

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

RAMA EXPEDITION

LEG 11

Agana, Guam (10 March 1981)
to
Cebu, Philippines (25 March, 1981)

R/V T. Washington

Co-Chief Scientists - L. Dorman (SIO)
D. Bibee (OSU)

Resident Marine Tech - W. Keith

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

Data Collection Funded by ONR
Grant Number ONR-0440
Data Processing Funded by SIA and ONR

NOTE

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

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

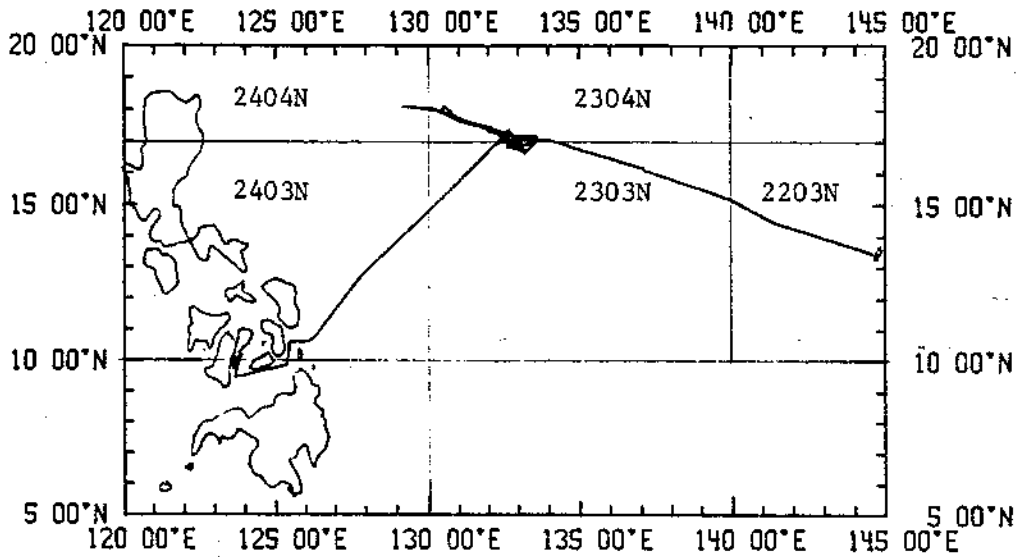
Contents:

- Index Chart - gives track of cruise leg and boundaries of depth compilation plots (see below).
- Track Charts - annotated with dates (day/month) and hour ticks. The scale is .3 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

RAMA11WT
TRACK PLOT AT .1632IN/DEGREE



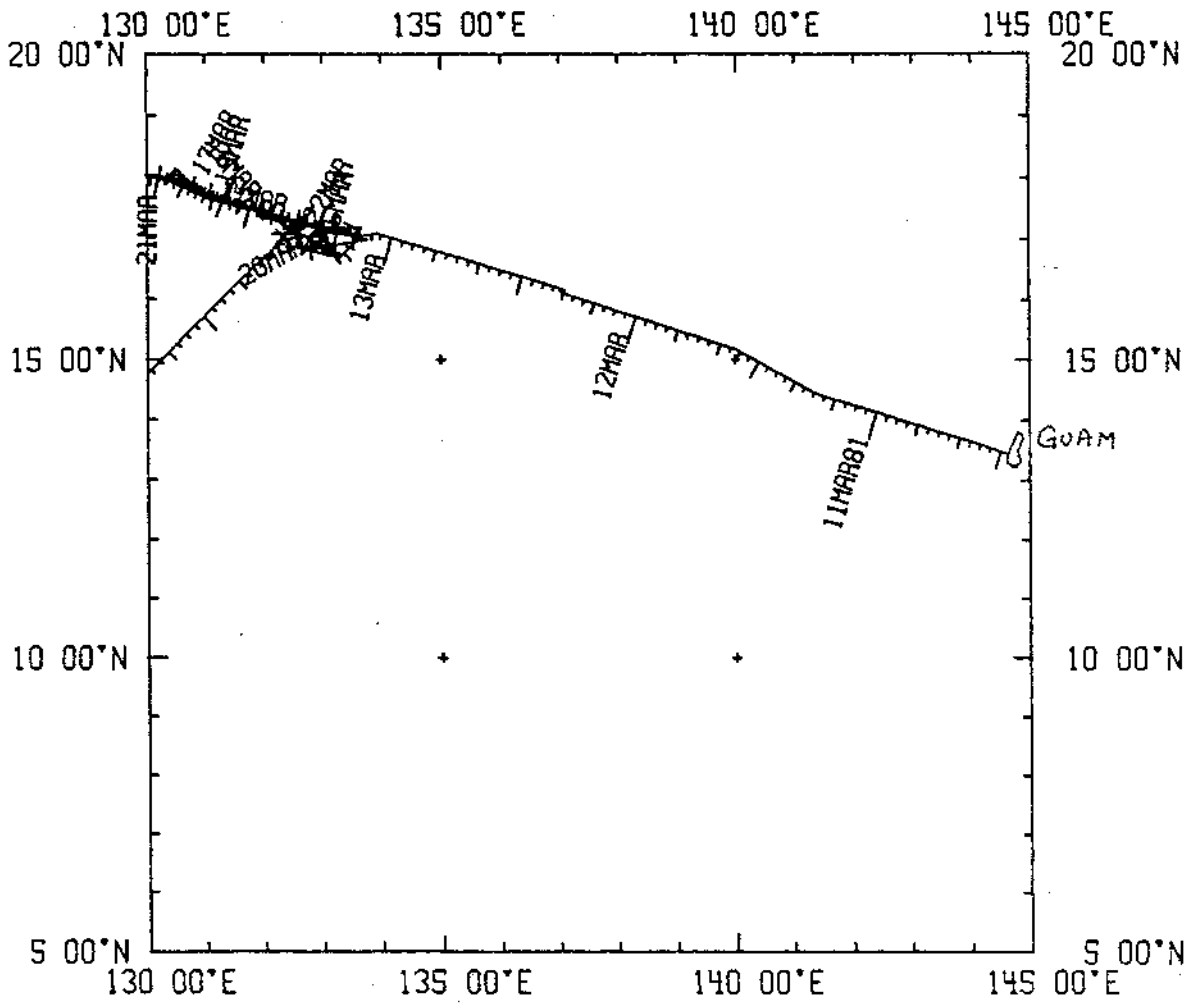
RAMA EXPEDITION
LEG 11

Co-Chief Scientists: L. Dorman (SIO)
D. Bibee (OSU)
Ports: Agana, Guam - Cebu, Philippines
Dates: 10 - 25 March, 1981
Ship: R/V Thomas Washington

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

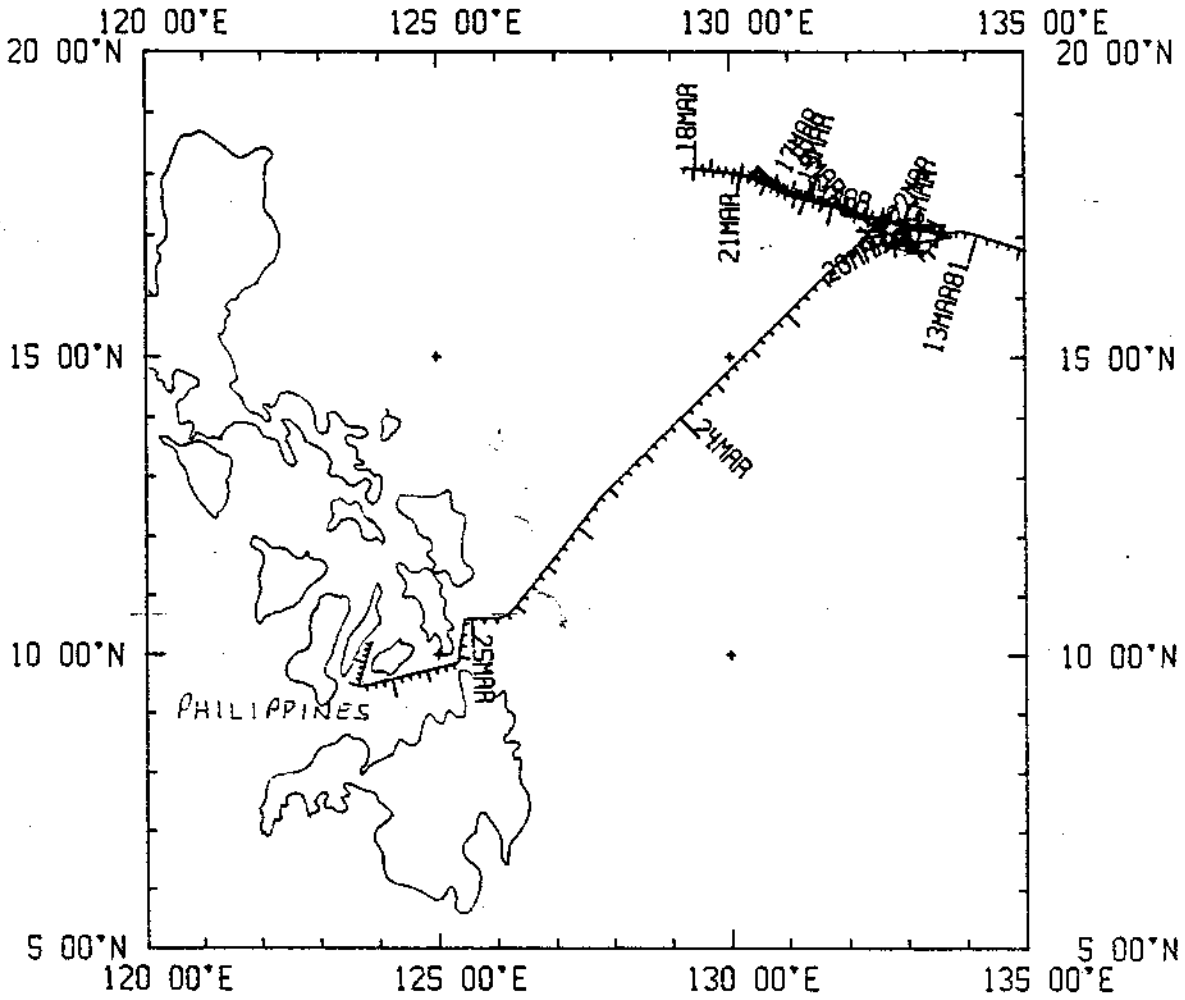
- 1) Cruise - 3043 miles
- 2) Bathymetry - 1808 miles
- 3) Magnetics - 1000 miles
- 4) Seismic Reflection - 405 miles
- 5) Gravity - 2895 miles

RAMA11WT (PLOT 1 OF 2)
TRACK PLOT AT .312IN/DEGREE

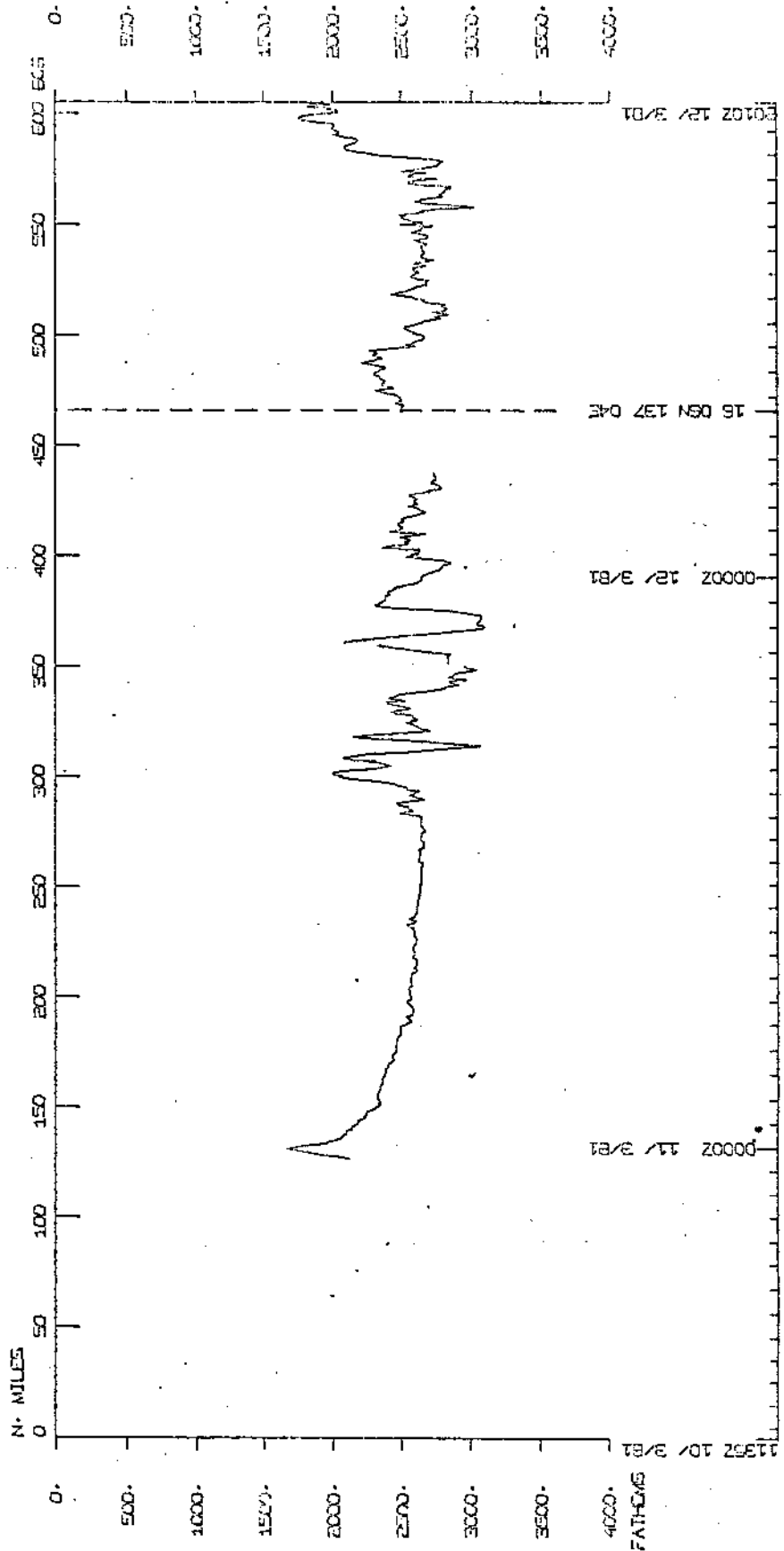
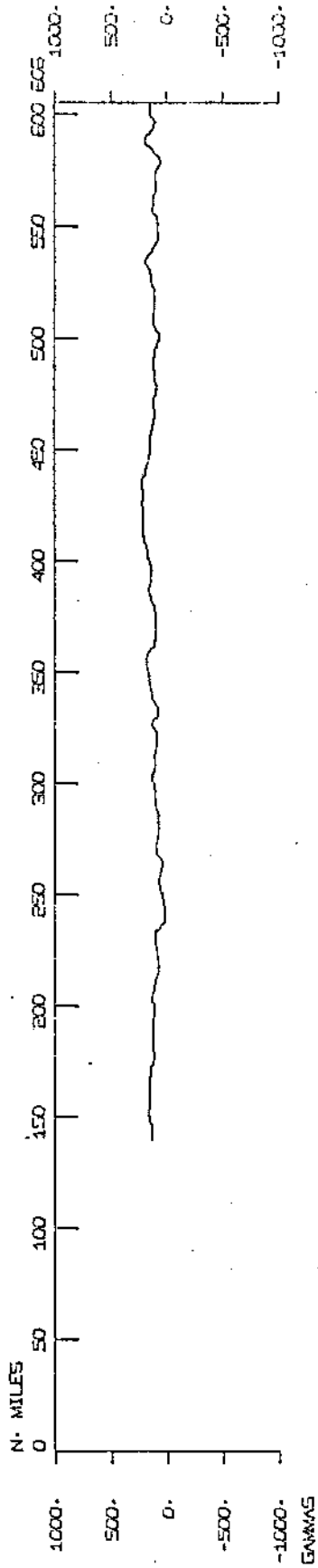


RAMA11WT (PLOT 2 OF 2)

TRACK PLOT AT .312IN/DEGREE

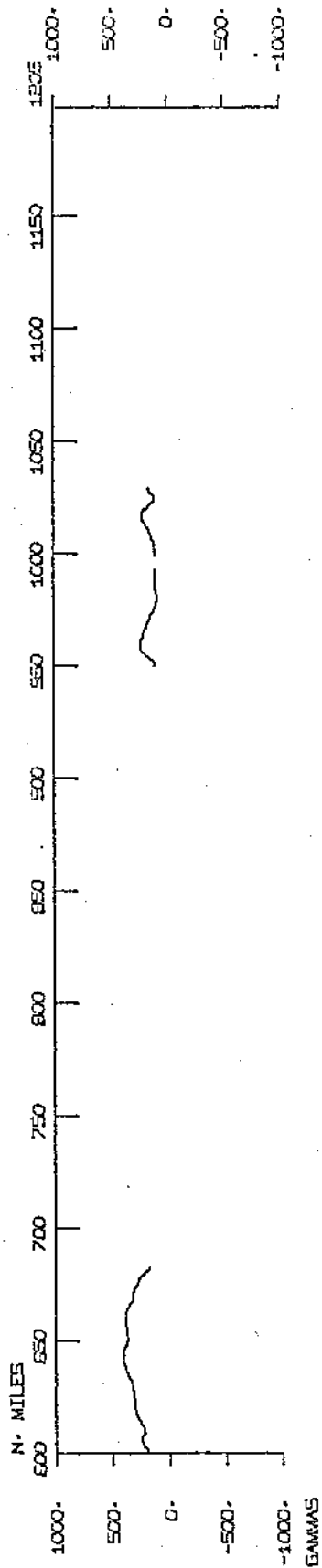
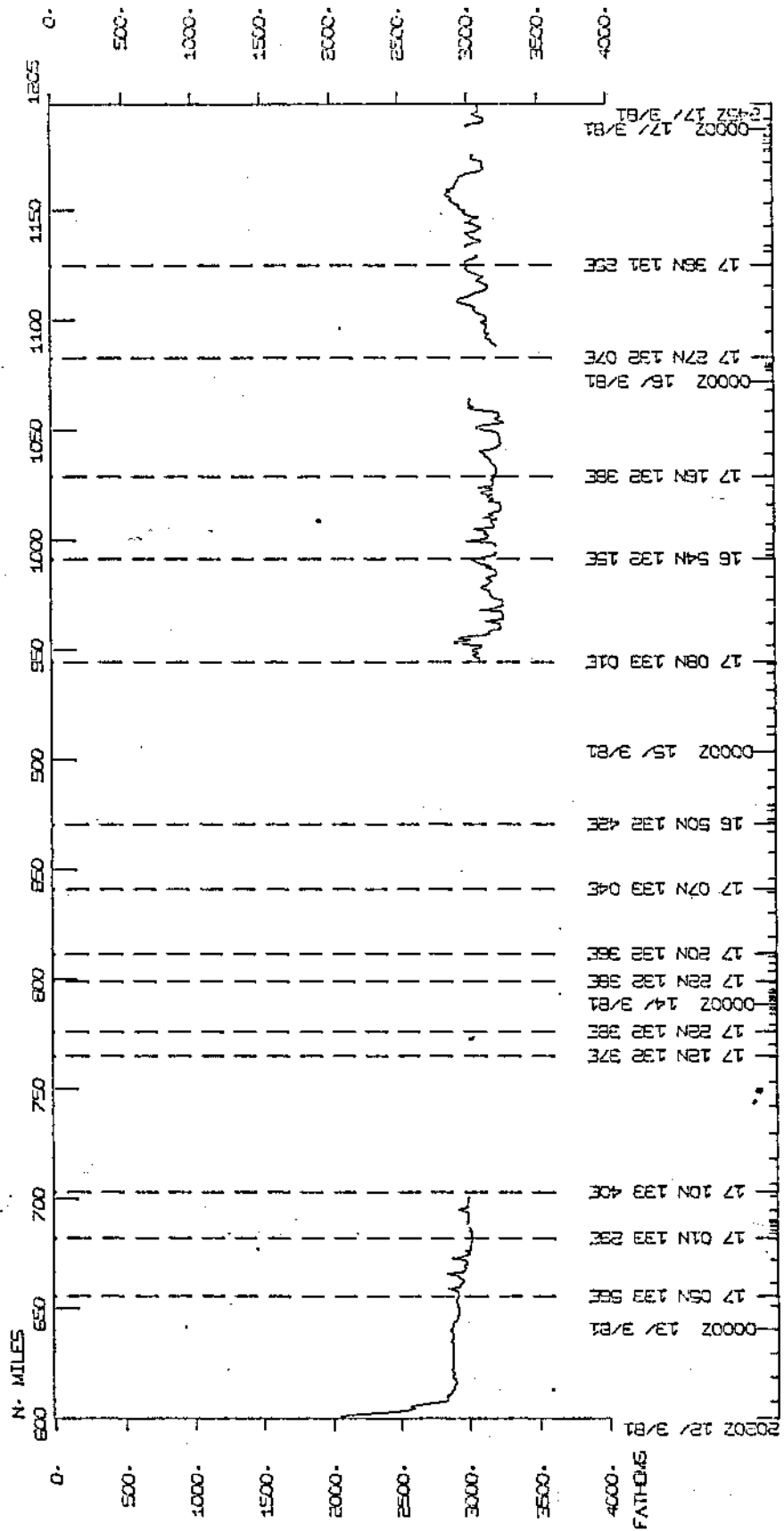


RAMA11WT

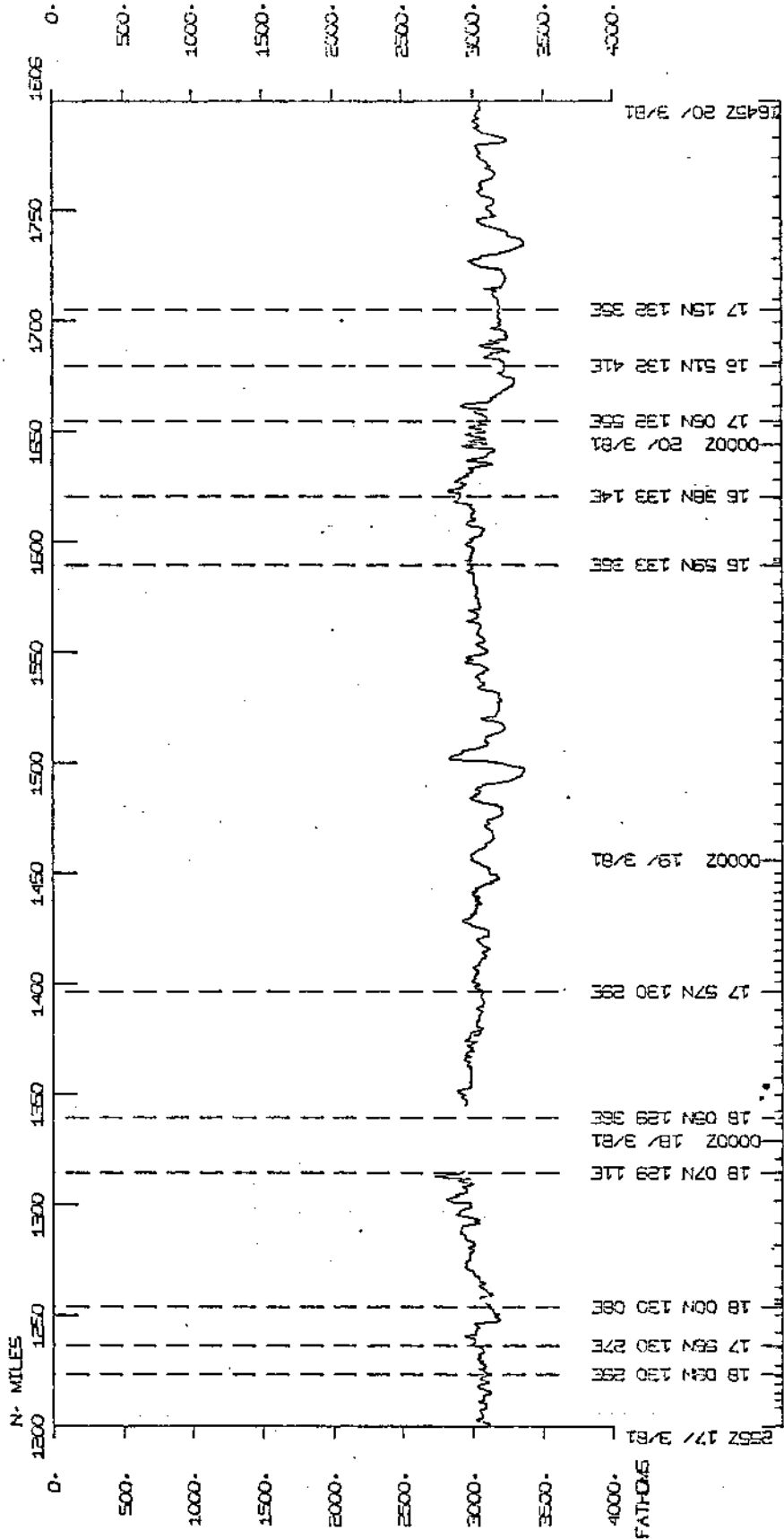
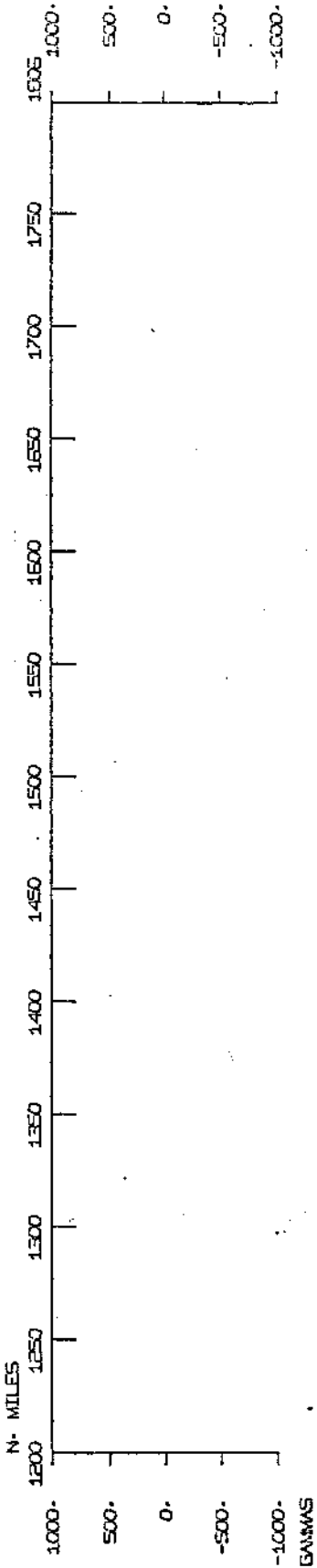


1352 10 / 3/81
0000Z 11 / 3/81
16 05N 137 04E
0000Z 12 / 3/81
16 05N 137 04E
1352 12 / 3/81

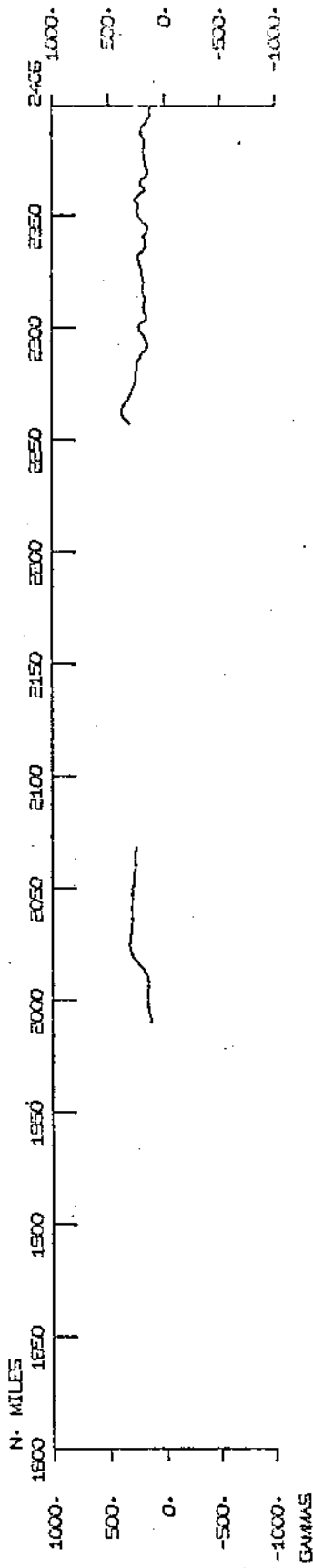
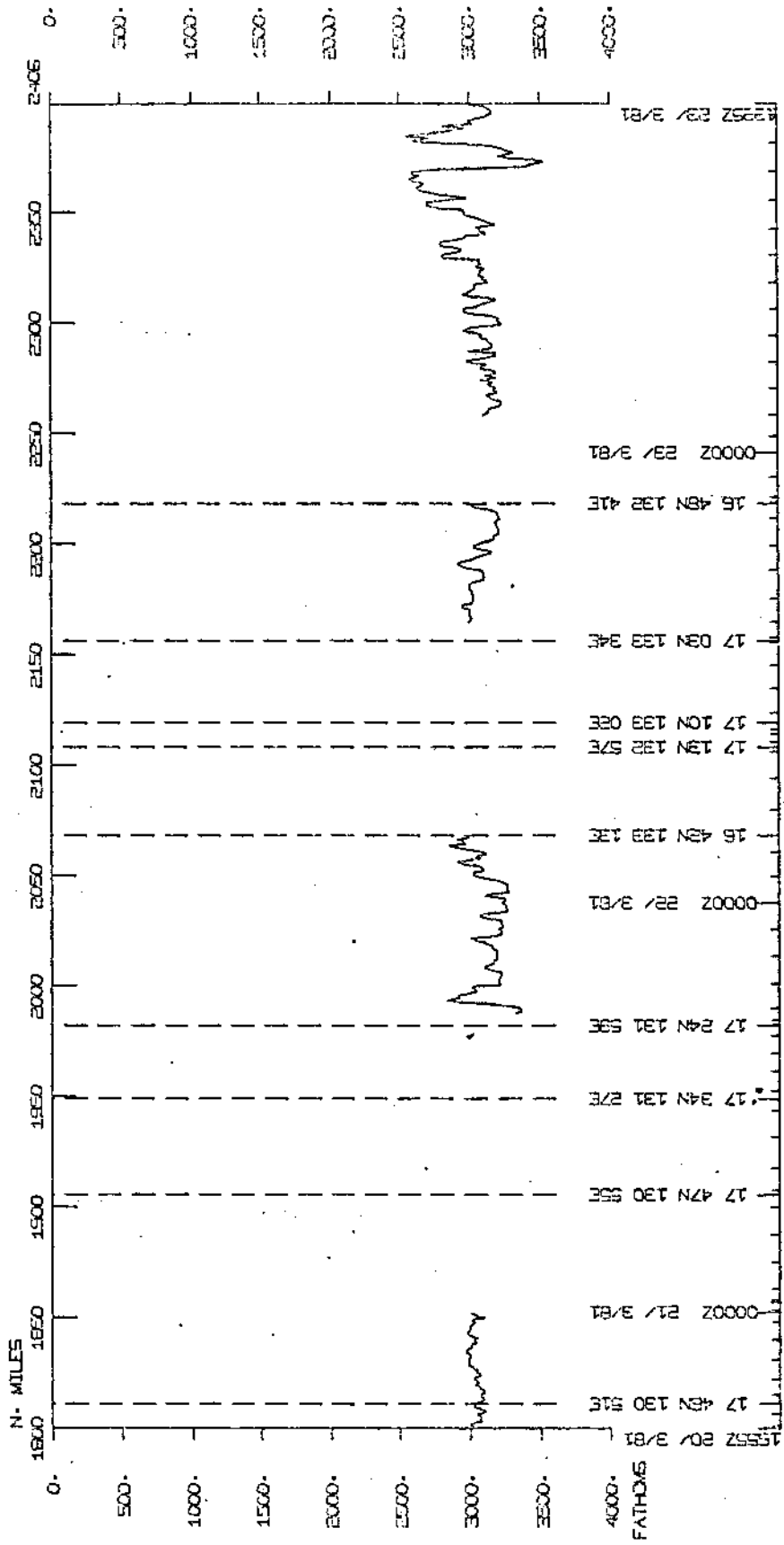
RAMA11WT



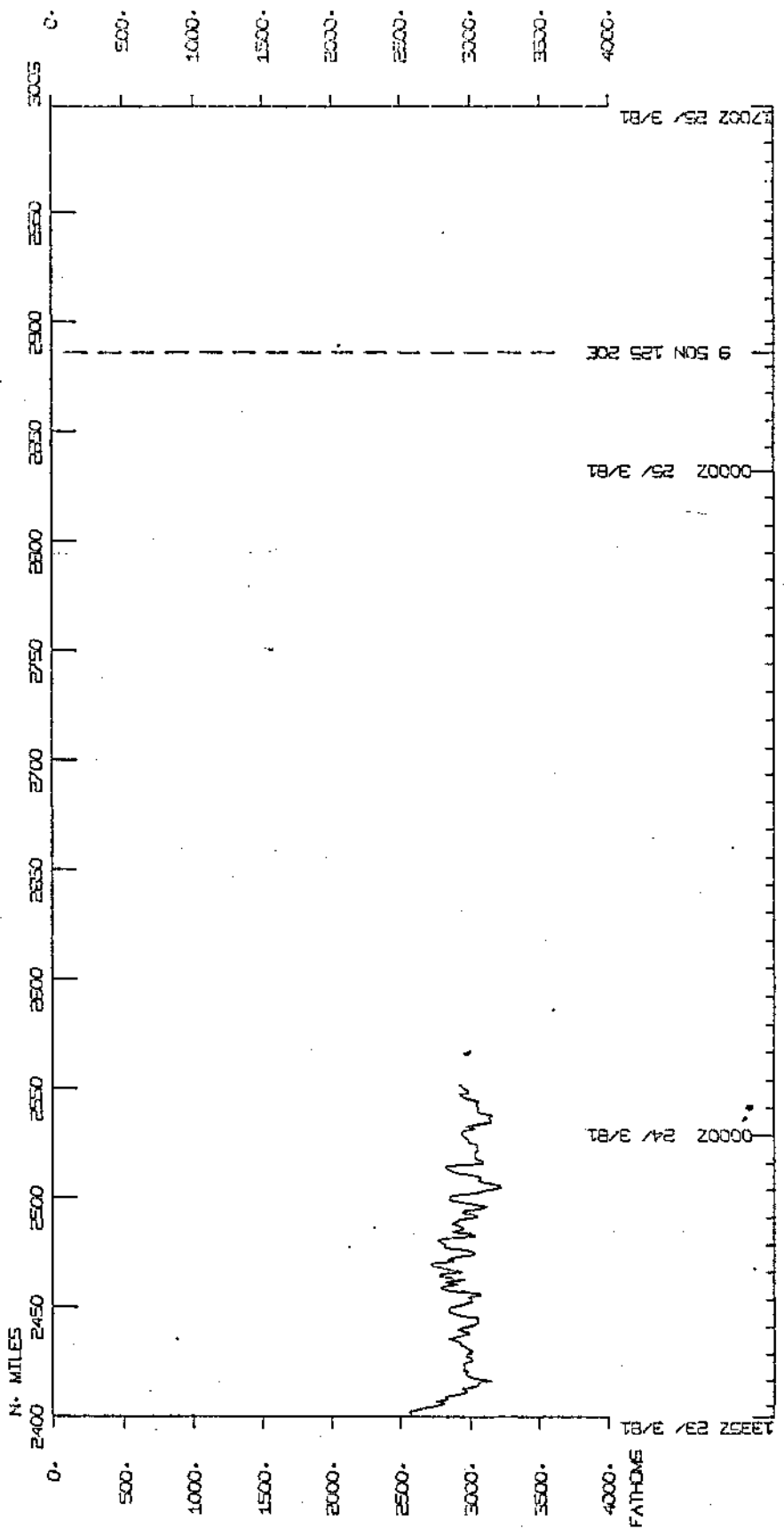
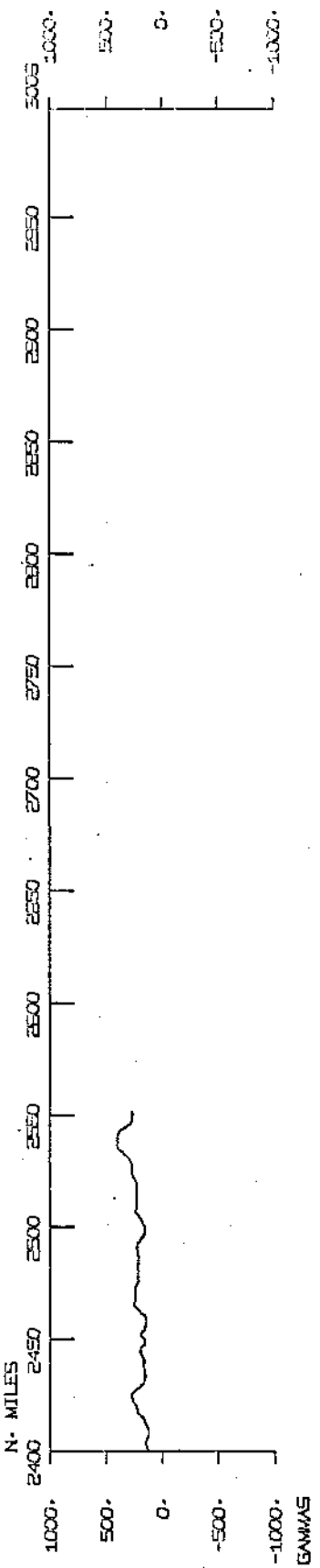
RAMA11WT



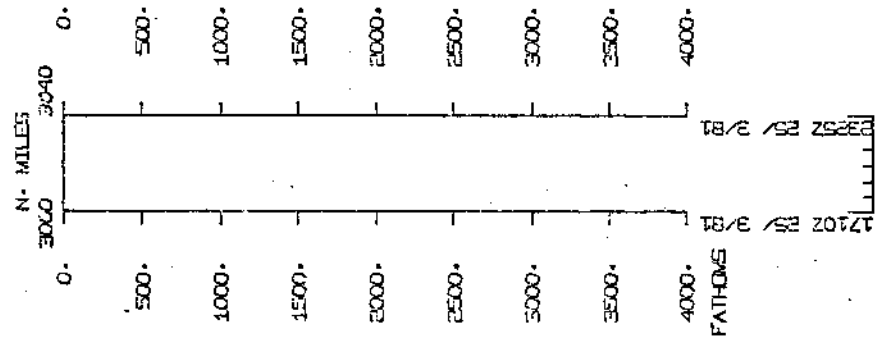
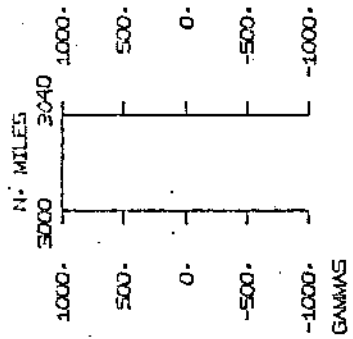
RAMM11WT



RAMM11WT



RAMA11WT



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

RAMA EXPEDITION

Leg 11

Agana, Guam (10 March, 1981)
to
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R/V Thomas Washington

Co-Chief Scientists - L. Dorman (SIO)
D. Bibee (OSU)

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.)

NUMBER OF SAMPLES OF CLASS 'TYPE' GOING TO DESTINATION 'DISP'

DISP	TYPE									TOTAL	
	DP	GV	LB	MG	PE	SB	SP	SR			
GDC	1	3		1	1	1		3		1	9
GRD	1					4				1	4
IGPP	1				1					1	1
LMD	1		2				8			1	10
MTG	1				3					1	3
OSU	1				5	41			1	1	47
SCG	1							1		1	1
TOTAL	1	3	2	1	1	14	49	4	1	1	75

SAMPLE 'TYPE' CODES USED ABOVE

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)
 GRD = GEOLOGICAL RESEARCH DIVISION (EXT. 3360)
 LMD = LERDY M. DORMAN (EXT. 2406)
 MTG = MARINE TECHNOLOGY GROUP (EXT. 4194)
 OSU = OREGON STATE UNIVERSITY
 SCG = SHIPBOARD COMPUTER GROUP (EXT. 4195)

06AUG81 PAGE 1
 GMT D /M /Y LOC LOC CODE SAMPLE IDENT. CODE LAT. LONG. LEG-SHIP
 TIME DATE TIME TZ SAMP DISP CRUISE

RAMA LEG 11 SAMPLE INDEX

RAMA11WT

*** PORTS ***

1058 10/ 3/81 LGPT B AGANA, GUAM 13 27. N 144 37. E F RAMA11WT
 2200 25/ 3/81 LGPT E CEBU, PHILIPPINE IS. 10 04. N 123 26. E F RAMA11WT

PERSONNEL

*** NAME ***	*** TITLE ***	*** AFFILIATION ***
1 DORMAN, L.M.	CHIEF SCIENTIST	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
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8 GOODMAN, D.	GRAD STUDENT	OREGON STATE UNIVERSITY
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10 NEWHOUSE, D.A.	STAFF RES ASSOC	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
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13 VERNON, F.L.	GRAD STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
14 WILLOUGHBY, D.F.	ASST DVLMT ENGR	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.
 (MODRED 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	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
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SINGLE-CHANNEL DIGITAL SEISMIC TAPES

1142	18/ 3/81			SPST B	SINGLE CHANNEL TAPES	SCG 17	57.0N	130 28.8E	S RAMA11WT
1930	20/ 3/81			SPST E	REELS 0001-0007	SCG 17	49.8N	130 43.8E	S RAMA11WT

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

0000	18/ 3/81			SRCS B	SEIS.RUN RAMA11-1	OSU 18	06.4N	129 26.0E	S RAMA11WT
2043	20/ 3/81			SRCS E	UR/AX/SD/OB/AN/AD	OSU 17	53.9N	130 34.1E	S RAMA11WT

SONOBUOY - OCEAN BOTTOM SEISMOMETER

1058	10/ 3/81			SBOB C	RCVR RAMA-11 OSU-08	OSU 13	27.8N	144 34.9E	S RAMA11WT
1140	13/ 3/81			SBOB E	RCVR RAMA-11 OSU-08	OSU 17	09.8N	133 39.6E	S RAMA11WT
1058	10/ 3/81			SBOB C	RCVR RAMA-11 HUGO	LMD 13	27.8N	144 34.9E	S RAMA11WT
2100	13/ 3/81			SBOB E	RCVR RAMA-11 HUGO	LMD 17	16.3N	132 41.6E	S RAMA11WT
1058	10/ 3/81			SBOB C	RCVR RAMA-11 JUAN	LMD 13	27.8N	144 34.9E	S RAMA11WT
1100	14/ 3/81			SBOB E	RCVR RAMA-11 JUAN	LMD 17	20.3N	132 37.1E	S RAMA11WT
1058	10/ 3/81			SBOB C	RCVR RAMA-11 PHRED	LMD 13	27.8N	144 34.9E	S RAMA11WT
2000	14/ 3/81			SBOB E	RCVR RAMA-11 PHRED	LMD 16	50.7N	132 41.6E	S RAMA11WT
1058	10/ 3/81			SBOB C	RCVR RAMA-11 OSU-03	OSU 13	27.8N	144 34.9E	S RAMA11WT
1420	15/ 3/81			SBOB E	RCVR RAMA-11 OSU-03	OSU 16	55.2N	132 12.7E	S RAMA11WT
1058	10/ 3/81			SBOB C	RCVR RAMA-11 OSU-14	OSU 13	27.8N	144 34.9E	S RAMA11WT
2300	15/ 3/81			SBOB E	RCVR RAMA-11 OSU-14	OSU 17	19.7N	131 58.5E	S RAMA11WT
1058	10/ 3/81			SBOB C	RCVR RAMA-11 OSU-12	OSU 13	27.8N	144 34.9E	S RAMA11WT
1015	16/ 3/81			SBOB E	RCVR RAMA-11 OSU-12	OSU 17	33.9N	131 27.0E	S RAMA11WT
1058	10/ 3/81			SBOB C	RCVR RAMA-11 MCKISC	LMD 13	27.8N	144 34.9E	S RAMA11WT
1500	16/ 3/81			SBOB E	RCVR RAMA-11 MCKISC	LMD 17	48.7N	130 50.7E	S RAMA11WT
1058	10/ 3/81			SBOB X	NOREC RAMA-11 OSU-01	OSU 13	27.8N	144 34.9E	S RAMA11WT
1058	10/ 3/81			SBOB X	NOREC RAMA-11 OSU-13	OSU 13	27.8N	144 34.9E	S RAMA11WT
0907	13/ 3/81			SBMB B	DROP RAMA-11 HYDPH	OSU 16	59.7N	133 35.7E	S RAMA11WT
1000	22/ 3/81			SBMB E	RCVR RAMA-11 HYDPH	OSU 17	10.5N	132 59.4E	S RAMA11WT
2014	14/ 3/81			SBOB B	DROP RAMA-11 KAREN	LMD 16	50.7N	132 41.5E	S RAMA11WT
2000	22/ 3/81			SBOB E	RCVR RAMA-11 KAREN	LMD 16	49.5N	132 47.3E	S RAMA11WT
0115	15/ 3/81			SBOB B	DROP RAMA-11 OSU-05	OSU 16	41.6N	133 15.6E	S RAMA11WT
0300	22/ 3/81			SBOB E	RCVR RAMA-11 OSU-05	OSU 16	42.6N	133 13.8E	S RAMA11WT
0815	15/ 3/81			SBOB X	NOREC RAMA-11 OSU-08	OSU 17	07.6N	133 02.0E	S RAMA11WT
1845	15/ 3/81			SBOB B	DROP RAMA-11 JUAN	LMD 17	16.3N	132 38.4E	S RAMA11WT
2300	22/ 3/81			SBOB E	RCVR RAMA-11 JUAN	LMD 16	58.1N	132 38.0E	S RAMA11WT
0046	16/ 3/81			SBOB B	DROP RAMA-11 OSU-03	OSU 17	25.4N	132 02.8E	S RAMA11WT
1935	21/ 3/81			SBOB E	RCVR RAMA-11 OSU-03	OSU 17	24.8N	132 02.8E	S RAMA11WT
1040	16/ 3/81			SBOB B	DROP RAMA-11 PHRED	LMD 17	34.6N	131 27.0E	S RAMA11WT
1100	21/ 3/81			SBOB E	RCVR RAMA-11 PHRED	LMD 17	40.1N	131 09.9E	S RAMA11WT

GMT TIME	D / M / Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP
2301	16/ 3/81			S80B B	DROP RAMA-11 OSU-12	OSU 17	46.2N	130 52.3E	S RAMA11WT
0935	21/ 3/81			S80B E	RCVR RAMA-11 OSU-12	OSU 17	46.7N	130 50.8E	S RAMA11WT
1452	17/ 3/81			S80B B	DROP RAMA-11 OSU-14	OSU 18	02.3N	130 09.2E	S RAMA11WT
0200	21/ 3/81			S80B E	RCVR RAMA-11 OSU-14	OSU 18	01.9N	130 11.1E	S RAMA11WT
1502	17/ 3/81			S80B B	DROP RAMA-11 HUGO	LMD 18	02.2N	130 09.4E	S RAMA11WT
0100	21/ 3/81			S80B E	RCVR RAMA-11 HUGO	LMD 18	01.3N	130 12.9E	S RAMA11WT

*** SONOBUOY ***

0300	18/ 3/81			S8SD	SONOBUOY RAMA11-1A	OSU 18	05.3N	129 34.2E	S RAMA11WT
0326	18/ 3/81			S8SD	SONOBUOY RAMA11-1B	OSU 18	04.8N	129 37.5E	S RAMA11WT
0342	18/ 3/81			S8SD	SONOBUOY RAMA11-1C	OSU 18	04.7N	129 39.6E	S RAMA11WT
0356	18/ 3/81			S8SD	SONOBUOY RAMA11-1D	OSU 18	04.6N	129 41.4E	S RAMA11WT
0312	19/ 3/81			S8SD	SONOBUOY RAMA11-1E	OSU 17	31.6N	131 51.2E	S RAMA11WT
0426	19/ 3/81			S8SD	SONOBUOY RAMA11-1F	OSU 17	25.6N	132 01.9E	S RAMA11WT
0515	19/ 3/81			S8SD	SONOBUOY RAMA11-1G	OSU 17	21.6N	132 09.0E	S RAMA11WT
0620	19/ 3/81			S8SD	SONOBUOY RAMA11-1H	OSU 17	19.2N	132 19.7E	S RAMA11WT
0736	19/ 3/81			S8SD	SONOBUOY RAMA11-1I	OSU 17	17.0N	132 32.3E	S RAMA11WT
0856	19/ 3/81			S8SD	SONOBUOY RAMA11-1J	OSU 17	13.6N	132 44.0E	S RAMA11WT
0956	19/ 3/81			S8SD	SONOBUOY RAMA11-1K	OSU 17	11.2N	132 53.0E	S RAMA11WT
1043	19/ 3/81			S8SD	SONOBUOY RAMA11-1L	OSU 17	07.8N	132 59.3E	S RAMA11WT
1136	19/ 3/81			S8SD	SONOBUOY RAMA11-1M	OSU 17	05.7N	133 06.7E	S RAMA11WT
1236	19/ 3/81			S8SD	SONOBUOY RAMA11-1N	OSU 17	04.7N	133 15.9E	S RAMA11WT
1330	19/ 3/81			S8SD	SONOBUOY RAMA11-1O	OSU 17	03.8N	133 23.9E	S RAMA11WT
1853	19/ 3/81			S8SD	SONOBUOY RAMA11-1P	OSU 16	53.8N	133 29.5E	S RAMA11WT
2143	19/ 3/81			S8SD	SONOBUOY RAMA11-1Q	OSU 16	42.4N	133 11.0E	S RAMA11WT
2301	19/ 3/81			S8SD	SONOBUOY RAMA11-1R	OSU 16	50.3N	133 04.2E	S RAMA11WT
2343	19/ 3/81			S8SD	SONOBUOY RAMA11-1S	OSU 16	55.2N	133 01.2E	S RAMA11WT
0136	20/ 3/81			S8SD	SONOBUOY RAMA11-1T	OSU 17	08.0N	132 56.8E	S RAMA11WT
0236	20/ 3/81			S8SD	SONOBUOY RAMA11-1U	OSU 17	00.3N	132 49.8E	S RAMA11WT
0328	20/ 3/81			S8SD	SONOBUOY RAMA11-1V	OSU 16	54.3N	132 43.7E	S RAMA11WT
0407	20/ 3/81			S8SD	SONOBUOY RAMA11-1W	OSU 16	53.4N	132 40.7E	S RAMA11WT
0636	20/ 3/81			S8SD	SONOBUOY RAMA11-1X	OSU 17	15.7N	132 35.6E	S RAMA11WT
0952	20/ 3/81			S8SD	SONOBUOY RAMA11-1Y	OSU 17	23.7N	132 04.8E	S RAMA11WT
1136	20/ 3/81			S8SD	SONOBUOY RAMA11-1Z	OSU 17	29.6N	131 48.9E	S RAMA11WT
1235	20/ 3/81			S8SD	SONOBUOY RAMA11-1AA	OSU 17	32.6N	131 40.1E	S RAMA11WT
1535	20/ 3/81			S8SD	SONOBUOY RAMA11-1BB	OSU 17	37.5N	131 12.8E	S RAMA11WT
1637	20/ 3/81			S8SD	SONOBUOY RAMA11-1CC	OSU 17	39.6N	131 02.7E	S RAMA11WT
1838	20/ 3/81			S8SD	SONOBUOY RAMA11-1DD	OSU 17	47.3N	130 50.4E	S RAMA11WT
1954	20/ 3/81			S8SD	SONOBUOY RAMA11-1EE	OSU 17	50.8N	130 41.2E	S RAMA11WT

*** SONOBUOY DROP *** SEISMIC REFRACTION MONITORING

0907	13/ 3/81			SBMB	MOOR.BUDY RAMA11-1A	OSU 16	59.7N	133 35.7E	S RAMA11WT
9900					END. SAMPLE INDEX				RAMA11WT