INFORMAL REPORT AND INDEX OF

NAVIGATION, DEPTH, MAGNETIC AND SUBBOTTOM PROFILER DATA

(Issued December 1985)

MARATHON EXPEDITION

LEG 3

Kodiak, Alaska (10 June 1984)
to
Kodiak, Alaska (09 July 1984)

R/V T. Washington

Co-Chief Scientists - J. Ladd and S. Lewis (Lamont-Doherty)

Resident Marine Tech - J. Boaz

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

Data Collection and Processing funded by NSF
Grant Number OCE83-17741

GDC Cruise I.D.# 215

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

Contents:

Index Chart - gives track of cruise leg, dates, ports, and mileage of each type of data collected.

Track Charts - annotated with dates (day/month) and hour ticks. The scale is .312 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 profiles (airgun or watergun) records have a wide black line along the bottom of the profile. Sections having Sea Beam are indicated by a narrow black line.

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.

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 (619)452-2752.

1. Navigation listing of times and positions of course and speed changes, fixes and drift velocity.
2. Depth compilation plots - compilation plots at the traditional scale of 4in/degree longitude (1:1,000,000) are no longer produced for Sea Beam cruises. Custom plots may be requested of vertical beam (2&2/3 degree beam width) depths retrieved at one minute intervals of ship time.
3. Plots of magnetic anaomaly profiles along track - map scale = 1.2in/degree, anomaly scale between 15N and 15S 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 1980 IGRF.
4. Separate time series files of navigation, depth and magnetics of data merged in the MGD77 Exchange format on magnetic tape.
5. Microfilm or Xerox copies of:
   a. Echosounder records - 12 and 3.5 kHz frequency
   b. Subbottom profiler records (air or water guns)
   c. Magnetometer records
   d. Underway data log

Revised June 1985 (Sea Beam)

SIO Sea Beam Data

The following forms are available, subject to approval of the cruise leg chief scientist.

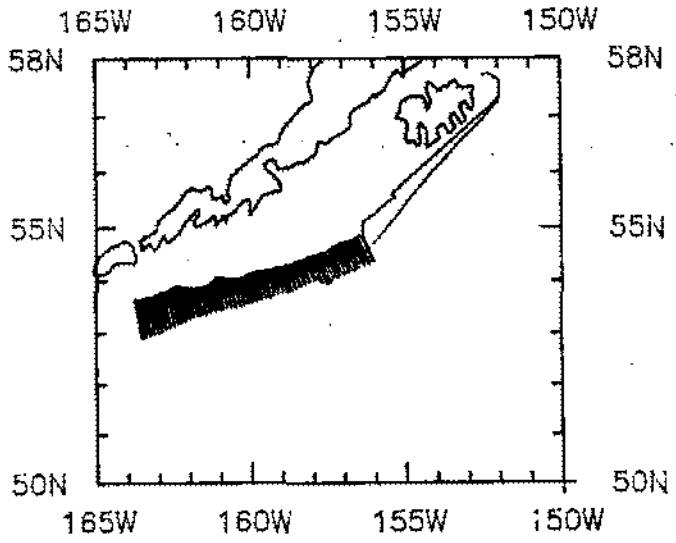
1) Archive contour copy of contour swath books generated in real time on board ship available for inspection at the Data Center.

2) Microfilm (35mm flowfilm) containing swath books plus, for some cruises, the UGR monitor record and navigation listings.

3) Sea Beam merged tapes - Sea Beam data merged with navigation. (Navigation is edited to the extent that poor fixes are removed after inspection of drift vectors between fix pairs. No editing is done on the basis of adjusting to overlapping Sea Beam swaths.)

4) Custom generated plots of Sea Beam swaths on Mercator projection in four colors at variable plot scales and contour intervals. There are provisions to adjust positions of individual track lines and to edit out beams (bad data or overlapping data on inside of turns).

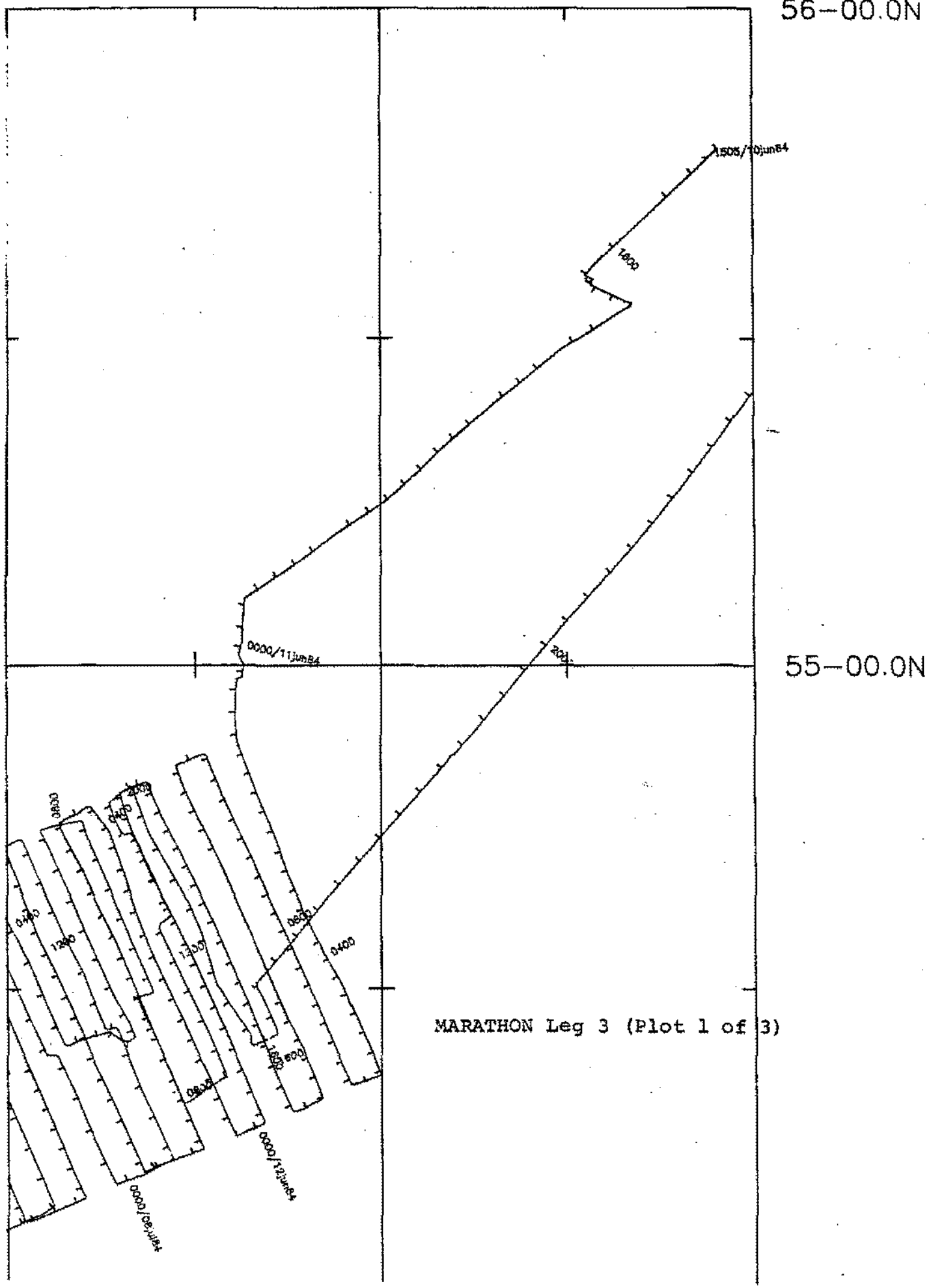
S. M. Smith - June 1985



MARATHON EXPEDITION
LEG 3

CO-CHIEF SCIENTISTS: J. Ladd and S. Lewis (LDGO)
PORTS: Kodiak - Kodiak, Alaska
DATES: 10 June - 09 July 1984
SHIP: R/V T. Washington

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED
1) Cruise - 6664 miles
2) Bathymetry - 6055 miles
3) Magnetics - 6160 miles
4) Seismic Reflection - 3880 miles
5) Gravity - none collected
6) SeaBeam - 6152 miles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1600
1800
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0000/13jun84
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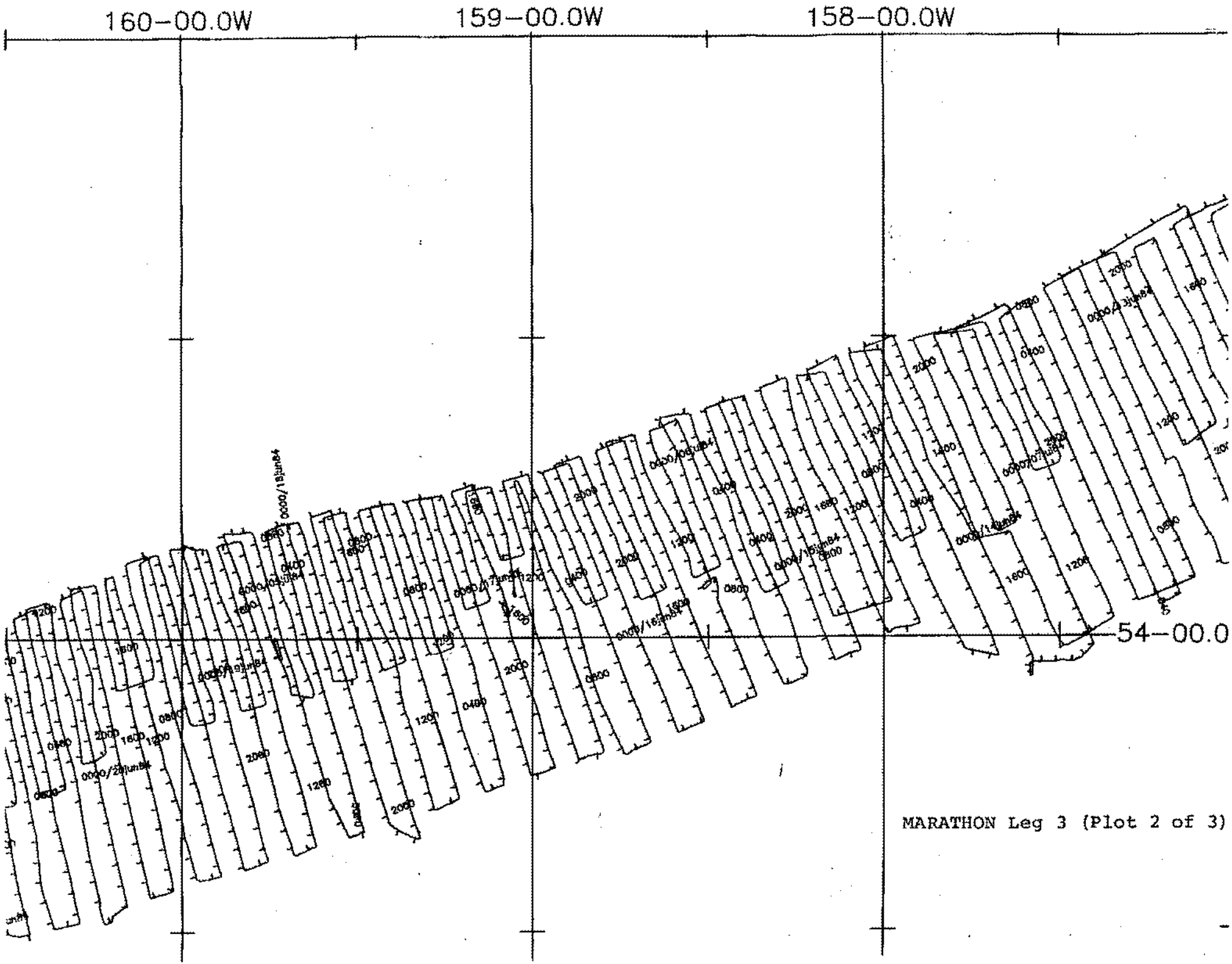
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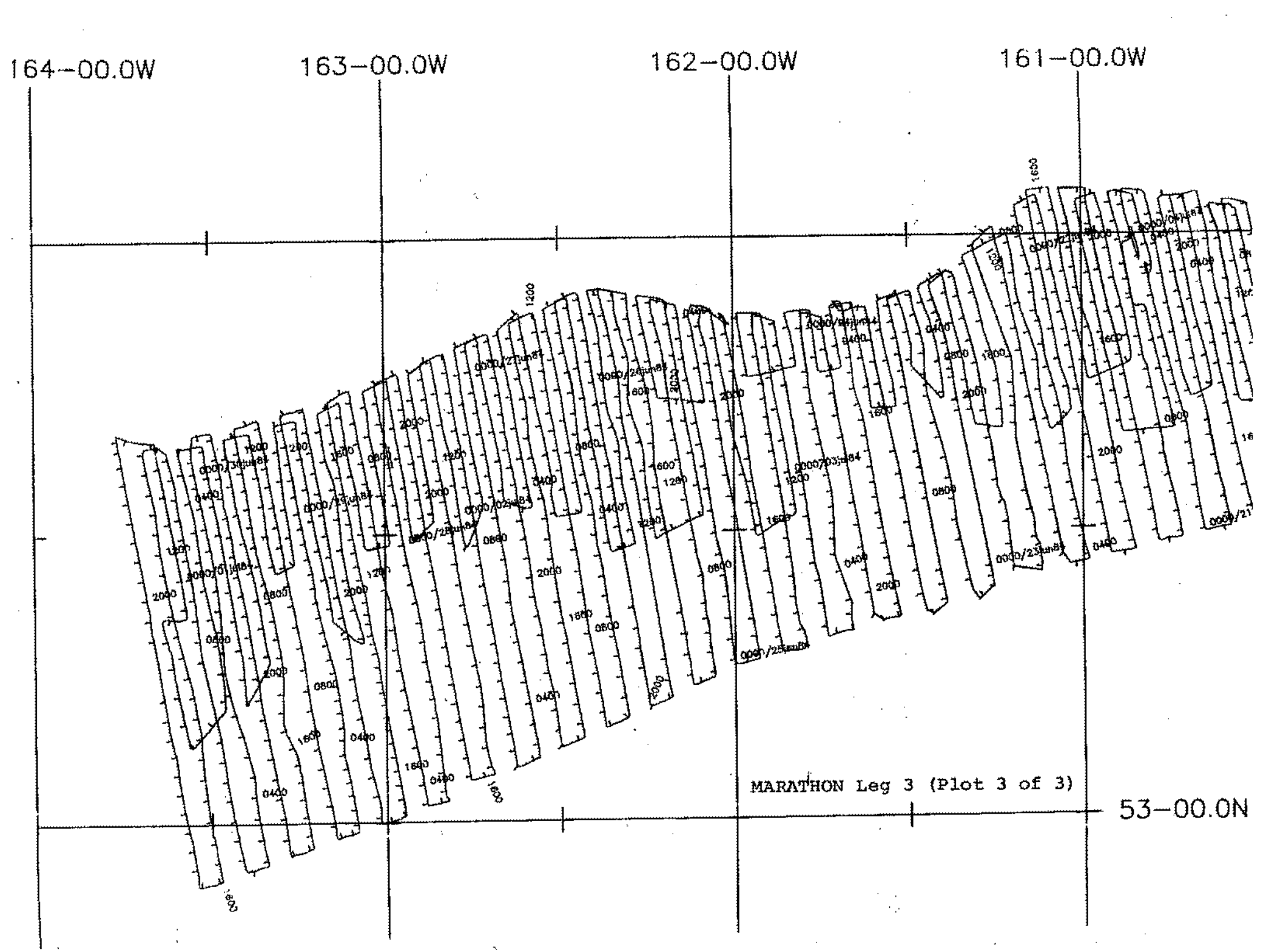
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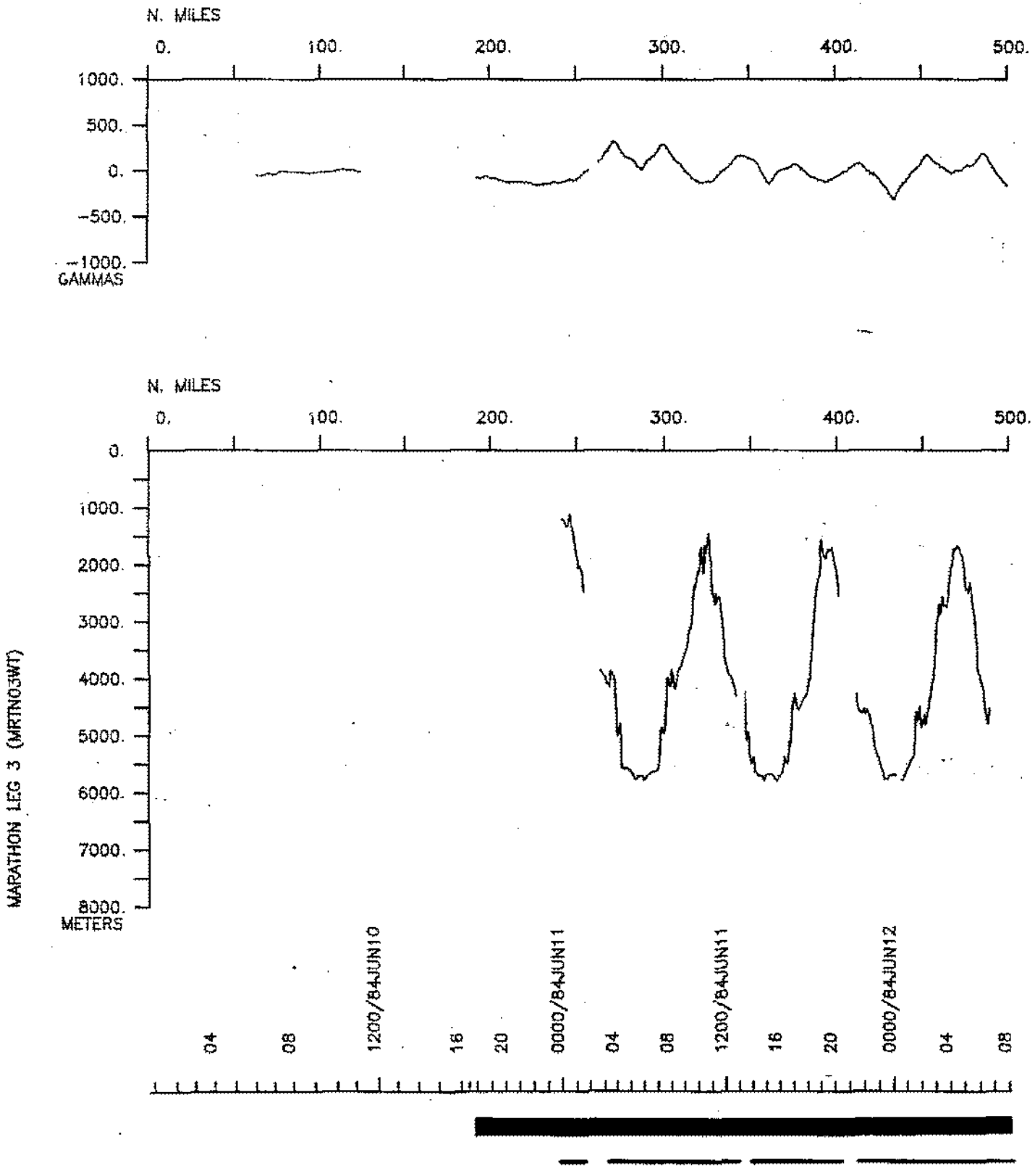
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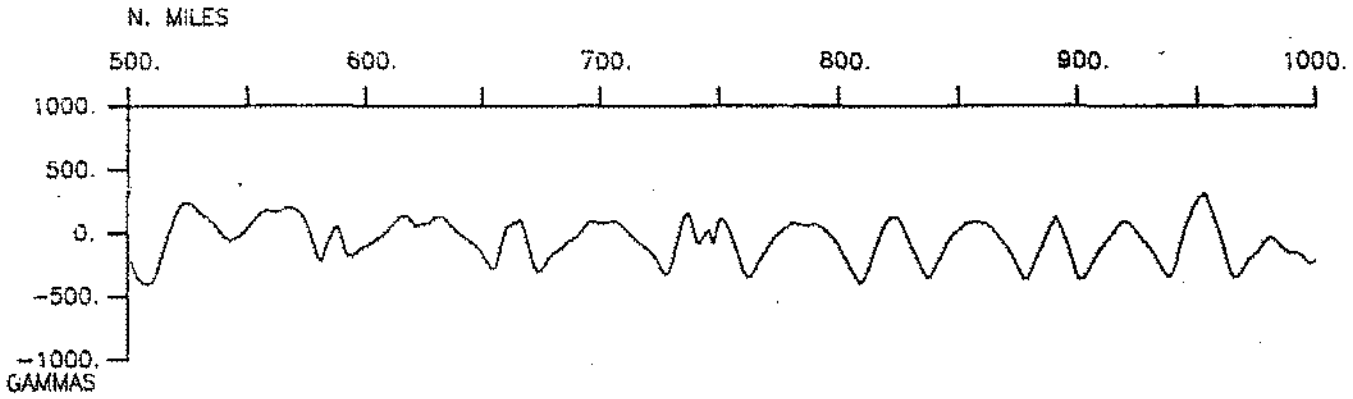
04
08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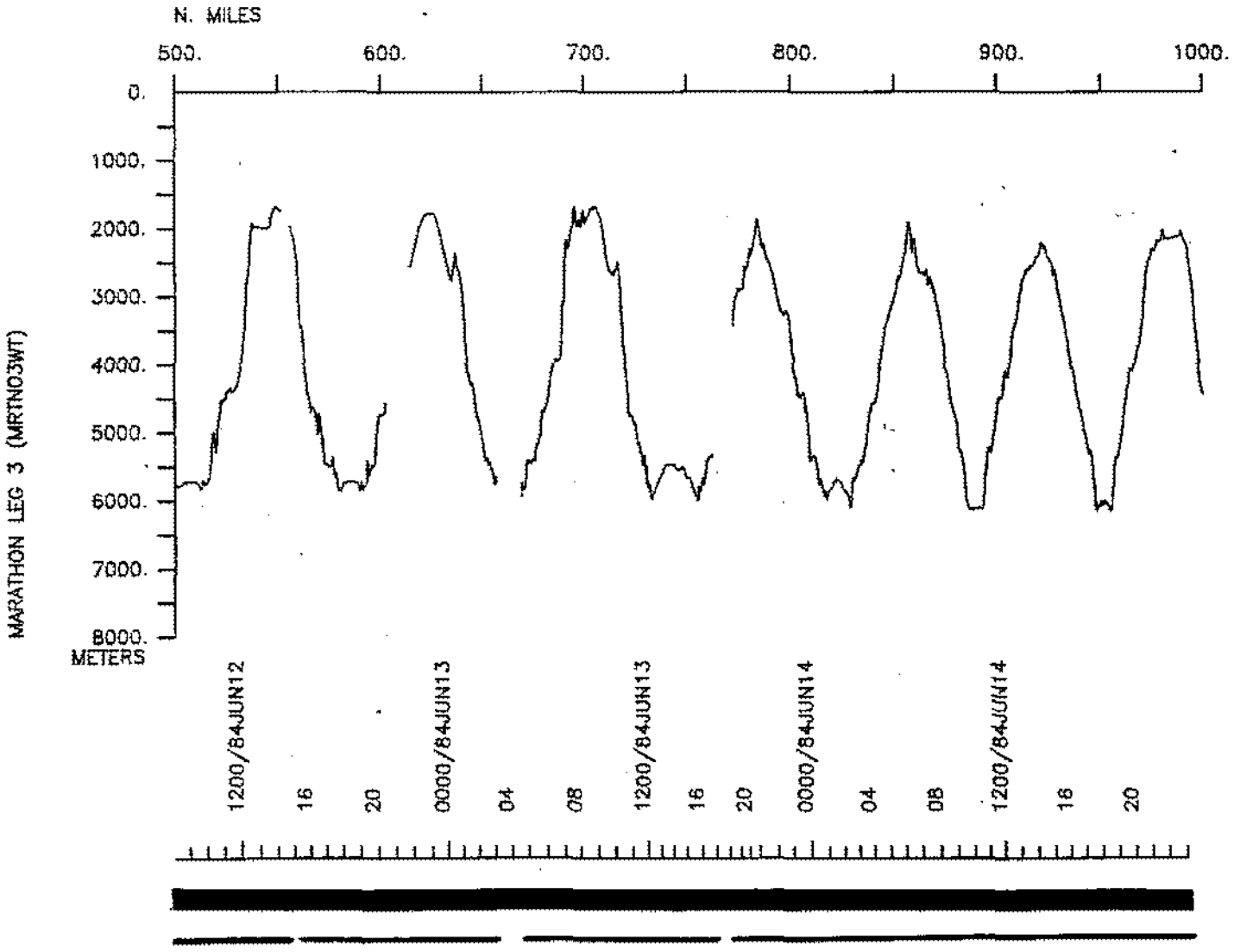
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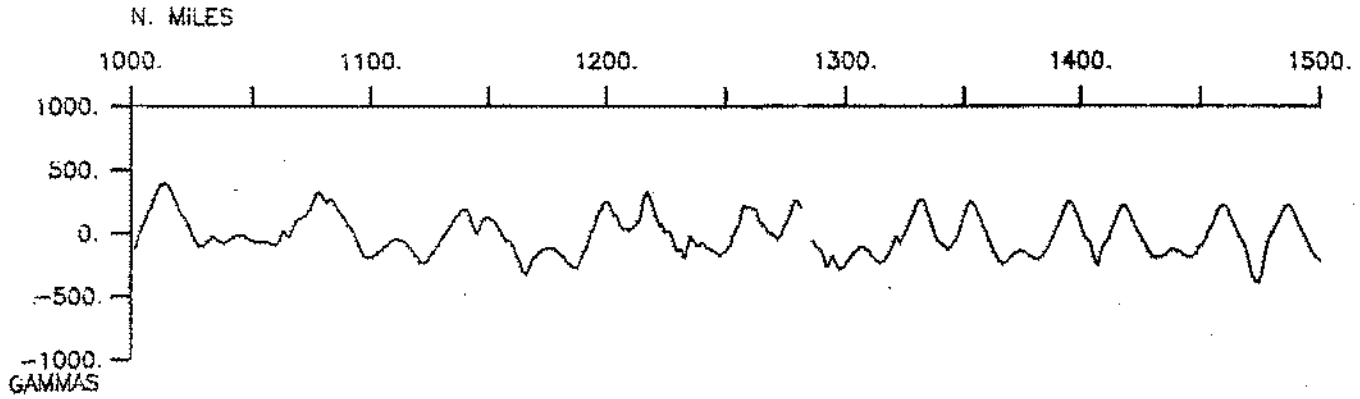
20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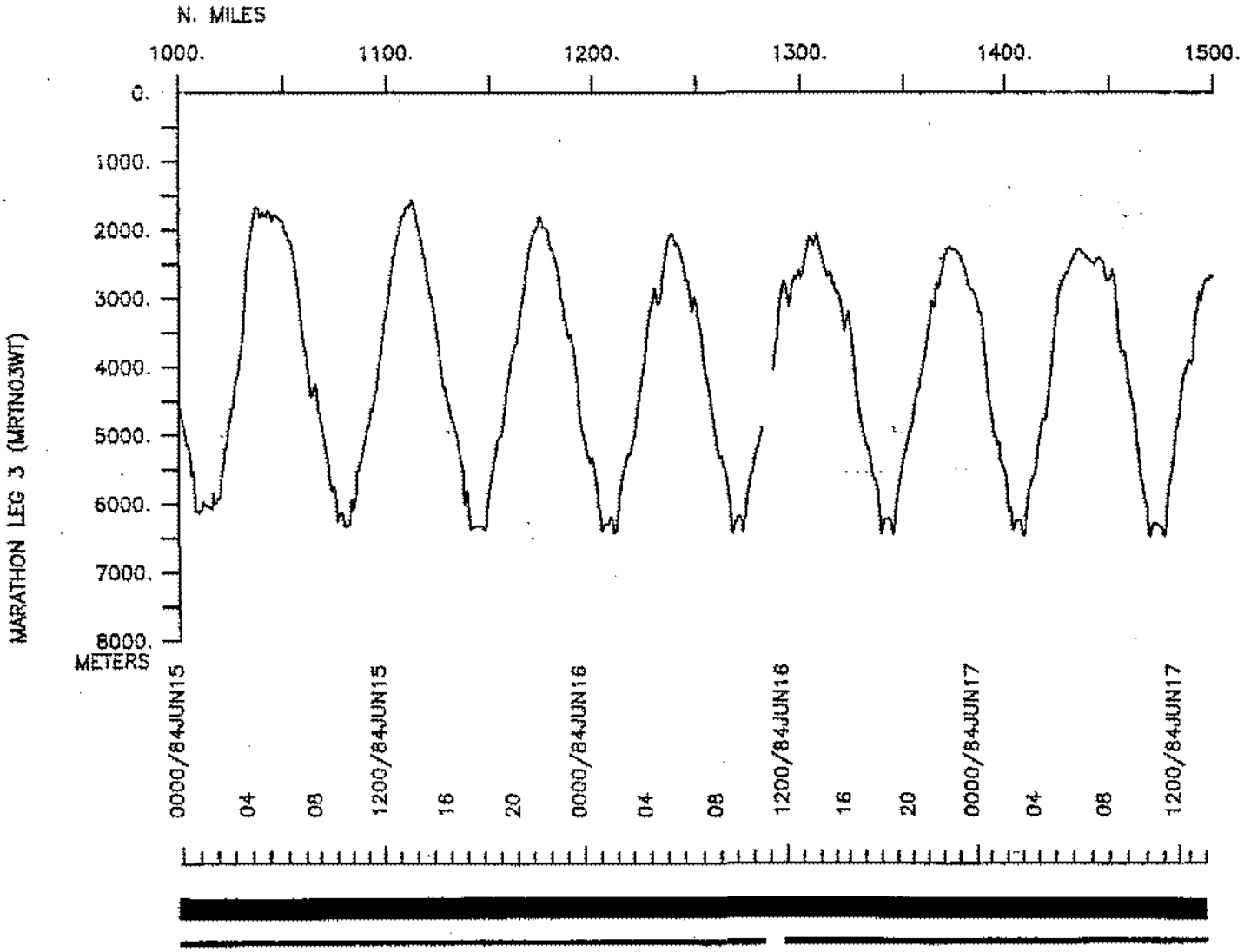
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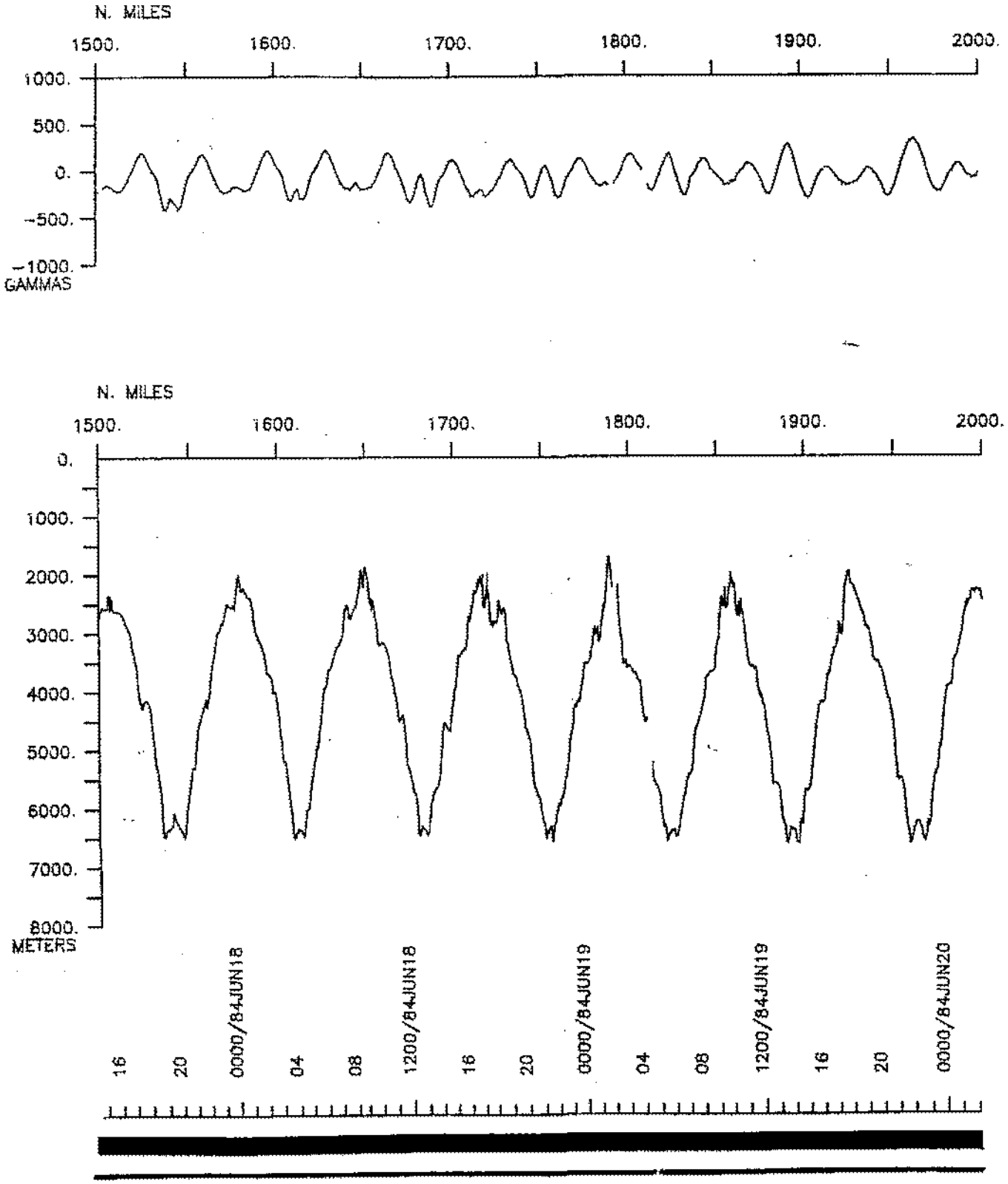
08
1200/84JUN17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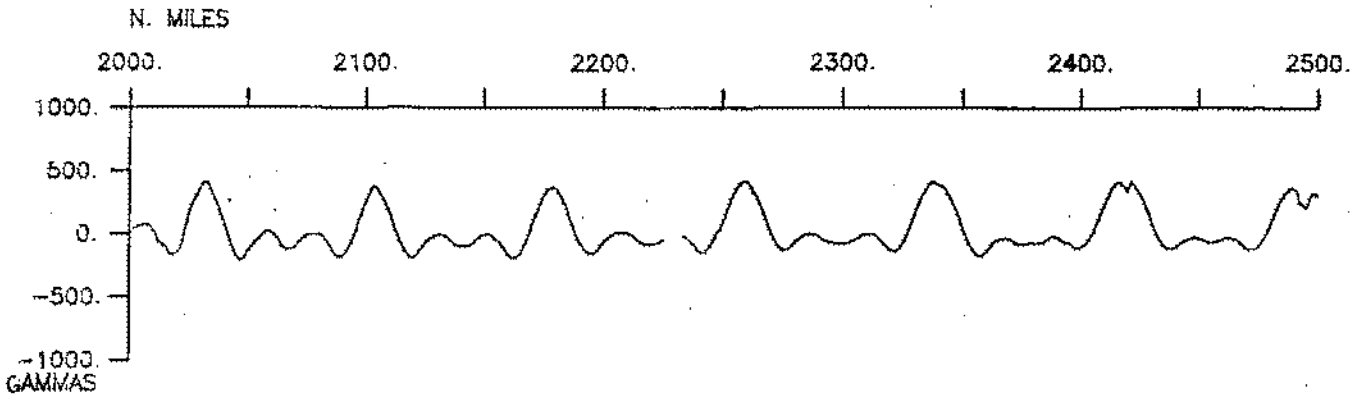
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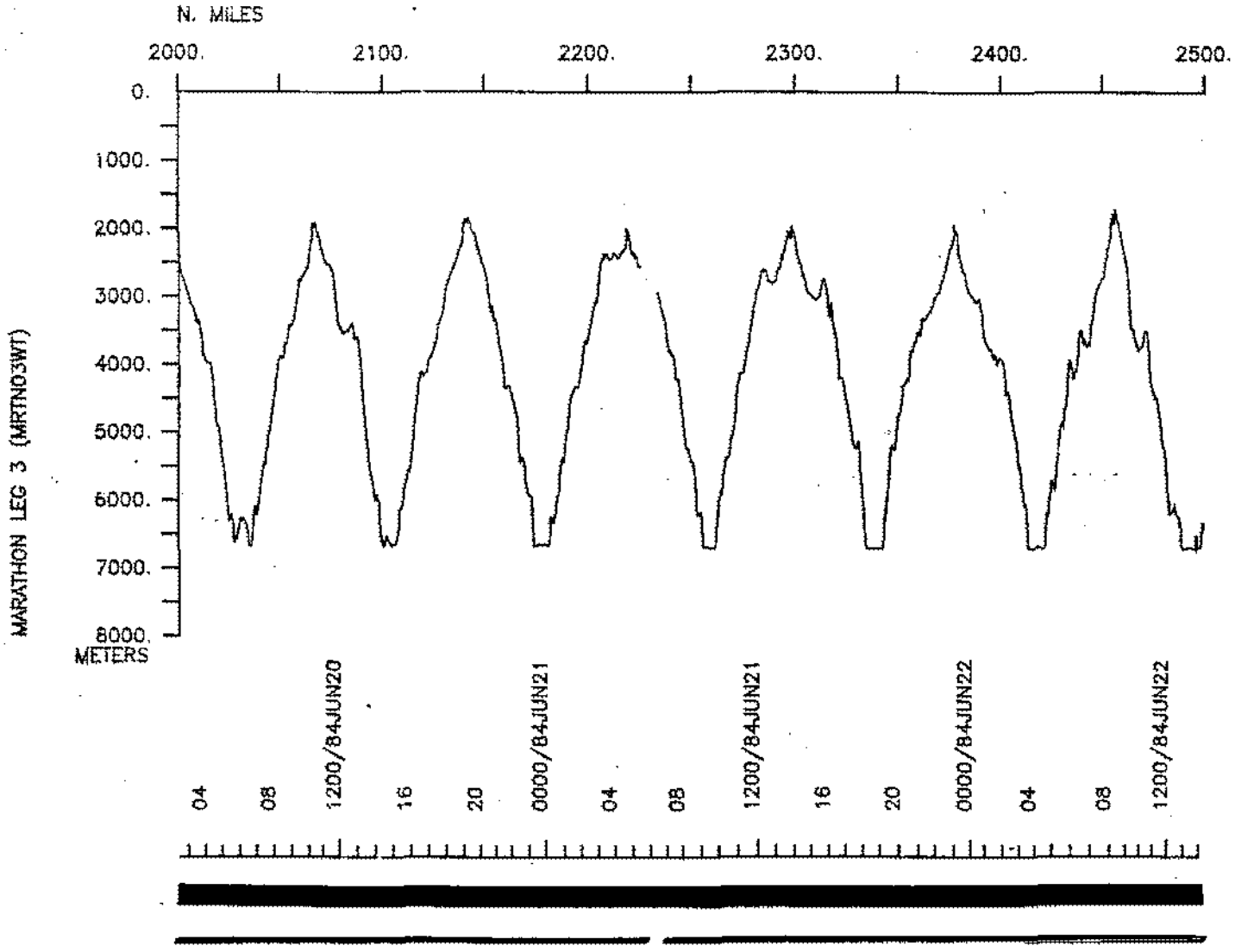
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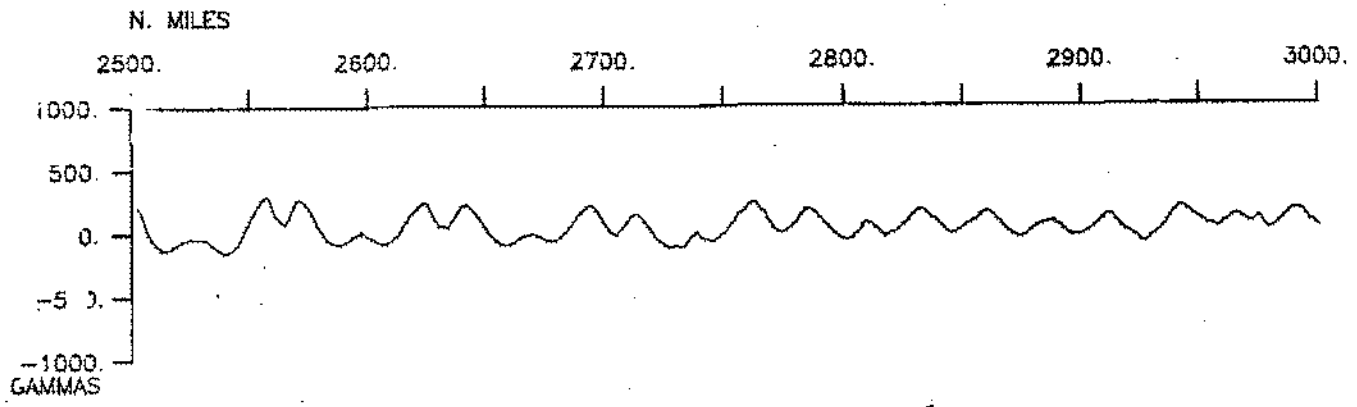
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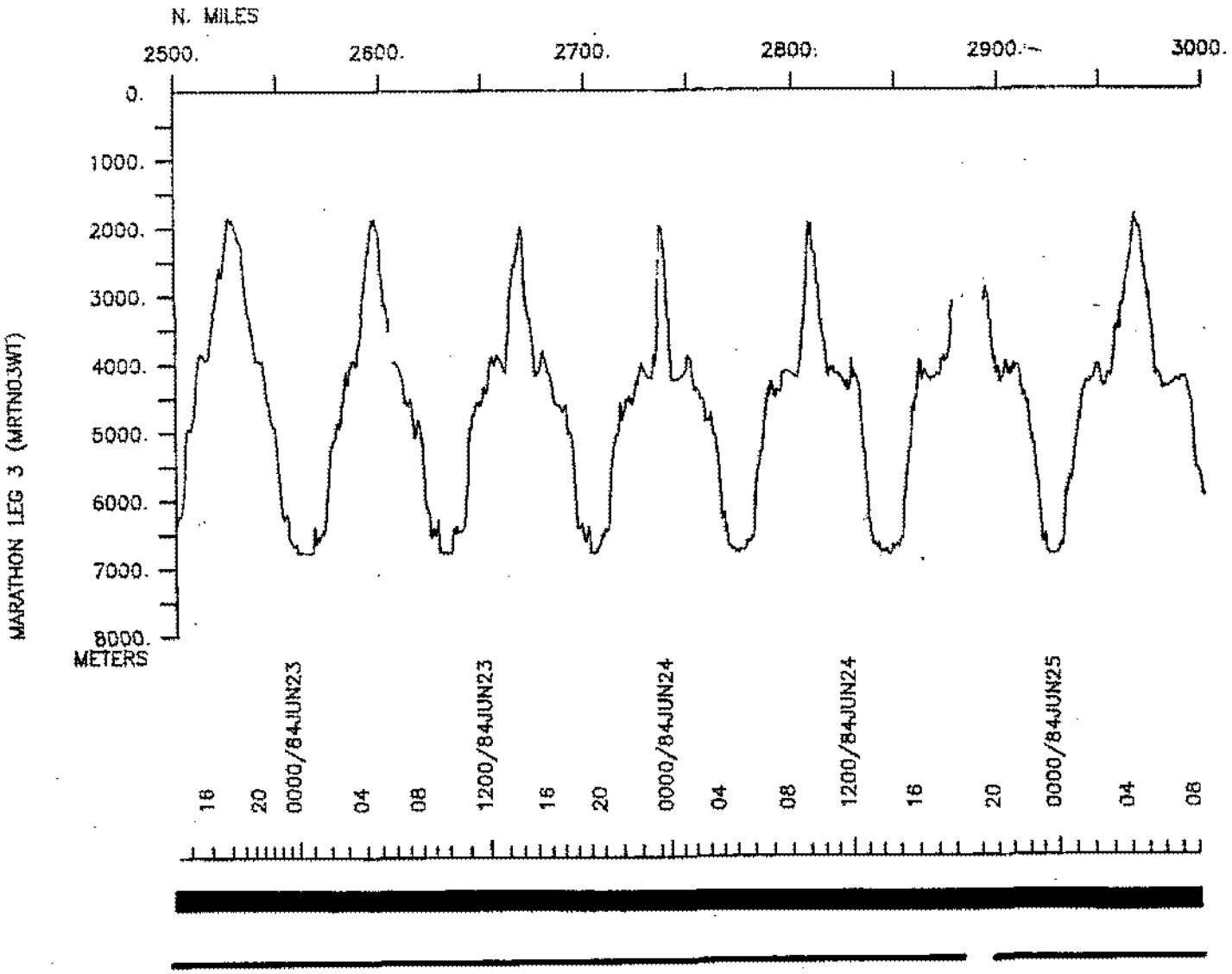
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08
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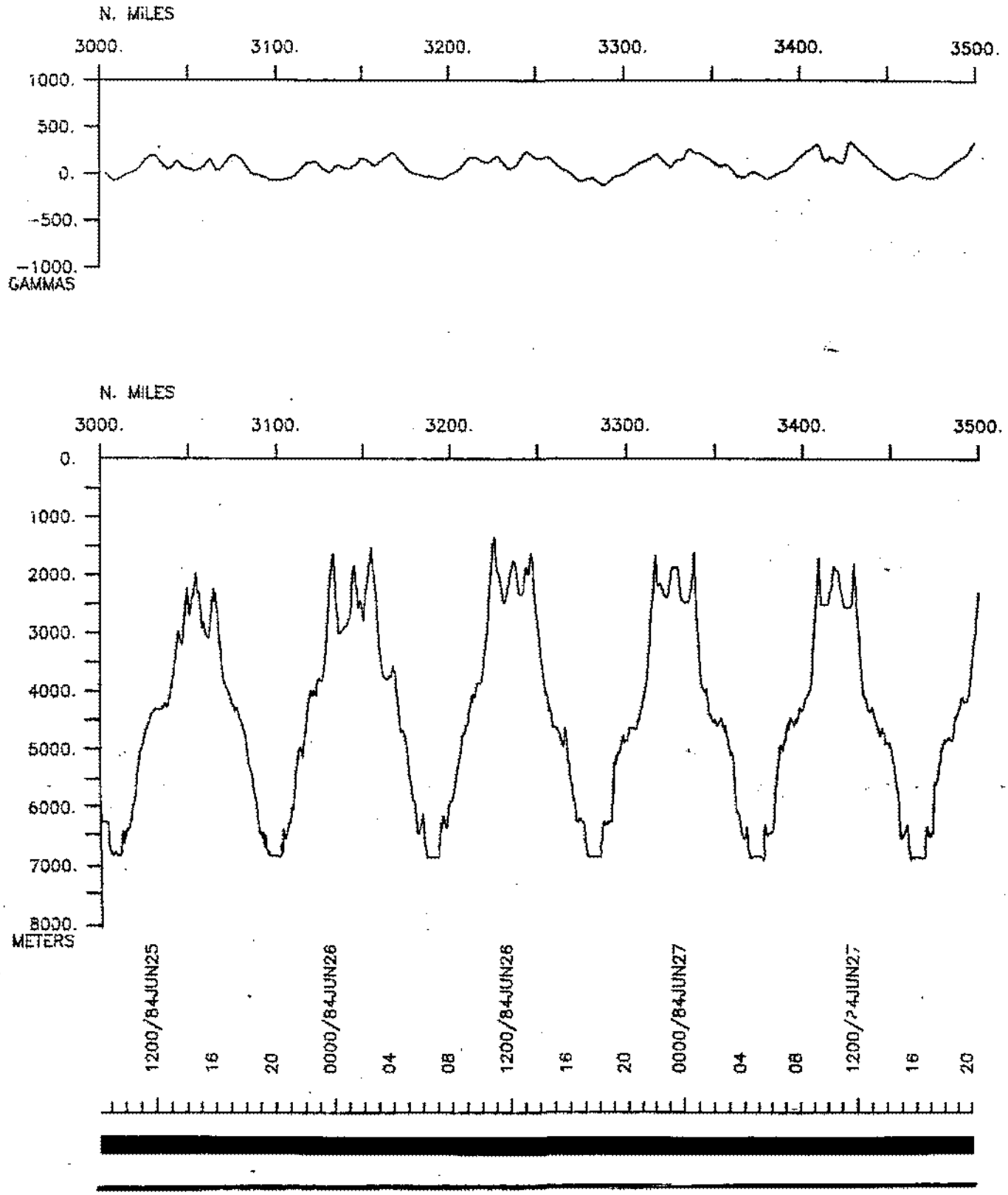
0000/84JUN25
04
08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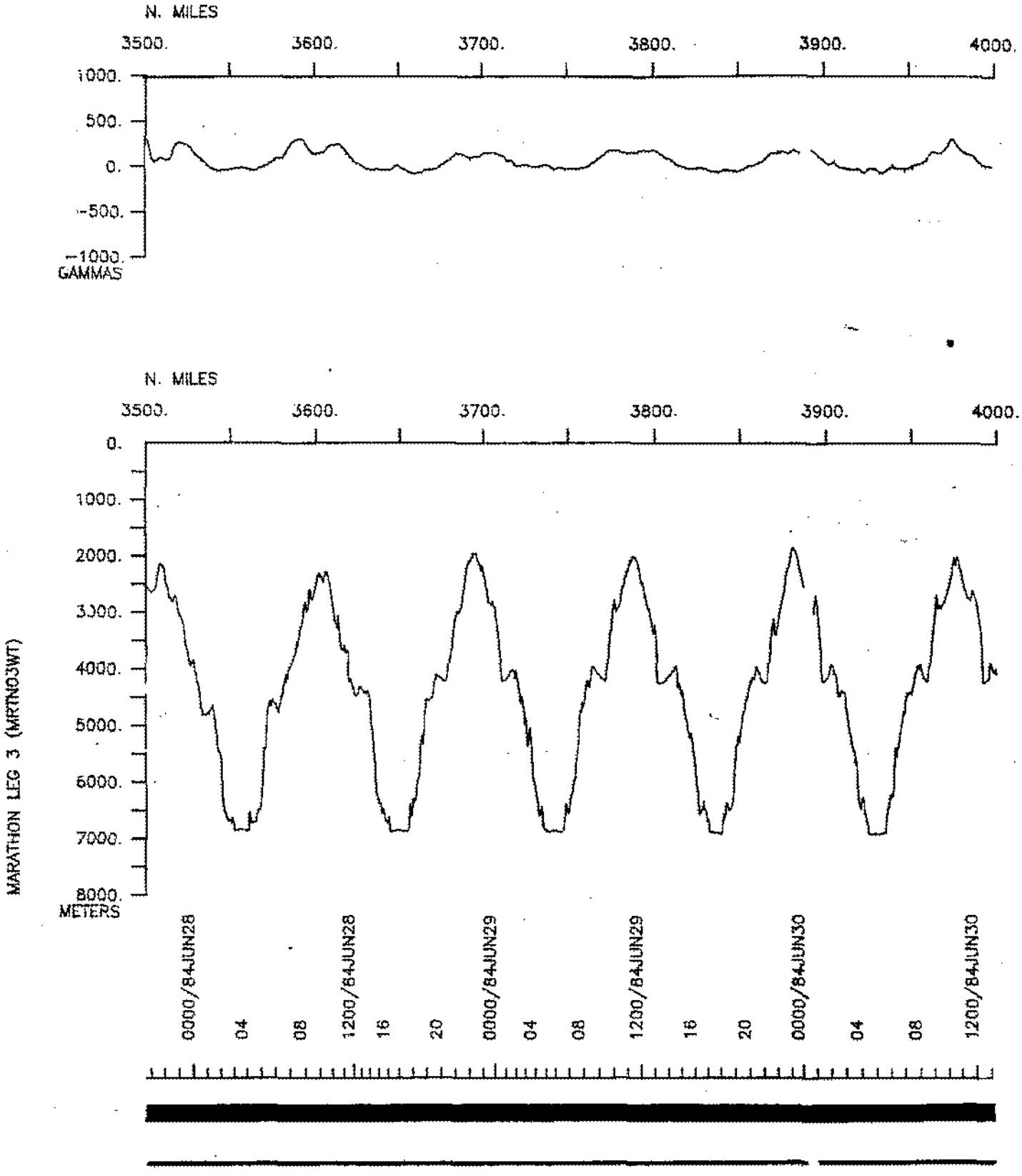
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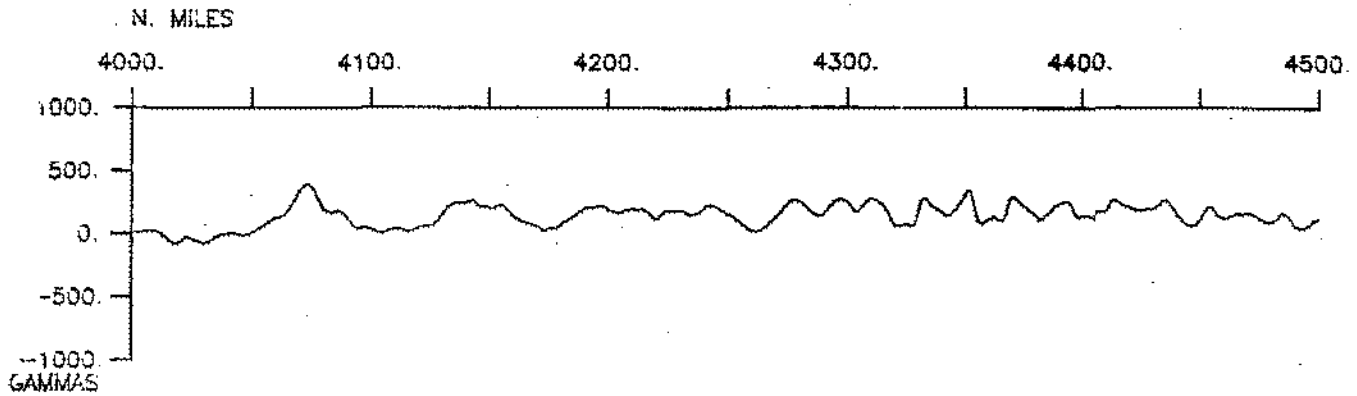
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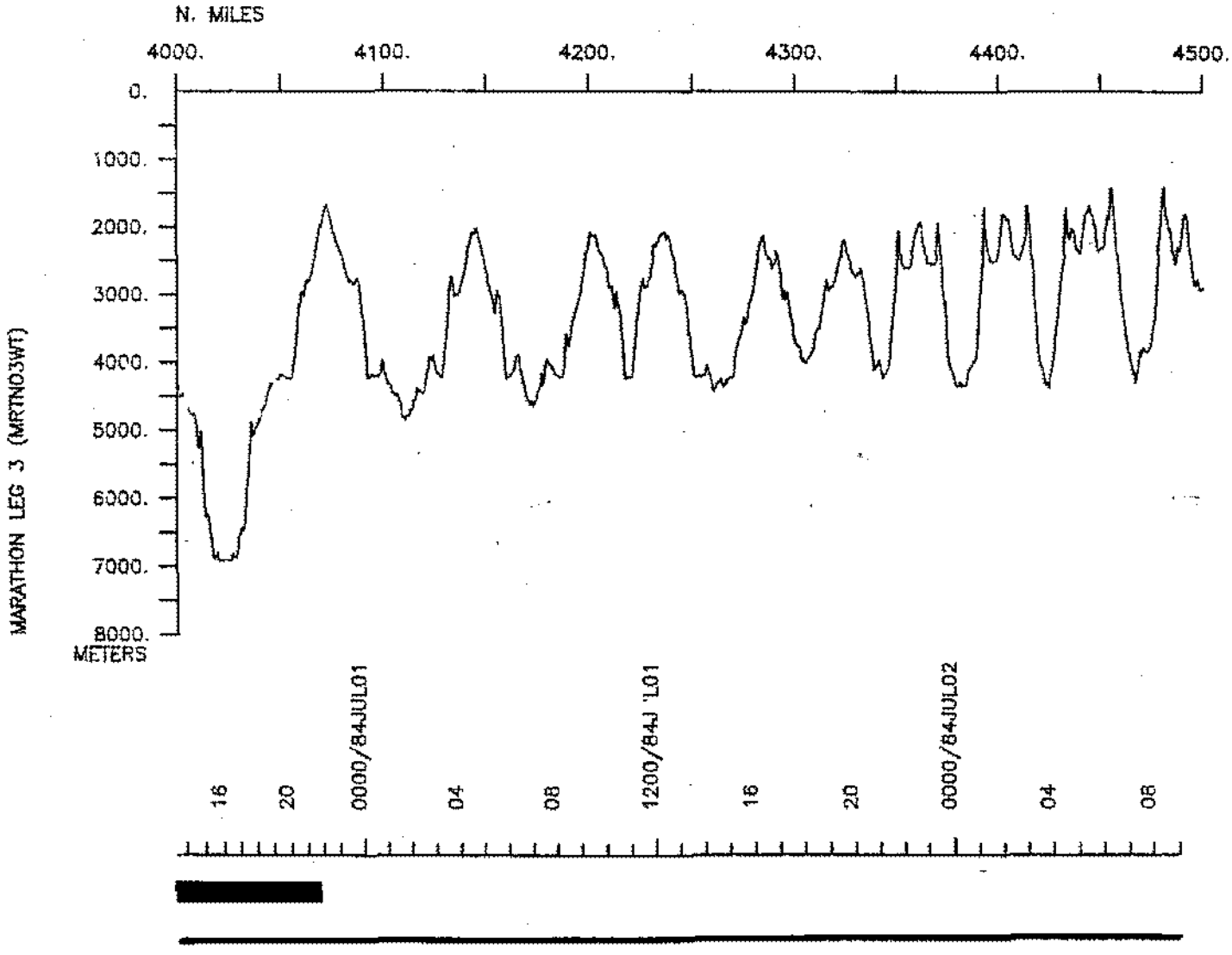
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METERS
MARATHON LEG 3 (MRTNO3WT)
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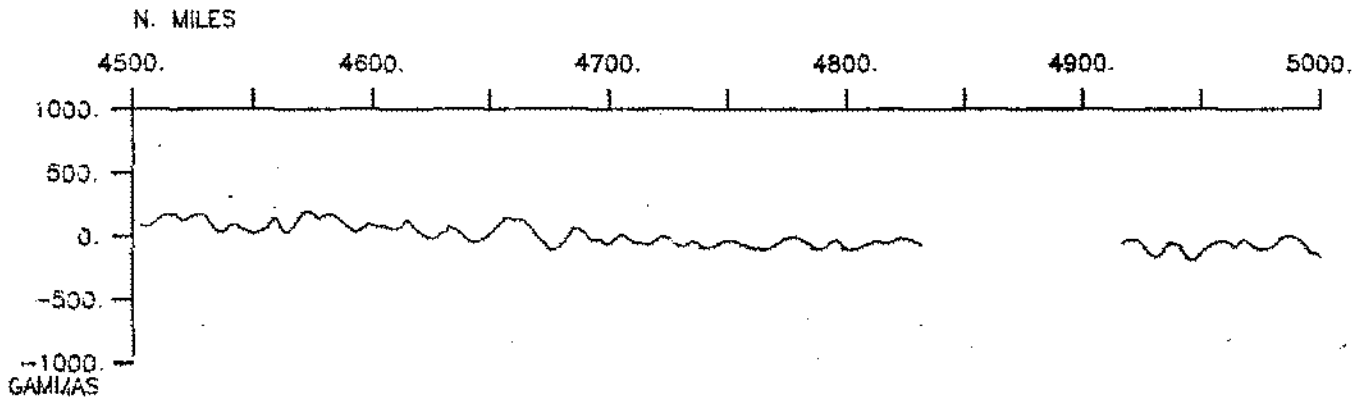

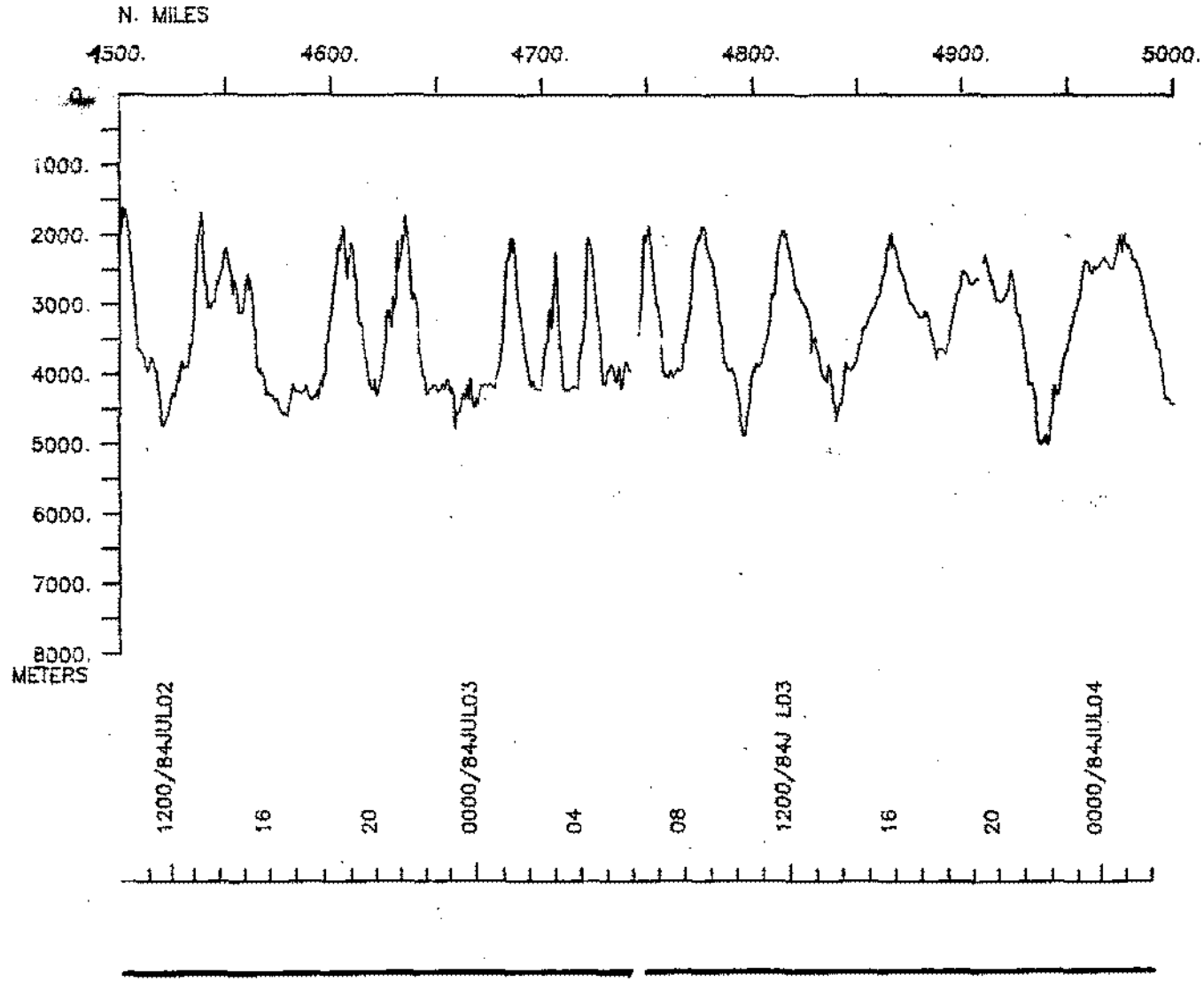

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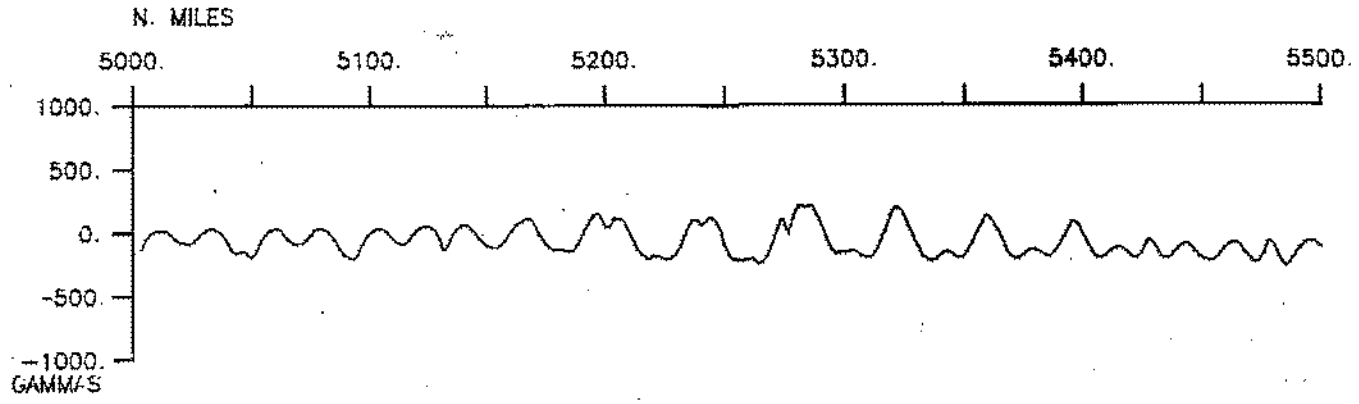
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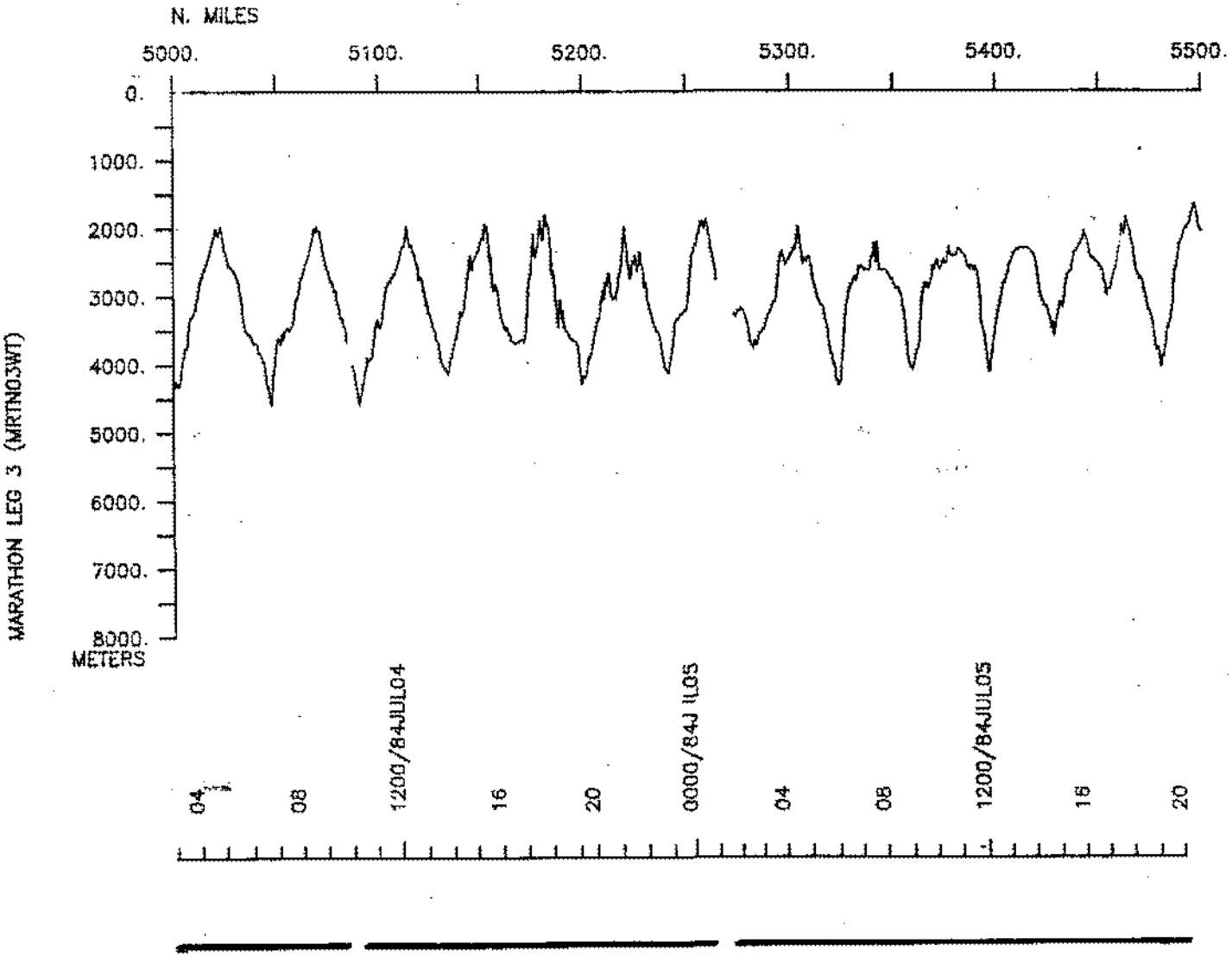
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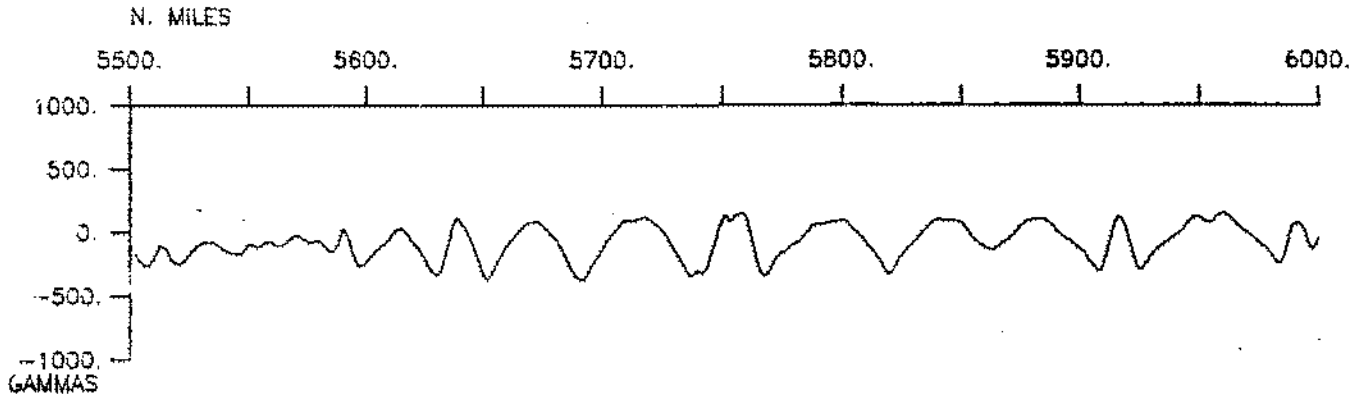
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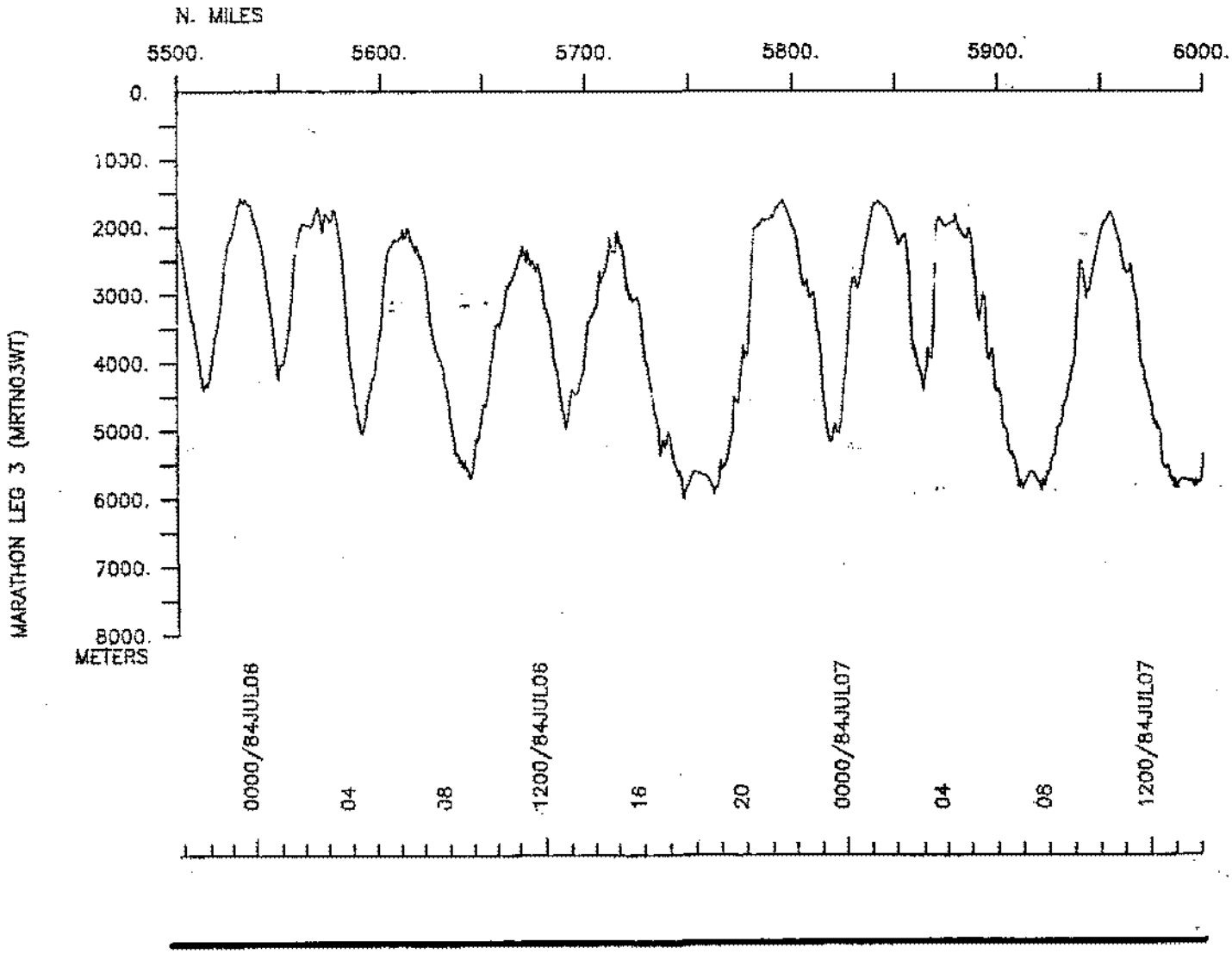
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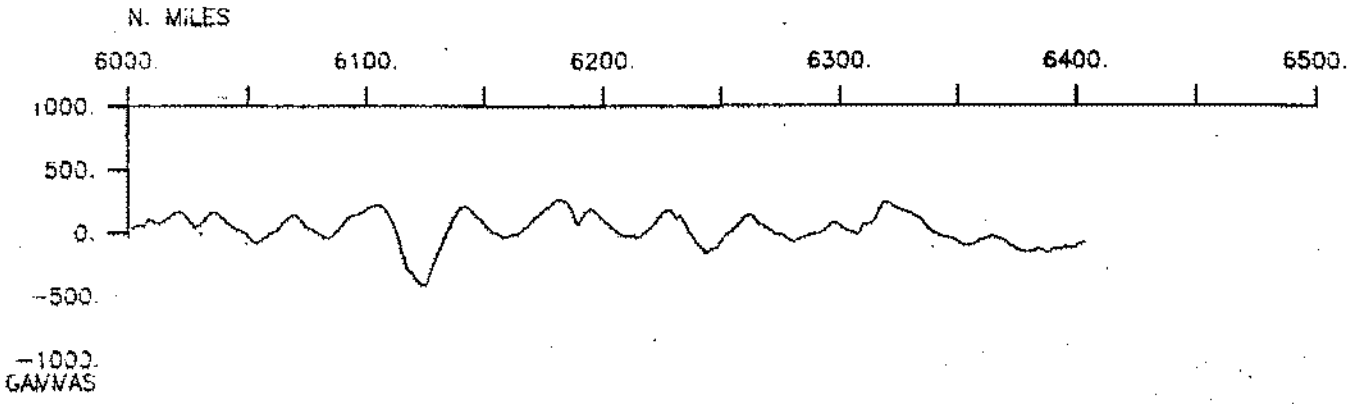
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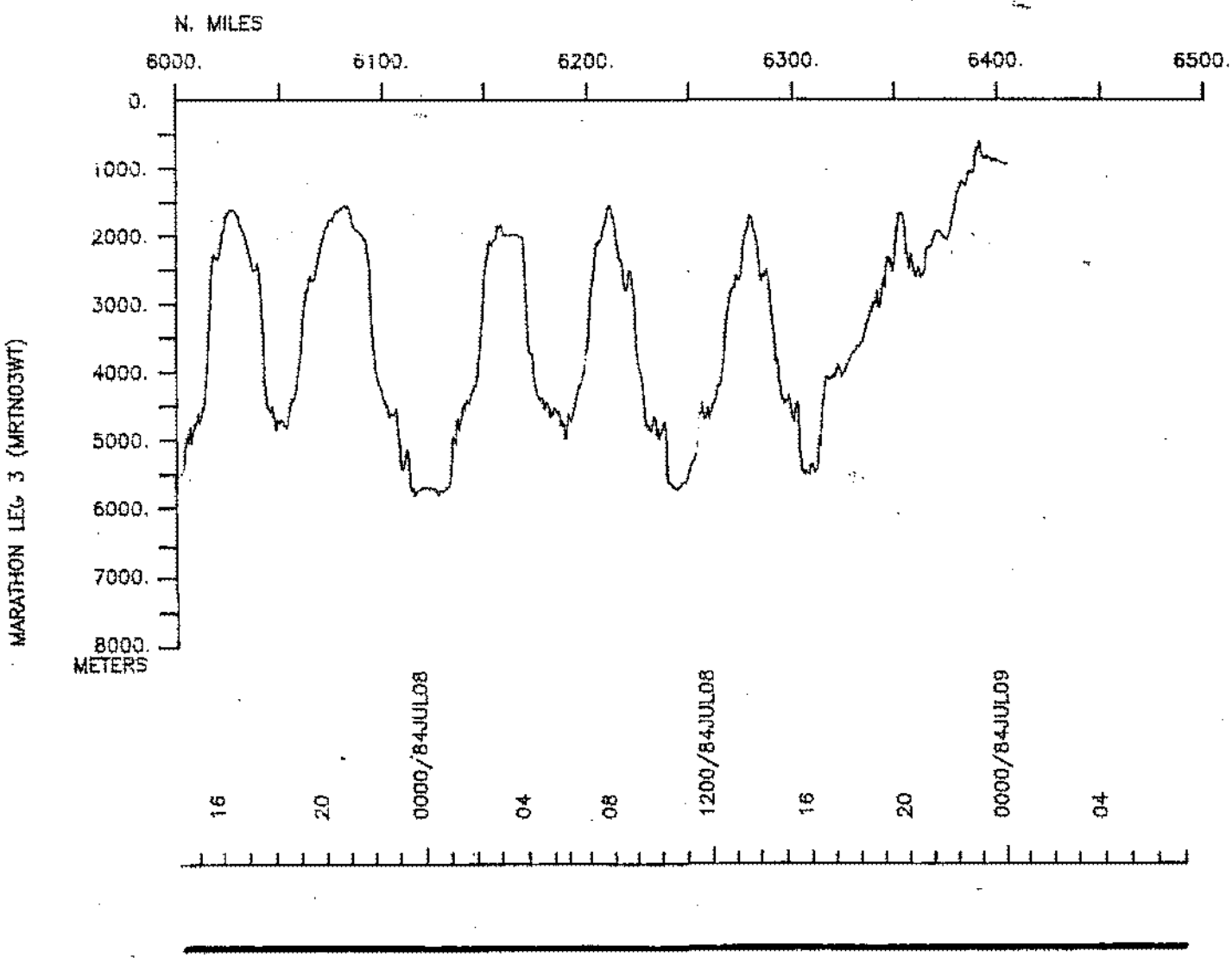
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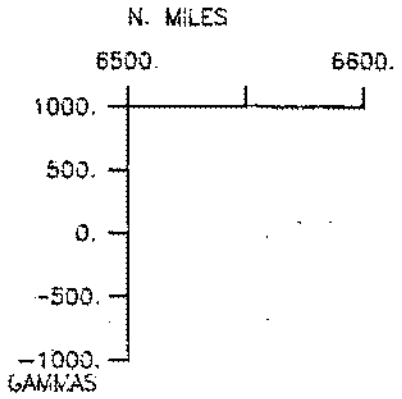
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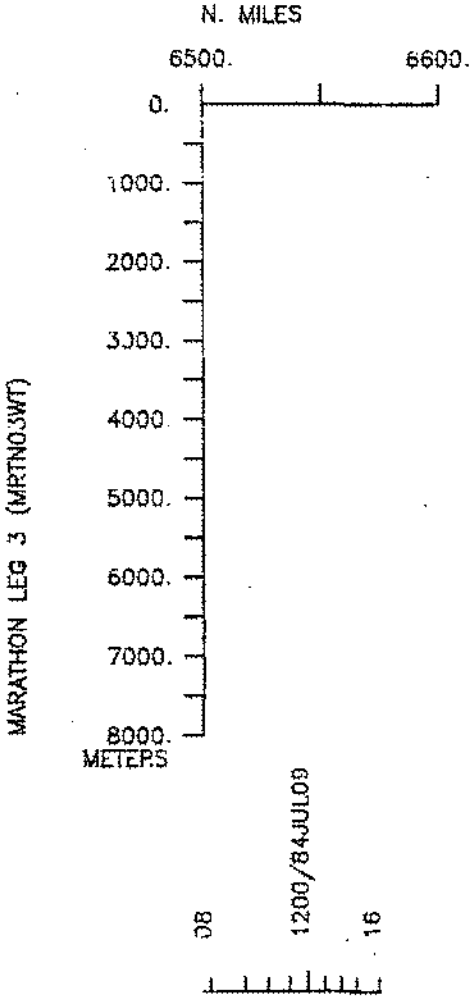
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METERS
MARATHON LEG 3 (MRTN03WT)
08
1200/84JUL09
16

S.I.O. SAMPLE INDEX

(Issued December 1985)

MARATHON EXPEDITION

Leg 3

Kodiak, Alaska (10 June 1984)
to
Kodiak, Alaska (09 July 1984)

R/V T. Washington

Co-Chief Scientists - J. Ladd and S. Lewis (LDGO)

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

Index Encoding Funded by NSF
Grant Number OCE83-16603
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 marine 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 lines. 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.)

GDC Cruise I.D. #215

#***PORTS***

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#***PERSONNEL***

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PECS LDO	LEWIS,S.	CHIEF SCIENTIST	LAMONT GEOLOGICAL OB.	sMRTNO3WT
PECT MTG	MOORE,J	COMPUTER TECH	SCRIPPS INSTITUTION	sMRTNO3WT
PEST LDO	NEWCOMB,K.	STUDENT	LAMONT GEOLOGICAL OB.	sMRTNO3WT
PEST UCC	BREEN,N.	STUDENT	U. OF CAL.SANTA CRUZ	sMRTNO3WT
PERT MTG	BOAZ,J.	RESIDENT TECH	SCRIPPS INSTITUTION	sMRTNO3WT
PEBE MTG	HYLAS,T.	S.B. TECH	SCRIPPS INSTITUTION	sMRTNO3WT
PEMT MTG	CRAMPTON,P.	AIRGUN TECH	SCRIPPS INSTITUTION	sMRTNO3WT
PESP SIX	EDELHOLFF,E.	VOLUNTEER	SANTA FE MINES CO.	sMRTNO3WT
PEBO MTG	SMITH,S.	S.B. OPERATOR	SCRIPPS INSTITUTION	sMRTNO3WT
PEST GSU	BLANK,J.	STUDENT	GEOLOGICAL SURVEY	sMRTNO3WT

#***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 A PARTICULAR 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	DDMMYY DATE	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
#***UNDERWAY DATA CURATOR - S. M. SMITH EXT.2752							
#***LOG BOOKS***							
0555	100684	LBUW B	UNDERWAY LOG BOOK	GDC	56-586N	152-398W	sMRTN03WT
0000	090784	LBUW E	UNDERWAY LOG BOOK	GDC	55-386N	154-402W	sMRTN03WT
#***SEABEAM SWATH BOOKS***							
0459	100684	MBSB B	SB SWATH BOOK 01	GDC	57-064N	152-233W	sMRTN03WT
0300	110684	MBSB E	SB SWATH BOOK 01	GDC	54-388N	156-140W	sMRTN03WT
0325	110684	MBSB B	SB SWATH BOOK 02	GDC	54-362N	156-121W	sMRTN03WT
2250	120684	MBSB E	SB SWATH BOOK 02	GDC	54-379N	157-234W	sMRTN03WT
2250	120684	MBSB B	SB SWATH BOOK 03	GDC	54-379N	157-234W	sMRTN03WT
1918	140684	MBSB E	SB SWATH BOOK 03	GDC	54-061N	158-137W	sMRTN03WT
1918	140684	MBSB B	SB SWATH BOOK 04	GDC	54-061N	158-137W	sMRTN03WT
1211	160684	MBSB E	SB SWATH BOOK 04	GDC	54-043N	159-035W	sMRTN03WT
1211	160684	MBSB B	SB SWATH BOOK 05	GDC	54-043N	159-035W	sMRTN03WT
0515	180684	MBSB E	SB SWATH BOOK 05	GDC	53-467N	159-368W	sMRTN03WT
0515	180684	MBSB B	SB SWATH BOOK 06	GDC	53-467N	159-368W	sMRTN03WT
0116	200684	MBSB E	SB SWATH BOOK 06	GDC	53-558N	160-224W	sMRTN03WT
0116	200684	MBSB B	SB SWATH BOOK 07	GDC	53-558N	160-224W	sMRTN03WT
1750	210684	MBSB E	SB SWATH BOOK 07	GDC	53-340N	160-536W	sMRTN03WT
1750	210684	MBSB B	SB SWATH BOOK 08	GDC	53-340N	160-536W	sMRTN03WT
1410	230684	MBSB E	SB SWATH BOOK 08	GDC	53-521N	161-413W	sMRTN03WT
1410	230684	MBSB B	SB SWATH BOOK 09	GDC	53-521N	161-413W	sMRTN03WT
1406	250684	MBSB E	SB SWATH BOOK 09	GDC	53-518N	162-194W	sMRTN03WT
1418	250684	MBSB B	SB SWATH BOOK 10	GDC	53-535N	162-195W	sMRTN03WT
0640	270684	MBSB E	SB SWATH BOOK 10	GDC	53-169N	162-410W	sMRTN03WT
0640	270684	MBSB B	SB SWATH BOOK 11	GDC	53-169N	162-410W	sMRTN03WT
0300	290684	MBSB E	SB SWATH BOOK 11	GDC	53-133N	163-086W	sMRTN03WT
0300	290684	MBSB B	SB SWATH BOOK 12	GDC	53-133N	163-086W	sMRTN03WT
2248	300684	MBSB E	SB SWATH BOOK 12	GDC	53-384N	163-401W	sMRTN03WT
2248	300684	MBSB B	SB SWATH BOOK 13	GDC	53-384N	163-401W	sMRTN03WT
0346	020784	MBSB E	SB SWATH BOOK 13	GDC	53-315N	162-356W	sMRTN03WT
0346	020784	MBSB B	SB SWATH BOOK 14	GDC	53-315N	162-356W	sMRTN03WT
0840	030784	MBSB E	SB SWATH BOOK 14	GDC	53-546N	161-272W	sMRTN03WT
0840	030784	MBSB B	SB SWATH BOOK 15	GDC	53-546N	161-272W	sMRTN03WT
1524	040784	MBSB E	SB SWATH BOOK 15	GDC	54-049N	160-154W	sMRTN03WT
1526	040784	MBSB B	SB SWATH BOOK 16	GDC	54-049N	160-147W	sMRTN03WT
2315	050784	MBSB E	SB SWATH BOOK 16	GDC	54-173N	158-464W	sMRTN03WT
2315	050784	MBSB B	SB SWATH BOOK 17	GDC	54-173N	158-464W	sMRTN03WT
1034	070784	MBSB E	SB SWATH BOOK 17	GDC	54-368N	157-274W	sMRTN03WT
1042	070784	MBSB B	SB SWATH BOOK 18	GDC	54-351N	157-262W	sMRTN03WT
1656	090784	MBSB E	SB SWATH BOOK 18	GDC	57-436N	152-312W	sMRTN03WT
#							

#***SEABEAM MONITOR 12Khz***

0459	100684	MBRM	B	SB UGR MONITOR	R-01	GDC	57-064N	152-233W sMRTNO3WT
2100	130684	MBRM	E	SB UGR MONITOR	R-01	GDC	54-295N	157-592W sMRTNO3WT
2115	130684	MBRM	B	SB UGR MONITOR	R-02	GDC	54-288N	158-034W sMRTNO3WT
1711	180684	MBRM	E	SB UGR MONITOR	R-02	GDC	54-094N	159-587W sMRTNO3WT
1723	180684	MBRM	B	SB UGR MONITOR	R-03	GDC	54-092N	160-006W sMRTNO3WT
1643	230684	MBRM	E	SB UGR MONITOR	R-03	GDC	53-363N	161-366W sMRTNO3WT
1648	230684	MBRM	B	SB UGR MONITOR	R-04	GDC	53-358N	161-365W sMRTNO3WT
1645	280684	MBRM	E	SB UGR MONITOR	R-04	GDC	52-598N	162-571W sMRTNO3WT
1700	280684	MBRM	B	SB UGR MONITOR	R-05	GDC	52-590N	162-594W sMRTNO3WT
1640	030784	MBRM	E	SB UGR MONITOR	R-05	GDC	53-563N	161-032W sMRTNO3WT
1647	030784	MBRM	B	SB UGR MONITOR	R-06	GDC	53-549N	161-027W sMRTNO3WT
0517	080784	MBRM	E	SB UGR MONITOR	R-06	GDC	54-252N	156-454W sMRTNO3WT
0525	080784	MBRM	B	SB UGR MONITOR	R-07	GDC	54-256N	156-438W sMRTNO3WT
2345	080784	MBRM	E	SB UGR MONITOR	R-07	GDC	55-269N	154-566W sMRTNO3WT

#***SEISMIC REFLECTION, FAST SWEEP***

1755	100684	SPRF	B	SEISMICS-FAST	R-01	GDC	55-334N	155-206W sMRTNO3WT
0820	140684	SPRF	E	SEISMICS-FAST	R-01	GDC	54-127N	158-023W sMRTNO3WT
0835	140684	SPRF	B	SEISMICS-FAST	R-02	GDC	54-107N	158-009W sMRTNO3WT
1726	170684	SPRF	E	SEISMICS-FAST	R-02	GDC	53-557N	159-278W sMRTNO3WT
1735	170684	SPRF	B	SEISMICS-FAST	R-03	GDC	53-545N	159-273W sMRTNO3WT
0340	210684	SPRF	E	SEISMICS-FAST	R-03	GDC	53-556N	160-473W sMRTNO3WT
0345	210684	SPRF	B	SEISMICS-FAST	R-04	GDC	53-563N	160-474W sMRTNO3WT
0830	240684	SPRF	E	SEISMICS-FAST	R-04	GDC	53-464N	161-516W sMRTNO3WT
0840	240684	SPRF	B	SEISMICS-FAST	R-05	GDC	53-479N	161-521W sMRTNO3WT
1200	270684	SPRF	E	SEISMICS-FAST	R-05	GDC	53-363N	162-509W sMRTNO3WT
1206	270684	SPRF	B	SEISMICS-FAST	R-06	GDC	53-354N	162-507W sMRTNO3WT
2153	300684	SPRF	E	SEISMICS-FAST	R-06	GDC	53-372N	163-465W sMRTNO3WT

#***SEISMIC REFLECTION, SLOW SWEEP***

1755	100684	SPRS	B	SEISMICS-SLOW	R-01	GDC	55-334N	155-206W sMRTNO3WT
0845	140684	SPRS	E	SEISMICS-SLOW	R-01	GDC	54-094N	157-598W sMRTNO3WT
0855	140684	SPRS	B	SEISMICS-SLOW	R-02	GDC	54-080N	157-588W sMRTNO3WT
1721	170684	SPRS	E	SEISMICS-SLOW	R-02	GDC	53-564N	159-281W sMRTNO3WT
1726	170684	SPRS	B	SEISMICS-SLOW	R-03	GDC	53-557N	159-278W sMRTNO3WT
0343	210684	SPRS	E	SEISMICS-SLOW	R-03	GDC	53-560N	160-473W sMRTNO3WT
0352	210684	SPRS	B	SEISMICS-SLOW	R-04	GDC	53-573N	160-477W sMRTNO3WT
0415	240684	SPRS	E	SEISMICS-SLOW	R-04	GDC	53-237N	161-401W sMRTNO3WT
0420	240684	SPRS	B	SEISMICS-SLOW	R-05	GDC	53-231N	161-399W sMRTNO3WT
0140	280684	SPRS	E	SEISMICS-SLOW	R-05	GDC	53-145N	162-527W sMRTNO3WT
0210	280684	SPRS	B	SEISMICS-SLOW	R-06	GDC	53-105N	162-517W sMRTNO3WT
2153	300684	SPRS	E	SEISMICS-SLOW	R-06	GDC	53-372N	163-465W sMRTNO3WT

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#***SINGLE CHANNEL SEISMIC REFLECTION***

2100	100684	SPSL	B	S.C.S. TAPES 1-58	LDO 55-181N 155-533W	sMRTN03WT
2155	300684	SPSL	E	S.C.S. TAPES 1-58	LDO 53-373N 163-465W	sMRTN03WT

#***MAGNETICS***

0613	100684	MGRA	B	MAGNETICS ANALOG R-1	GDC 56-578N 152-417W	sMRTN03WT
2320	110684	MGRA	E	MAGNETICS ANALOG R-1	GDC 54-215N 156-218W	sMRTN03WT
2330	110684	MGRA	B	MAGNETICS ANALOG R-2	GDC 54-202N 156-207W	sMRTN03WT
0106	220684	MGRA	E	MAGNETICS ANALOG R-2	GDC 53-496N 161-072W	sMRTN03WT
0115	220684	MGRA	B	MAGNETICS ANALOG R-3	GDC 53-484N 161-067W	sMRTN03WT
1215	030684	MGRA	E	MAGNETICS ANALOG R-3	GDC 57-436N 152-189W	sMRTN03WT
1600	030684	MGRA	B	MAGNETICS ANALOG R-4	GDC 57-436N 152-189W	sMRTN03WT
0000	090784	MGRA	E	MAGNETICS ANALOG R-4	GDC 55-386N 154-402W	sMRTN03WT

#***FATHOMETER***

2108	100684	DPRT	B	3.5 KHZ UGR R-01	GDC 55-173N 155-548W	sMRTN03WT
0229	110684	DPRT	E	3.5 KHZ UGR R-01	GDC 54-430N 156-166W	sMRTN03WT
0235	110684	DPRT	B	3.5 KHZ UGR R-02	GDC 54-418N 156-159W	sMRTN03WT
0645	110684	DPRT	E	3.5 KHZ UGR R-02	GDC 54-269N 156-092W	sMRTN03WT

END SAMPLE INDEX
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