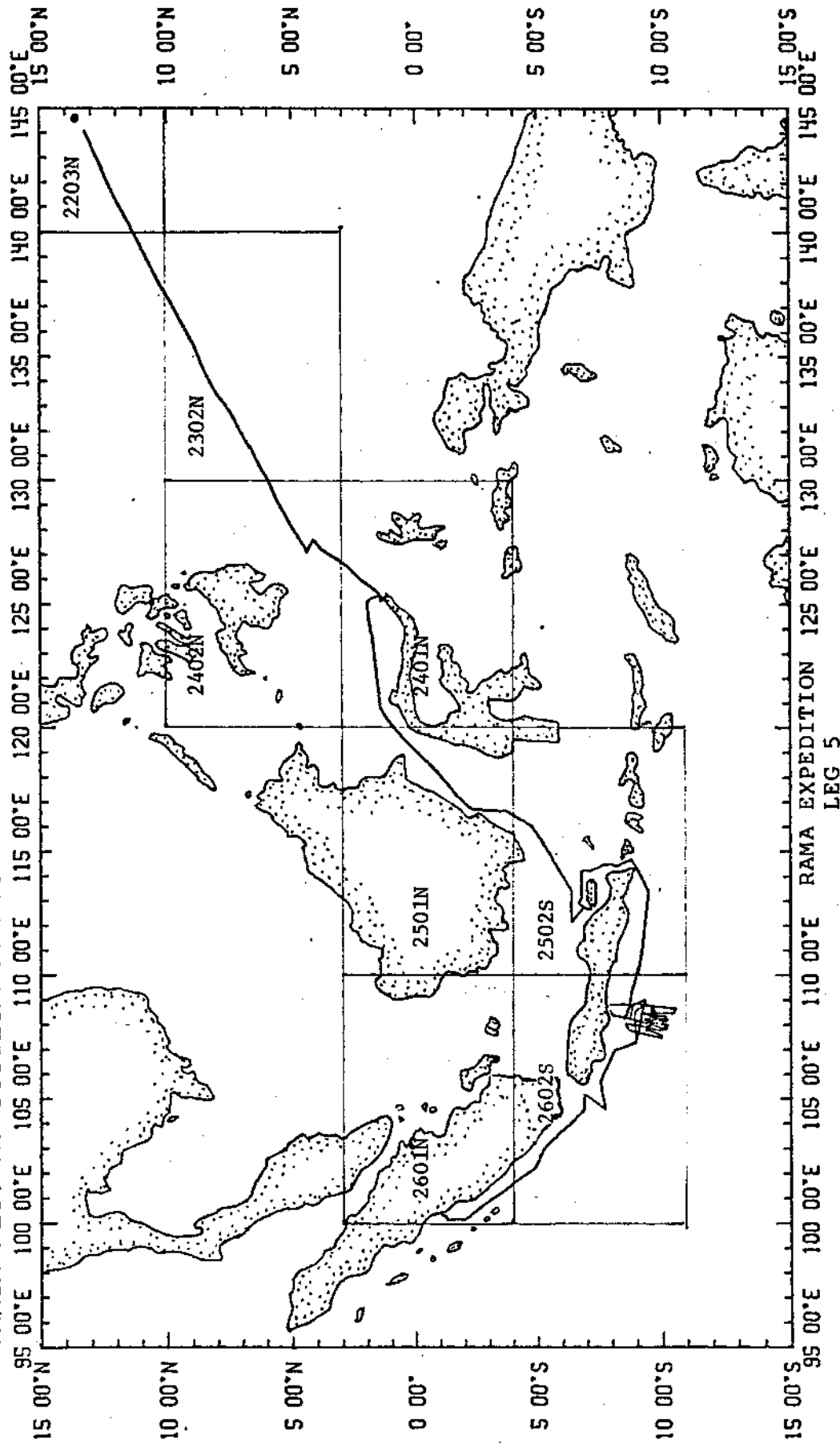
Data Collection Funded by NSF
Grant Number OCE79-20482
Data Processing Funded by SIA, NSF and ONR

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.

RAMA05WT

TRACK PLOT AT 1632IN/DEGREE



CO-CHIEF SCIENTISTS: J. Curray and G. Moore (SIO)

PORTS: Agana, Guam - Padang, Sumatra

DATES: 22 August - 29 September 1980

SHIP: R/V T. Washington

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

- 1) Cruise - 5682 miles
- 2) Bathymetry - 5187 miles
- 3) Magnetics - 4130 miles
- 4) Seismic Reflection - 4162 miles
- 5) Gravity - 5682 mil. (approximately)

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

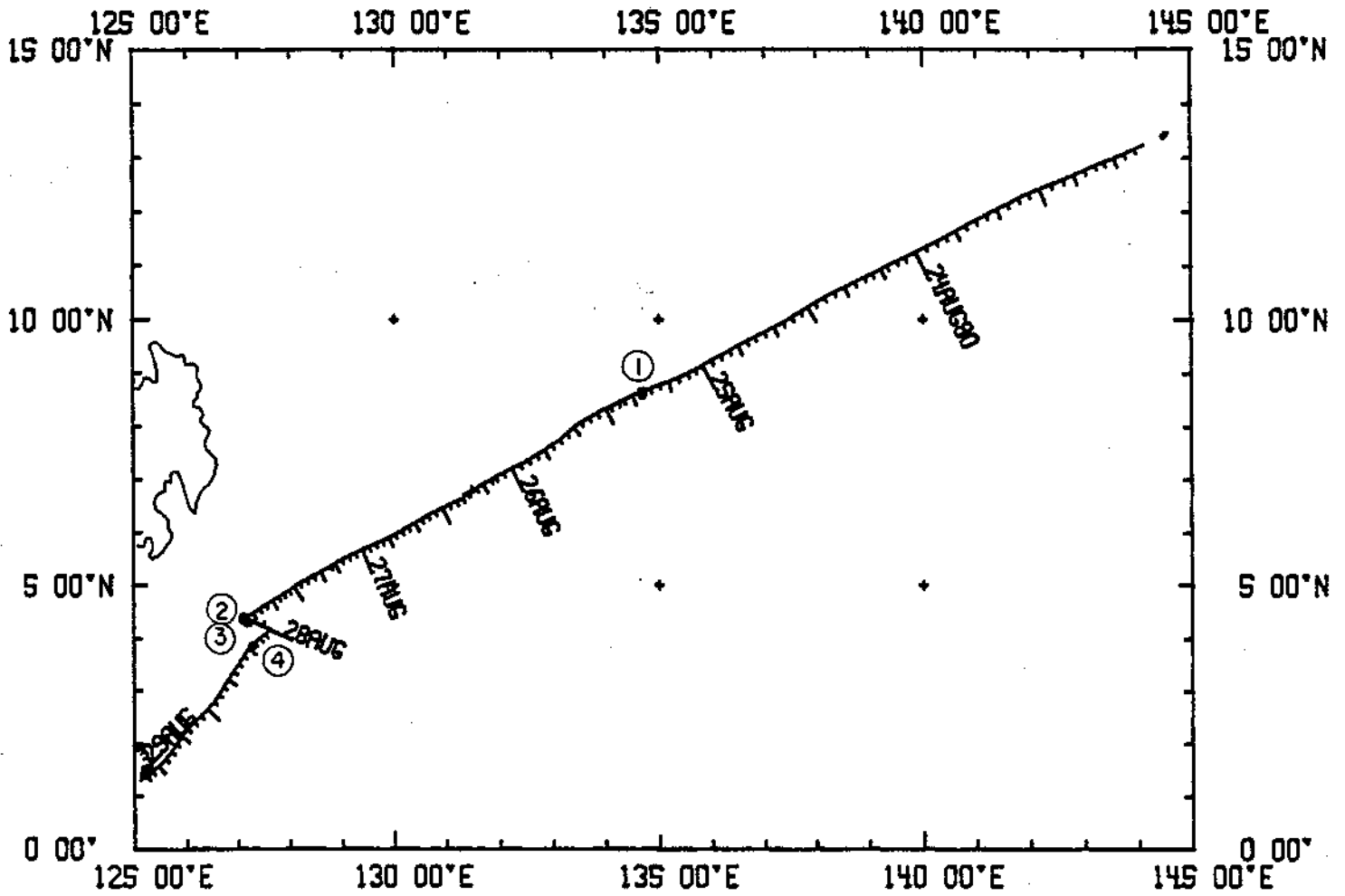
Contents:

- 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.

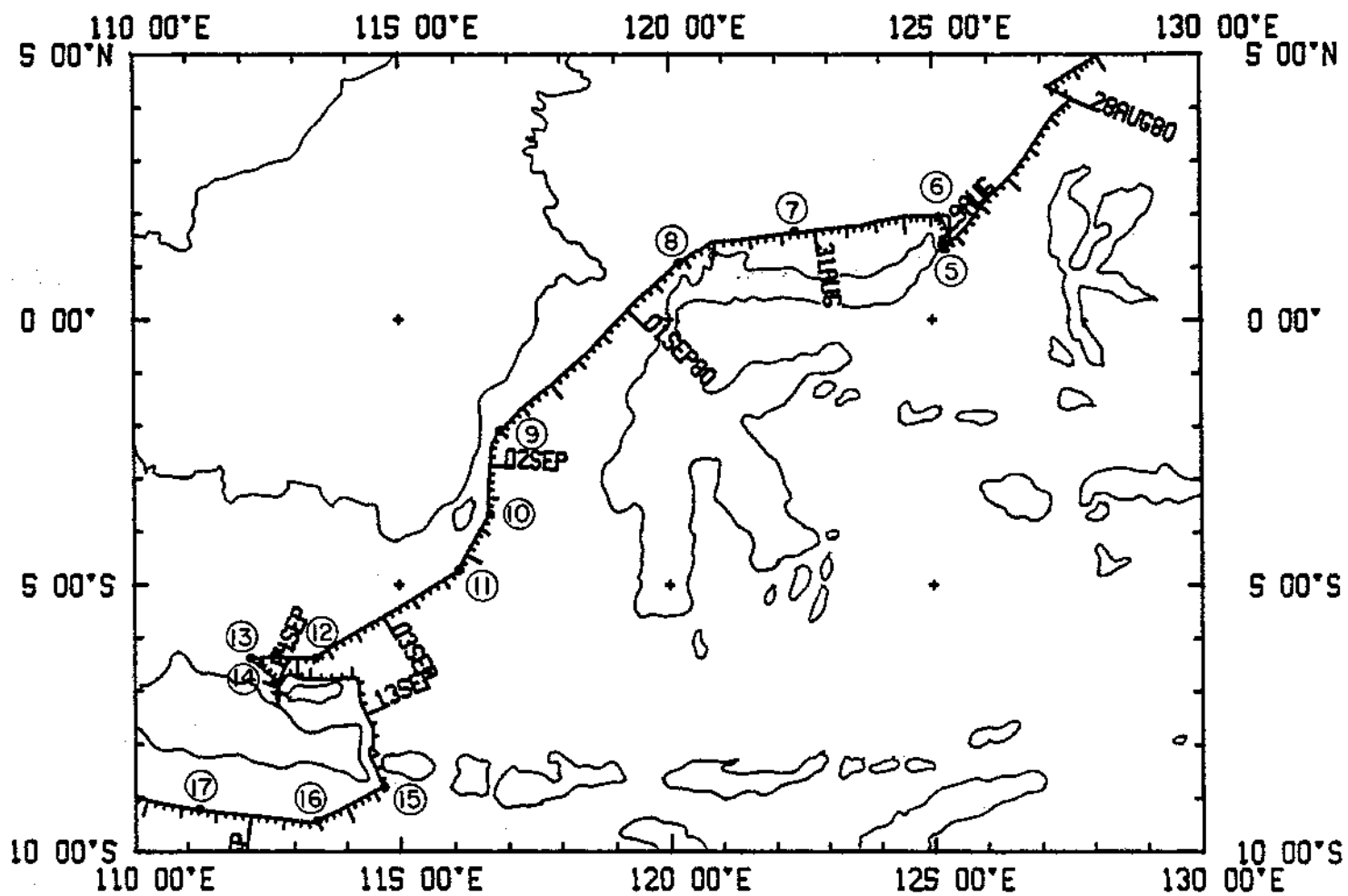
1. Navigation listing of times and positions of course and speed changes, fixes and drift velocity.
2. Depth compilation plots - in fathoms (assumed sound velocity of 800 fm/sec) or meters (assumed sound velocity of 1500m/sec) at approximately 1 mile spacing, plotted at 4in/degree with standard U. S. 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

RAMA05WT (1 OF 3)
TRACK PLOT AT .312IN/DEGREE



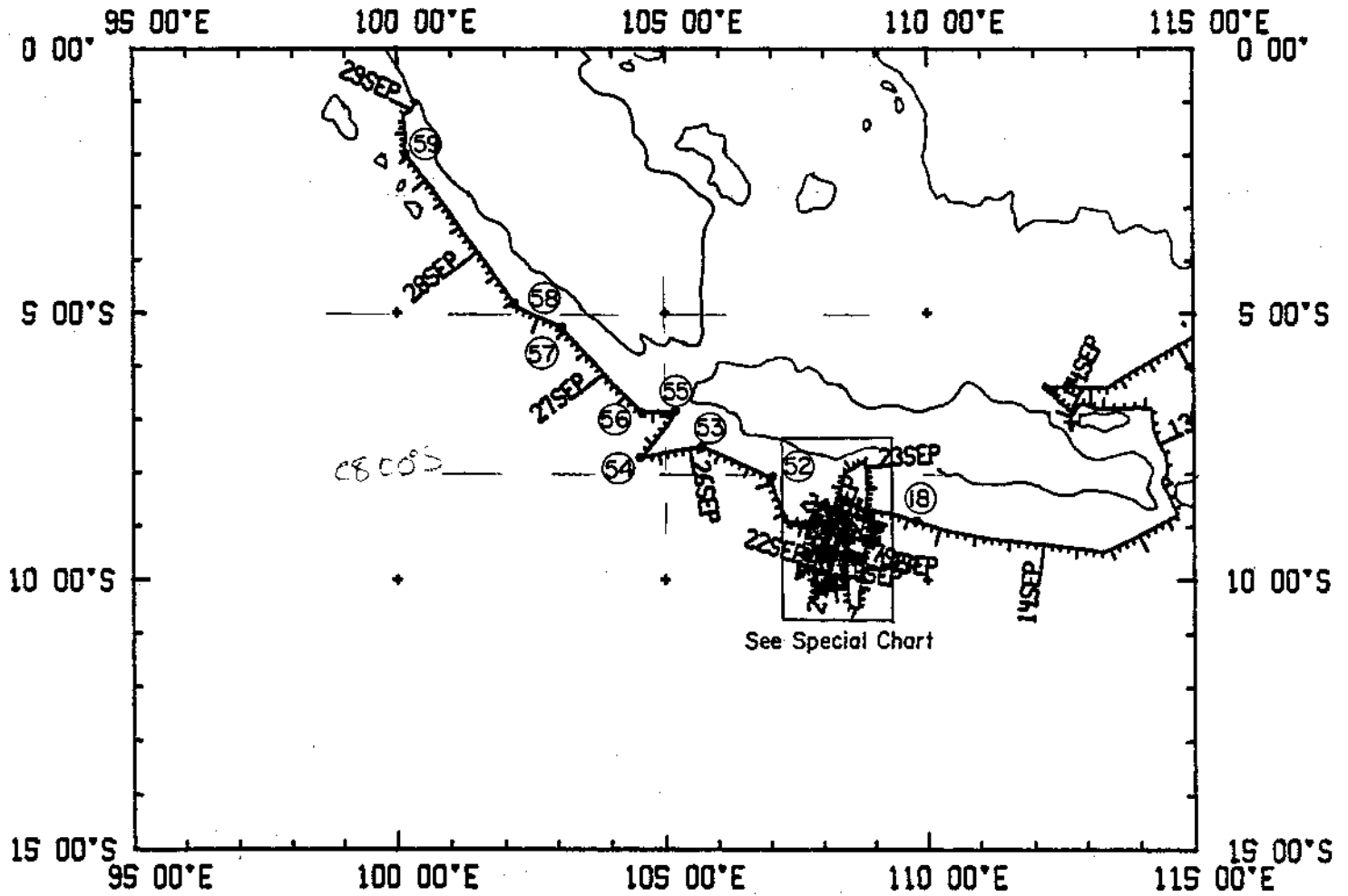
RAMA05WT (2 OF 3)

TRACK PLOT AT .312IN/DEGREE



RAMA05WT (PLOT 3 OF 3)

TRACK PLOT AT .312IN/DEGREE



RAMA05WT

108 00'E

109 00'E

8 00'S

8 00'S

9 00'S

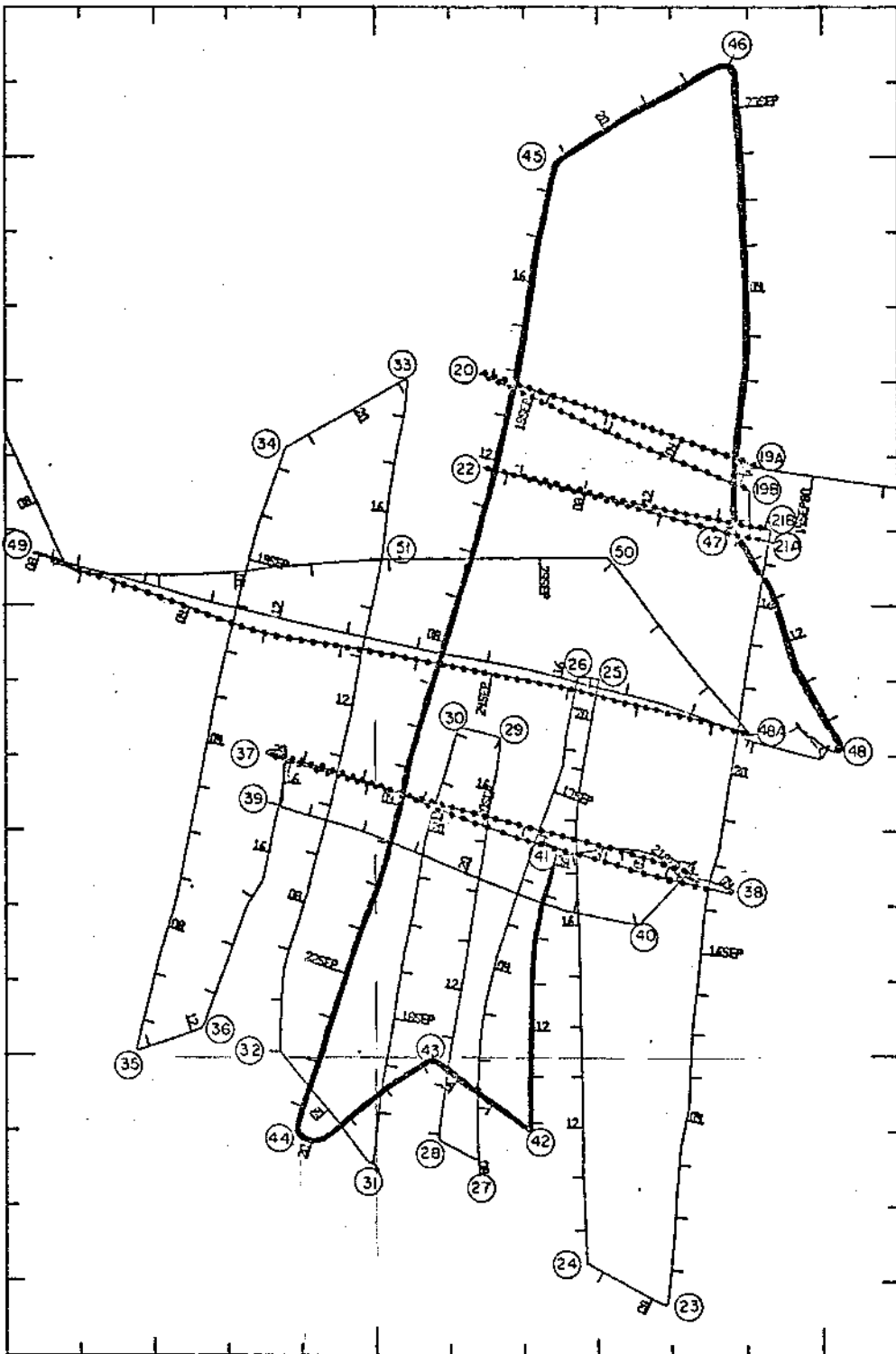
9 00'S

10 00'S

10 00'S

108 00'E

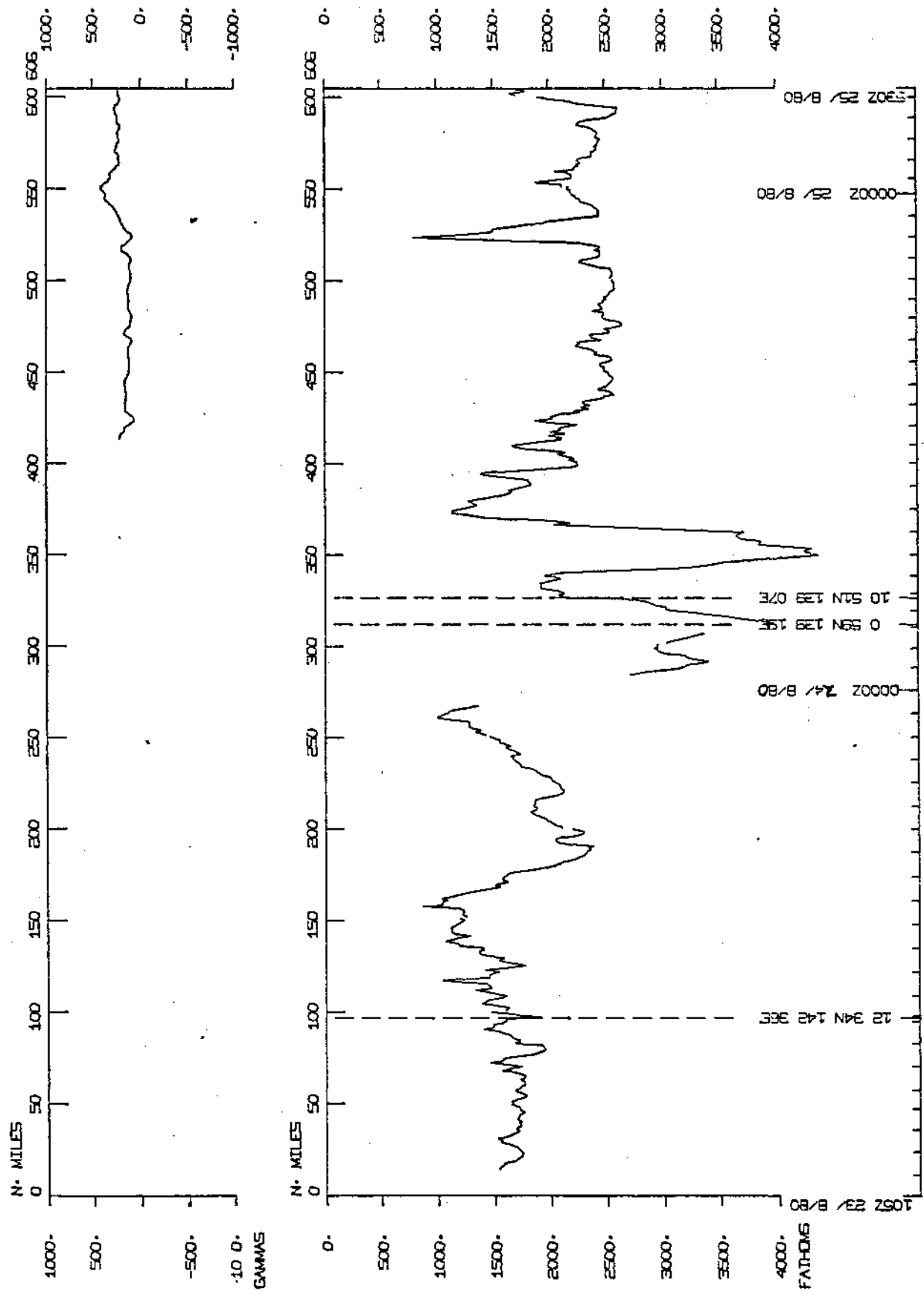
109 00'E



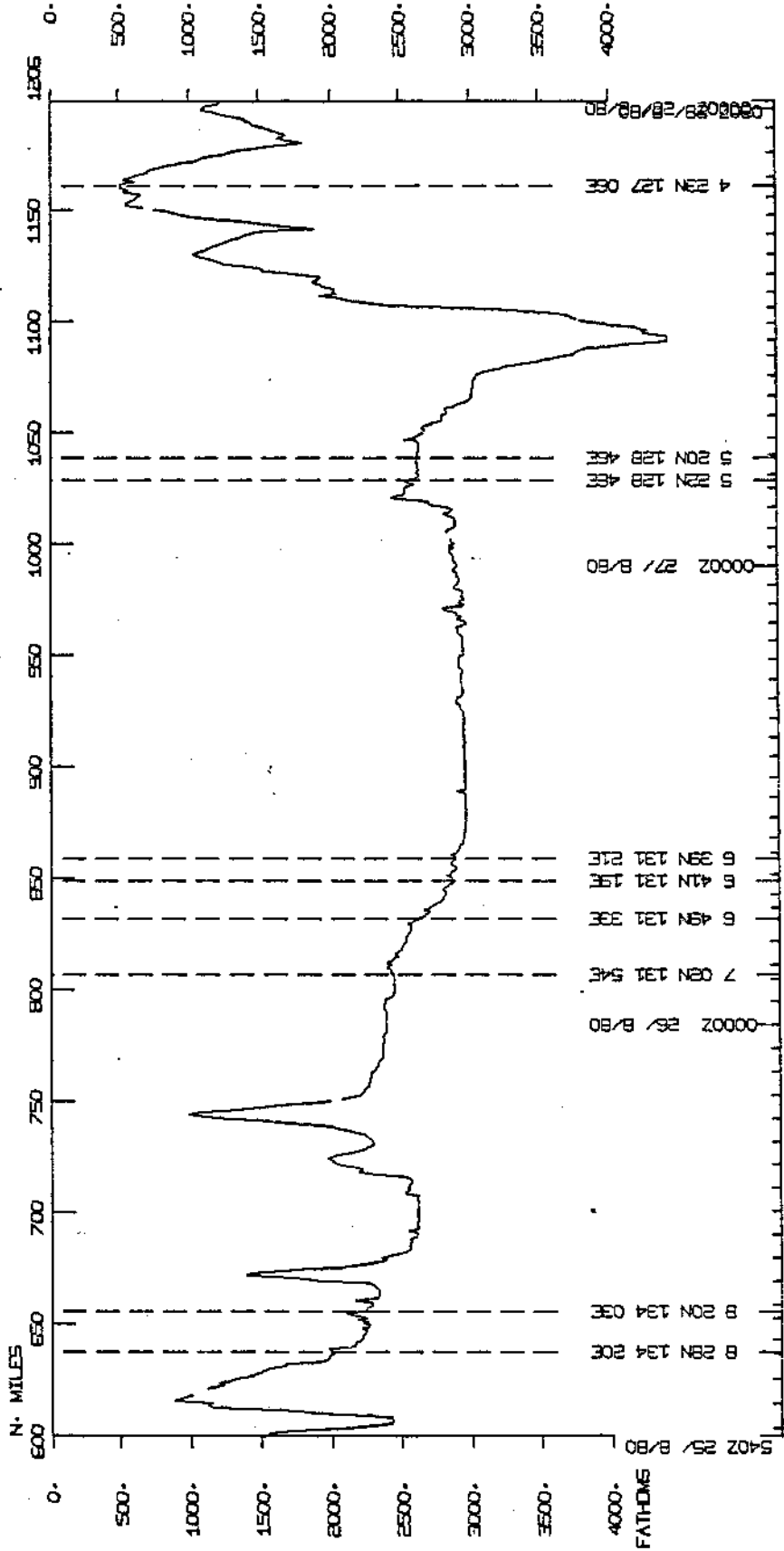
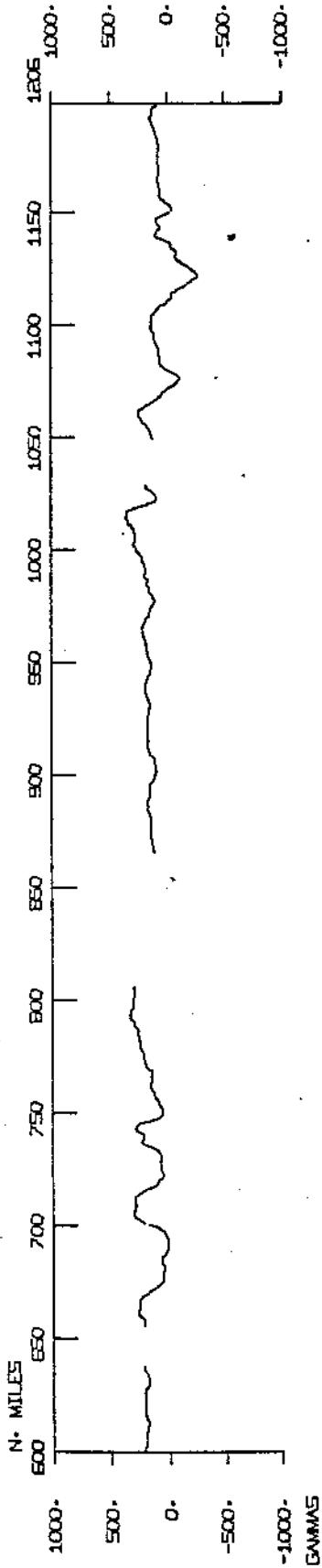
— MULTICHANNEL

..... REFRACTION LINES

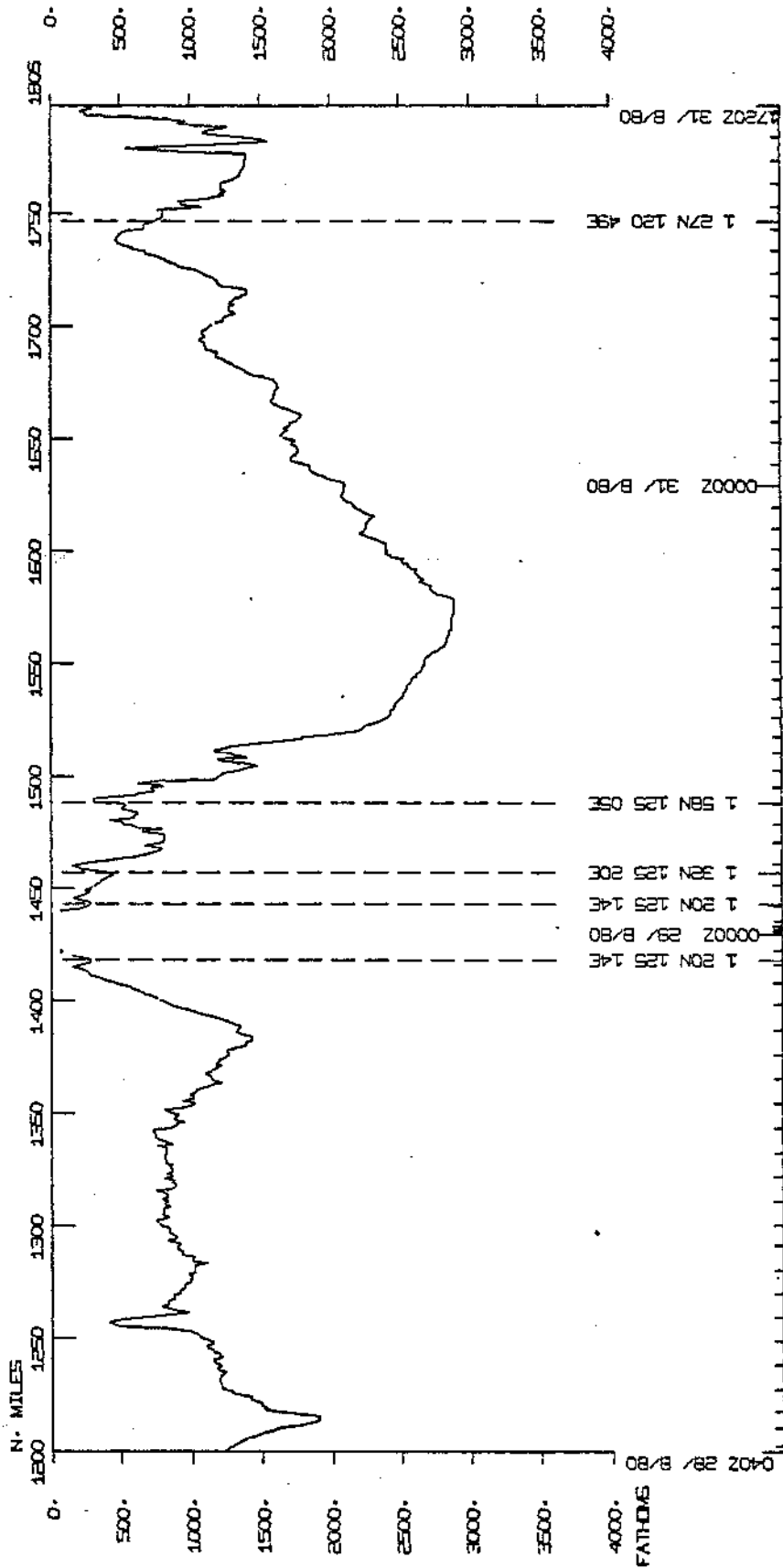
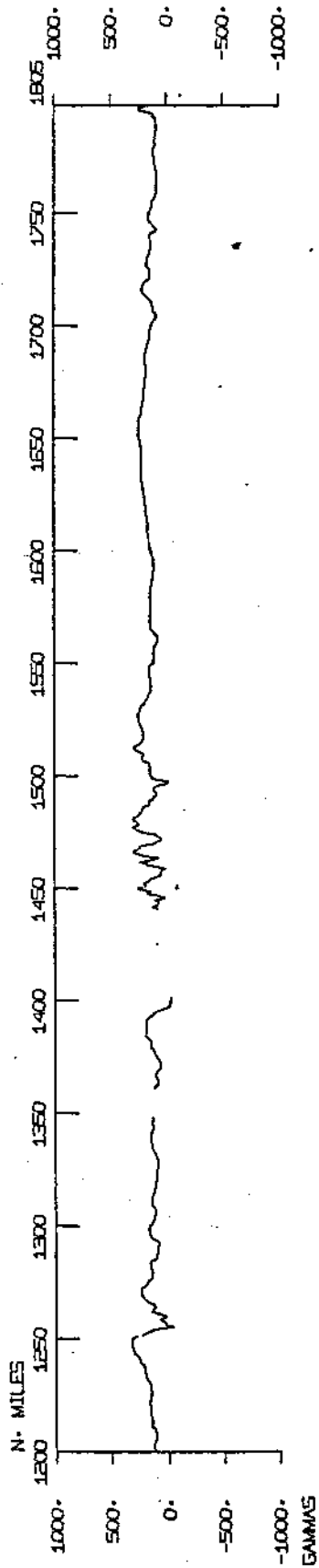
RAMA05WT



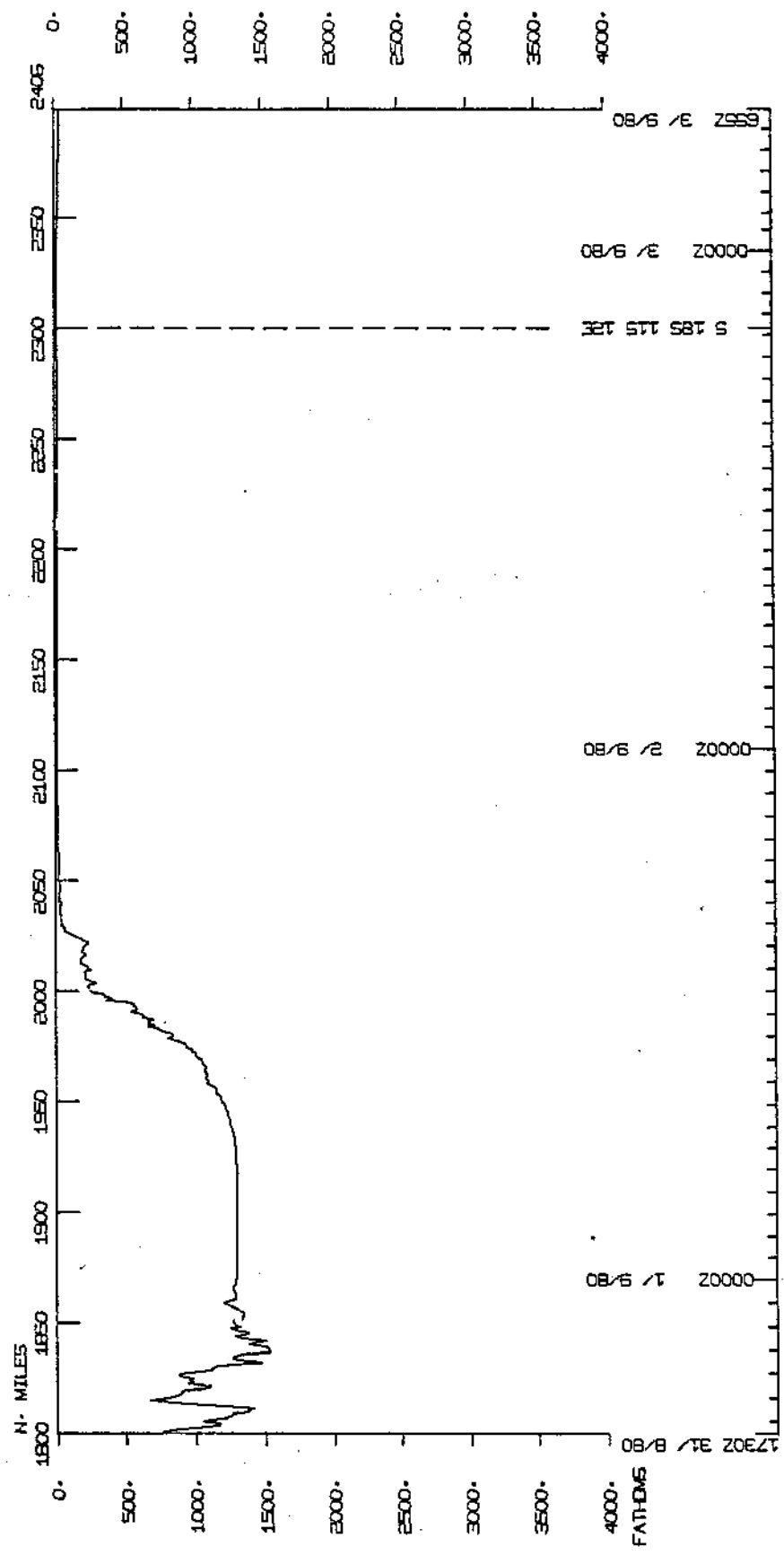
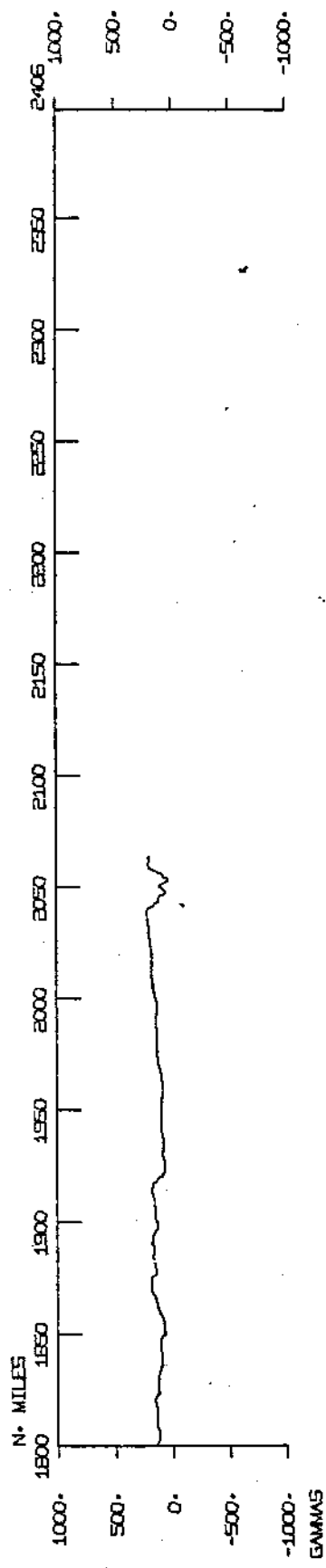
RAMAOSWT



RAMAO5WT

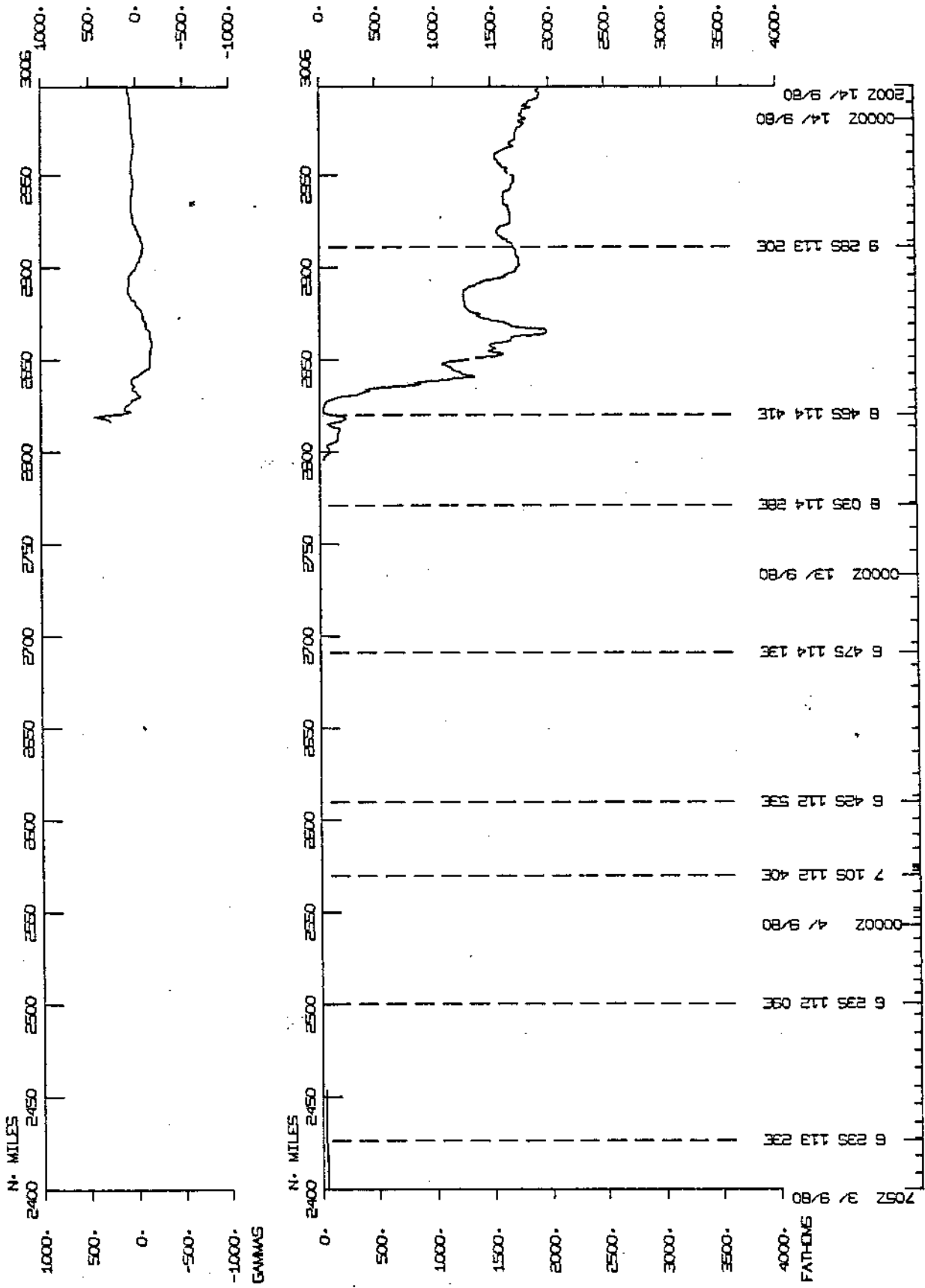


RAMA05WT

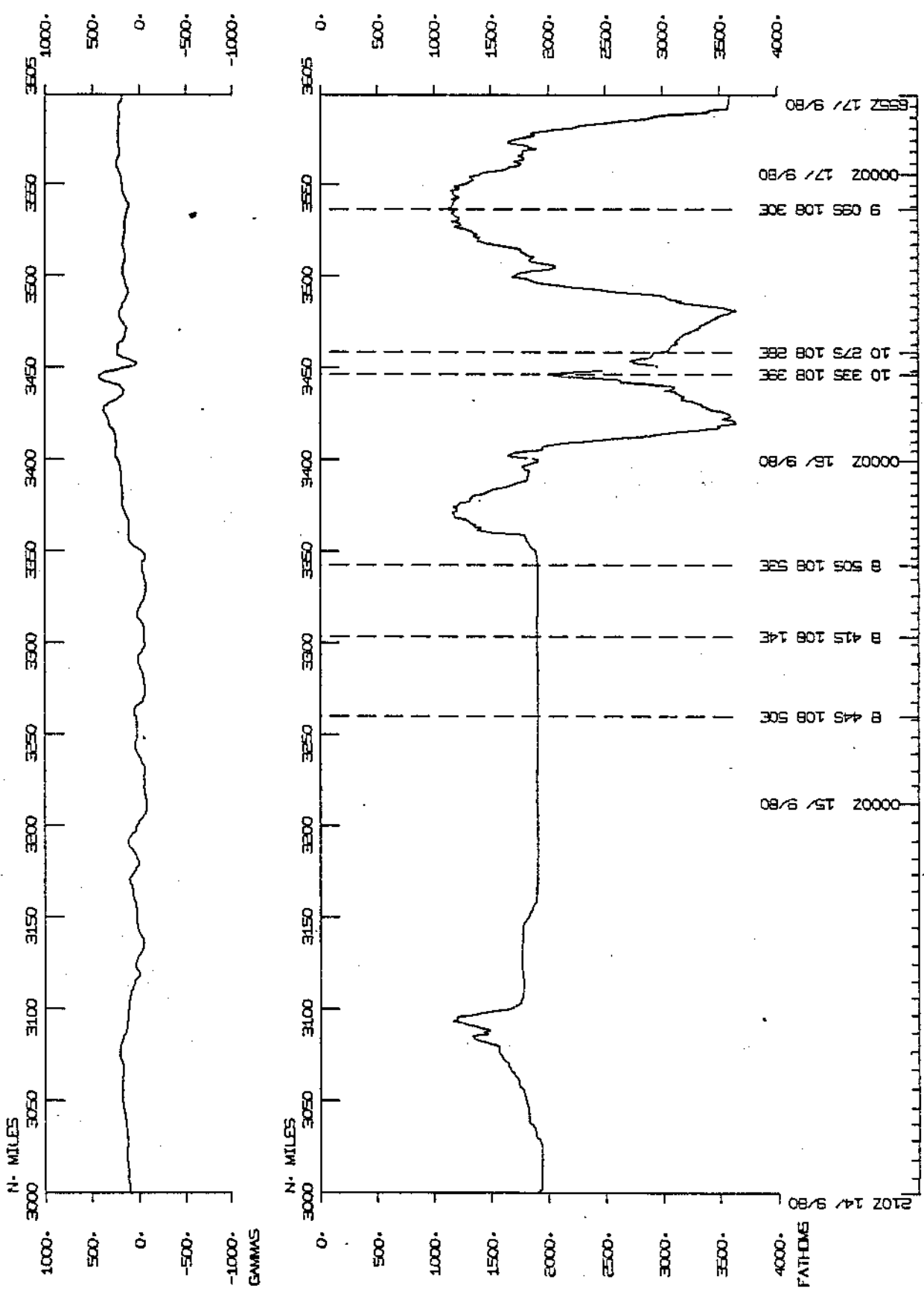


1730Z 31/ 8/80 0000Z 1/ 9/80
S 189 115 12E 0000Z 2/ 9/80
0000Z 3/ 9/80 2999

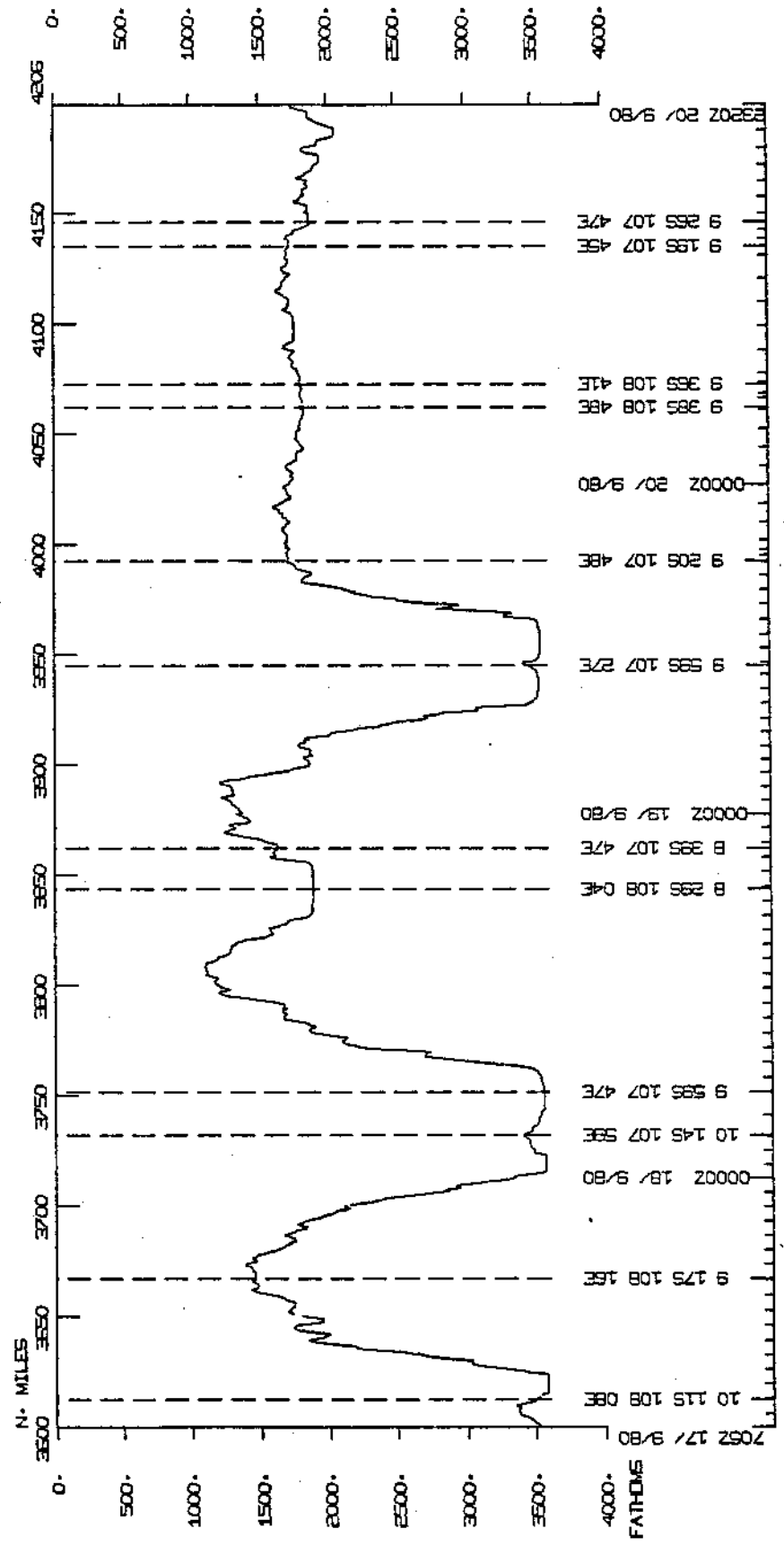
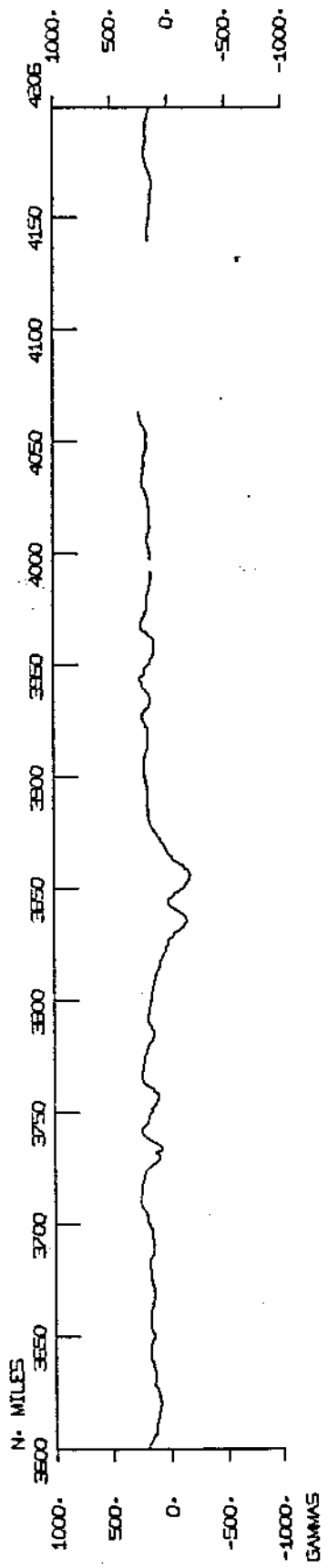
RAMAOSWT

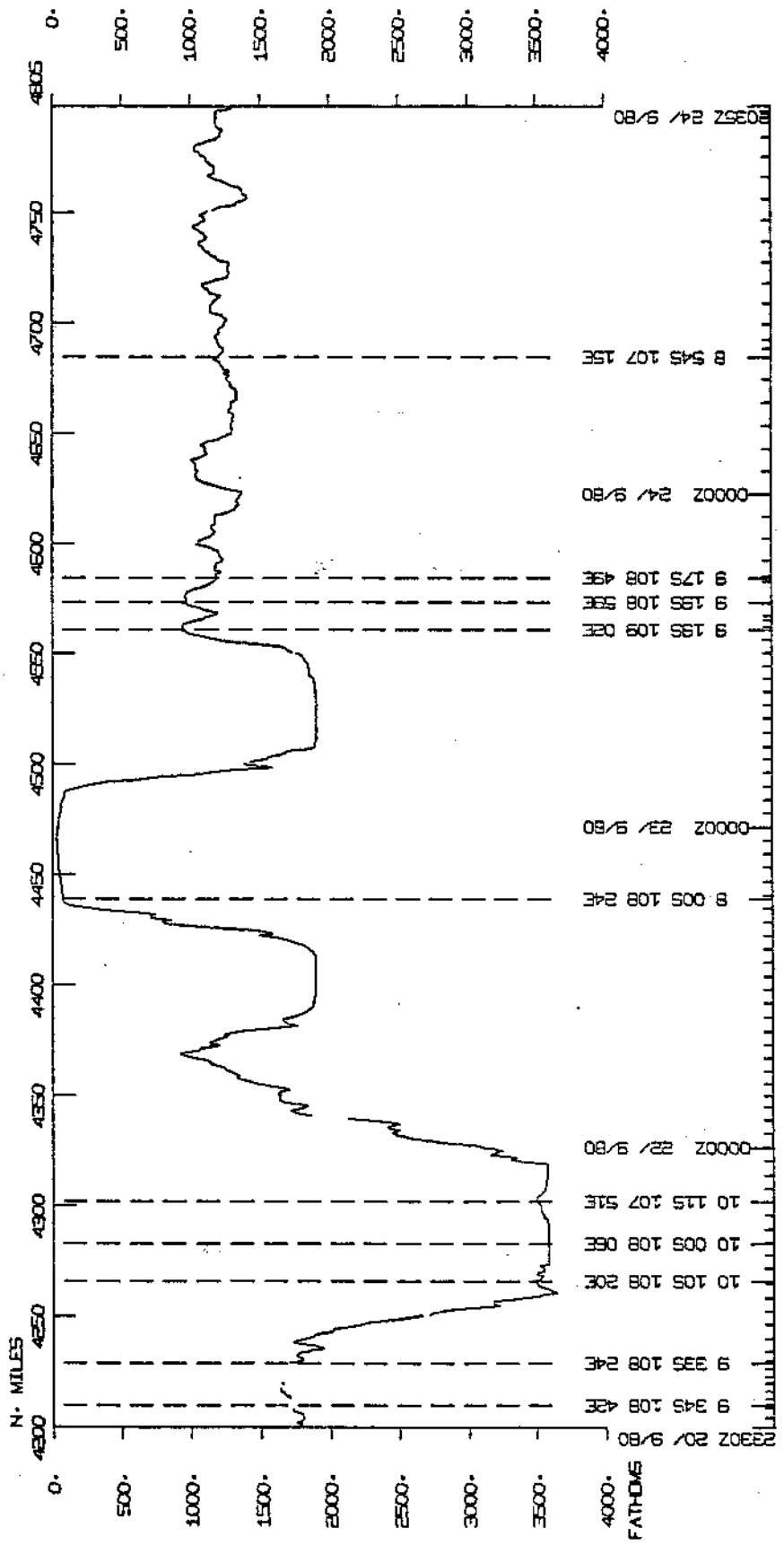
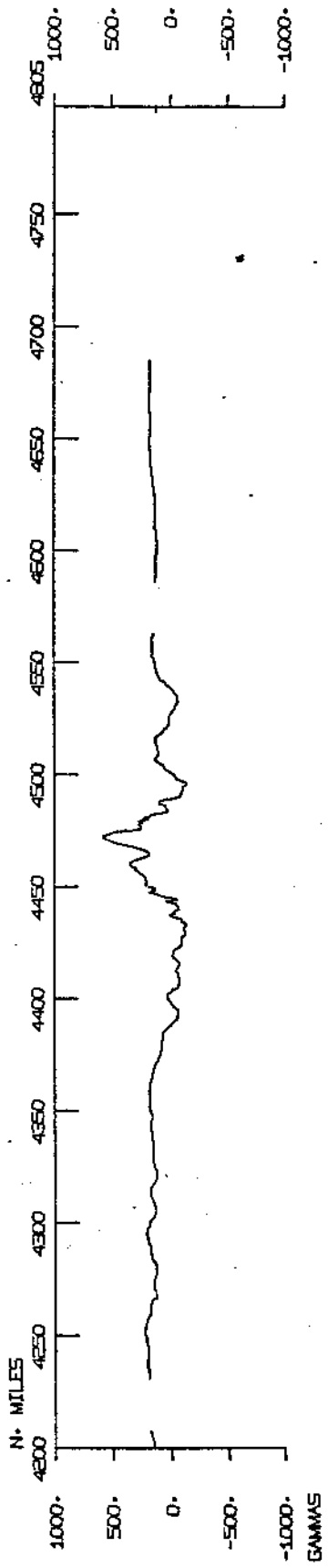


RAMAOSWT



RAMAOSWT

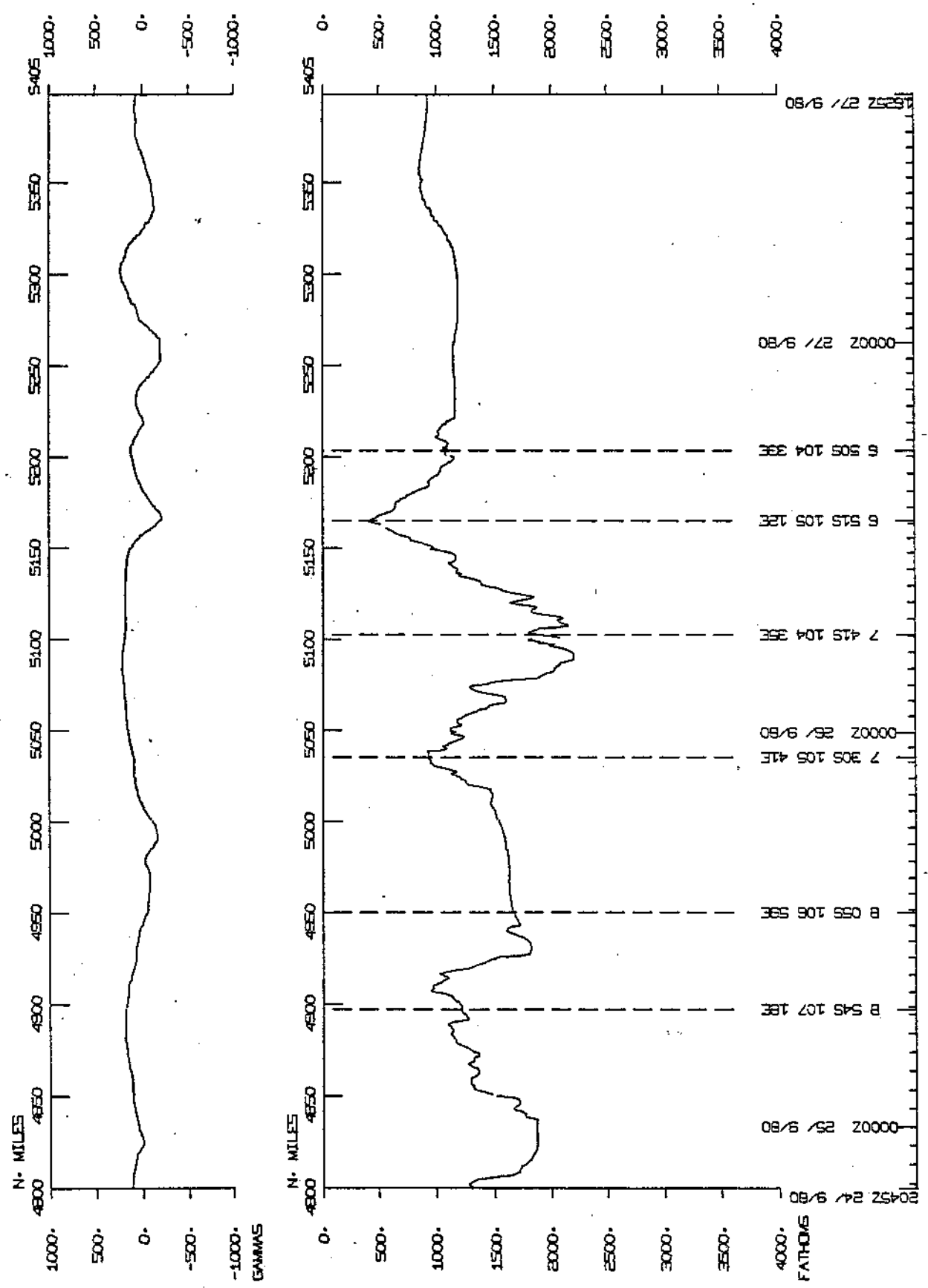




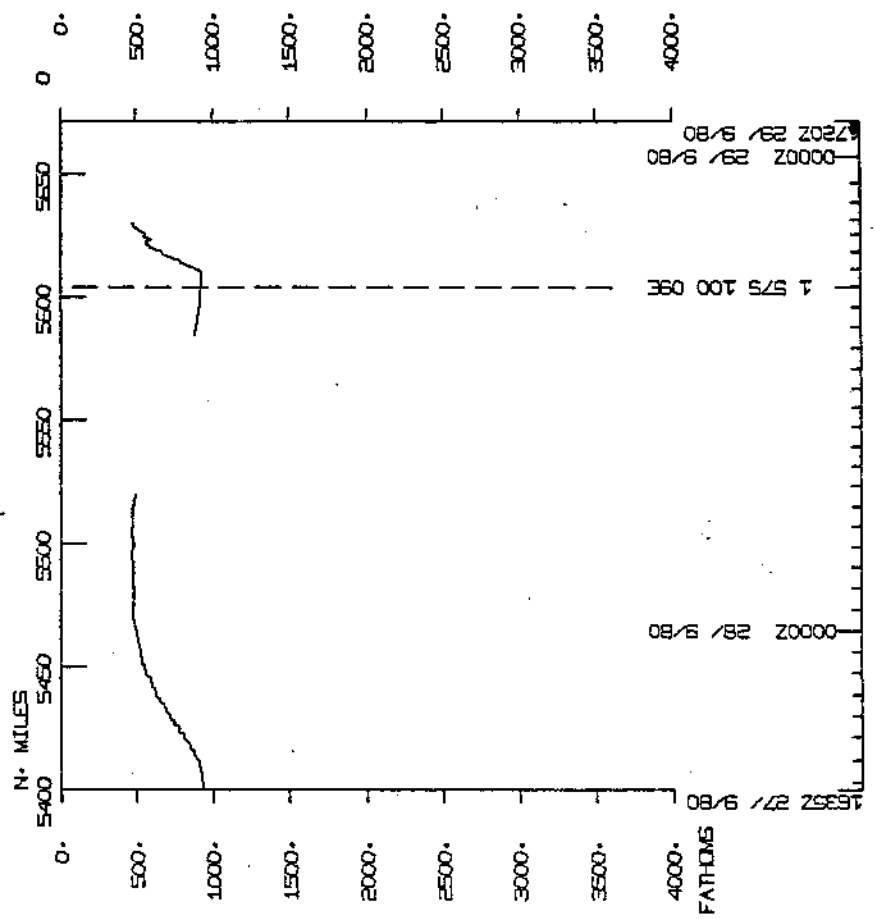
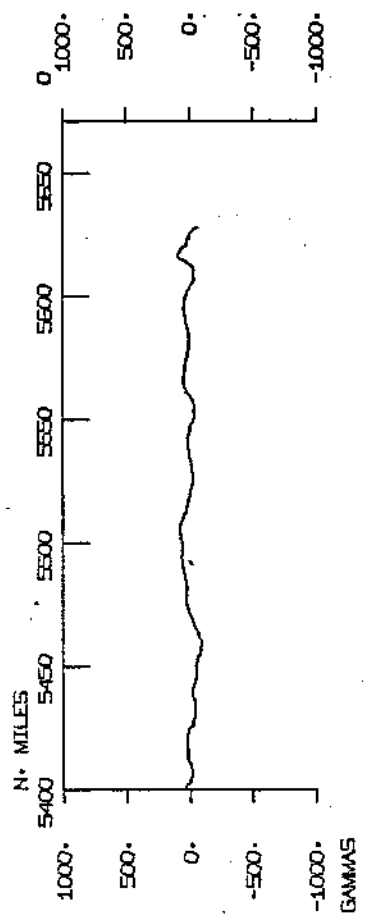
RAMA05WT

MULTICHANNEL

RAMAOSWT



RAMAOSWT



S.I.O. Sample Index
(Issued January 1981)

RAMA EXPEDITION
LEG 5

Agana, Guam (22 August 1980)
to
Padang, Sumatra (29 September 1980)

R/V T. Washington

Co-Chief Scientists - J. Curray and G. Moore

Resident Marine Tech - R. Wilson

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

Index Encoding Funded by NSF
Grant Number OCE77-23258
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 16JAN81

*** RAMA05 SAMPLE INDEX

(RAMA05WT) ***

	60E	120E	180	120W	60W	0W		
	+.....+.....+.....+.....+.....+.....+.....+.....+.....+							
	'X' = SHIP'S TRACK BY 5 DEGREE SQUARE							
85N							85N	
80N					0	0000	80N	
75N		0		0	00000	0000000000	75N	
70N		0000000000		0000	0	00000000	70N	
65N	0000	00000000	000000	00000000000000	00000000000000	00	0000	65N
60N	000000000000000000000000000000			00000000000000	00	00		60N
55N	0	000000000000000000000000	00	0	00000000	000		55N
50N	000000000000000000000000000000	0			0000000000	0000		50N
45N	000000000000000000000000000000				00000000000000	0		45N
40N	0	00	00	0000000000000000				40N
35N	0	000000	000000000000	0000				35N
30N	000	00000000000000000000	0		00000000			30N
25N	000000000000	00000000000000			0000	0		25N
20N	00000000	0000	00	00000	0	00		20N
15N	00000000	00	0	00	0	00	0	15N
10N	0000000000	0	0	0	XX	0		10N
5N	0000000000				0XXX			5N
0N	00000000	00	0XXX			000000		0N
5S	000000	0	0	XX	00			5S
10S	00000		XXX	00		0000000000		10S
15S	00000		X	0	0			15S
20S	000000	0		00000		000000		20S
25S	0000	0		0000000		000000		25S
30S	00			00000000		0000		30S
35S	00			00	000			35S
40S				00	0			40S
45S				0		00		45S
50S						00		50S
55S						0		55S
60S								60S
65S								65S
70S	00	000000000000			0			70S
75S	000000000000000000000000000000	000000	00000000000000		0	000000	0000	75S
80S	000000000000000000000000000000			000000000000000000000000		00000000		80S
85S	000000000000000000000000000000			000000000000000000000000000000		000000000000000000000000		85S
90S	000000000000000000000000000000			000000000000000000000000000000		000000000000000000000000		90S
	+.....+.....+.....+.....+.....+.....+.....+.....+.....+							
	60E	120E	180	120W	60W	0W		

22AUG80 - AGANA, GUAM, M.I.
TO
29SEP80 - PADANG, SUMATRA, INDO

CHIEF SCIENTISTS - MOORE G. F. GRD
CURRAY J. R. GRD

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	
	BT	DP	GV	LB	MG	PE	SB	SP	SR			
GDC	I	25		3	3		55	40	31	I	157	
GGS	I						4		6	I	10	
GRD	I					7				I	7	
IDO	I					2				I	2	
JRC	I			1						I	1	
LMD	I		2							I	2	
MPL	I	3				5				I	8	
MTG	I	3				1				I	4	
SCG	I			1		2		3		I	6	
SGG	I					2				I	2	
TOTAL	I	3	28	2	5	3	19	59	43	37	I	199

SAMPLE 'TYPE' CODES USED ABOVE

BT = BATHYTHERMOGRAM
 DP = DEPTH
 GV = GRAVITY
 LB = LOG BOOKS
 MG = MAGNETICS (TOWED VEHICLE, SURFACE, TOTAL FIELD)
 PE = PERSONNEL IN SCIENTIFIC PARTY
 SB = SEISMIC BUOY
 SP = SEISMIC REFLECTION PROFILE AIRGUN
 SR = SEISMIC RUN

SAMPLE 'DISP' CODES USED ABOVE

GDC = GEOLOGICAL DATA CENTER -- S. SMITH (EXT. 2752)
 GGS = GEORGE SHOR (EXT. 2853)
 GRD = GEOLOGICAL RESEARCH DIVISION (EXT. 3360)
 IDO = INDOONESIAN
 JRC = J.R. CURRAY, GRD, (EXT. 3299)
 LMD = LEROY M. DORMAN (EXT. 2406)
 MPL = MARINE PHYSICAL LAB. (EXT 2305)
 MTG = MARINE TECHNOLOGY GROUP (EXT 4194)
 SCG = SHIPBOARD COMPUTER GROUP (EXT. 4195)
 SGG = SHIPBOARD GEOPHYSICAL GROUP--P. CRAMPTON (EXT.2079)

GMT D /M /Y	LOC LOC	CODE	SAMPLE IDENT.	CODE	LAT.	LONG.	LEG-SHIP
TIME DATE	TIME T-2	SAMP		DISP			CRUISE

RAMA05WT

*** PORTS ***

2210 22/ 8/80		LGPT B	AGANA, GUAM, M.I.	13	27. N	144 37. E	F RAMA05WT
0112 29/ 9/80		LGPT E	PADANG, SUMATRA, INDO	01	00. S	100 22. E	F RAMA05WT
0147 4/ 9/80		LGUS B	SURABAYA, JAVA, INDO	07	12. S	112 44. E	F RAMA05WT
1000 12/ 9/80		LGUS E	SURABAYA, JAVA, INDO	07	12. S	112 44. E	F RAMA05WT
0000 29/ 8/80		LGSS B	BITUNG, SULAWESI, INDO	01	27.2N	125 09.3E	F RAMA05WT
0045 30/08/80		LGSS E	BITUNG, SULAWESI, INDO	01	27.2N	125 09.3E	F RAMA05WT

PERSONNEL

*** NAME ***	*** TITLE ***	*** AFFILIATION ***
1 MOORE G. F.	ASST RES GEO	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
2 CURRAY J. R.	PROFESSOR	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
3 BEAUDRY D.	SR GRAD STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
4 BENARD N.	JR GRAD STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
5 BENSON M. D.	DEV ENGR	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
6 CRAMPTON P. J.	DEV ENGR	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
7 ELSTON M. D.	DEV ENGR	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
8 EMMEL F. T.	SPECIALIST	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
9 HUBENKA F.	ELECT TECH	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
10 KIECKHEFER R. M.	POSTGRAD RES GEO	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
11 LIU CHAR-SHINE	GRAD STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
12 MCGOWAN D. D.	STAFF RES ASSOC	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
13 MOORE J. M.	PR PROGRAMMER	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
14 PAVLICEK F. V.	ASSOC DEV ENGR	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
15 SUKARDJONO	GEOPHYSICIST	INDONESIAN
16 TYCE R. C.	ASST RES ENGR	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
17 DRIYO UTOMO	MAJOR IDO NAVY	INDONESIAN
18 SUPARKA	GEOLOGIST	INDONESIAN
19 WILSON R. C.	RESIDENT	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. (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 LOC TIME TZ	CODE SAMP	SAMPLE IDENT.	CODE DTSP	LAT.	LONG.	LEG-SHIP CRUISE
----------------------------	--------------------	--------------	---------------	--------------	------	-------	--------------------

UNDERWAY DATA CURATOR - STUART SMITH (EXT.2752)

*** LOG BOOKS ***

2210 22/ 8/80		LBW B	LOG BOOK NO. 1	GDC 13	14.1N	144 07.7E	S RAMA05WT
1145 3/ 9/80		LBW E	LOG BOOK NO. 1	GDC 06	23.0S	113 06.2E	S RAMA05WT
1150 3/ 9/80		LBW B	LOG BOOK NO. 2	GDC 06	23.0S	113 05.4E	S RAMA05WT
2220 23/ 9/80		LBW E	LOG BOOK NO. 2	GDC 09	12.5S	108 32.1E	S RAMA05WT
2225 23/ 9/80		LBW B	LOG BOOK NO. 3	GDC 09	12.3S	108 31.4E	S RAMA05WT
2050 28/ 9/80		LBW E	LOG BOOK NO. 3	GDC 01	30.7S	100 09.8E	S RAMA05WT
1124 27/ 8/80		LBSC B	LOG-SEIS. MAG. TAPES	SCG 05	00.0N	128 08.5E	S RAMA05WT
2010 28/ 9/80		LBSC E	LOG-SEIS. MAG. TAPES	SCG 01	34.7S	100 10.2E	S RAMA05WT
1124 27/ 8/80		LBSC B	DIGITAL SEISMIC LOG	JRC 05	00.0N	128 08.5E	S RAMA05WT
2037 27/ 8/80		LBSC E	DIGITAL SEISMIC LOG	JRC 04	23.4N	127 06.1E	S RAMA05WT

*** FATHOGRAMS ***

0920 25/ 8/80		DPSV B	SEABEAM TEST 01	MPL 08	28.9N	134 20.0E	S RAMA05WT
1130 25/ 8/80		DPSV E	SEABEAM TEST 01	MPL 08	20.7N	134 03.3E	S RAMA05WT
0130 26/ 8/80		DPSV B	SEABEAM TEST 02	MPL 07	05.3N	132 00.1E	S RAMA05WT
0915 26/ 8/80		DPSV E	SEABEAM TEST 02	MPL 06	37.3N	131 17.1E	S RAMA05WT
0430 27/ 8/80		DPSV B	SEABEAM TEST 03	MPL 05	22.7N	128 48.8E	S RAMA05WT
0700 27/ 8/80		DPSV E	SEABEAM TEST 03	MPL 05	18.7N	128 44.0E	S RAMA05WT
2352 22/ 8/80		DPR3 B	UGR 3.5KHZ R-01	GDC 13	14.1N	144 07.7E	S RAMA05WT
2309 23/ 8/80		DPR3 E	UGR 3.5KHZ R-01	GDC 11	19.6N	140 01.4E	S RAMA05WT
0026 24/ 8/80		DPR3 B	UGR 3.5KHZ R-02	GDC 11	12.3N	139 46.6E	S RAMA05WT
0710 25/ 8/80		DPR3 E	UGR 3.5KHZ R-02	GDC 08	37.7N	134 38.9E	S RAMA05WT
0727 25/ 8/80		DPR3 B	UGR 3.5KHZ R-03	GDC 08	36.4N	134 36.0E	S RAMA05WT
1315 26/ 8/80		DPR3 E	UGR 3.5KHZ R-03	GDC 06	22.1N	130 45.8E	S RAMA05WT
1330 26/ 8/80		DPR3 B	UGR 3.5KHZ R-04	GDC 06	21.1N	130 43.8E	S RAMA05WT
0404 28/ 8/80		DPR3 E	UGR 3.5KHZ R-04	GDC 03	47.0N	127 12.5E	S RAMA05WT
0413 28/ 8/80		DPR3 B	UGR 3.5KHZ R-05	GDC 03	45.8N	127 11.5E	S RAMA05WT
2230 28/ 8/80		DPR3 E	UGR 3.5KHZ R-05	GDC 01	20.9N	125 12.7E	S RAMA05WT
2241 28/ 8/80		DPR3 B	UGR 3.5KHZ R-06	GDC 01	21.4N	125 11.7E	S RAMA05WT
0626 1/ 9/80		DPR3 E	UGR 3.5KHZ R-06	GDC 00	35.7S	118 31.2E	S RAMA05WT

GMT TIME	D / M / Y DATE	LOC TIME	LOC T Z	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
0632	1/ 9/80			DPR3 B UGR	3.5KHZ R-07	GDC 00	36.4S	118 30.5E	S RAMA05WT
1057	2/ 9/80			DPR3 E UGR	3.5KHZ R-07	GDC 04	17.8S	116 17.9E	S RAMA05WT
1102	2/ 9/80			DPR3 B UGR	3.5KHZ R-08	GDC 04	18.4S	116 17.5E	S RAMA05WT
1340	2/ 9/80			DPR3 E UGR	3.5KHZ R-08	GDC 04	39.8S	116 06.3E	S RAMA05WT
1356	2/ 9/80			DPR3 B UGR	3.5KHZ R-09	GDC 04	42.1S	116 05.2E	S RAMA05WT
1600	3/ 9/80			DPR3 E UGR	3.5KHZ R-09	GDC 06	23.0S	112 24.9E	S RAMA05WT
0058	13/ 9/80			DPR3 B UGR	3.5KHZ R-10	GDC 07	38.3S	114 27.6E	S RAMA05WT
0545	14/ 9/80			DPR3 E UGR	3.5KHZ R-10	GDC 09	13.6S	111 14.1E	S RAMA05WT
0556	14/ 9/80			DPR3 B UGR	3.5KHZ R-11	GDC 09	13.5S	111 12.9E	S RAMA05WT
1017	15/ 9/80			DPR3 E UGR	3.5KHZ R-11	GDC 08	43.3S	108 22.0E	S RAMA05WT
1029	15/ 9/80			DPR3 B UGR	3.5KHZ R-12	GDC 08	43.7S	108 23.8E	S RAMA05WT
0906	16/ 9/80			DPR3 E UGR	3.5KHZ R-12	GDC 10	28.5S	108 30.0E	S RAMA05WT
0916	16/ 9/80			DPR3 B UGR	3.5KHZ R-13	GDC 10	27.9S	108 28.9E	S RAMA05WT
0853	17/ 9/80			DPR3 E UGR	3.5KHZ R-13	GDC 10	11.3S	108 08.4E	S RAMA05WT
0909	17/ 9/80			DPR3 B UGR	3.5KHZ R-14	GDC 10	09.6S	108 08.6E	S RAMA05WT
0324	18/ 9/80			DPR3 E UGR	3.5KHZ R-14	GDC 10	12.1S	107 57.2E	S RAMA05WT
0331	18/ 9/80			DPR3 B UGR	3.5KHZ R-15	GDC 10	11.2S	107 56.5E	S RAMA05WT
1035	19/ 9/80			DPR3 E UGR	3.5KHZ R-15	GDC 09	59.2S	107 27.6E	S RAMA05WT
1043	19/ 9/80			DPR3 B UGR	3.5KHZ R-16	GDC 09	59.3S	107 28.0E	S RAMA05WT
2119	19/ 9/80			DPR3 E UGR	3.5KHZ R-16	GDC 09	21.7S	107 52.8E	S RAMA05WT
2131	19/ 9/80			DPR3 B UGR	3.55HZ R-17	GDC 09	22.2S	107 54.4E	S RAMA05WT
0055	21/ 9/80			DPR3 E UGR	3.55HZ R-17	GDC 09	34.8S	108 42.2E	S RAMA05WT
0251	21/ 9/80			DPR3 B UGR	3.5KHZ R-18	GDC 09	34.0S	108 40.6E	S RAMA05WT
0547	22/ 9/80			DPR3 E UGR	3.5KHZ R-18	GDC 09	17.4S	108 05.3E	S RAMA05WT
0602	22/ 9/80			DPR3 B UGR	3.5KHZ R-19	GDC 09	16.0S	108 05.7E	S RAMA05WT
2111	23/ 9/80			DPR3 E UGR	3.5KHZ R-19	GDC 09	15.2S	108 43.6E	S RAMA05WT
2116	23/ 9/80			DPR3 B UGR	3.5KHZ R-20	GDC 09	14.9S	108 42.8E	S RAMA05WT
0901	24/ 9/80			DPR3 E UGR	3.5KHZ R-20	GDC 08	54.8S	107 19.9E	S RAMA05WT
0909	24/ 9/80			DPR3 B UGR	3.5KHZ R-21	GDC 08	55.1S	107 21.0E	S RAMA05WT
0704	25/ 9/80			DPR3 E UGR	3.5KHZ R-21	GDC 08	53.6S	107 17.6E	S RAMA05WT
0713	25/ 9/80			DPR3 B UGR	3.5KHZ R-22	GDC 08	52.8S	107 17.2E	S RAMA05WT
0556	26/ 9/80			DPR3 E UGR	3.5KHZ R-22	GDC 07	42.1S	104 36.0E	S RAMA05WT
0604	26/ 9/80			DPR3 B UGR	3.5KHZ R-23	GDC 07	41.9S	104 35.2E	S RAMA05WT
1227	26/ 9/80			DPR3 E UGR	3.5KHZ R-23	GDC 06	56.6S	105 09.6E	S RAMA05WT
1253	26/ 9/80			DPR3 B UGR	3.5KHZ R-24	GDC 06	53.7S	105 11.2E	S RAMA05WT
1221	27/ 9/80			DPR3 E UGR	3.5KHZ R-24	GDC 05	02.8S	102 36.6E	S RAMA05WT

GMT TIME	D / M / Y DATE	LDC TIME	LDC T2	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP
									CRUISE
1227	27/ 9/80			DPR3 B	UGR 3.5KHZ R-25	GDC 05	02.5S	102 35.8E	S RAMA05WT
0041	29/ 9/80			DPR3 E	UGR 3.5KHZ R-25	GDC 01	03.2S	100 21.1E	S RAMA05WT

*** SEISMIC REFLECTION PROFILES ***

0100	25/ 8/80			SPRF B	AIRGUN (2SEC) R-01	GDC 09	03.7N	135 41.4E	S RAMA05WT
0201	26/ 8/80			SPRF E	AIRGUN (2SEC) R-01	GDC 07	02.9N	131 55.6E	S RAMA05WT
0947	26/ 8/80			SPRF B	AIRGUN (2SEC) R-02	GDC 06	36.1N	131 14.6E	S RAMA05WT
0230	28/ 8/80			SPRF E	AIRGUN (2SEC) R-02	GDC 03	56.8N	127 22.7E	S RAMA05WT
0251	28/ 8/80			SPRF B	AIRGUN (2SEC) R-03	GDC 03	55.0N	127 20.6E	S RAMA05WT
1000	30/ 8/80			SPRF E	AIRGUN (2SEC) R-03	GDC 01	57.9N	124 43.0E	S RAMA05WT
0533	3/ 9/80			SPRF B	AIRGUN (2SEC) R-04	GDC 06	02.1S	113 58.3E	S RAMA05WT
0956	3/ 9/80			SPRF E	AIRGUN (2SEC) R-04	GDC 06	23.5S	113 23.0E	S RAMA05WT
0920	13/ 9/80			SPRF B	AIRGUN (2SEC) R-05	GDC 08	59.5S	114 20.0E	S RAMA05WT
2144	13/ 9/80			SPRF E	AIRGUN (2SEC) R-05	GDC 09	22.2S	112 31.2E	S RAMA05WT
2145	13/ 9/80			SPRF B	AIRGUN (2SEC) R-06	GDC 09	22.2S	112 31.0E	S RAMA05WT
0545	14/ 9/80			SPRF E	AIRGUN (2SEC) R-06	GDC 09	13.6S	111 14.1E	S RAMA05WT
0552	14/ 9/80			SPRF B	AIRGUN (2SEC) R-07	GDC 09	13.5S	111 13.3E	S RAMA05WT
1215	14/ 9/80			SPRF E	AIRGUN (2SEC) R-07	GDC 09	01.6S	110 12.0E	S RAMA05WT
1215	14/ 9/80			SPRF B	AIRGUN (2SEC) R-08	GDC 09	01.6S	110 12.0E	S RAMA05WT
1330	15/ 9/80			SPRF E	AIRGUN (2SEC) R-08	GDC 08	49.4S	108 50.4E	S RAMA05WT
1330	15/ 9/80			SPRF B	AIRGUN (2SEC) R-09	GDC 08	49.4S	108 50.4E	S RAMA05WT
0921	16/ 9/80			SPRF E	AIRGUN (2SEC) R-09	GDC 10	27.6S	108 28.5E	S RAMA05WT
0929	16/ 9/80			SPRF B	AIRGUN (2SEC) R-10	GDC 10	26.7S	108 28.5E	S RAMA05WT
0852	17/ 9/80			SPRF E	AIRGUN (2SEC) R-10	GDC 10	11.4S	108 08.5E	S RAMA05WT
0855	17/ 9/80			SPRF B	AIRGUN (2SEC) R-11	GDC 10	11.1S	108 08.4E	S RAMA05WT
0500	18/ 9/80			SPRF E	AIRGUN (2SEC) R-11	GDC 09	59.5S	107 47.1E	S RAMA05WT
0504	18/ 9/80			SPRF B	AIRGUN (2SEC) R-12	GDC 09	59.0S	107 47.2E	S RAMA05WT
1038	19/ 9/80			SPRF E	AIRGUN (2SEC) R-12	GDC 09	59.4S	107 27.6E	S RAMA05WT
1048	19/ 9/80			SPRF B	AIRGUN (2SEC) R-13	GDC 09	59.2S	107 28.3E	S RAMA05WT
0404	20/ 9/80			SPRF E	AIRGUN (2SEC) R-13	GDC 09	38.2S	108 48.2E	S RAMA05WT
0844	20/ 9/80			SPRF B	AIRGUN (2SEC) R-14	GDC 09	35.9S	108 43.5E	S RAMA05WT
0041	22/ 9/80			SPRF E	AIRGUN (2SEC) R-14	GDC 09	45.0S	107 57.1E	S RAMA05WT
0048	22/ 9/80			SPRF B	AIRGUN (2SEC) R-15	GDC 09	44.4S	107 57.4E	S RAMA05WT
0554	24/ 9/80			SPRF E	AIRGUN (2SEC) R-15	GDC 08	54.0S	107 15.9E	S RAMA05WT
0740	24/ 9/80			SPRF B	AIRGUN (2SEC) R-16	GDC 08	53.8S	107 16.4E	S RAMA05WT
0607	25/ 9/80			SPRF E	AIRGUN (2SEC) R-16	GDC 08	55.3S	107 19.0E	S RAMA05WT

GMT D / M / Y		LOC C C	CODE	SAMPLE	IDENT.	CODE	16 JAN 81 PAGE		5
TIME	DATE	TIME T2	SAMP			DISP	LAT.	LONG.	LEG-SHIP

0716	25/ 9/80		SPRF B	AIRGUN (2SEC)	R-17	GDC 08	52.5S	107 17.1E	S RAMA05WT
0600	26/ 9/80		SPRF E	AIRGUN (2SEC)	R-17	GDC 07	42.2S	104 35.4E	S RAMA05WT
0603	26/ 9/80		SPRF B	AIRGUN (2SEC)	R-18	GDC 07	42.0S	104 35.1E	S RAMA05WT
1309	26/ 9/80		SPRF E	AIRGUN (2SEC)	R-18	GDC 06	51.7S	105 12.4E	S RAMA05WT
1315	26/ 9/80		SPRF B	AIRGUN (2SEC)	R-19	GDC 06	51.4S	105 11.7E	S RAMA05WT
1518	27/ 9/80		SPRF E	AIRGUN (2SEC)	R-19	GDC 04	52.1S	102 13.2E	S RAMA05WT
1527	27/ 9/80		SPRF B	AIRGUN (2SEC)	R-20	GDC 04	51.0S	102 12.1E	S RAMA05WT
2016	28/ 9/80		SPRF E	AIRGUN (2SEC)	R-20	GDC 01	34.1S	100 10.1E	S RAMA05WT
0100	25/ 8/80		SPRS B	AIRGUN (5SEC)	R-01	GDC 09	03.7N	135 41.4E	S RAMA05WT
0201	26/ 8/80		SPRS E	AIRGUN (5SEC)	R-01	GDC 07	02.9N	131 55.6E	S RAMA05WT
0947	26/ 8/80		SPRS B	AIRGUN (5SEC)	R-02	GDC 06	36.1N	131 14.6E	S RAMA05WT
0327	28/ 8/80		SPRS E	AIRGUN (5SEC)	R-02	GDC 03	51.9N	127 16.9E	S RAMA05WT
0333	28/ 8/80		SPRS B	AIRGUN (5SEC)	R-03	GDC 03	51.2N	127 16.2E	S RAMA05WT
1214	31/ 8/80		SPRS E	AIRGUN (5SEC)	R-03	GDC 01	28.3N	120 50.4E	S RAMA05WT
1217	31/ 8/80		SPRS B	AIRGUN (5SEC)	R-04	GDC 01	28.2N	120 49.9E	S RAMA05WT
1956	1/ 9/80		SPRS E	AIRGUN (5SEC)	R-04	GDC 02	06.2S	116 51.8E	S RAMA05WT
1957	1/ 9/80		SPRS B	AIRGUN (5SEC)	R-05	GDC 02	06.3S	116 51.6E	S RAMA05WT
0956	3/ 9/80		SPRS E	AIRGUN (5SEC)	R-05	GDC 06	23.5S	113 23.0E	S RAMA05WT
0920	13/ 9/80		SPRS B	AIRGUN (5SEC)	R-06	GDC 08	59.5S	114 20.0E	S RAMA05WT
0545	14/ 9/80		SPRS E	AIRGUN (5SEC)	R-06	GDC 09	13.6S	111 14.1E	S RAMA05WT
0550	14/ 9/80		SPRS B	AIRGUN (5SEC)	R-07	GDC 09	13.6S	111 13.5E	S RAMA05WT
1330	15/ 9/80		SPRS E	AIRGUN (5SEC)	R-07	GDC 08	49.4S	108 50.4E	S RAMA05WT
1330	15/ 9/80		SPRS B	AIRGUN (5SEC)	R-08	GDC 08	49.4S	108 50.4E	S RAMA05WT
0921	16/ 9/80		SPRS E	AIRGUN (5SEC)	R-08	GDC 10	27.6S	108 28.5E	S RAMA05WT
0929	16/ 9/80		SPRS B	AIRGUN (5SEC)	R-09	GDC 10	26.7S	108 28.5E	S RAMA05WT
0852	17/ 9/80		SPRS E	AIRGUN (5SEC)	R-09	GDC 10	11.4S	108 08.5E	S RAMA05WT
0856	17/ 9/80		SPRS B	AIRGUN (5SEC)	R-10	GDC 10	11.0S	108 08.4E	S RAMA05WT
0500	18/ 9/80		SPRS E	AIRGUN (5SEC)	R-10	GDC 09	59.5S	107 47.1E	S RAMA05WT
0503	18/ 9/80		SPRS B	AIRGUN (5SEC)	R-11	GDC 09	59.2S	107 47.1E	S RAMA05WT
1038	19/ 9/80		SPRS E	AIRGUN (5SEC)	R-11	GDC 09	59.4S	107 27.6E	S RAMA05WT
1043	19/ 9/80		SPRS B	AIRGUN (5SEC)	R-12	GDC 09	59.3S	107 28.0E	S RAMA05WT
0404	20/ 9/80		SPRS E	AIRGUN (5SEC)	R-12	GDC 09	38.2S	108 48.2E	S RAMA05WT
0855	20/ 9/80		SPRS B	AIRGUN (5SEC)	R-13	GDC 09	35.5S	108 42.0E	S RAMA05WT
0041	22/ 9/80		SPRS E	AIRGUN (5SEC)	R-13	GDC 09	45.0S	107 57.1E	S RAMA05WT

GMT D / M / Y TIME DATE	LOC LOC TIME TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
0047 22/ 9/80		SPRS B	AIRGUN (5SEC) R-14	GDC 09	44.4S	107 57.3E	S RAMA05WT
1842 22/ 9/80		SPRS E	AIRGUN (5SEC) R-14	GDC 08	00.6S	108 24.4E	S RAMA05WT
1846 22/ 9/80		SPRS B	AIRGUN (5SEC) R-15	GDC 08	00.4S	108 24.7E	S RAMA05WT
0554 24/ 9/80		SPRS E	AIRGUN (5SEC) R-15	GDC 08	54.0S	107 15.9E	S RAMA05WT
0740 24/ 9/80		SPRS B	AIRGUN (5SEC) R-16	GDC 08	53.8S	107 16.4E	S RAMA05WT
0607 25/ 9/80		SPRS E	AIRGUN (5SEC) R-16	GDC 08	55.3S	107 19.0E	S RAMA05WT
0716 25/ 9/80		SPRS B	AIRGUN (5SEC) R-17	GDC 08	52.5S	107 17.1E	S RAMA05WT
0600 26/ 9/80		SPRS E	AIRGUN (5SEC) R-17	GDC 07	42.2S	104 35.4E	S RAMA05WT
0603 26/ 9/80		SPRS B	AIRGUN (5SEC) R-18	GDC 07	42.0S	104 35.1E	S RAMA05WT
1518 27/ 9/80		SPRS E	AIRGUN (5SEC) R-18	GDC 04	52.1S	102 13.2E	S RAMA05WT
1527 27/ 9/80		SPRS B	AIRGUN (5SEC) R-19	GDC 04	51.0S	102 12.1E	S RAMA05WT
2016 28/ 9/80		SPRS E	AIRGUN (5SEC) R-19	GDC 01	34.1S	100 10.1E	S RAMA05WT

SINGLE-CHANNEL DIGITAL SEISMIC TAPES

1124 28/ 8/80		SPST B	SINGLE-CHANNEL TAPES	SCG 02	44.0N	126 29.0E	S RAMA05WT
0033 21/ 9/80		SPST E	REELS 0001-0027	SCG 09	34.0S	108 43.1E	S RAMA05WT
2020 23/ 9/80		SPST B	SINGLE-CHANNEL TAPES	SCG 09	17.1S	108 50.6E	S RAMA05WT
2010 28/ 9/80		SPST E	REELS 0150-0160	SCG 01	34.7S	100 10.2E	S RAMA05WT

MULTI-CHANNEL DIGITAL SEISMIC TAPES

0851 21/ 9/80		SPMT B	MULTI-CHANNEL TAPES	SCG 09	38.1S	108 23.0E	S RAMA05WT
1446 23/ 9/80		SPMT E	REELS 0028-0149	SCG 09	19.4S	109 01.9E	S RAMA05WT

MULTI-CHANNEL SEISMIC LINE

0850 21/ 9/80		SPML B	LINE RAMA05-41-48	GDC 09	38.0S	108 23.0E	S RAMA05WT
1442 23/ 9/80		SPML E	LINE RAMA05-41-48	GDC 09	19.1S	109 02.3E	S RAMA05WT

SEISMIC REFLECTION/REFRACTION (CONTACT GDC FOR EXPLANATION OF CODES)

1109 26/ 8/80		SRSS	SEIS RUN RAMA05-01	GDC 06	30.8N	131 02.9E	S RAMA05WT
1237 30/ 8/80		SRSS	SEIS RUN RAMA05-02	GDC 01	55.6N	124 22.5E	S RAMA05WT
1429 30/ 8/80		SRSS	SEIS RUN RAMA05-03	GDC 01	52.9N	124 07.2E	S RAMA05WT
1254 31/ 8/80		SRSS	SEIS RUN RAMA05-04	GDC 01	24.6N	120 44.9E	S RAMA05WT
0100 1/ 9/80		SRSS	SEIS RUN RAMA05-05	GDC 00	03.6N	119 07.8E	S RAMA05WT
0526 1/ 9/80		SRSS	SEIS RUN RAMA05-06	GDC 00	28.8S	118 37.8E	S RAMA05WT
0637 1/ 9/80		SRSS	SEIS RUN RAMA05-07	GDC 00	36.9S	118 29.9E	S RAMA05WT
1319 2/ 9/80		SRSS	SEIS RUN RAMA05-08	GDC 04	36.9S	116 07.8E	S RAMA05WT
2138 2/ 9/80		SRSS	SEIS RUN RAMA05-09	GDC 05	25.2S	115 01.7E	S RAMA05WT
0522 3/ 9/80		SRSS	SEIS RUN RAMA05-10	GDC 06	01.3S	113 59.8E	S RAMA05WT
0229 14/ 9/80		SRSS	SEIS RUN RAMA05-11	GDC 09	17.2S	111 47.9E	S RAMA05WT

GMT TIME	D / M / Y DATE	LOC TIME	LOC T 7	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	7 LEG-SHIP CRUISE
0338	14/ 9/80			SRSS	SEIS RUN RAMA05-12	GDC 09	16.1S	111 35.8E	S RAMA05WT
1345	14/ 9/80			SRSS	SEIS RUN RAMA05-13	GDC 08	57.6S	109 58.3E	S RAMA05WT
2053	14/ 9/80			SRCS B	SEIS RUN RAMA05-14W	GGG 08	41.5S	108 51.6E	S RAMA05WT
0042	15/ 9/80			SRCS E	RV/AX/SD/AN	GGG 08	29.0S	108 14.8E	S RAMA05WT
2052	14/ 9/80			SBSD	SONOBUOY RAMA5-14A	GDC 08	41.5S	108 51.8E	S RAMA05WT
2054	14/ 9/80			SBSD	SONOBUOY RAMA5-14B	GDC 08	41.4S	108 51.5E	S RAMA05WT
2054	14/ 9/80			SBSD	SONOBUOY RAMA5-14C	GDC 08	41.4S	108 51.5E	S RAMA05WT
2055	14/ 9/80			SBSD	SONOBUOY RAMA5-14D	GDC 08	41.4S	108 51.3E	S RAMA05WT
2155	14/ 9/80			SBSD	SONOBUOY RAMA5-14E	GDC 08	38.0S	108 42.1E	S RAMA05WT
2241	14/ 9/80			SBSD	SONOBUOY RAMA5-14F	GDC 08	35.3S	108 34.8E	S RAMA05WT
2321	14/ 9/80			SBSD	SONOBUOY RAMA5-14G	GDC 08	33.1S	108 27.9E	S RAMA05WT
0042	15/ 9/80			SRCS B	SEIS RUN RAMA05-14E	GGG 08	29.0S	108 14.8E	S RAMA05WT
0505	15/ 9/80			SRCS E	RV/AX/SD/AN	GGG 08	44.2S	108 49.7E	S RAMA05WT
0054	15/ 9/80			SBSD	SONOBUOY RAMA5-14H	GDC 08	29.2S	108 14.7E	S RAMA05WT
0054	15/ 9/80			SBSD	SONOBUOY RAMA5-14I	GDC 08	29.2S	108 14.7E	S RAMA05WT
0141	15/ 9/80			SBSD	SONOBUOY RAMA5-14J	GDC 08	31.7S	108 20.5E	S RAMA05WT
0239	15/ 9/80			SBSD	SONOBUOY RAMA5-14K	GDC 08	35.6S	108 28.5E	S RAMA05WT
0239	15/ 9/80			SBSD	SONOBUOY RAMA5-14L	GDC 08	35.6S	108 28.5E	S RAMA05WT
0555	15/ 9/80			SRCS B	SEIS RUN RAMA05-15W	GGG 08	50.8S	108 49.6E	S RAMA05WT
0921	15/ 9/80			SRCS E	RV/AX/SD/AN	GGG 08	41.4S	108 14.6E	S RAMA05WT
0555	15/ 9/80			SBSD	SONOBUOY RAMA5-15A	GDC 08	50.8S	108 49.6E	S RAMA05WT
0556	15/ 9/80			SBSD	SONOBUOY RAMA5-15B	GDC 08	50.7S	108 49.4E	S RAMA05WT
0556	15/ 9/80			SBSD	SONOBUOY RAMA5-15C	GDC 08	50.7S	108 49.4E	S RAMA05WT
0654	15/ 9/80			SBSD	SONOBUOY RAMA5-15D	GDC 08	48.1S	108 39.6E	S RAMA05WT
0739	15/ 9/80			SBSD	SONOBUOY RAMA5-15E	GDC 08	46.0S	108 32.0E	S RAMA05WT
0740	15/ 9/80			SBSD	SONOBUOY RAMA5-15F	GDC 08	46.0S	108 31.8E	S RAMA05WT
0921	15/ 9/80			SRCS B	SEIS RUN RAMA05-15E	GGG 08	41.4S	108 14.6E	S RAMA05WT
1325	15/ 9/80			SRCS E	RV/AX/SD/AN	GGG 08	49.3S	108 49.7E	S RAMA05WT
0930	15/ 9/80			SBSD	SONOBUOY RAMA5-15G	GDC 08	41.6S	108 15.2E	S RAMA05WT
0930	15/ 9/80			SBSD	SONOBUOY RAMA5-15H	GDC 08	41.6S	108 15.2E	S RAMA05WT
0931	15/ 9/80			SBSD	SONOBUOY RAMA5-15I	GDC 08	41.7S	108 15.4E	S RAMA05WT
1034	15/ 9/80			SBSD	SONOBUOY RAMA5-15J	GDC 08	43.8S	108 24.5E	S RAMA05WT
1121	15/ 9/80			SBSD	SONOBUOY RAMA5-15K	GDC 08	45.5S	108 31.4E	S RAMA05WT
1122	15/ 9/80			SBSD	SONOBUOY RAMA5-15L	GDC 08	45.5S	108 31.5E	S RAMA05WT
1202	15/ 9/80			SBSD	SONOBUOY RAMA5-15M	GDC 08	46.8S	108 37.5E	S RAMA05WT
2046	19/ 9/80			SRCS B	SEIS RUN RAMA05-16	GGG 09	20.5S	107 48.5E	S RAMA05WT
0055	21/ 9/80			SRCS E	RV/AX/SD,MB/AD	GGG 09	34.8S	108 42.2E	S RAMA05WT
1924	19/ 9/80			SBMB B	RAMA 5-16A	GGG 09	20.5S	107 48.1E	S RAMA05WT
1517	20/ 9/80			SBMB E	M00RED BUOY JD	GGG 09	19.8S	107 47.9E	S RAMA05WT
2131	19/ 9/80			SBSD	SONOBUOY RAMA5-16B	GDC 09	22.2S	107 54.4E	S RAMA05WT
2311	19/ 9/80			SBSD	SONOBUOY RAMA5-16C	GDC 09	26.9S	108 07.7E	S RAMA05WT
0002	20/ 9/80			SBSD	SONOBUOY RAMA5-16D	GDC 09	29.5S	108 14.7E	S RAMA05WT
0052	20/ 9/80			SBSD	SONOBUOY RAMA5-16E	GDC 09	31.7S	108 21.4E	S RAMA05WT
0131	20/ 9/80			SBSD	SONOBUOY RAMA5-16F	GDC 09	33.0S	108 26.8E	S RAMA05WT
0220	20/ 9/80			SBSD	SONOBUOY RAMA5-16G	GDC 09	34.9S	108 33.6E	S RAMA05WT
0337	20/ 9/80			SBSD	SONOBUOY RAMA5-16H	GDC 09	37.6S	108 44.5E	S RAMA05WT

GMT TIME	D / M / Y DATE	LOG LOC TIME T2	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
0816	20/ 9/80		SBMB B	RAMA 5-16I	GGG 09	35.7S	108 42.0E	S RAMA05WT
0051	21/ 9/80		SBMB E	MOORED BUOY REGINA	GGG 09	34.8S	108 42.3E	S RAMA05WT
0931	20/ 9/80		SBSU	SONOBUOY RAMA5-16J	GDC 09	33.4S	108 35.8E	S RAMA05WT
1018	20/ 9/80		SBSU	SONOBUOY RAMA5-16K	GDC 09	31.3S	108 27.5E	S RAMA05WT
1049	20/ 9/80		SBSU	SONOBUOY RAMA5-16L	GDC 09	29.9S	108 22.0E	S RAMA05WT
1131	20/ 9/80		SBSU	SONOBUOY RAMA5-16M	GDC 09	28.0S	108 14.5E	S RAMA05WT
1212	20/ 9/80		SBSU	SONOBUOY RAMA5-16N	GDC 09	26.1S	108 07.2E	S RAMA05WT
1323	20/ 9/80		SBSU	SONOBUOY RAMA5-16O	GDC 09	22.7S	107 55.0E	S RAMA05WT
1139	22/ 9/80		SRSS	SEIS RUN RAMA05-17	GDC 08	42.7S	108 15.7E	S RAMA05WT
2023	22/ 9/80		SRSS	SEIS RUN RAMA05-18	GDC 07	54.9S	108 33.3E	S RAMA05WT
2346	22/ 9/80		SRSS	SEIS RUN RAMA05-19	GDC 07	51.8S	108 48.7E	S RAMA05WT
0712	23/ 9/80		SRSS	SEIS RUN RAMA05-20	GDC 08	37.3S	108 48.9E	S RAMA05WT
2035	23/ 9/80		SRCS B	SEIS RUN RAMA05-21	GGG 09	16.8S	108 49.6E	S RAMA05WT
0635	25/ 9/80		SRCS E	RV/AX/SO,MB/AD	GGG 08	54.7S	107 18.3E	S RAMA05WT
1956	23/ 9/80		SBMB B	RAMA 5-21A	GGG 09	17.2S	108 49.4E	S RAMA05WT
1958	24/ 9/80		SBMB E	MOORED BUOY JO	GGG 09	16.8S	108 50.2E	S RAMA05WT
2125	23/ 9/80		SBSU	SONOBUOY RAMA05-21B	GDC 09	14.6S	108 41.3E	S RAMA05WT
2252	23/ 9/80		SBSU	SONOBUOY RAMA05-21C	GDC 09	11.3S	108 27.2E	S RAMA05WT
0017	24/ 9/80		SBSU	SONOBUOY RAMA05-21D	GDC 09	08.5S	108 12.8E	S RAMA05WT
0122	24/ 9/80		SBSU	SONOBUOY RAMA05-21E	GDC 09	06.5S	108 01.8E	S RAMA05WT
0239	24/ 9/80		SBSU	SONOBUOY RAMA05-21F	GDC 09	04.4S	107 48.7E	S RAMA05WT
0359	24/ 9/80		SBSU	SONOBUOY RAMA05-21G	GDC 09	00.4S	107 35.0E	S RAMA05WT
0715	24/ 9/80		SBMB B	RAMA 5-21H	GGG 08	54.5S	107 18.2E	S RAMA05WT
0643	25/ 9/80		SBMB E	MOORED BUOY DONNA	GGG 08	54.6S	107 18.2E	S RAMA05WT
0853	24/ 9/80		SBSU	SONOBUOY RAMA05-21I	GDC 08	54.5S	107 18.7E	S RAMA05WT
0952	24/ 9/80		SBSU	SONOBUOY RAMA05-21J	GDC 08	56.8S	107 27.4E	S RAMA05WT
1052	24/ 9/80		SBSU	SONOBUOY RAMA05-21K	GDC 08	59.3S	107 36.6E	S RAMA05WT
1152	24/ 9/80		SBSU	SONOBUOY RAMA05-21L	GDC 09	01.4S	107 45.9E	S RAMA05WT
1247	24/ 9/80		SBSU	SONOBUOY RAMA05-21M	GDC 09	03.3S	107 54.2E	S RAMA05WT
1339	24/ 9/80		SBSU	SONOBUOY RAMA05-21N	GDC 09	05.0S	108 02.3E	S RAMA05WT
1428	24/ 9/80		SBSU	SONOBUOY RAMA05-21O	GDC 09	06.6S	108 10.1E	S RAMA05WT
1521	24/ 9/80		SBSU	SONOBUOY RAMA05-21P	GDC 09	08.1S	108 18.7E	S RAMA05WT
1611	24/ 9/80		SBSU	SONOBUOY RAMA05-21Q	GDC 09	10.0S	108 26.6E	S RAMA05WT
1701	24/ 9/80		SBSU	SONOBUOY RAMA05-21R	GDC 09	11.9S	108 34.0E	S RAMA05WT
1747	24/ 9/80		SBSU	SONOBUOY RAMA05-21S	GDC 09	13.8S	108 40.8E	S RAMA05WT
2336	24/ 9/80		SRSS	SEIS RUN RAMA05-22	GDC 08	53.6S	108 26.2E	S RAMA05WT
1356	25/ 9/80		SRSS	SEIS RUN RAMA05-23	GDC 08	01.0S	106 50.7E	S RAMA05WT
1522	25/ 9/80		SRSS	SEIS RUN RAMA05-24	GDC 07	55.8S	106 39.5E	S RAMA05WT
2037	26/ 9/80		SRSS	SEIS RUN RAMA05-25	GDC 06	29.8S	104 11.8E	S RAMA05WT
2305	26/ 9/80		SRSS	SEIS RUN RAMA05-26	GDC 06	14.5S	103 57.1E	S RAMA05WT
2345	26/ 9/80		SRSS	SEIS RUN RAMA05-27	GDC 06	10.2S	103 53.7E	S RAMA05WT
0132	27/ 9/80		SRSS	SEIS RUN RAMA05-28	GDC 05	59.0S	103 44.5E	S RAMA05WT
0307	27/ 9/80		SRSS	SEIS RUN RAMA05-29	GDC 05	49.6S	103 35.5E	S RAMA05WT
0437	27/ 9/80		SRSS	SEIS RUN RAMA05-30	GDC 05	40.8S	103 27.0E	S RAMA05WT
0548	27/ 9/80		SRSS	SEIS RUN RAMA05-31	GDC 05	33.7S	103 20.5E	S RAMA05WT
0706	27/ 9/80		SRSS	SEIS RUN RAMA05-32	GDC 05	25.7S	103 13.1E	S RAMA05WT
1427	27/ 9/80		SRSS	SEIS RUN RAMA05-33	GDC 04	55.2S	102 20.3E	S RAMA05WT
2203	27/ 9/80		SRSS	SEIS RUN RAMA05-34	GDC 04	04.1S	101 39.8E	S RAMA05WT
0128	28/ 9/80		SRSS	SEIS RUN RAMA05-35	GDC 03	40.7S	101 22.4E	S RAMA05WT

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

*** MAGNETOMETER ***

1230	24/ 8/80		MGRA B MAGNETICS R-01	GDC 10	11.5N	137 47.4E	S RAMA05WT
2235	26/ 8/80		MGRA E MAGNETICS R-01	GDC 05	44.8N	129 34.4E	S RAMA05WT
2243	26/ 8/80		MGRA B MAGNETICS R-02	GDC 05	44.3N	129 33.4E	S RAMA05WT
0407	20/ 9/80		MGRA E MAGNETICS R-02	GDC 09	38.0S	108 48.0E	S RAMA05WT
1533	20/ 9/80		MGRA B MAGNETICS R-03	GDC 09	20.4S	107 47.7E	S RAMA05WT
2032	28/ 9/80		MGRA E MAGNETICS R-03	GDC 01	32.3S	100 09.9E	S RAMA05WT

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

0133	23/ 8/80		GVRA B GRAVIMETER R-01	LMD 13	11.5N	144 01.7E	S RAMA05WT
1430	14/ 9/80		GVRA E GRAVIMETER R-01	LMD 08	55.7S	109 51.4E	S RAMA05WT
1435	14/ 9/80		GVRA B GRAVIMETER R-02	LMD 08	55.4S	109 50.7E	S RAMA05WT
0135	29/ 9/80		GVRA E GRAVIMETER R-02	LMD 01	00.7S	100 22.4E	S RAMA05WT

*** BATHYTHE RMD GRAPH ***

0945	15/ 9/80		BTXP XBT NO. 1	MTG 08	42.2S	108 17.4E	S RAMA05WT
0125	21/ 9/80		BTXP XBT NO. 2	MTG 09	34.9S	108 42.4E	S RAMA05WT
0619	25/ 9/80		BTXP XBT NO. 3	MTG 08	54.8S	107 18.2E	S RAMA05WT

9900

END SAMPLE INDEX

RAMA05WT