INFORMAL REPORT AND INDEX OF

NAVIGATION, DEPTH, MAGNETIC AND SUBBOTTOM PROFILER DATA

(Issued September 1980)

RAMA EXPEDITION

LEG 3

Midway Island (25 May 1980)
to
Yokosuka, Japan (25 June 1980)

R/V T. Washington

Co-Chief Scientists - E. L. Winterer and P. F. Lonsdale (SIO)

Resident Marine Tech - R. L. Comer

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

Data Collection Funded by NSF
Grant Number OCE77-23258
Data Processing Funded by SIA, NSF and ONR

GDC Cruise I.D.# - 181

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.

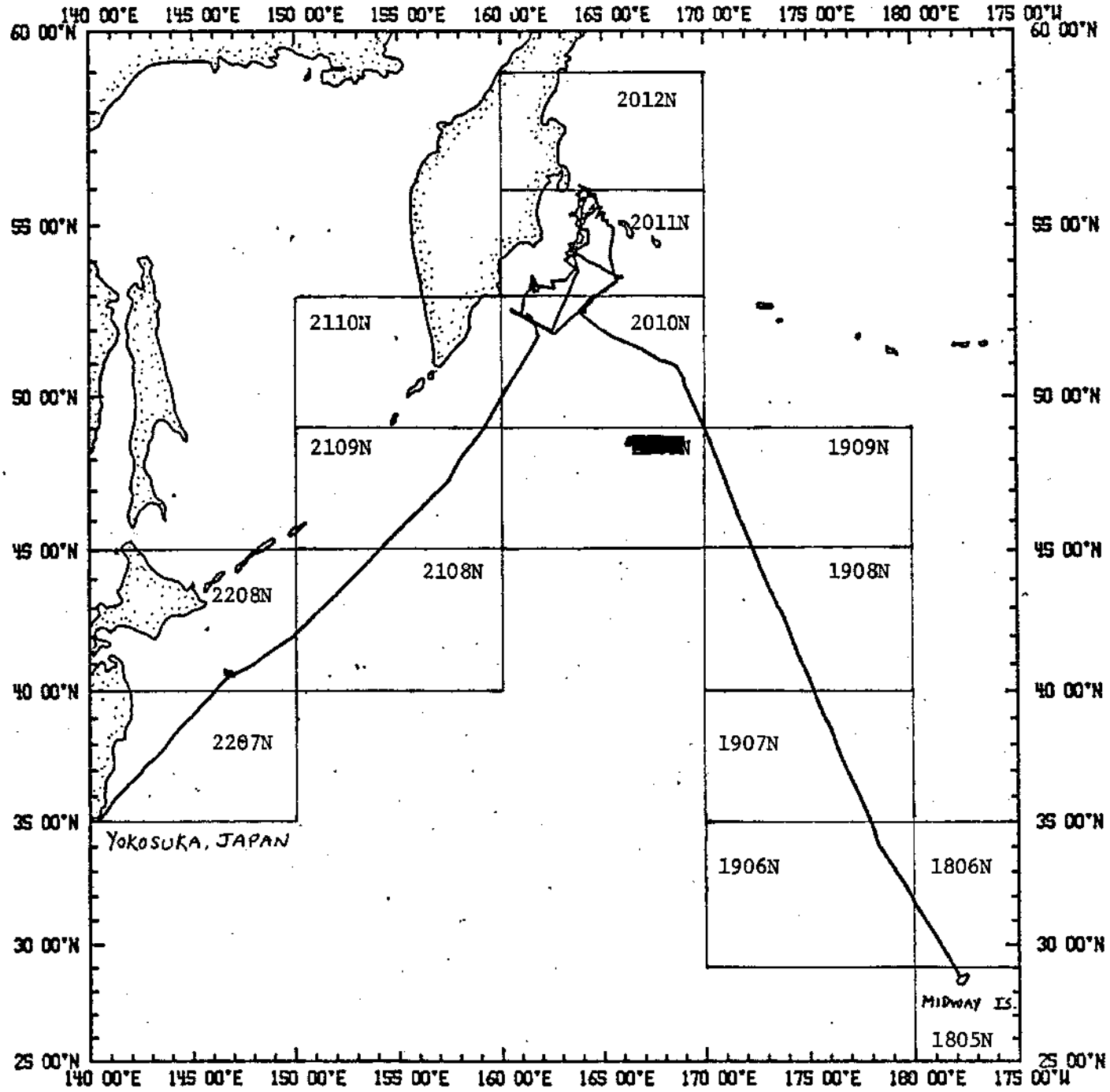
6. Microfilm or Xerox copies of:

   a. Echosounder records - 12 and 3.5 kHz frequency

   b. Subbottom profiler records (airgun)

   c. Magnetometer records

   d. Underway Data Log

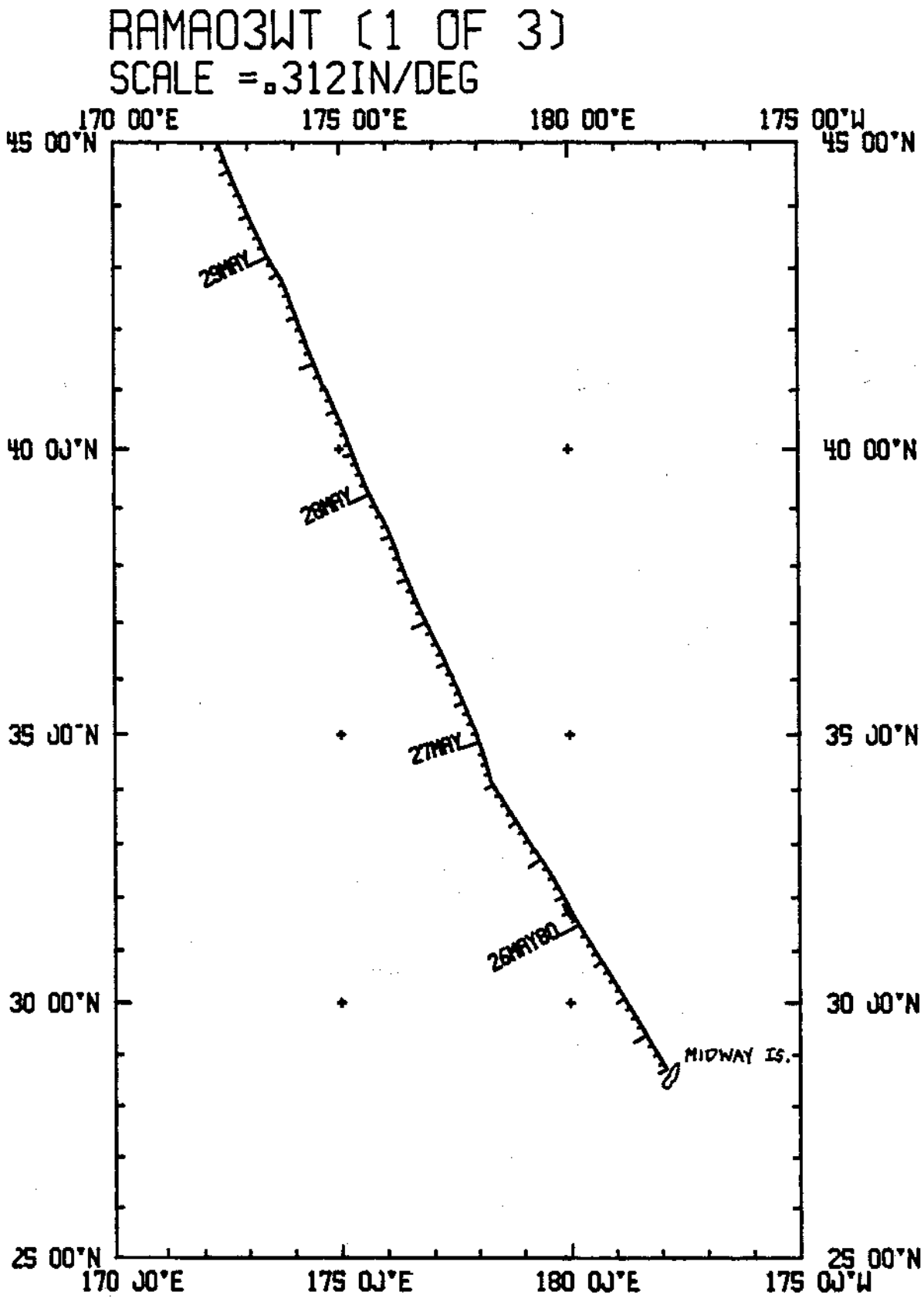


RAMA EXPEDITION LEG 3

Co-Chief Scientists: E. L. Winterer and P. F. Lonsdale (SIO)
Ports: Midway Island to Yokosuka, Japan
Dates: 25 May to 25 June 1980
Ship: R/V T. Washington

TOTAL MILEAGE

1) Cruise - 5462 miles
2) Bathymetry - 5027 miles
3) Magnetics - 4278 miles
4) Seismic Reflection - 4332 miles
5) Gravity - none collected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175 00°W
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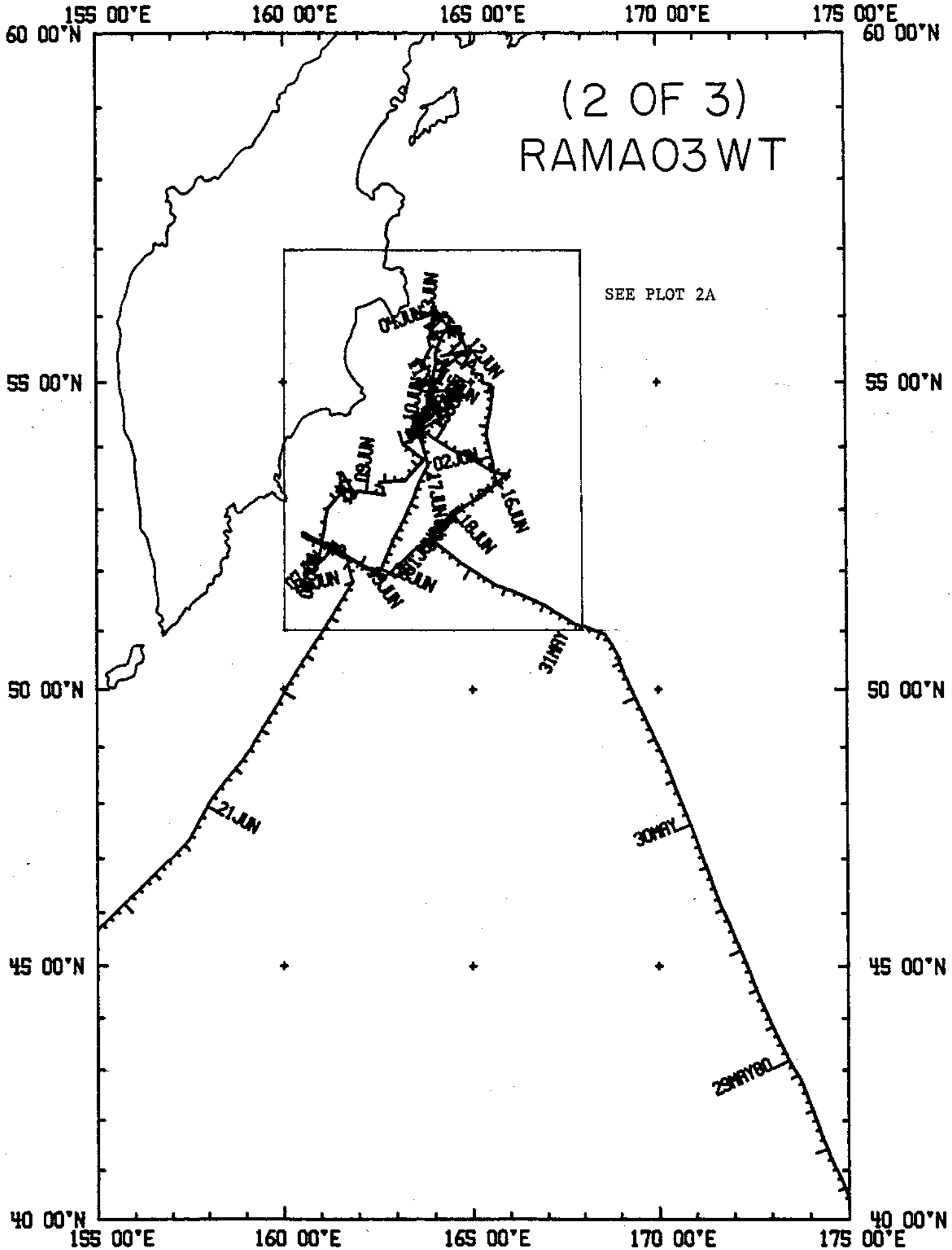
35 00°N
30 00°N
25 00°N
29MAY
28MAY
27MAY
26MAY1800
MIDWAY IS.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165 00°E
170 00°E
175 00°E
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45 00°N
40 00°N
(2 OF 3)
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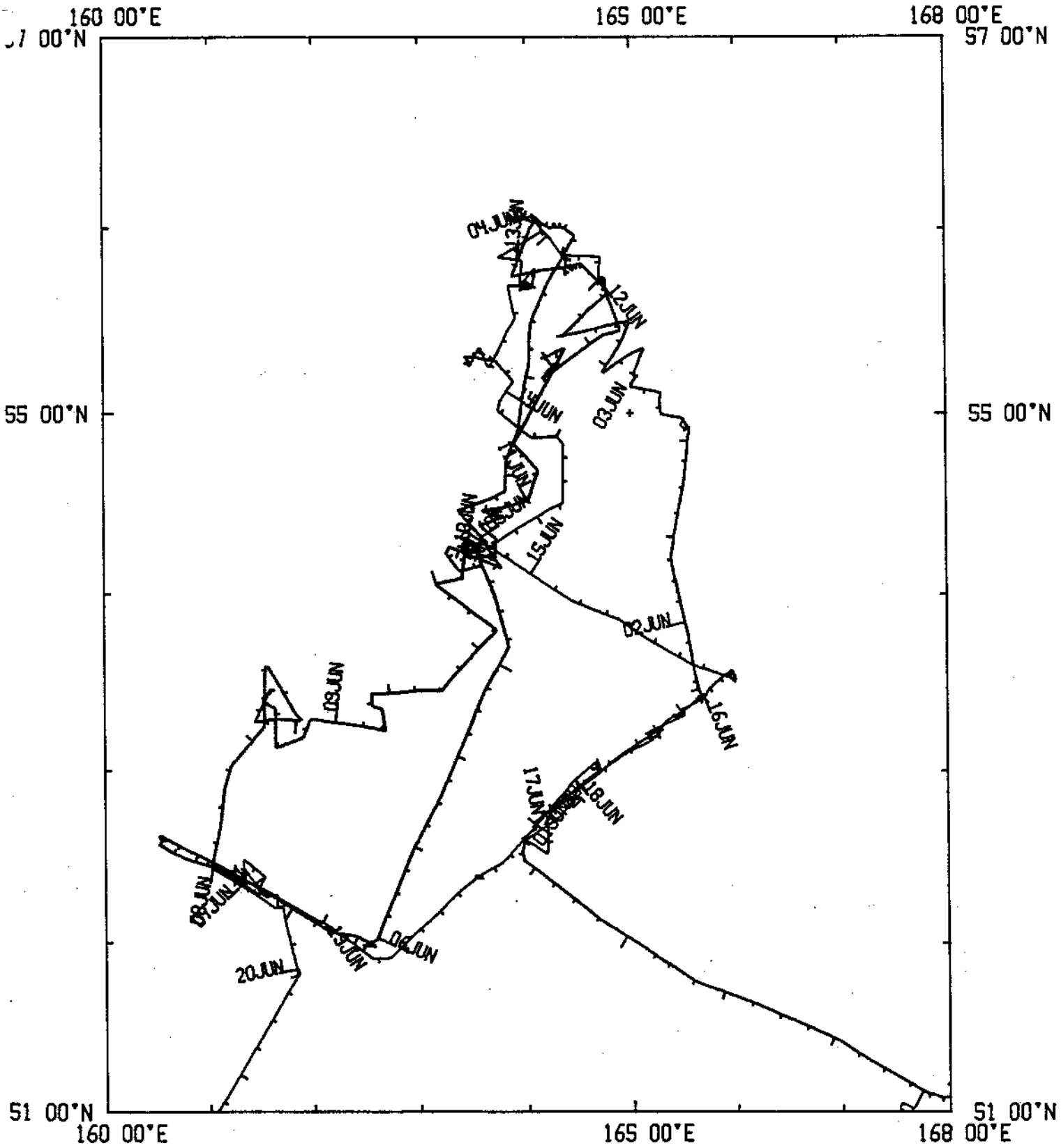
10JUN
15JUN
16JUN
17JUN
18JUN
21JUN
31MAY
30MAY
29MAY00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168 00°E
57 00°N
55 00°N
51 00°N
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03JUN
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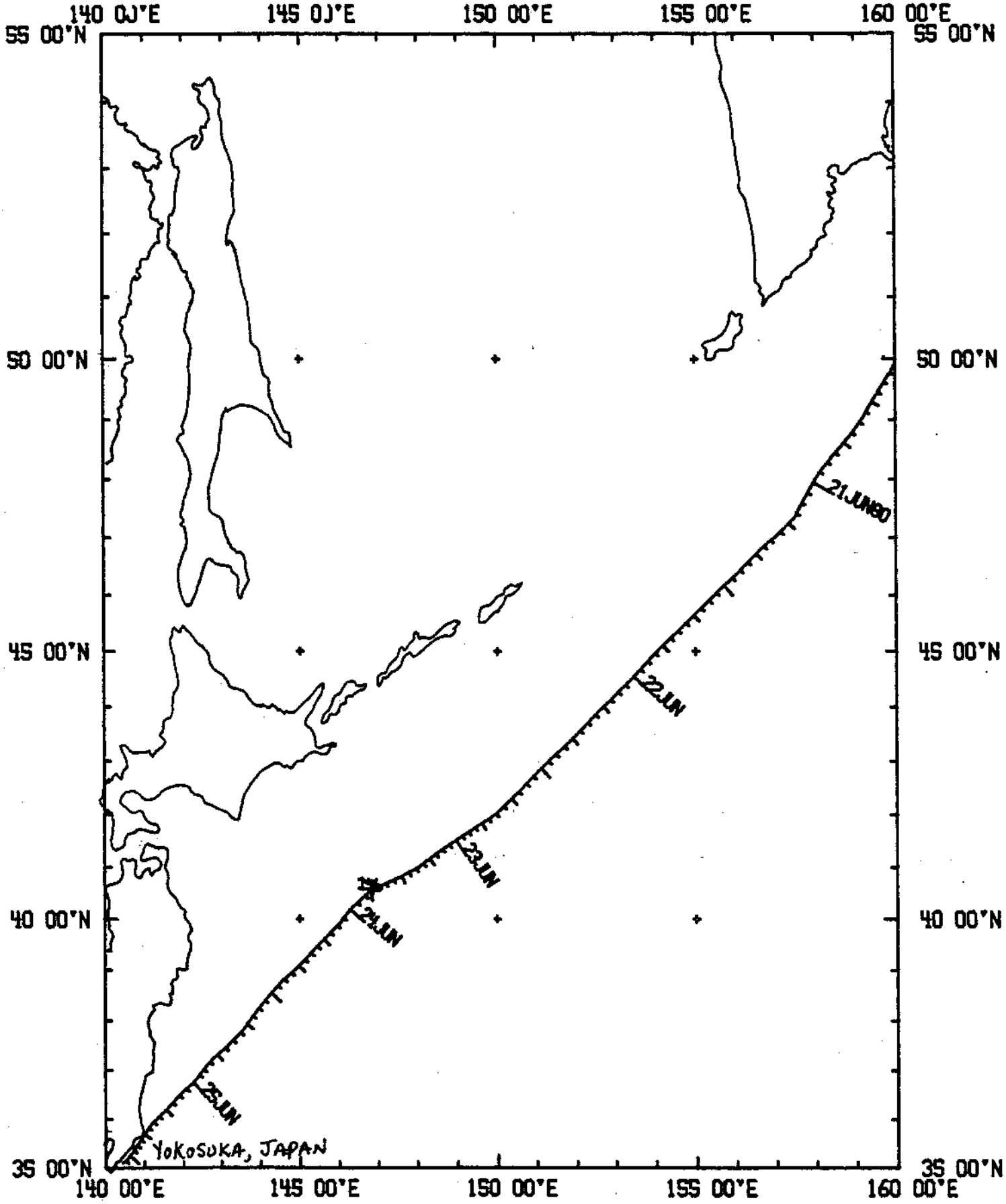
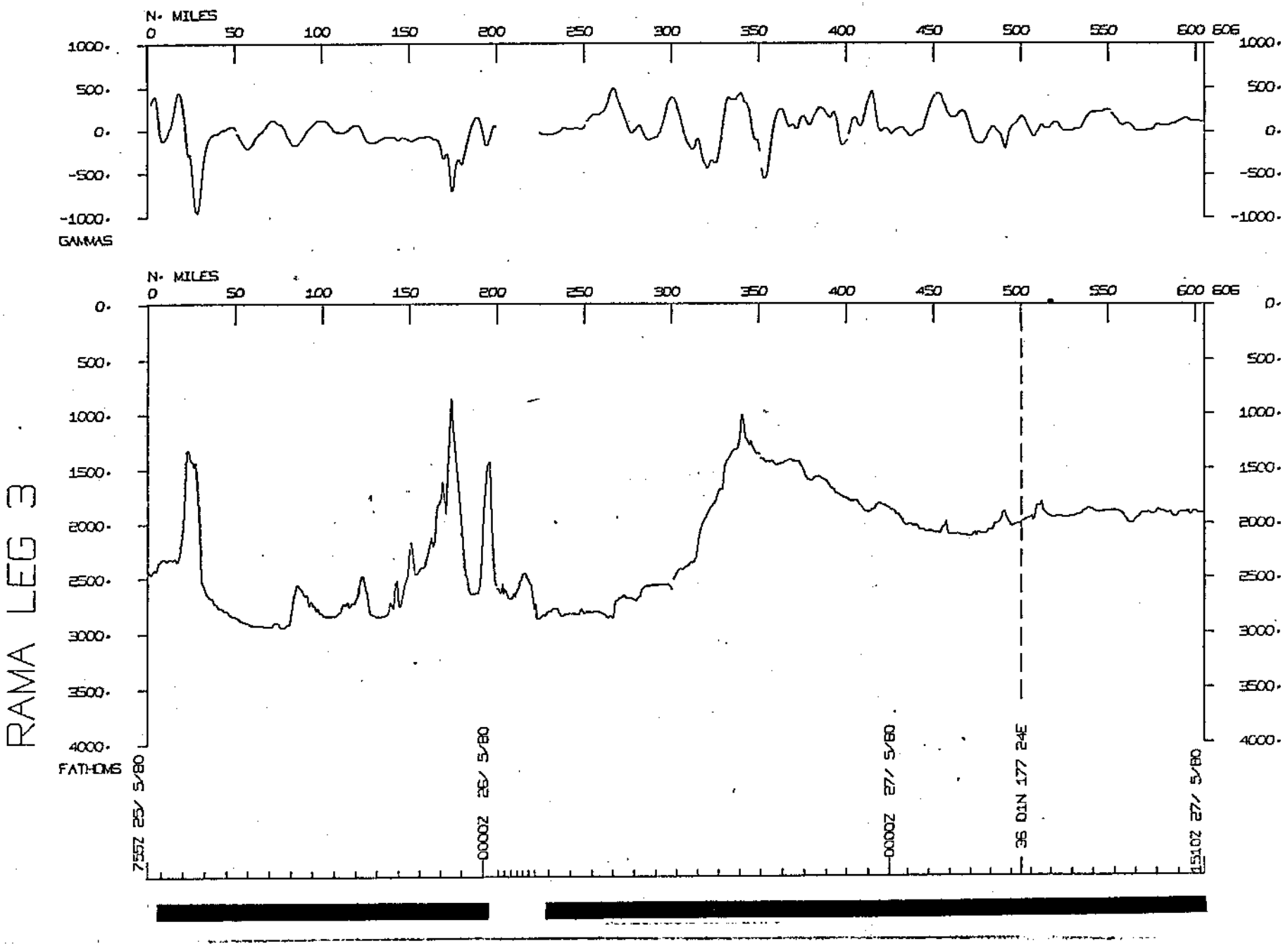
07JUN
20JUN
06JUN

RAMA03WT (3 OF 3)

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-1000.
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1500.
2000.
2500.
3000.
3500.
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00002 27/ 5/80
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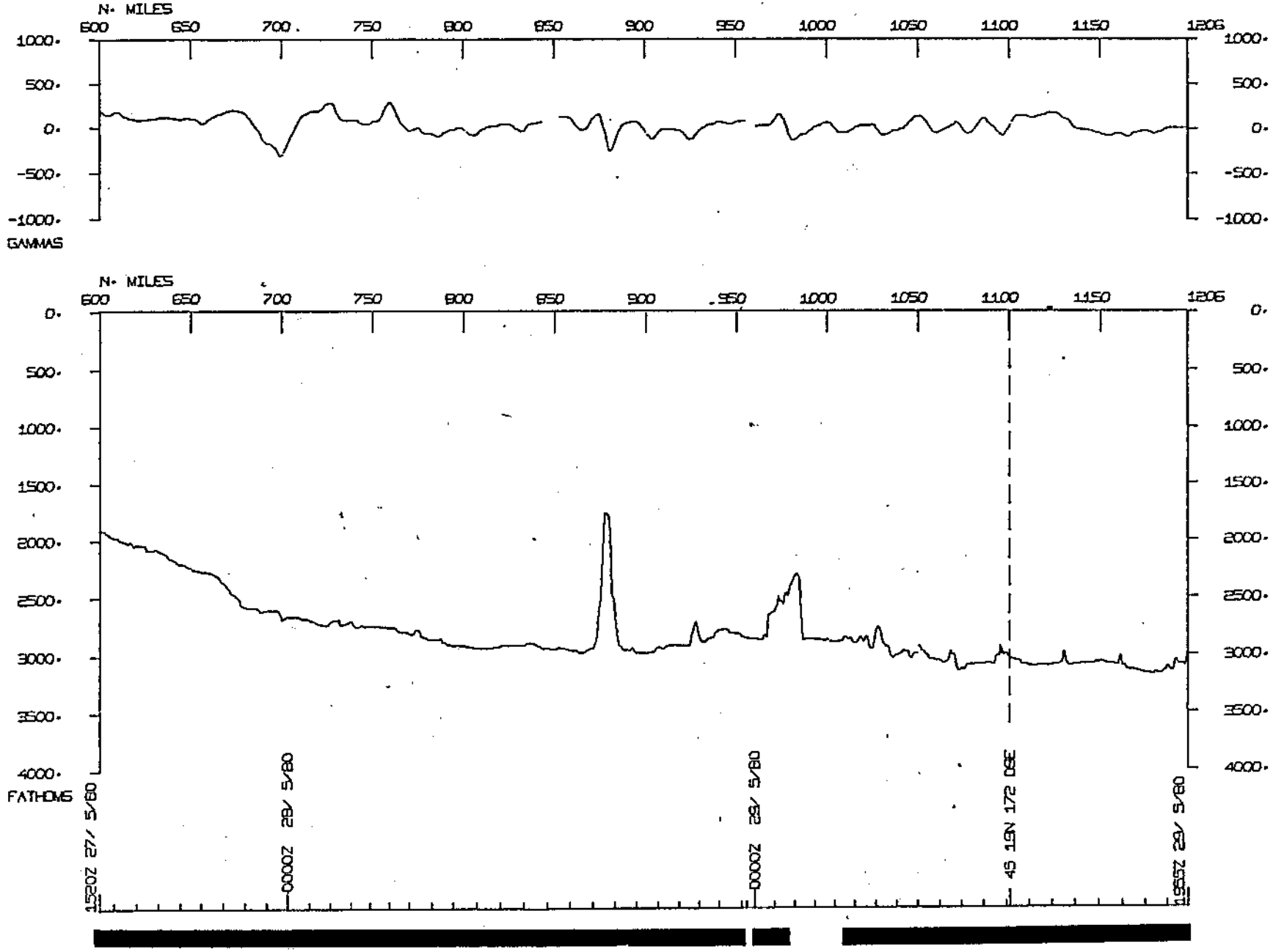
15102 27/ 5/80

RAMA LEG 3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GAMMAS
N. MILES
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0. 500. 1000. 1500. 2000. 2500. 3000. 3500. 4000.
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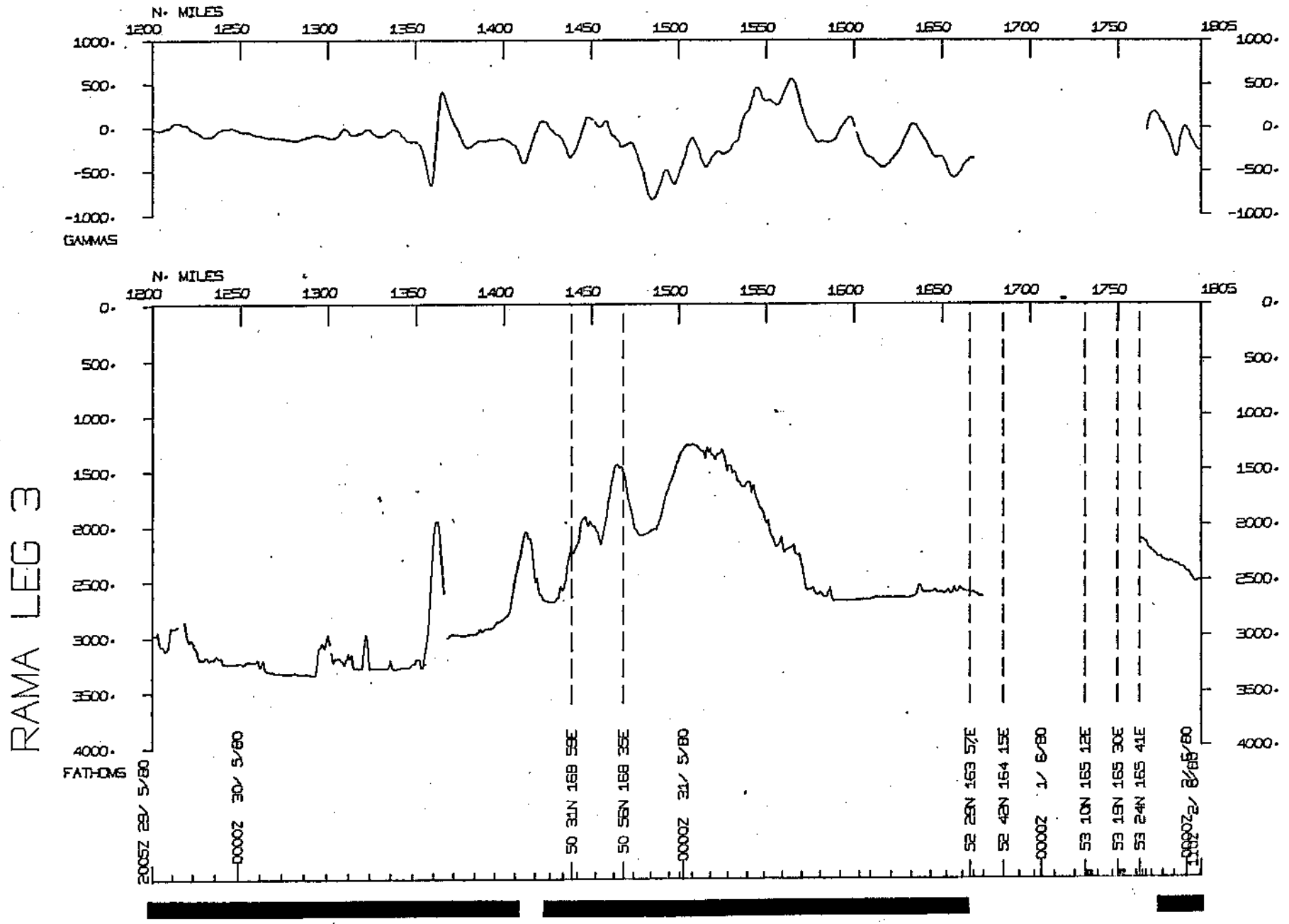
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-1000.
GAMMAS
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500.
1000.
1500.
2000.
2500.
3000.
3500.
4000.
FATHOMS
2005Z 29/ 5/80
0000Z 30/ 5/80
50 31N 168 55E
50 56N 168 35E
0000Z 31/ 5/80
52 29N 163 57E
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0000Z 1/ 6/80
53 10N 165 12E
53 19N 165 30E
53 24N 165 41E
0000Z 2/ 6/80

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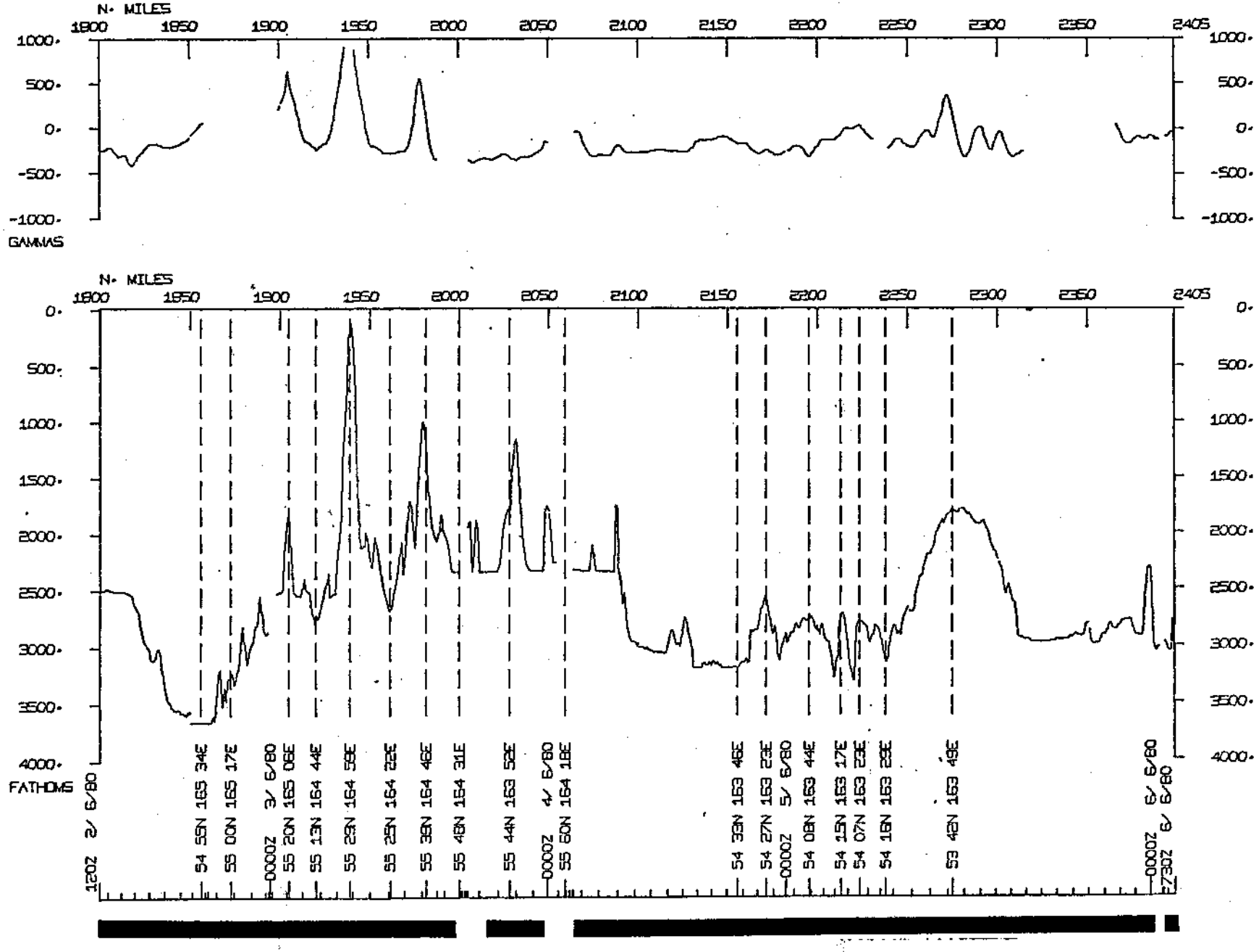
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0. 500. 1000. 1500. 2000. 2500. 3000. 3500. 4000.
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54 55N 165 34E
55 00N 165 17E
00002 3/ 6/80
55 20N 165 06E
55 13N 164 44E
55 23N 164 59E
55 25N 164 22E
55 38N 164 46E
55 48N 164 31E
55 44N 163 52E
00002 4/ 6/80
55 60N 164 18E
54 38N 163 46E
54 27N 163 23E
00002 5/ 6/80
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54 18N 163 23E
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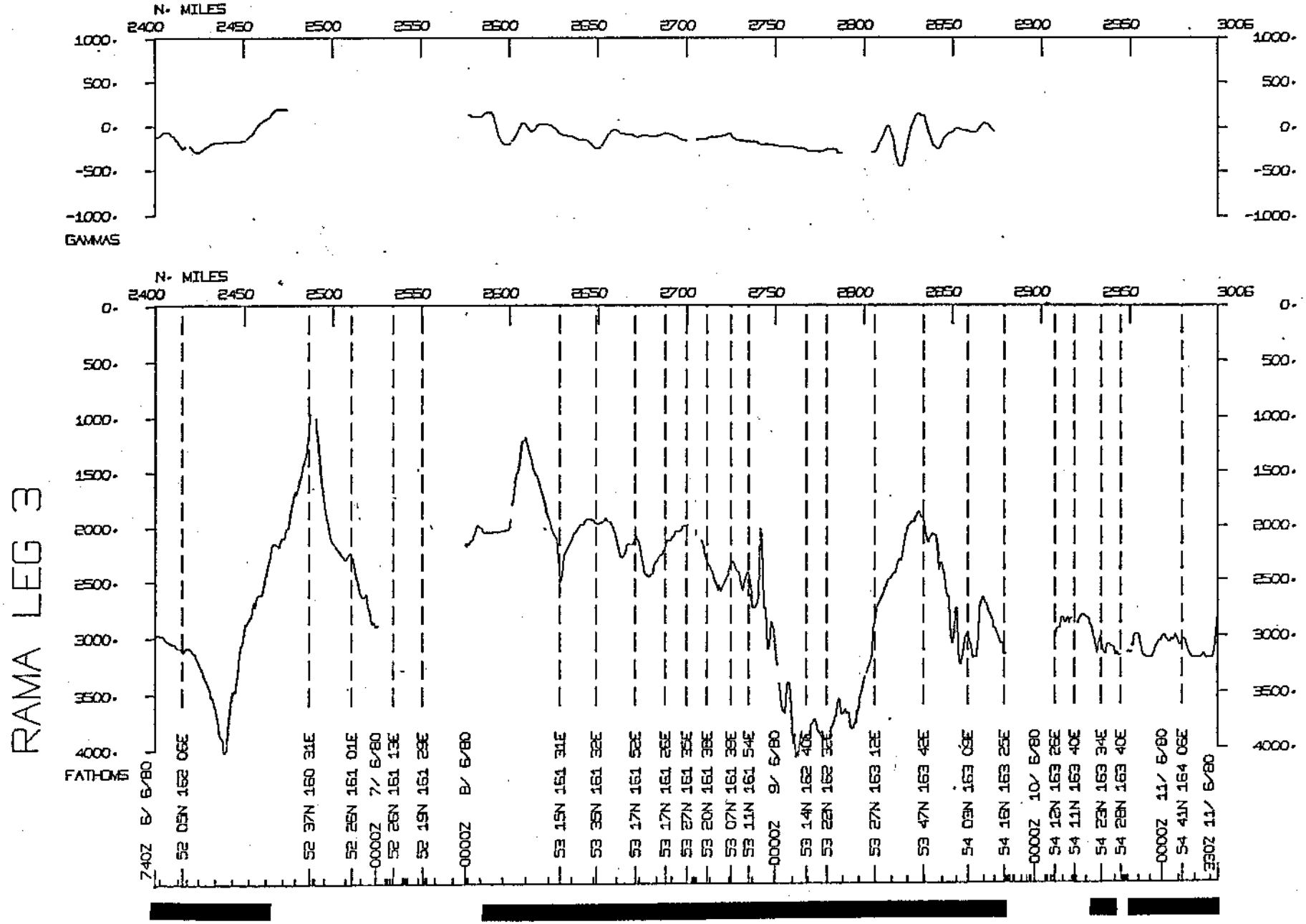
00002 6/ 6/80
27302 6/ 6/80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500.
0.
-500.
-1000.
GAMMAS
FATHOMS
0.
500.
1000.
1500.
2000.
2500.
3000.
3500.
4000.
7402 6/ 6/80
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52 37N 160 31E
52 28N 161 01E
0000Z 7/ 6/80
52 26N 161 13E
52 19N 161 29E
0000Z 8/ 6/80
53 15N 161 31E
53 35N 161 32E
53 17N 161 52E
53 17N 161 26E
53 27N 161 35E
53 20N 161 38E
53 07N 161 39E
53 11N 161 54E
0000Z 9/ 6/80
53 14N 162 40E
53 22N 162 32E
53 27N 163 12E
53 47N 163 42E
54 03N 163 08E
54 16N 163 25E
0000Z 10/ 6/80
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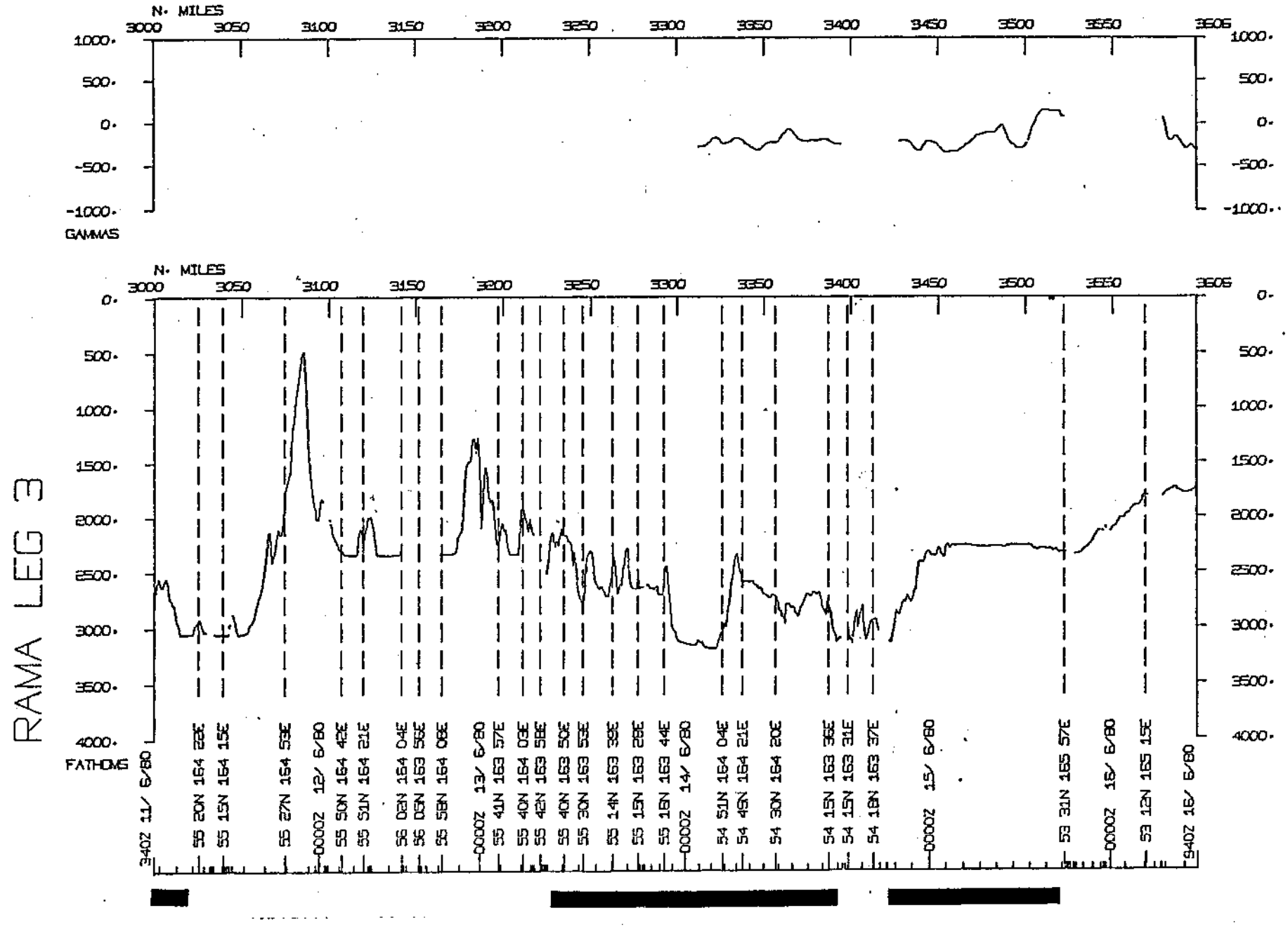
54 41N 164 06E
3302 11/ 6/80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500.
0.
-500.
-1000.
GAMMAS
N. MILES
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1000.
1500.
2000.
2500.
3000.
3500.
4000.
FATHOMS
3402 11/ 6/80
55 20N 164 22E
55 15N 164 15E
55 27N 164 53E
00002 12/ 6/80
55 50N 164 42E
55 51N 164 21E
56 02N 164 04E
56 05N 163 56E
55 58N 164 08E
00002 13/ 6/80
55 41N 163 57E
55 40N 164 03E
55 42N 163 58E
55 40N 163 50E
55 30N 163 53E
55 14N 163 38E
55 15N 163 28E
55 18N 163 44E
00002 14/ 6/80
54 51N 164 04E
54 49N 164 21E
54 30N 164 20E
54 15N 163 36E
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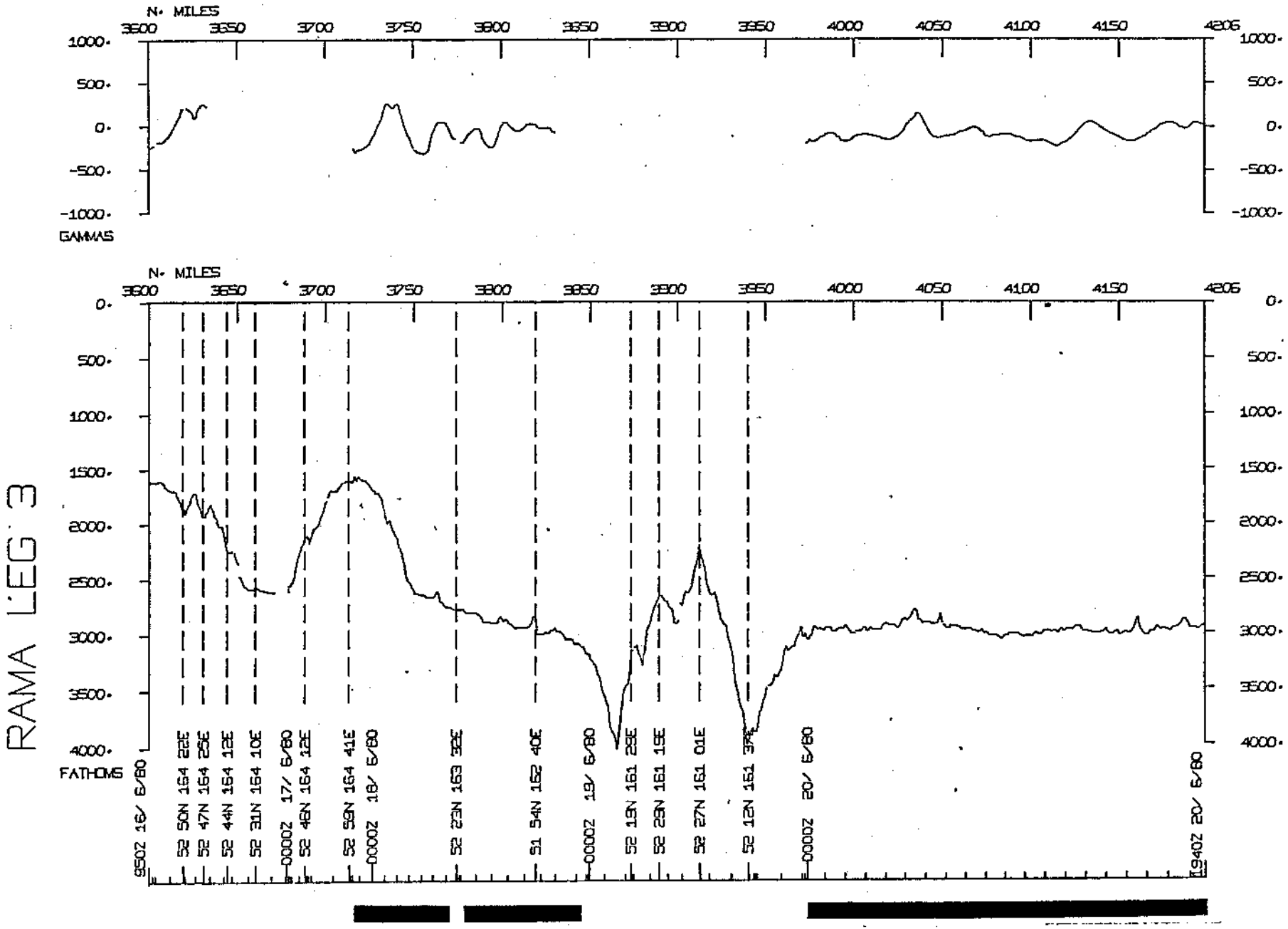
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FATHOMS
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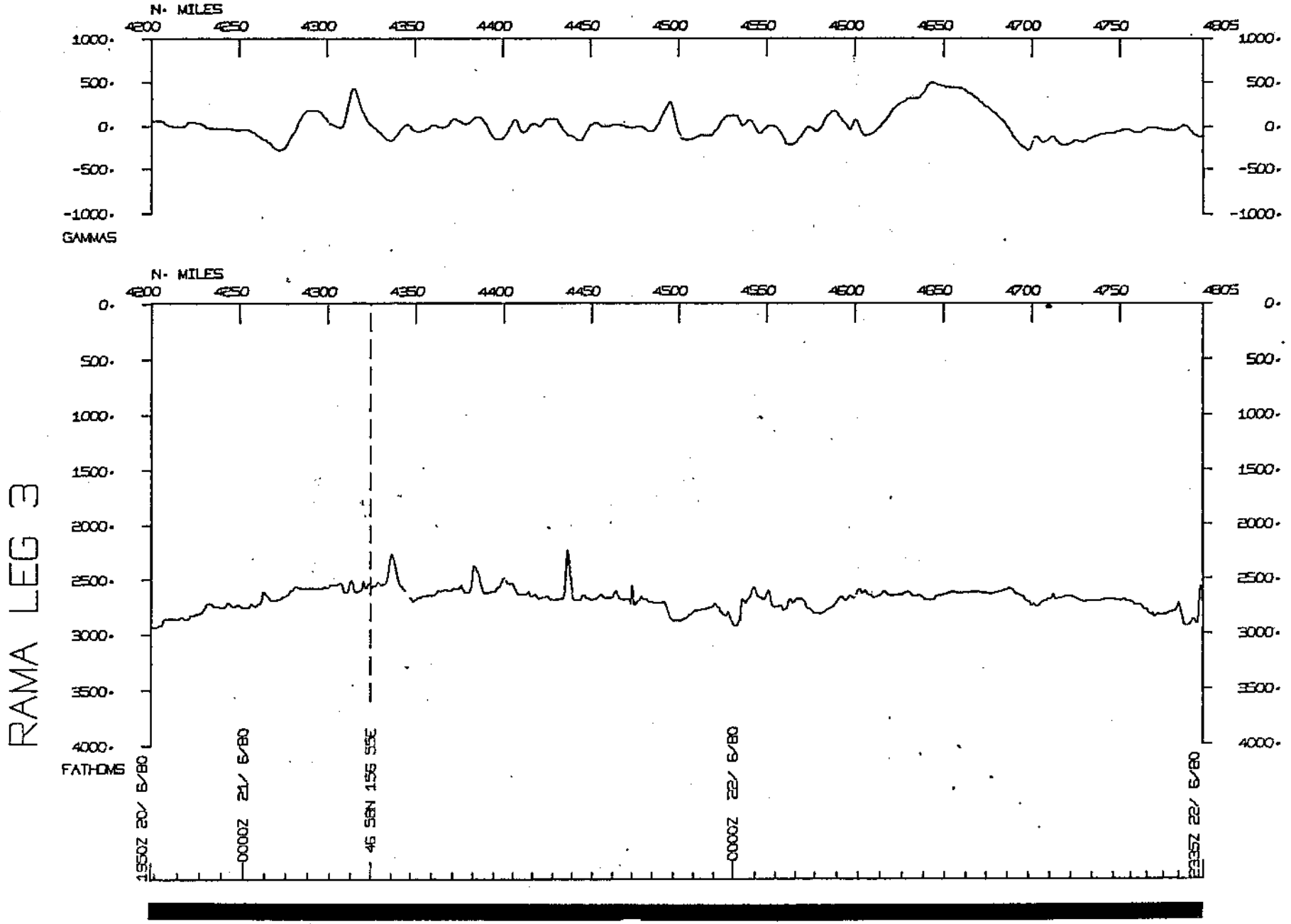
RAMA LEG 3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GAMMAS
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1500.
2000.
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3000.
3500.
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0000Z 21/ 6/80
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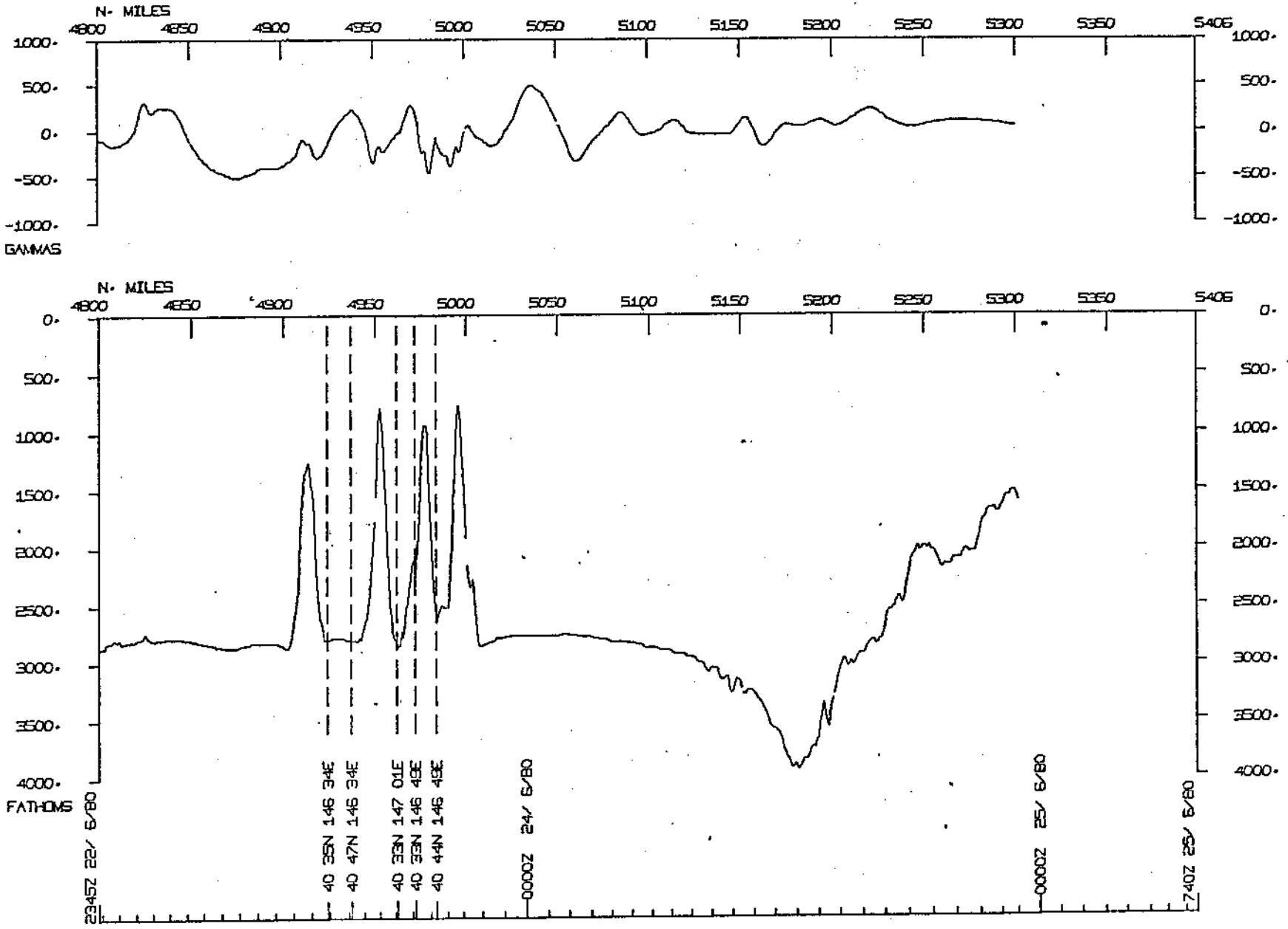
2335Z 22/ 6/80

RAMA LEG 3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-500
-1000
GAMMAS
N. MILES
0
500
1000
1500
2000
2500
3000
3500
4000
FATHOMS
2345Z 22/ 6/80
40 35N 146 34E
40 47N 146 34E
40 33N 147 01E
40 33N 146 45E
40 44N 146 45E
0000Z 24/ 6/80
0000Z 25/ 6/80
2407Z 25/ 6/80

N. MILES
5400
5460
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500.
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-1000.
GAMMAS
0.
500.
1000.
1500.
2000.
2500.
3000.
3500.
4000.
FATHOMS
7502 25/ 6/80
3352 25/ 6/80

RAMA LEG 3

S.I.O. SAMPLE INDEX

(Issued September 1980)

RAMA EXPEDITION

LEG 3

Midway Island (25 May 1980)
to
Yokosuka, Japan (25 June 1980)

R/V T. Washington

Co-Chief Scientists - E. L. Winterer (SIO)
P. F. Lonsdale (SIO)

Resident Marine Tech - R. L. Comer

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

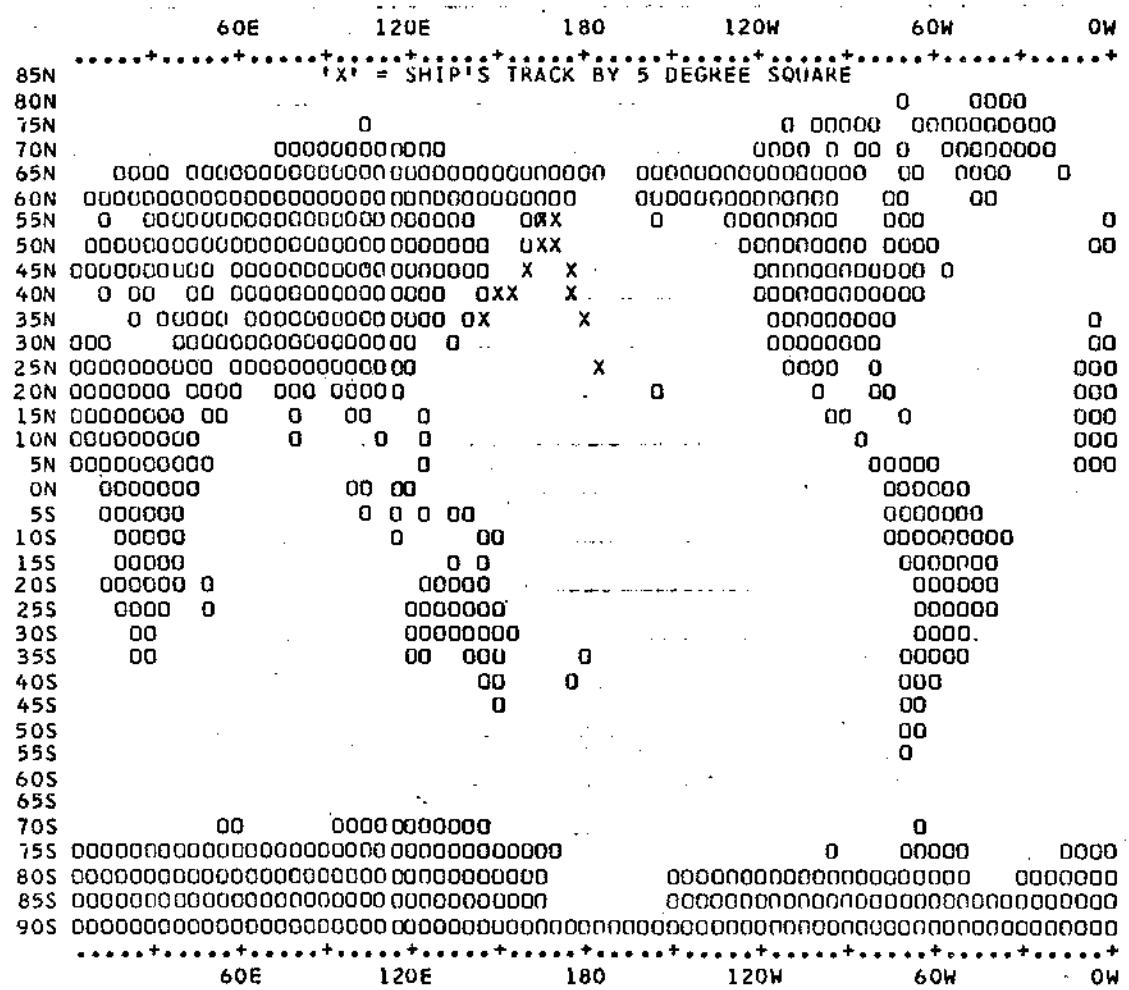
Index Encoding Funded by NSF
Grant Number OCE77-23704
Index Processing and Report Preparation
funded in part by SIA

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 20AUG80

*** RAMA LEG 3 SAMPLE INDEX (RAMA03WT) ***



25MAY80 - MIDWAY ISLAND
TO
25JUN80 - YOKOSUKA, JAPAN

CHIEF SCIENTISTS - WINTERER E.L. DR. GRD
LONSDALE P.F. DR. 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
	CA	CM	CO	DP	GC	HC	LB	MG	PE	SP	
ELW	2										2
GCR			24								24
GDC				8			1	3		18	30
GRD									8		8
MTG									1		1
ORD									1		1
PCF		12			32	29			5		78
SCG									1		1
SGG									1		1
SIX									2		2
TOTAL	2	12	24	8	32	29	1	3	19	18	148

SAMPLE 'TYPE' CODES USED ABOVE

CA = CAMERA
CM = CURRENT MEASUREMENT
CO = CORE
DP = DEPTH
GC = GEOCHEMICAL SAMPLING
HC = HYDROGRAPHIC CAST
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

ELW = EDW. L. WINTERER (EXT. 2083)
GCR = GEOLOGICAL CURATING FACILITY -- W. RIEDEL, (EXT. 4386)
GDC = GEOLOGICAL DATA CENTER -- S. SMITH (EXT. 2752)
GRD = GEOLOGICAL RESEARCH DIVISION (EXT. 3360)
MTG = MARINE TECHNOLOGY GROUP (EXT 4194)
ORD = OCEAN RESEARCH DIVISION (EXT. 2857)
PCF = PHYSICAL AND CHEMICAL DATA FACILITY (EXT. 2240)
SCG = SHIPBOARD COMPUTER GROUP (EXT. 4195)
SGG = SHIPBOARD GEOPHYSICAL GROUP--P. CRAMPTON (EXT.2079)
SIX = SCRIPPS INSTITUTION NON-EMPLOYEE - CONTACT D. UTTER (EXT.3675)

GMT TIME	D /M /Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
					RAMA LEG 3 SAMPLE INDEX				RAMA03WT
*** PORTS ***									
0400	25/ 5/80			LGPT	B MIDWAY ISLAND		28 13. N	177 23. W	F RAMA03WT
2100	25/ 6/80			LGPT	E YOKOSUKA, JAPAN		35 17. N	139 40. E	F RAMA03WT

PERSONNEL

*** NAME ***	*** TITLE ***	*** AFFILIATION ***
1 WINTERER E.L. DR.	CHIEF SCIENTIST	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
2 LONSDALE P.F. DR.	CO-CHIEF SCIENT.	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
3 CHARTERS J.S.	COMPUTER TECH.	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
4 COMER R.L.	RESIDENT TECH.	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
5 COSTELLO J.P.JR.	MARINE TECH.	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
6 GRAHAM J.B.	ELECTRONIC TECH.	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
7 HUBENKA F.	AIRGUN TECH.	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
8 MUUS D.A.	MARINE TECH.	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
9 SANCHEZ F.JR.	ELECTRONIC TECH.	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
10 WALSH T.	MARINE TECH.	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
11 MAYER L. A. DR.	SCIENTIST	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
12 STALLARD M. DR.	STAFF RES. ASSOC.	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
13 TENNY C.L.	VOLUNTEER	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
14 BALTUCK M.	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
15 GRUNDER A.	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
16 MAHONEY J.J.	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
17 REED D.L.	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
18 STONE W.A.	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093
19 STOUT P.M.	STUDENT	SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA CAL. 92093

NOTES AN 'X' IN THE (B)EGIN/(E)ND COLUMN FOLLOWING THE SAMPLE CODE INDICATES NO SAMPLE OR DATA RECOVERED .
A 'C' INDICATES CONTINUATION OF DATA COLLECTION FROM BEFORE THE BEGINNING OR AFTER THE END OF THIS LEG. (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	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 ***

0730	25/ 5/80			LBUW	B UNDERWAY LOG P.1-182	GDC	28 43.6N	177 54.0W	S RAMA03WT
2310	24/ 6/80			LBUW	E UNDERWAY LOG P.1-182	GDC	36 52.7N	142 23.6E	S RAMA03WT

*** PATHOGRAMS ***

0730	25/ 5/80			DPR3	B 3.5 KHZ ROLL 01	GDC	28 43.6N	177 54.0W	S RAMA03WT
2104	29/ 5/80			DPR3	E 3.5 KHZ ROLL 01	GDC	47 03.0N	171 09.6E	S RAMA03WT
2131	29/ 5/80			DPR3	B 3.5 KHZ ROLL 02	GDC	47 08.4N	171 07.0E	S RAMA03WT
2309	4/ 6/80			DPR3	E 3.5 KHZ ROLL 02	GDC	54 23.0N	163 29.3E	S RAMA03WT
2327	4/ 6/80			DPR3	B 3.5 KHZ ROLL 03	GDC	54 20.8N	163 32.7E	S RAMA03WT
1933	9/ 6/80			DPR3	E 3.5 KHZ ROLL 03	GDC	54 12.4N	163 25.5E	S RAMA03WT
1953	9/ 6/80			DPR3	B 3.5 KHZ ROLL 04	GDC	54 15.0N	163 26.4E	S RAMA03WT
2009	13/ 6/80			DPR3	E 3.5 KHZ ROLL 04	GDC	55 17.5N	163 27.5E	S RAMA03WT
2037	13/ 6/80			DPR3	B 3.5 KHZ ROLL 05	GDC	55 18.2N	163 26.6E	S RAMA03WT
1925	17/ 6/80			DPR3	E 3.5 KHZ ROLL 05	GDC	53 00.4N	164 39.9E	S RAMA03WT
1948	17/ 6/80			DPR3	B 3.5 KHZ ROLL 06	GDC	53 00.6N	164 39.5E	S RAMA03WT
0727	21/ 6/80			DPR3	E 3.5 KHZ ROLL 06	GDC	46 47.5N	156 38.3E	S RAMA03WT
0755	21/ 6/80			DPR3	B 3.5 KHZ ROLL 07	GDC	46 43.6N	156 32.8E	S RAMA03WT
1845	23/ 6/80			DPR3	E 3.5 KHZ ROLL 07	GDC	40 39.5N	146 49.0E	S RAMA03WT
1906	23/ 6/80			DPR3	B 3.5 KHZ ROLL 08	GDC	40 43.0N	146 49.0E	S RAMA03WT
2310	24/ 6/80			DPR3	E 3.5 KHZ ROLL 08	GDC	36 52.7N	142 23.6E	S RAMA03WT

*** MAGNETOMETER ***

0824	25/ 5/80			MGRA	B MAGNETICS ROLL 01	GDC	28 46.1N	177 55.7W	S RAMA03WT
0542	31/ 5/80			MGRA	E MAGNETICS ROLL 01	GDC	51 33.5N	166 29.3E	S RAMA03WT
0552	31/ 5/80			MGRA	B MAGNETICS ROLL 02	GDC	51 34.2N	166 26.7E	S RAMA03WT
2225	23/ 6/80			MGRA	E MAGNETICS ROLL 02	GDC	40 24.0N	146 34.6E	S RAMA03WT
2236	23/ 6/80			MGRA	B MAGNETICS ROLL 03	GDC	40 22.5N	146 32.5E	S RAMA03WT
2244	24/ 6/80			MGRA	E MAGNETICS ROLL 03	GDC	36 54.8N	142 25.4E	S RAMA03WT

GMT TIME	D /M /Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.	CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
*** SEISMIC REFLECTION PROFILES ***									
0851	25/ 5/80			SPRS	B AIRGUN 10SEC ROLL 01	GDC	28 49.5N	177 57.9W	S RAMA03WT
1610	06/ 6/80			SPRS	E AIRGUN 10SEC ROLL 01	GD	52 31.8N	160 49.9E	S RAMA03WT
0427	08/06/80			SPRS	B AIRGUN 10SEC ROLL 02	GDC	52 28.6N	161 01.9E	S RAMA03WT
1024	22/ 6/80			SPRS	E AIRGUN 10SEC ROLL 02	GDC	43 04.9N	151 24.9E	S RAMA03WT
1045	22/ 6/80			SPRS	B AIRGUN 10SEC ROLL 03	GDC	43 02.1N	151 20.8E	S RAMA03WT
2240	24/ 6/80			SPRS	E AIRGUN 10SEC ROLL 03	GDC	36 55.4N	142 26.0E	S RAMA03WT
0851	25/ 5/80			SPRS	B AIRGUN 05SEC ROLL 01	GDC	28 49.5N	177 57.9W	S RAMA03WT
0532	31/ 5/80			SPRS	E AIRGUN 05SEC ROLL 01	GDC	51 32.8N	166 31.9E	S RAMA03WT
0541	31/ 5/80			SPRS	B AIRGUN 05SEC ROLL 02	GDC	51 33.4N	166 29.6E	S RAMA03WT
2240	24/ 6/80			SPRS	E AIRGUN 05SEC ROLL 02	GDC	36 55.4N	142 26.0E	S RAMA03WT
*** SEISMIC REFLECTION LINE, DIGITAL, SINGLE CHANNEL ***									
NOTE: There is no Single Channel Seismic Line 03									
0314	27/ 5/80			SPSL	B SINGLE CHAN SEISMIC	GDC	35 26.7N	177 43.4E	S RAMA03WT
2104	28/ 5/80			SPSL	E TAPES 1-7 LINE 01	GDC	43 05.4N	173 30.2E	S RAMA03WT
2340	28/ 5/80			SPSL	B SINGLE CHAN SEISMIC	GDC	43 07.7N	173 28.6E	S RAMA03WT
1743	31/ 5/80			SPSL	E TAPES 1-9 LINE 02	GDC	52 35.7N	163 58.3E	S RAMA03WT
2148	1/ 6/80			SPSL	B SINGLE CHAN SEISMIC	GDC	53 35.6N	165 36.1E	S RAMA03WT
0131	3/ 6/80			SPSL	E TAPES 1-2 LINE 04	GDC	55 16.5N	165 04.6E	S RAMA03WT
1928	3/ 6/80			SPSL	B SINGLE CHAN SEISMIC	GDC	55 47.4N	164 26.7E	S RAMA03WT
2355	3/ 6/80			SPSL	E TAPES 1 LINE 05	GDC	56 03.3N	164 04.7E	S RAMA03WT
1040	4/ 6/80			SPSL	B SINGLE CHAN SEISMIC	GDC	55 58.4N	164 26.3E	S RAMA03WT
1730	6/ 6/80			SPSL	E TAPES 1-6 LINE 06	GDC	52 36.3N	160 35.9E	S RAMA03WT
0427	8/ 6/80			SPSL	B SINGLE CHAN SEISMIC	GDC	52 28.7N	161 02.0E	S RAMA03WT
1338	9/ 6/80			SPSL	E TAPES 1-4 LINE 07	GDC	54 10.3N	163 25.4E	S RAMA03WT
0732	10/ 6/80			SPSL	B SINGLE CHAN SEISMIC	GDC	54 12.0N	163 28.9E	S RAMA03WT
0642	11/ 6/80			SPSL	E TAPES 1-2 LINE 08	GDC	55 20.4N	164 19.5E	S RAMA03WT
0535	12/ 6/80			SPSL	B SINGLE CHAN SEISMIC	GDC	55 44.6N	164 42.2E	S RAMA03WT
0740	12/ 6/80			SPSL	E TAPES 1 LINE 09	GDC	55 51.2N	164 23.1E	S RAMA03WT
1110	13/ 6/80			SPSL	B SINGLE CHAN SEISMIC	GDC	55 40.3N	163 58.9E	S RAMA03WT
1659	13/ 6/80			SPSL	E TAPES 1 LINE 10	GDC	55 15.8N	163 28.4E	S RAMA03WT
2043	13/ 6/80			SPSL	B SINGLE CHAN SEISMIC	GDC	55 18.3N	163 27.7E	S RAMA03WT
1113	14/ 6/80			SPSL	E TAPES 1-3 LINE 11	GDC	54 18.0N	163 27.4E	S RAMA03WT
2146	14/ 6/80			SPSL	B SINGLE CHAN SEISMIC	GDC	54 16.8N	163 30.7E	S RAMA03WT
0510	15/ 6/80			SPSL	E TAPES 1-2 LINE 12	GDC	53 42.5N	165 15.4E	S RAMA03WT
2318	17/ 6/80			SPSL	B SINGLE CHAN SEISMIC	GDC	52 59.9N	164 33.1E	S RAMA03WT
0647	18/ 6/80			SPSL	E TAPES 1-2 LINE 13	GDC	52 23.7N	163 34.1E	S RAMA03WT

GMT TIME	D /M /Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.		CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
1206	18/ 6/80			SPSL B	SINGLE CHAN SEISMIC		GDC	52 22.8N	163 31.5E	S RAMA03WT
1756	18/ 6/80			SPSL E	TAPES 1 LINE 14		GDC	51 57.6N	162 25.8E	S RAMA03WT
0000	20/ 6/80			SPSL B	SINGLE CHAN SEISMIC		GDC	51 50.6N	161 50.3E	S RAMA03WT
2359	24/ 6/80			SPSL E	TAPES 1-12 LINE 15		GDC	36 45.8N	142 15.5E	S RAMA03WT
*** CORES ***										
1320	1/ 6/80			COBX X	BOX CORE 27BX	0000M	GCR	53 19.6N	165 29.0E	S RAMA03WT
0704	04/06/80			COBX	BOX CORE 28BX	4357M	GCR	55 59.9N	164 20.9E	F RAMA03WT
0300	07/06/80			COBX	BOX CORE 30BX	4939M	GCR	52 25.1N	161 14.5E	F RAMA03WT
1220	14/06/80			COBX	BOX CORE 37BX	0000M	GCR	54 16.1N	163 29.6E	F RAMA03WT
1059	15/06/80			COBX	BOX CORE 38BX	0000M	GCR	53 38.1N	165 58.6R	F RAMA03WT
1124	17/06/80			COBX	BOX CORE 43BX	3949M	GCR	52 46.8N	164 12.7E	F RAMA03WT
0728	01/06/80			COPS	PISTON CO. 26P	3280M	GCR	53 11.9N	165 10.0E	F RAMA03WT
1207	02/06/80			COPS	PISTON CO. 28P	6966M	GCR	54 55.1N	165 32.4E	F RAMA03WT
1758	08/06/80			COPS	PISTON CO. 31P	3703M	GCR	53 25.2N	161 32.2E	F RAMA03WT
1552	11/06/80			COPS	PISTON CO. 33P	5728M	GCR	55 13.6N	164 12.1E	F RAMA03WT
2029	17/06/80			COPS	PISTON CO. 44P	3019M	GCR	53 00.7N	164 38.9E	F RAMA03WT
0728	01/06/80			COPG	GRAVITY CO 26G	3280M	GCR	53 11.9N	165 10.0E	F RAMA03WT
1207	02/06/80			COPG	GRAVITY CO 28G	6966M	GCR	54 55.1N	165 32.4E	F RAMA03WT
1758	08/06/80			COPG	GRAVITY CO 31G	3703M	GCR	53 25.2N	161 32.2E	F RAMA03WT
1552	11/06/80			COPG	GRAVITY CO 33G	5728M	GCR	55 13.6N	164 12.1E	F RAMA03WT
2029	17/06/80			COPG	GRAVITY CO 44G	3019M	GCR	53 00.7N	164 38.9E	F RAMA03WT
1020	10/06/80			COGV	KING KONG 32G	5324M	GCR	54 11.7N	163 39.3E	F RAMA03WT
0940	12/06/80			COGV	KING KONG 34G	3862M	GCR	55 50.6N	164 22.6E	F RAMA03WT
0344	13/06/80			COGV	KING KONG 35G	3910M	GCR	55 42.3N	164 00.3E	F RAMA03WT
1843	13/06/80			COGV	KING KONG 36G	4934M	GCR	55 17.1N	163 28.2E	F RAMA03WT
2242	15/06/80			COGV	KING KONG 39G	3930M	GCR	53 24.5N	165 40.9E	F RAMA03WT
1109	16/06/80			COGV	KING KONG 40G	2989M	GCR	52 59.4N	164 41.6E	F RAMA03WT
1504	16/06/80			COGV	KING KONG 41G	3464M	GCR	52 49.7N	164 22.7E	F RAMA03WT
0516	17/06/80			COGV	KING KONG 42G	4764M	GCR	52 40.6N	164 04.3E	F RAMA03WT
2145	19/06/80			COGV	KING KONG 45G	5625M	GCR	51 48.9N	161 50.9E	F RAMA03WT
*** CAMERA ***										
1240	07/06/80			CAWS B	STERO CAM 01	5124M	ELW	52 22.9N	161 19.1E	F RAMA03WT
1330	07/06/80			CAWS E	STERO CAM 01	5124M	ELW	52 22.9N	161 19.1E	F RAMA03WT
2250	09/06/80			CAWS B	STERO CAM 02	5802M	ELW	54 15.2N	163 25.1E	F RAMA03WT
2330	09/06/80			CAWS X	NOT RECOVERED	5802M	ELW	54 15.2N	163 25.1E	F RAMA03WT
HYDROGRAPHIC CAST										
2212	28/ 5/80			HCNI	TSON 01 SHAKEDOWN		PCF	43 6.2N	173 28.7E	F RAMA03WT
2326	31/ 5/80			HCNI	TSON 02H 134M	05	PCF	52 58.1N	164 37.4E	F RAMA03WT
1617	1/ 6/80			HCNI	TSON 03 LOST		PCF	53 20.6N	165 28.5E	F RAMA03WT
2122	2/ 6/80			HCNI	TSON 04H 5477M	16	PCF	55 12.1N	165 03.5E	S RAMA03WT
1450	3/ 6/80			HCNI	TSON 05H 2525M	07	PCF	55 48.0N	164 29.0E	S RAMA03WT
0252	4/ 6/80			HCNI	TSON 06H 1238M	13	PCF	55 60.0N	164 18.0E	S RAMA03WT
0927	4/ 6/80			HCNI	TSON 06H 4424M	13	PCF	55 59.5N	164 23.5E	S RAMA03WT
0258	6/ 6/80			HCNI	TSON 07H 5661M	16	PCF	51 58.3N	162 28.1E	S RAMA03WT

GMT TIME	D /M /Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.			CODE DISP	LAT.	LONG.	LEG-SHIP CRUISE
1941	6/ 6/80			HCNI	TSON	08H	1483M 14	PCF	52 34.9N	160 32.0E S	RAMA03WT
0709	7/ 6/80			HCNI	TSON	09H	5055M 16	PCF	52 25.8N	161 14.8E S	RAMA03WT
1807	7/ 6/80			HCNI	TSON	10H	6076M 16	PCF	52 18.6N	161 28.9E S	RAMA03WT
0139	8/ 6/80			HCNI	TSON	11H	4113M 16	PCF	52 27.5N	161 01.6E S	RAMA03WT
1744	9/ 6/80			HCNI	TSON	12H	3187M 15	PCF	54 13.8N	163 25.3E S	RAMA03WT
0256	10/ 6/80			HCNI	TSON	13H	5810M 16	PCF	54 16.3N	163 24.5E S	RAMA03WT
1728	10/ 6/80			HCNI	TSON	14H	6078M 16	PCF	54 27.5N	163 42.3E S	RAMA03WT
0901	11/ 6/80			HCNI	TSON	15H	5836M 16	PCF	55 18.7N	164 11.3E S	RAMA03WT
2301	11/ 6/80			HCNI	TSON	16H	1489M 14	PCF	55 43.7N	164 45.1E S	RAMA03WT
0243	12/ 6/80			HCNI	TSON	16H	3837M 17	PCF	55 43.1N	164 42.8E S	RAMA03WT
1435	12/ 6/80			HCNI	TSON	17H	3794M 16	PCF	56 02.9N	164 05.4E S	RAMA03WT
1848	12/ 6/80			HCNI	TSON	18H	1483M 14	PCF	56 04.9N	163 55.6E S	RAMA03WT
0747	13/ 6/80			HCNI	TSON	19H	3858M 17	PCF	55 41.4N	163 57.2E S	RAMA03WT
1816	14/ 6/80			HCNI	TSON	20H	1486M 15	PCF	54 16.1N	163 34.1E S	RAMA03WT
1422	15/ 6/80			HCNI	TSON	21H	4419M 17	PCF	53 33.3N	165 58.6E S	RAMA03WT
0533	16/ 6/80			HCNI	TSON	22H	3500M 17	PCF	53 14.5N	165 16.3E S	RAMA03WT
0031	17/ 6/80			HCNI	TSON	23H	1400M 16	PCF	52 39.7N	164 04.0E S	RAMA03WT
0730	17/ 6/80			HCNI	TSON	23H	4857M 17	PCF	52 41.6N	164 03.5E S	RAMA03WT
1419	17/ 6/80			HCNI	TSON	24H	3989M 17	PCF	52 46.1N	164 12.3E S	RAMA03WT
0842	18/ 6/80			HCNI	TSON	25H	5298M 17	PCF	52 23.4N	163 31.6E S	RAMA03WT
2124	18/ 6/80			HCNI	TSON	26H	6146M 17	PCF	52 07.1N	162 04.0E S	RAMA03WT
0322	19/ 6/80			HCNI	TSON	27H	2591M 17	PCF	52 19.4N	161 27.9E S	RAMA03WT
1412	19/ 6/80			HCNI	TSON	28H	6043M 17	PCF	52 12.3N	161 41.7E S	RAMA03WT

CURRENT MEASUREMENT

1753	31/05/80			CMAB	B	MISSION	01	4937M	PCF	52 35.8N	163 57.0E F RAMA03WT
2222	16/06/80			CMAB	E	MISSION	01	4937M	PCF	52 35.8N	163 57.0E F RAMA03WT
1905	31/05/80			CMAB	B	MISSION	02	4412M	PCF	52 42.1N	164 11.1E F RAMA03WT
2015	16/06/80			CMAB	E	MISSION	02	4412M	PCF	52 42.1N	164 11.1E F RAMA03WT
2010	31/05/80			CMAB	B	MISSION	03	3478M	PCF	52 48.9N	164 25.6E F RAMA03WT
1820	16/06/80			CMAB	E	MISSION	03	3478M	PCF	52 48.9N	164 25.6E F RAMA03WT
0456	01/06/80			CMAB	B	MISSION	04	3323M	PCF	53 11.4N	165 13.3E F RAMA03WT
0229	16/06/80			CMAB	E	MISSION	04	3323M	PCF	53 11.4N	165 13.3E F RAMA03WT
1850	01/06/80			CMAB	B	MISSION	05	3949M	PCF	53 25.2N	165 41.0E F RAMA03WT
0005	16/06/80			CMAB	E	MISSION	05	3949M	PCF	53 25.2N	165 41.0E F RAMA03WT
1146	03/06/80			CMAB	B	MISSION	06	3484M	PCF	55 41.8N	164 47.2E F RAMA03WT
0008	12/06/80			CMAB	E	MISSION	06	3484M	PCF	55 41.8N	164 47.2E F RAMA03WT
0040	04/06/80			CMAB	B	MISSION	07	4367M	PCF	56 02.7N	164 05.1E F RAMA03WT
2034	12/06/80			CMAB	E	MISSION	07	4367M	PCF	56 02.7N	164 05.1E F RAMA03WT
0027	05/06/80			CMAB	B	MISSION	08	5552M	PCF	54 18.3N	163 35.0E F RAMA03WT
1635	14/06/80			CMAB	E	MISSION	08	5552M	PCF	54 18.3N	163 35.0E F RAMA03WT
0728	05/06/80			CMAB	B	MISSION	09	5750M	PCF	54 16.7N	163 30.5E F RAMA03WT
1936	14/06/80			CMAB	X	LOST	09	5750M	PCF	54 16.7N	163 30.5E F RAMA03WT

GMT TIME	D /M /Y DATE	LOC TIME	LOC TZ	CODE SAMP	SAMPLE IDENT.		CODE DISP	LAT.	LONG.		LEG-SHIP CRUISE
1002	06/06/80			CMAB B	MISSION 10	5700M	PCF	52 04.2N	162 09.8E	F	RAMA03WT
1915	18/06/80			CMAB E	MISSION 10	5700M	PCF	52 04.2N	162 09.8E	F	RAMA03WT
2230	06/06/80			CMAB B	MISSION 11	4250M	PCF	52 25.7N	161 01.5E	F	RAMA03WT
0935	19/06/80			CMAB E	MISSION 11	4250M	PCF	52 25.7N	161 01.5E	F	RAMA03WT
2352	06/06/80			CMAB B	MISSION 12	5450M	PCF	52 19.2N	161 20.8E	F	RAMA03WT
0726	19/06/80			CMAB E	MISSION 12	5450M	PCF	52 19.2N	161 20.8E	F	RAMA03WT
GEOCHEMICAL SAMPLE											
2212	28/ 5/80			GCTD	01H	750M	R23	PCF 43 06.2N	173 28.7E	S	RAMA03WT
2258	31/ 5/80			GCTD	02	3045M	R21	PCF 52 58.0N	164 37.4E	S	RAMA03WT
1617	1/ 6/80			GCTD	03	0000M	R00	PCF 53 20.6N	165 28.4E	S	RAMA03WT
2150	2/ 6/80			GCTD	04	5466M		PCF 55 12.3N	165 03.3E	S	RAMA03WT
1516	3/ 6/80			GCTD	05	3289M		PCF 55 48.0N	164 28.9E	S	RAMA03WT
0315	4/ 6/80			GCTD	06H1	4441M		PCF 56 00.1N	164 17.6E	S	RAMA03WT
0934	4/ 6/80			GCTD	06H3	1229M		PCF 55 59.5N	164 23.7E	S	RAMA03WT
0328	6/ 6/80			GCTD	07H	5672M		PCF 51 58.5N	162 28.1E	S	RAMA03WT
1952	6/ 6/80			GCTD	08H	1477M		PCF 52 34.8N	160 31.9E	S	RAMA03WT
0735	7/ 6/80			GCTD	09H	5066M		PCF 52 25.8N	161 14.9E	S	RAMA03WT
1840	7/ 6/80			GCTD	10H	6123M		PCF 52 18.4N	161 28.8E	S	RAMA03WT
0159	8/ 6/80			GCTD	11H	4119M		PCF 52 27.5N	161 01.7E	S	RAMA03WT
1804	9/ 6/80			GCTD	12H	0000M		PCF 54 13.6N	163 25.5E	S	RAMA03WT
0330	10/ 6/80			GCTD	13H	5817M		PCF 54 15.8N	163 24.4E	S	RAMA03WT
1800	10/ 6/80			GCTD	14H	6094M		PCF 54 27.4N	163 42.7E	S	RAMA03WT
0932	11/ 6/80			GCTD	15H	0000M		PCF 55 18.7N	164 10.9E	S	RAMA03WT
2310	11/ 6/80			GCTD	16H1	1484M		PCF 55 43.8N	164 44.9E	S	RAMA03WT
0302	12/ 6/80			GCTD	16H3	3845M		PCF 55 43.1N	164 43.1E	S	RAMA03WT
1455	12/ 6/80			GCTD	17H	3802M		PCF 56 03.0N	164 05.4E	S	RAMA03WT
1858	12/ 6/80			GCTD	18H	1477M		PCF 56 04.8N	163 55.3E	S	RAMA03WT
0550	13/ 6/80			GCTD	19H1	300M		PCF 55 42.4N	163 59.0E	S	RAMA03WT
0816	13/ 6/80			GCTD	19H2	3869M		PCF 55 41.1N	163 57.4E	S	RAMA03WT
1825	14/ 6/80			GCTD	20H	1479M		PCF 54 16.1N	163 34.2E	S	RAMA03WT
1444	15/ 6/80			GCTD	21H	4431M		PCF 53 33.3N	165 58.3E	S	RAMA03WT
0551	16/ 6/80			GCTD	22H	3506M		PCF 53 14.6N	165 16.3E	S	RAMA03WT
0056	17/ 6/80			GCTD	23H1	4868M		PCF 52 39.7N	164 04.2E	S	RAMA03WT
0739	17/ 6/80			GCTD	23H3	1392M		PCF 52 41.6N	164 03.5E	S	RAMA03WT
1440	17/ 6/80			GCTD	24H	3997M		PCF 52 46.1N	164 12.3E	S	RAMA03WT
0910	18/ 6/80			GCTD	25H	5309M		PCF 52 23.4N	163 31.6E	S	RAMA03WT
2158	18/ 6/80			GCTD	26H	6164M		PCF 52 07.1N	162 03.8E	S	RAMA03WT
0358	19/ 6/80			GCTD	27H	2597M		PCF 52 19.1N	161 28.1E	S	RAMA03WT
1444	19/ 6/80			GCTD	28H	6060M		PCF 52 12.2N	161 41.3E	S	RAMA03WT
9900					END SAMPLE INDEX						RAMA03WT