INFORMAL REPORT AND INDEX OF

NAVIGATION, DEPTH, MAGNETIC AND SUBBOTTOM PROFILER DATA

(Issued June 1985)

MARATHON EXPEDITION

LEG 6

Pago Pago, Samoa (23 August 1984)
to
Mar del Plata, Argentina (26 September 1984)

R/V Washington

Chief Scientist - P. Lonsdale

Resident Marine Tech - R. Comer

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

Data Collection and Processing funded by ONR
Contract Number N00014-80-C-0440

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.

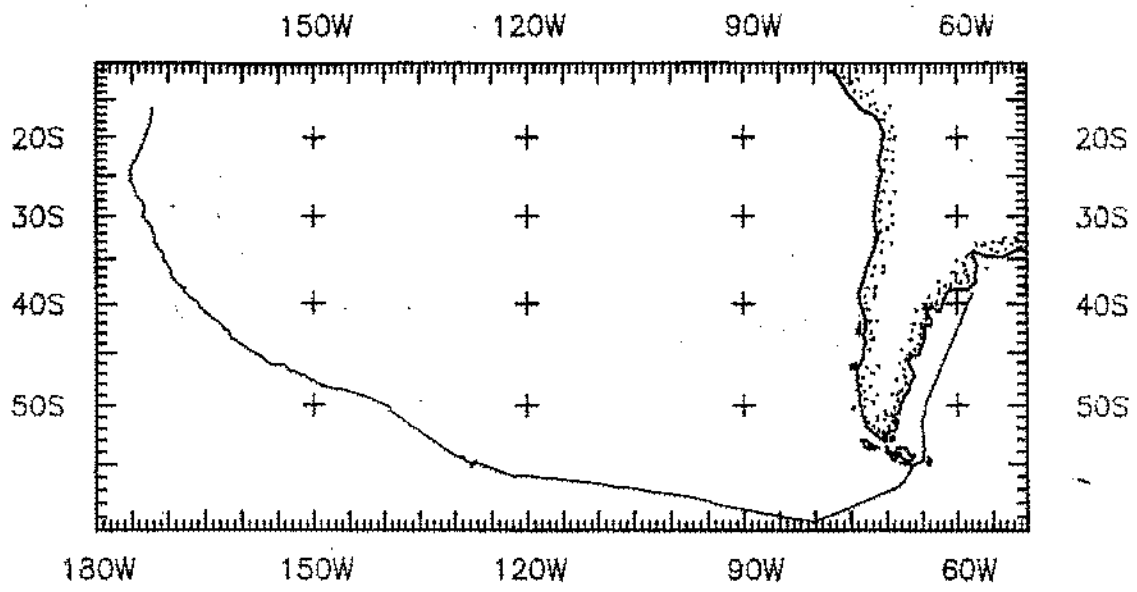
1) Archive contour copy of contour swath books generated in real time on board ship available for inspection at the Data Center.

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

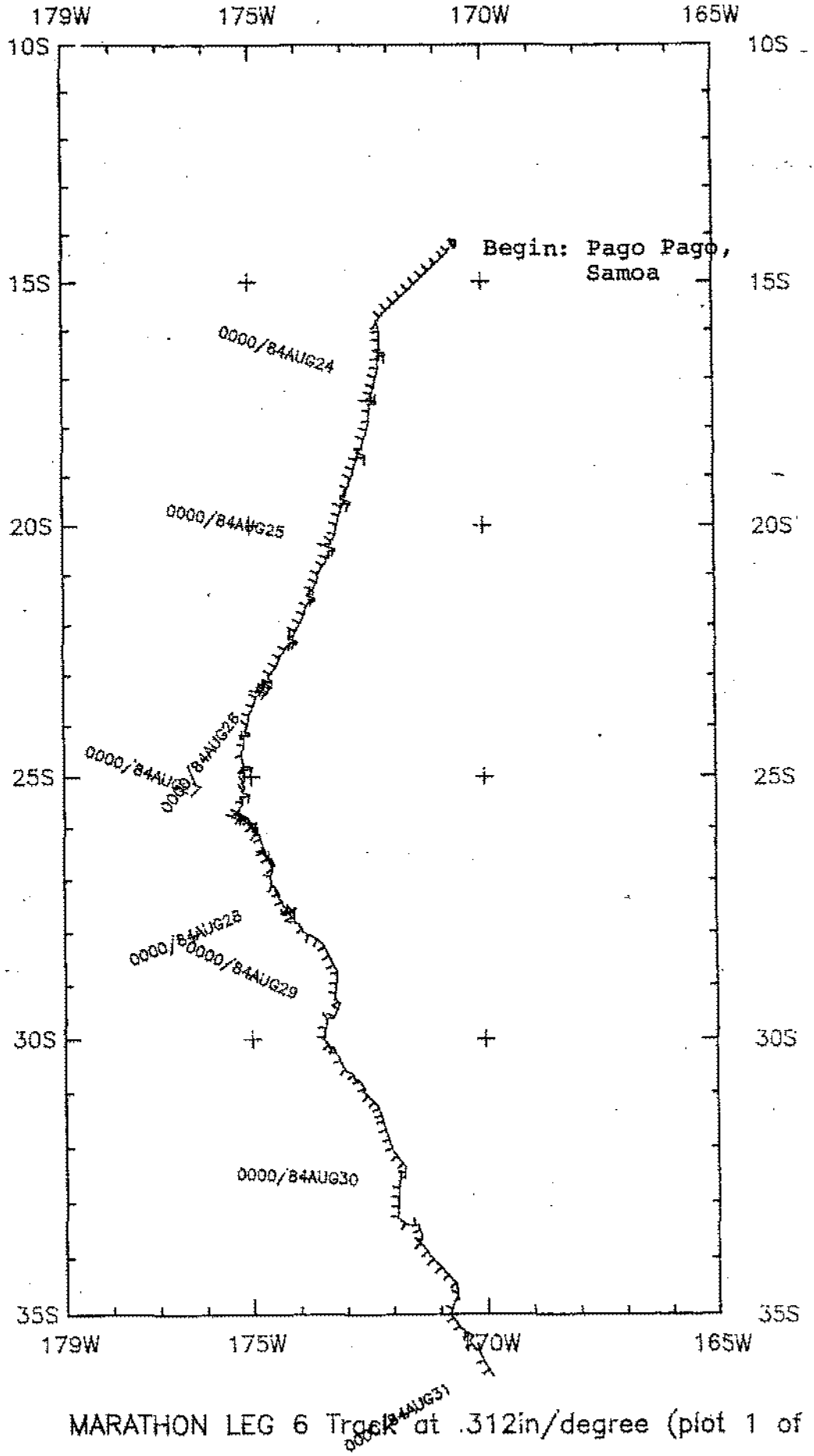


MARATHON LEG 6 Track at .0375in/degree

MARATHON EXPEDITION
LEG 6

CHIEF SCIENTIST: P. Lonsdale
PORTS: Pago Pago, Samoa - Mar del Plata, Argentina
DATES: 23 August - 26 September 1984
SHIP: R/V Washington

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED
1) Cruise - 8304 miles
2) Bathymetry - 6903 miles
3) Magnetics - 7723 miles
4) Seismic Reflection - 4744 miles
5) Gravity - 1800 miles
6) Sea Beam - 6903 miles



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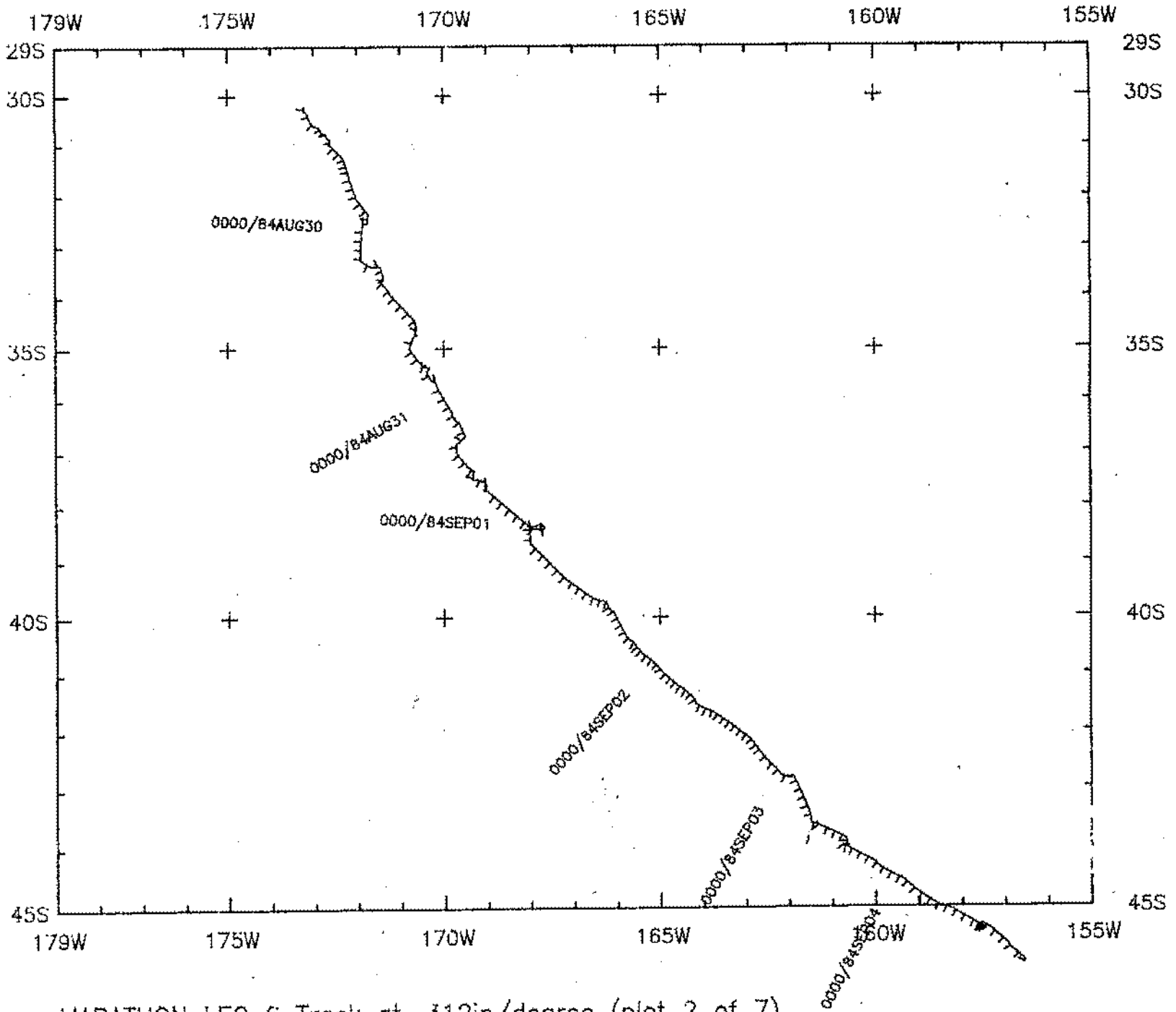
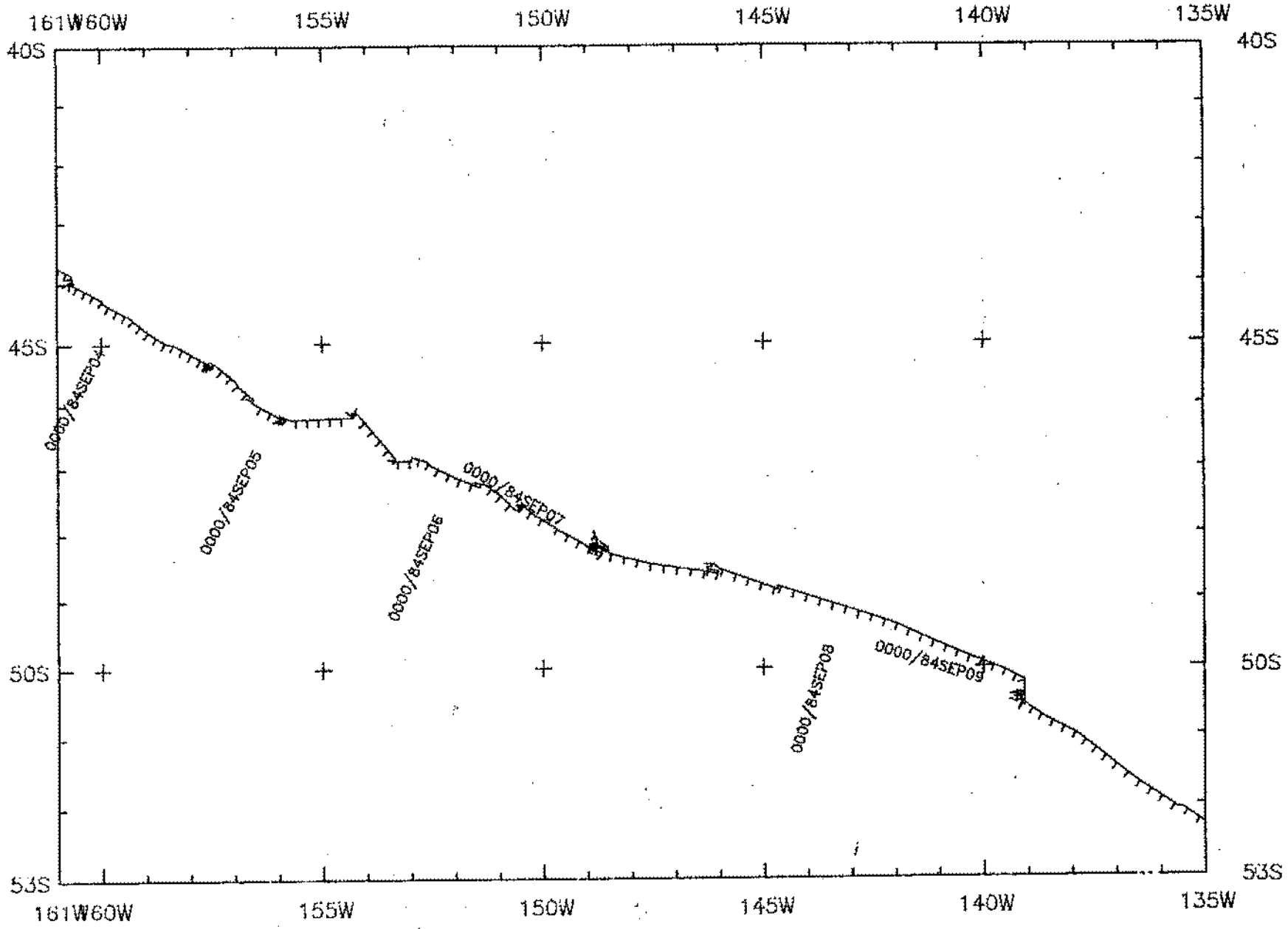


MARATHON LEG 6 Track at .312in/degree (plot 2 of 7)



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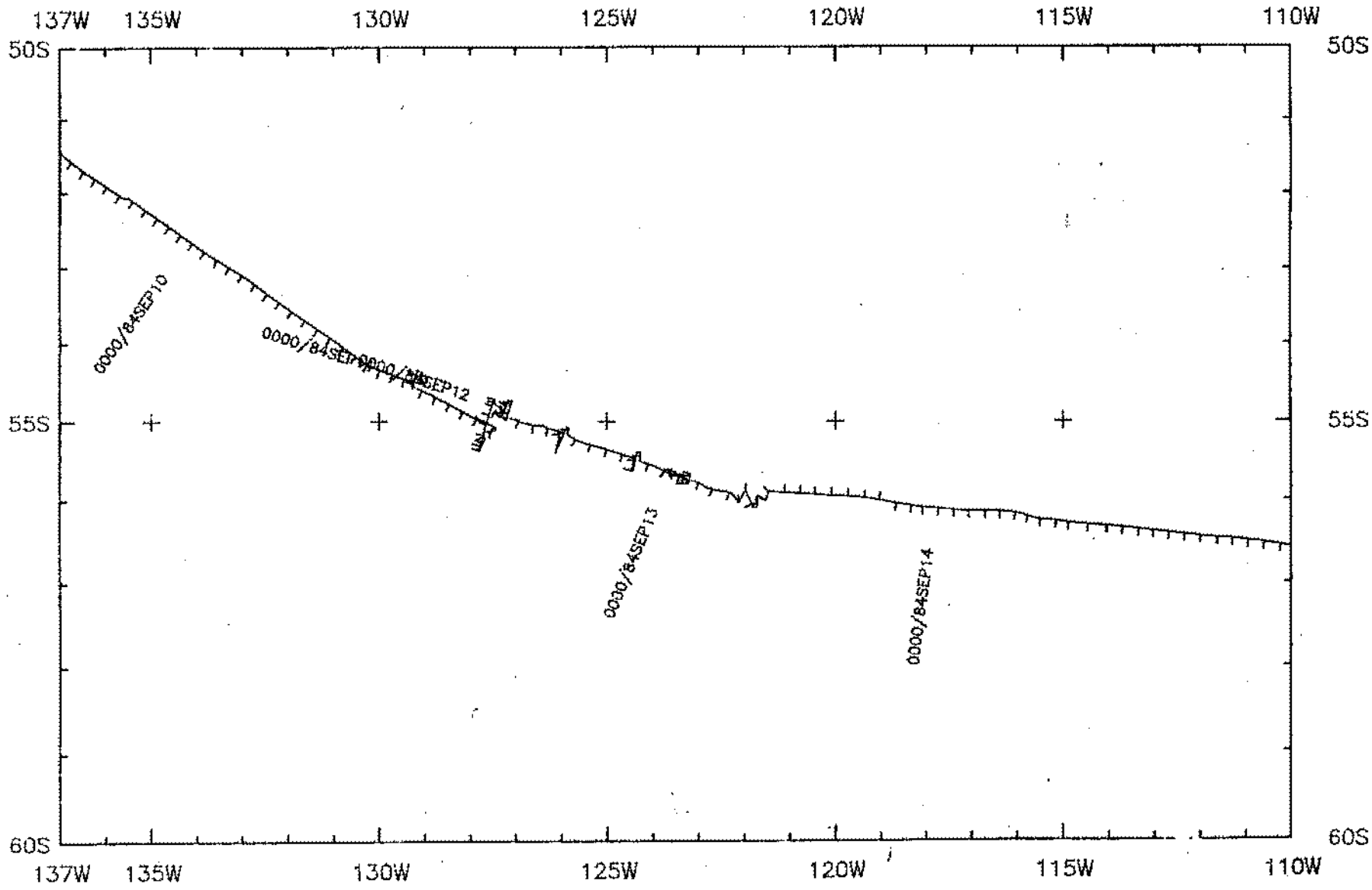
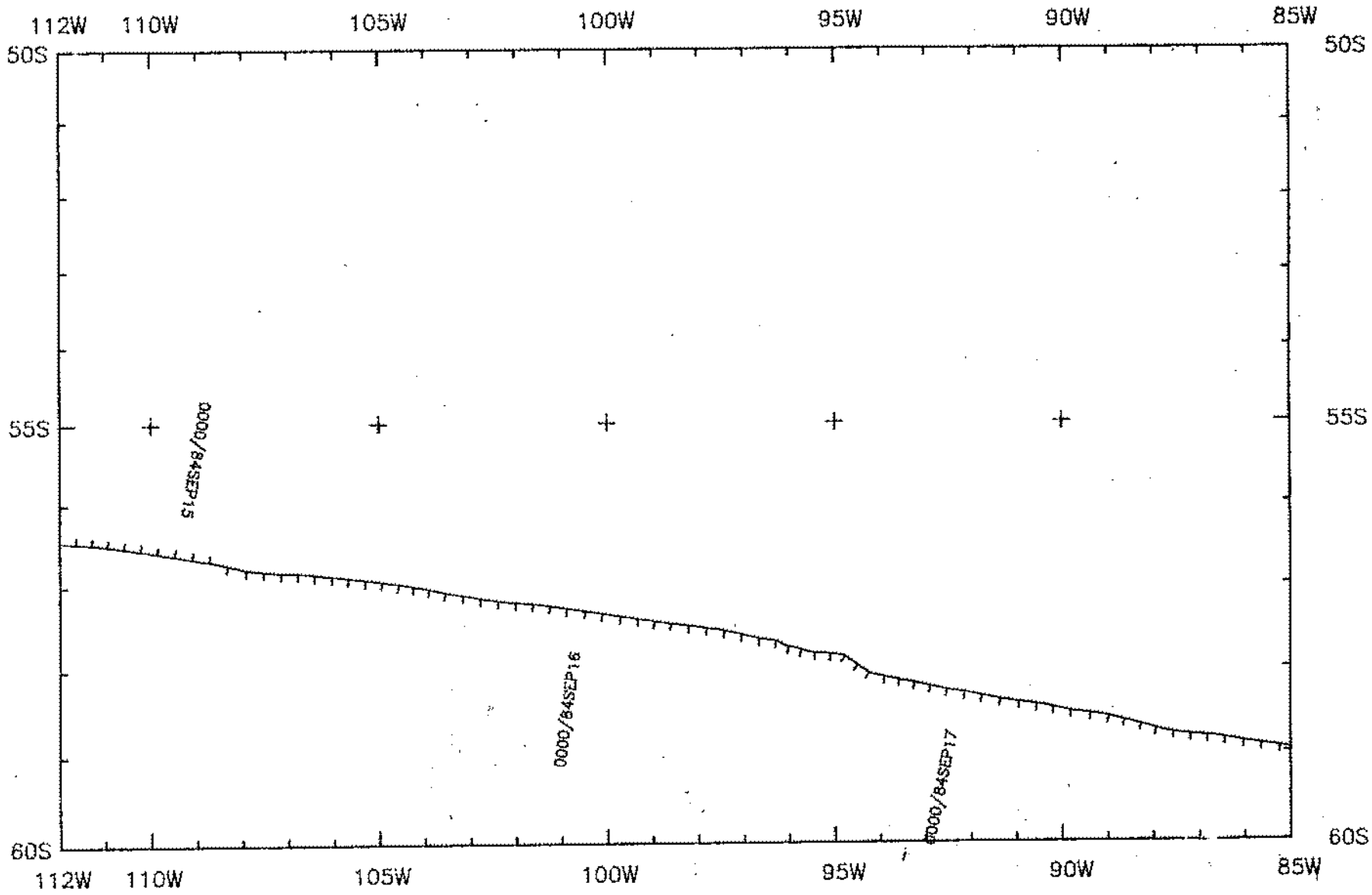


MARATHON LEG 6 Track at .312in/degree (plot 4 of 7)



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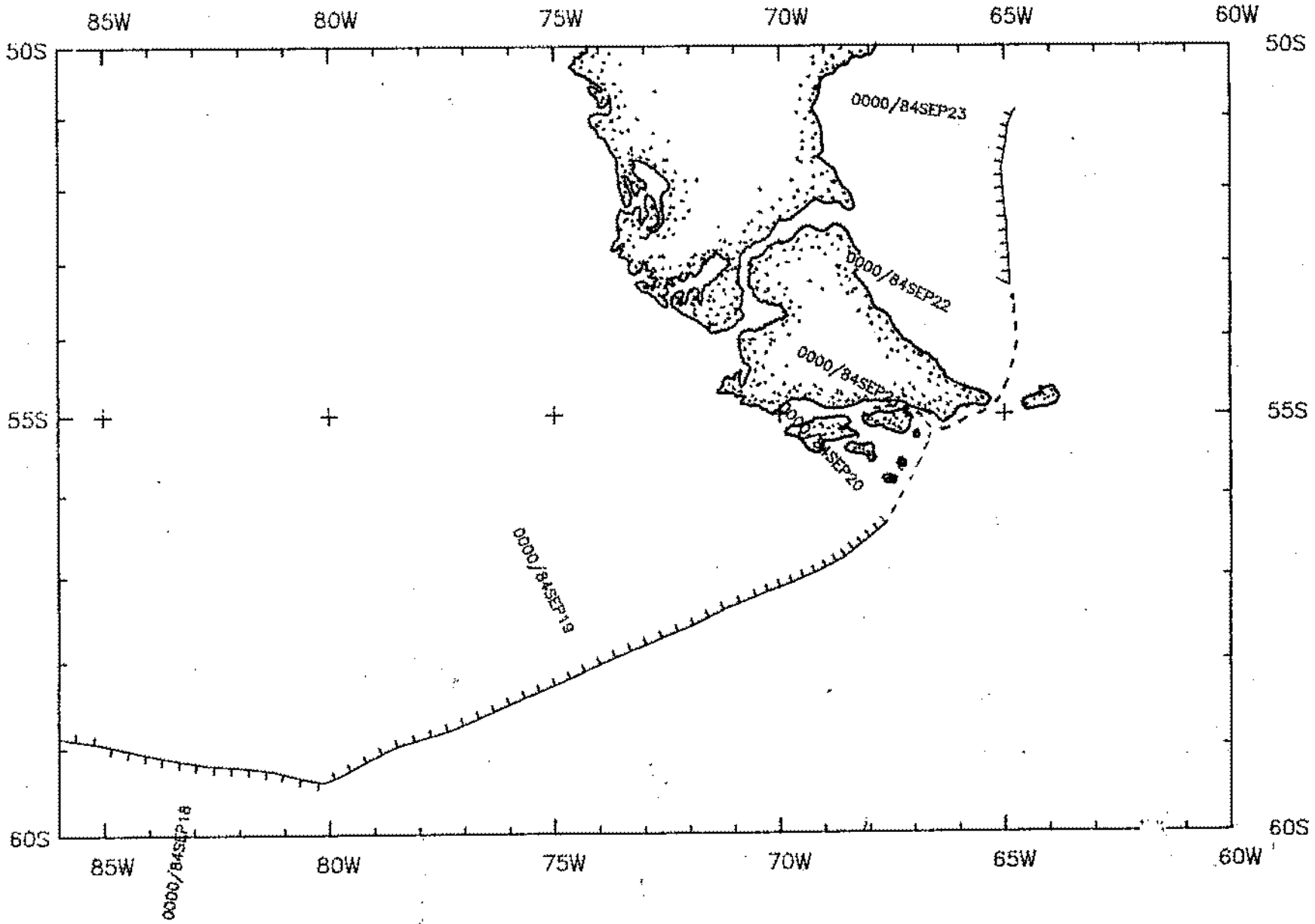

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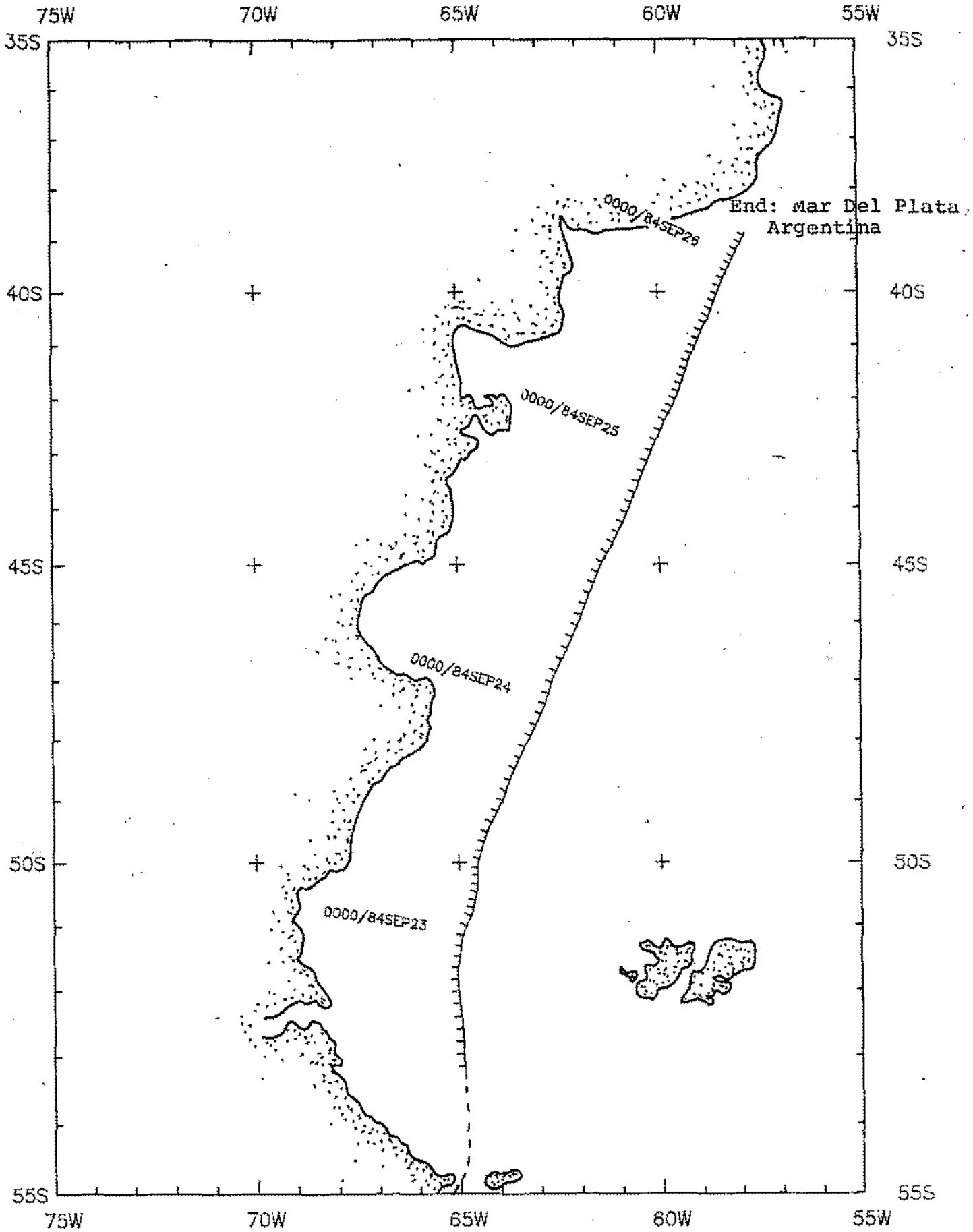

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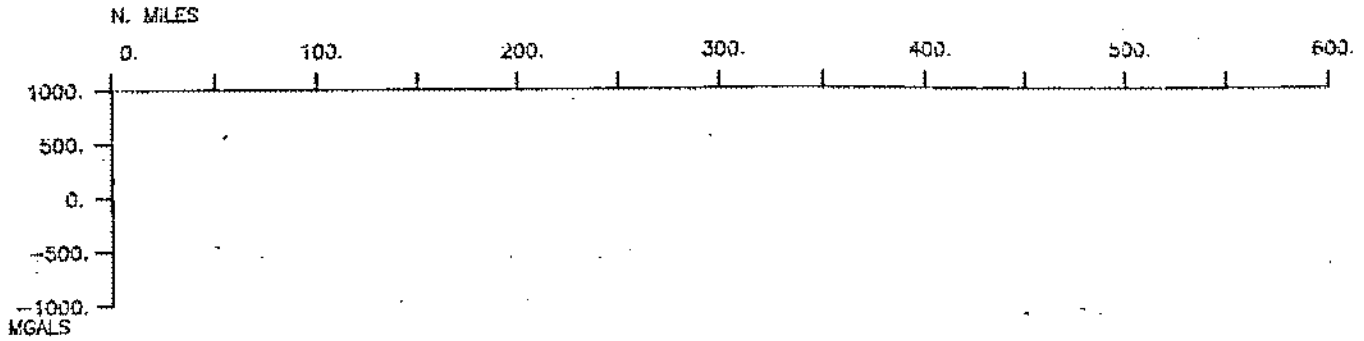
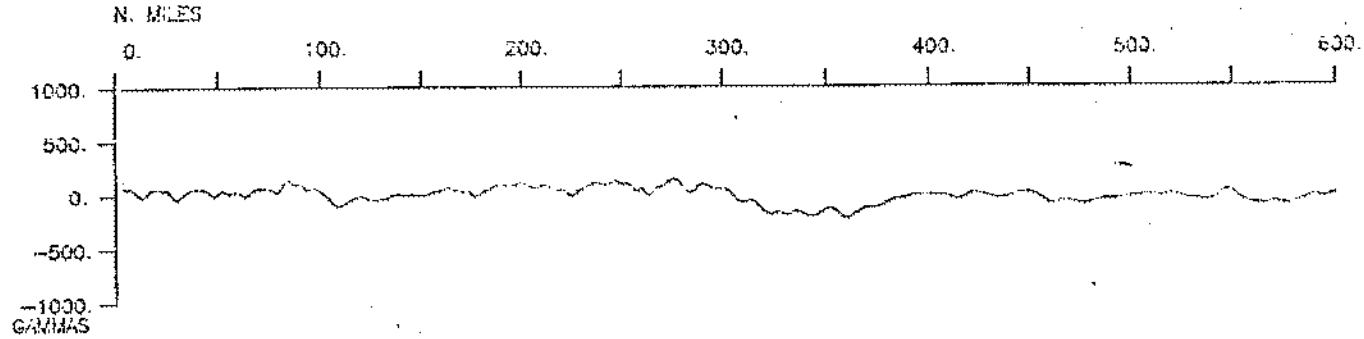
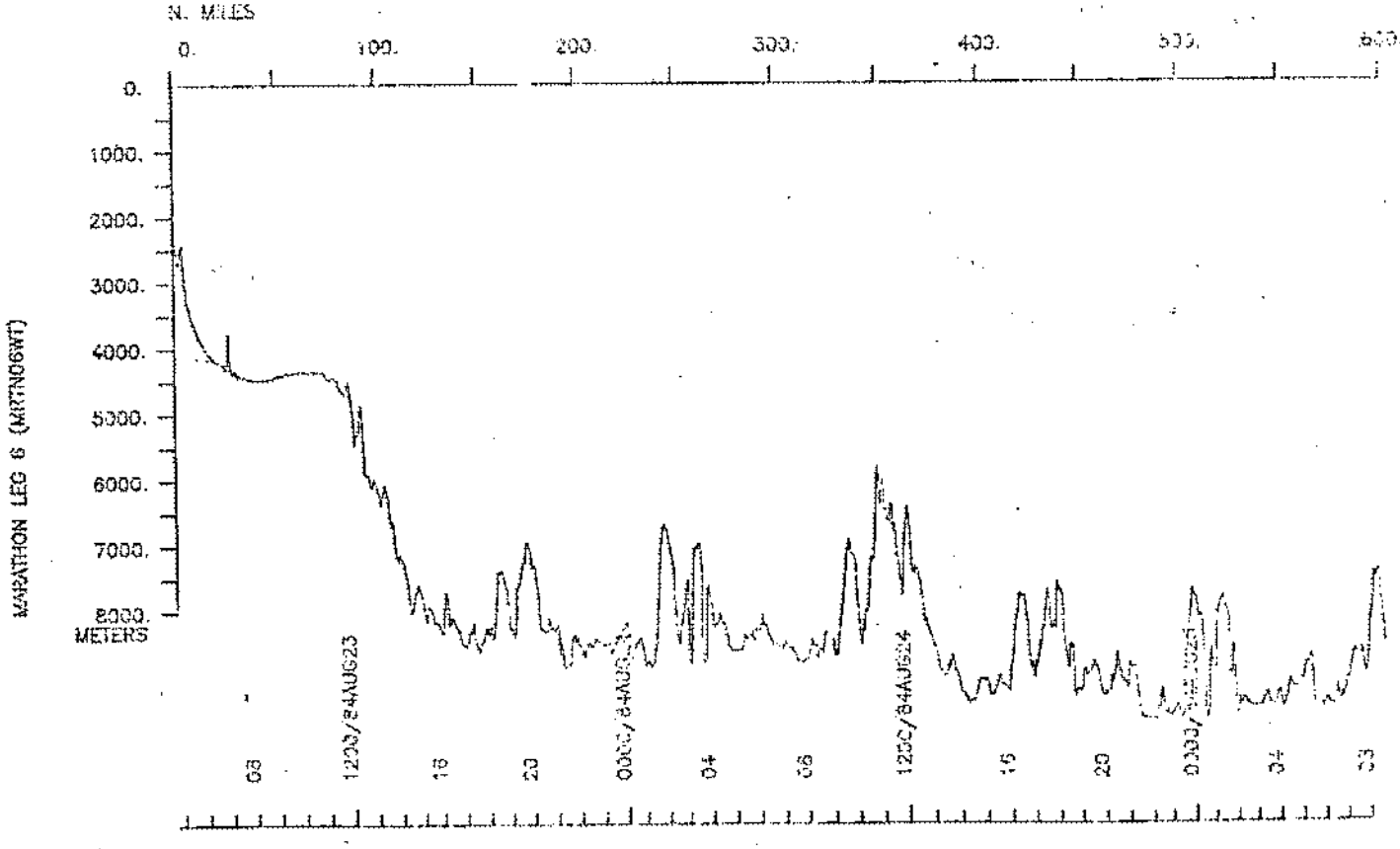
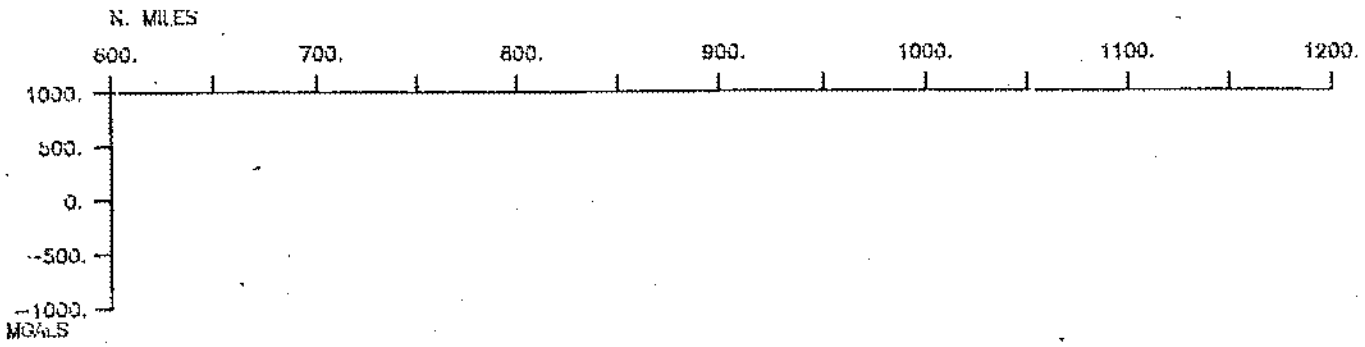






SEISMICS

SEABEAM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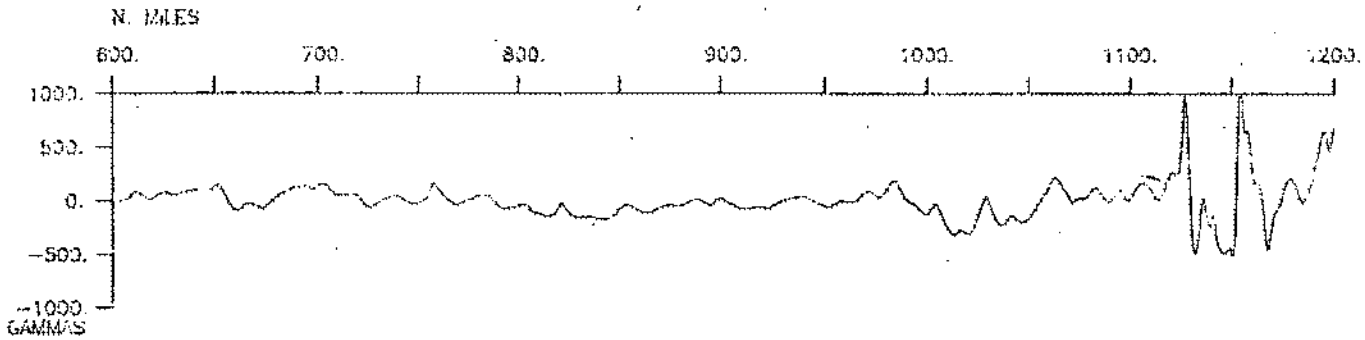
-1000.
MGALS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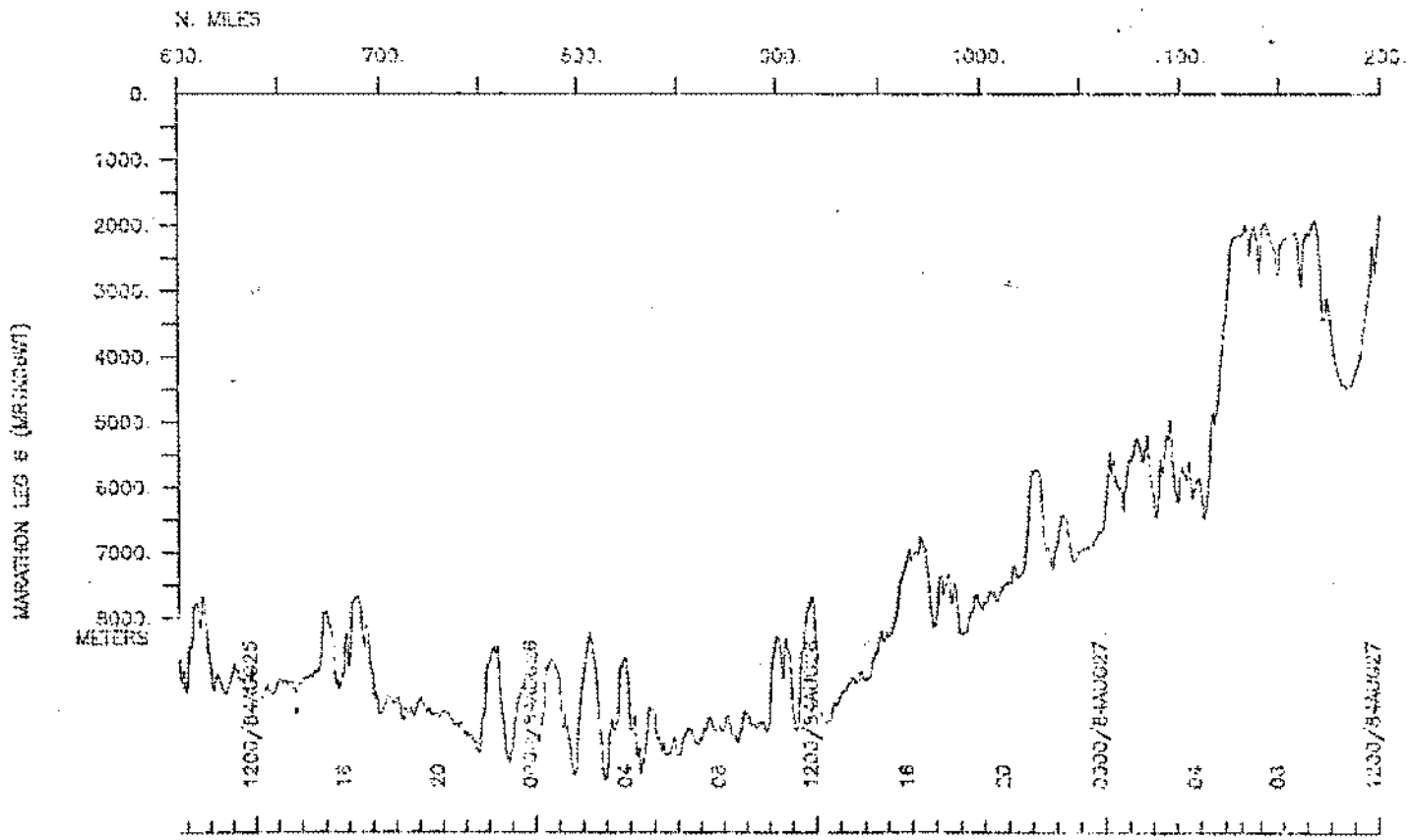
GAMMAS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METERS
MARATHON LEG 6 (MR1A06W1)
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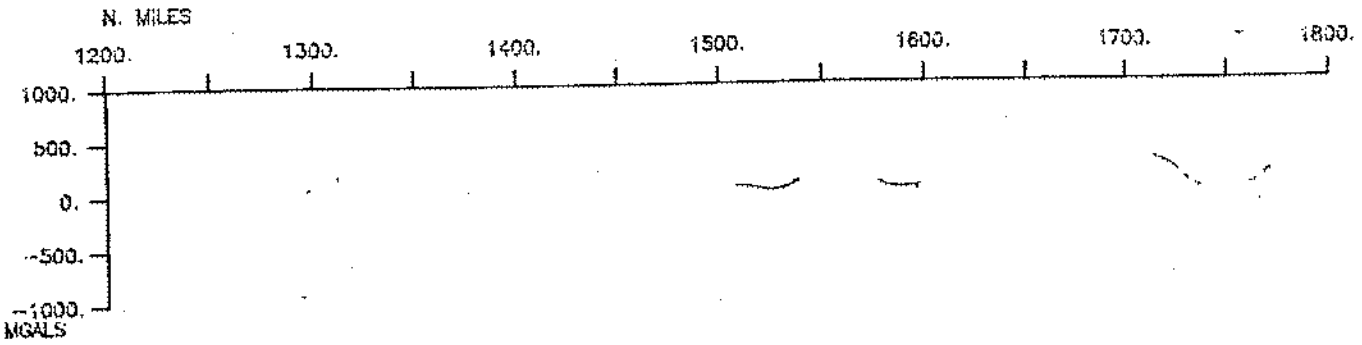
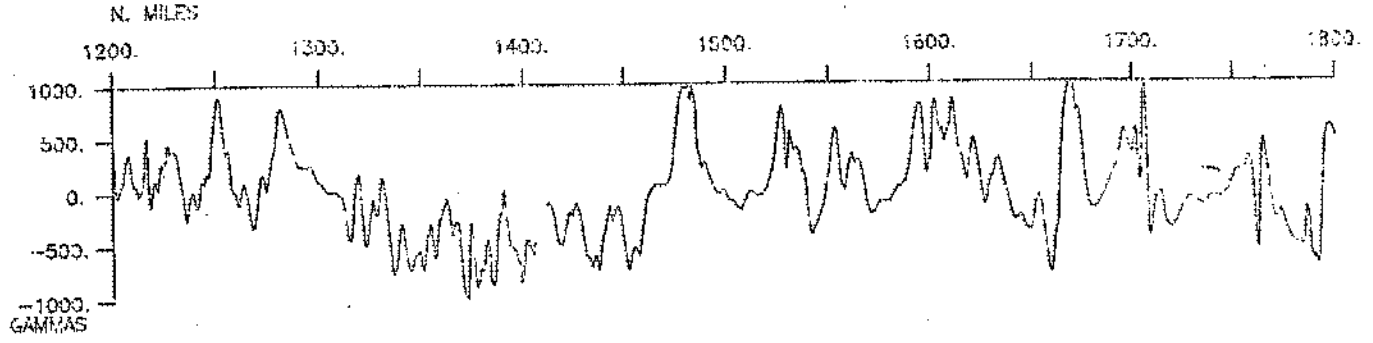
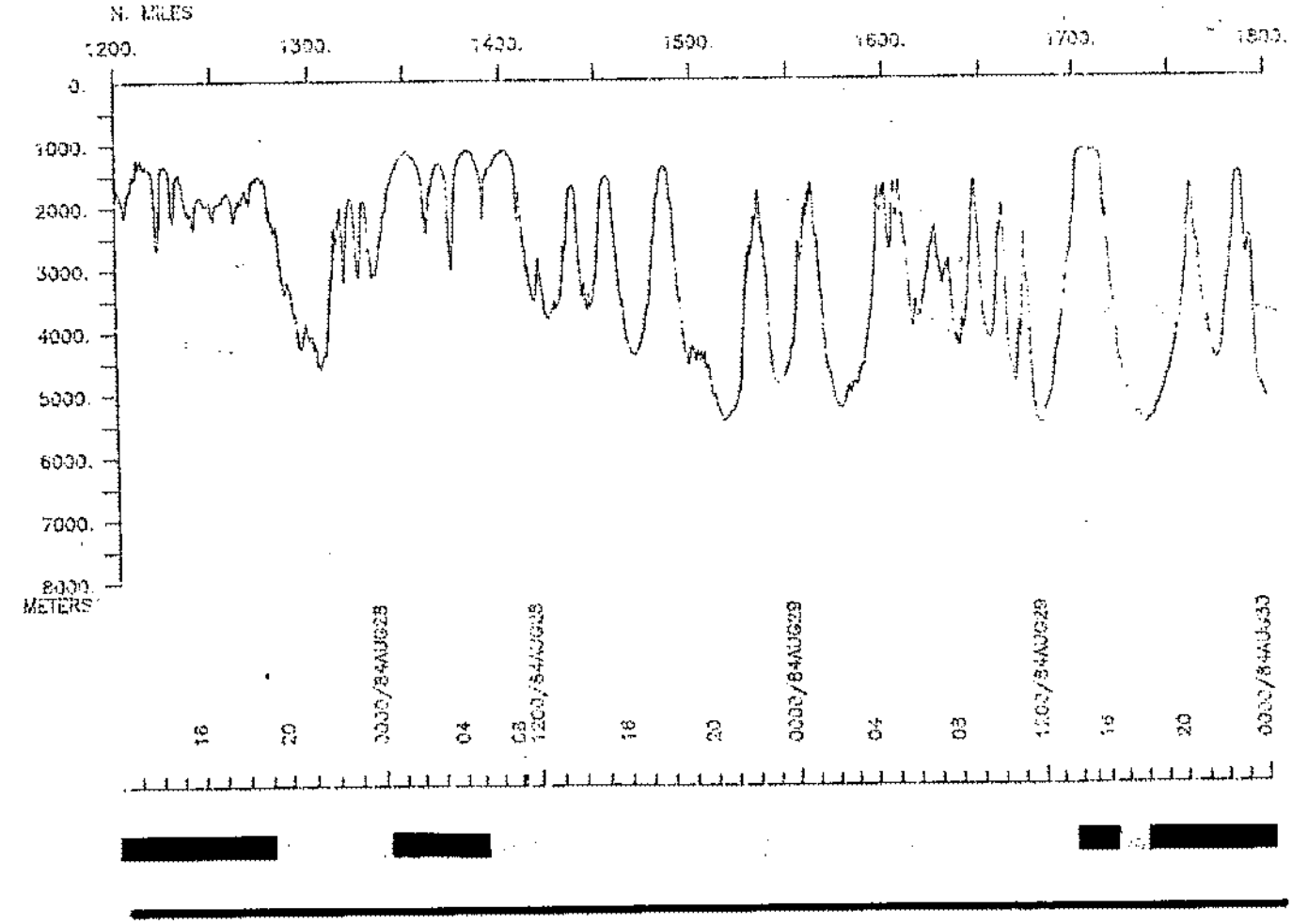
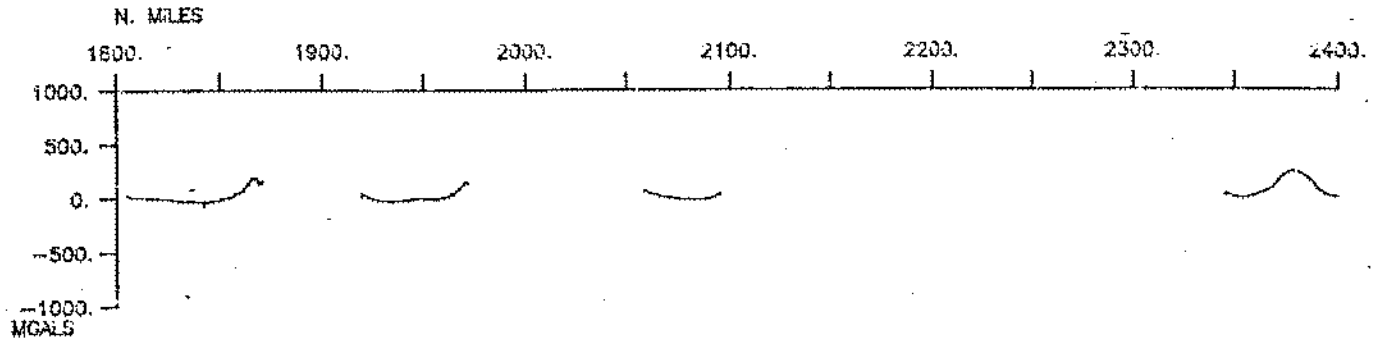
16
20
0300/8AUG27
04
08
1230/8AUG27







MARATHON LEG 6 (MARINOWI)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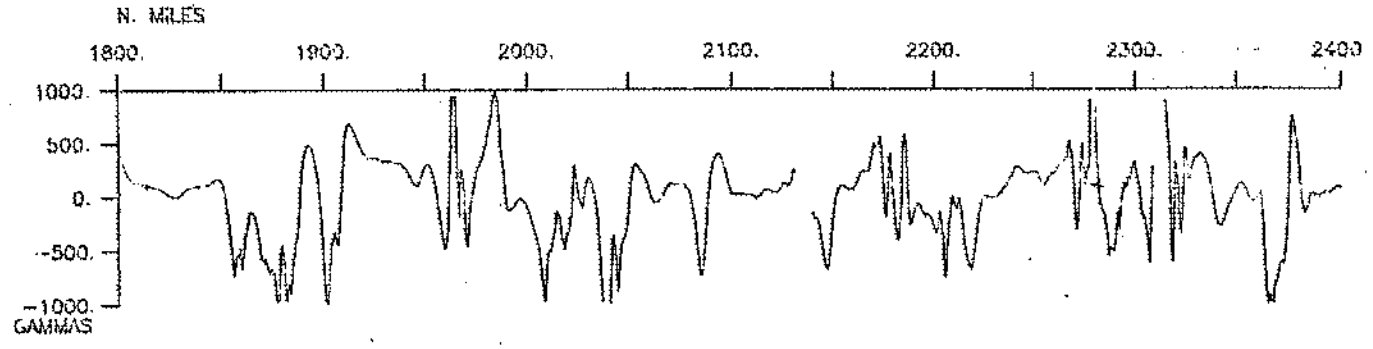
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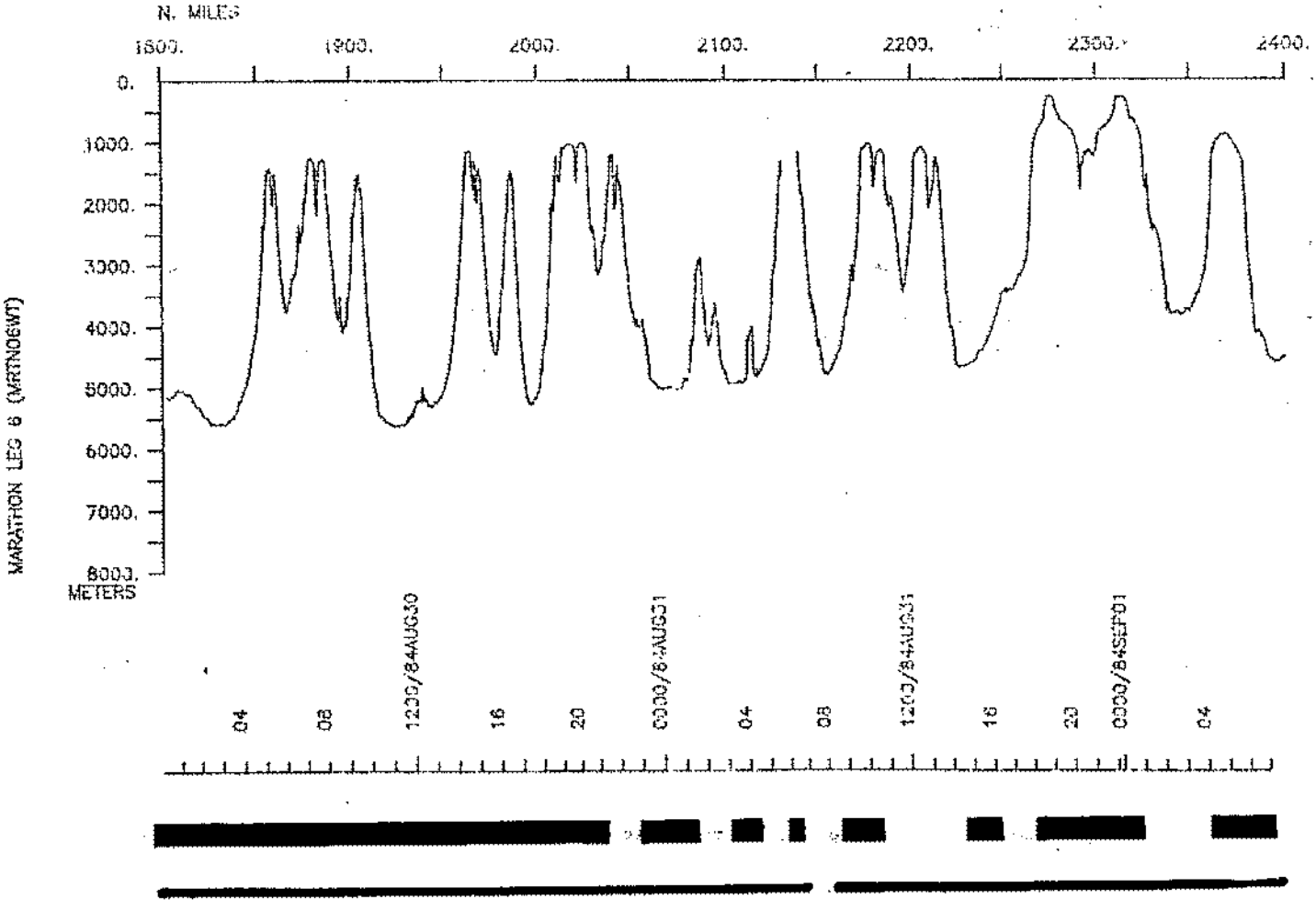
GAMMAS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2000.
2100.
2200.
2300.
2400.
0.
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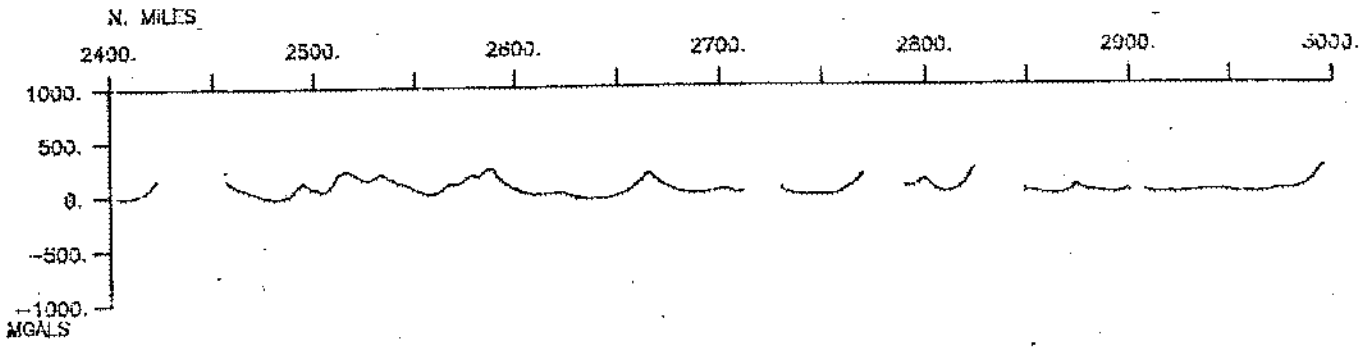
2000.
3000.
4000.
5000.
6000.
7000.
8000.
METERS
MARATHON LEG 6 (MRTN06WT)
04
08
1230/84AUG30
16
20
0030/84AUG31
04
08
1200/84AUG31
16
20
0030/84SEP01
04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2800.
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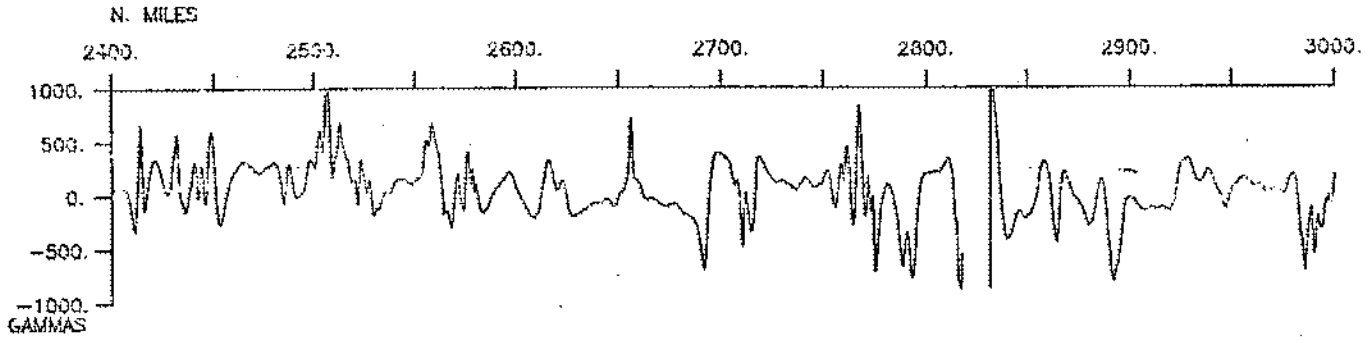
MGALS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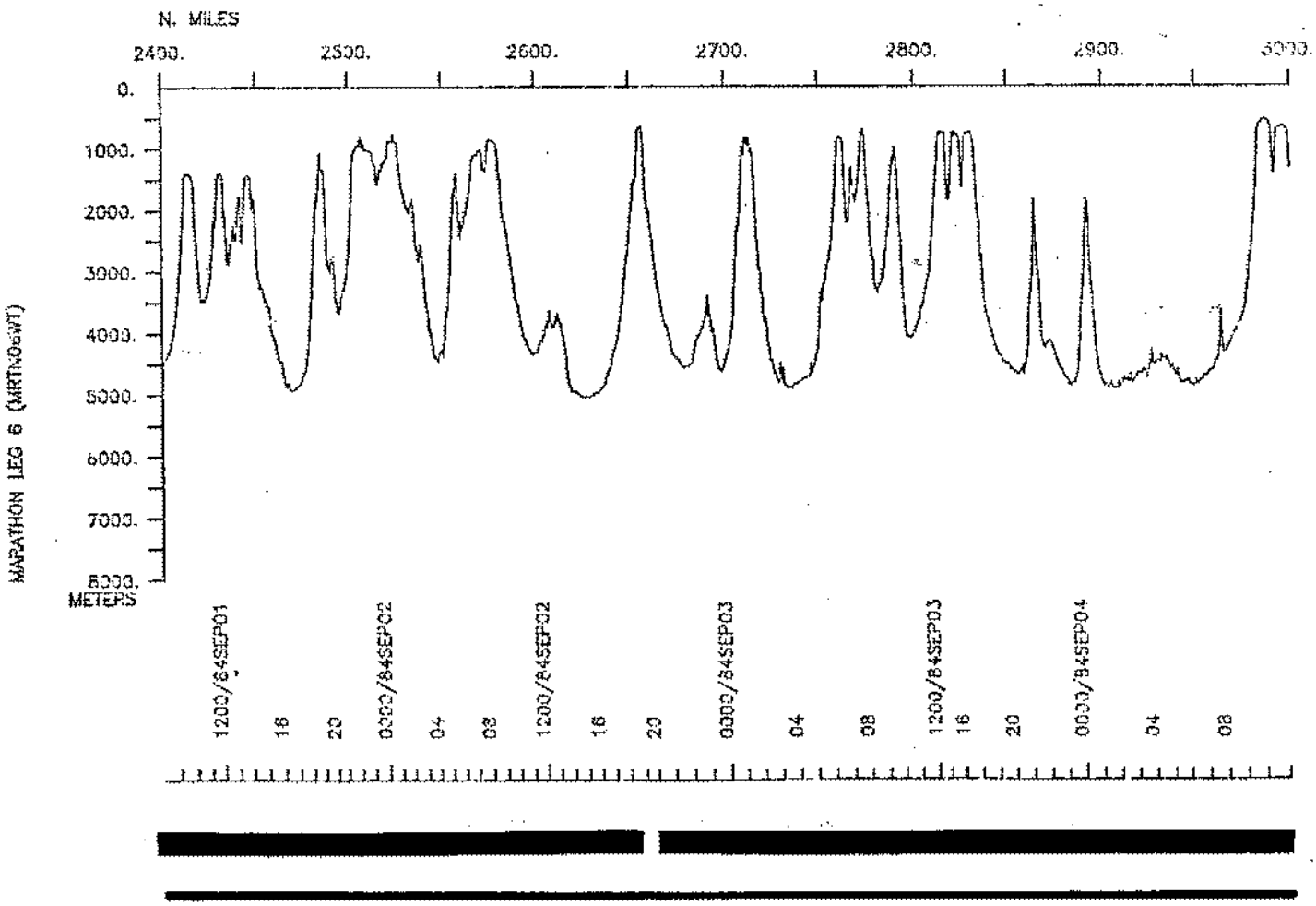
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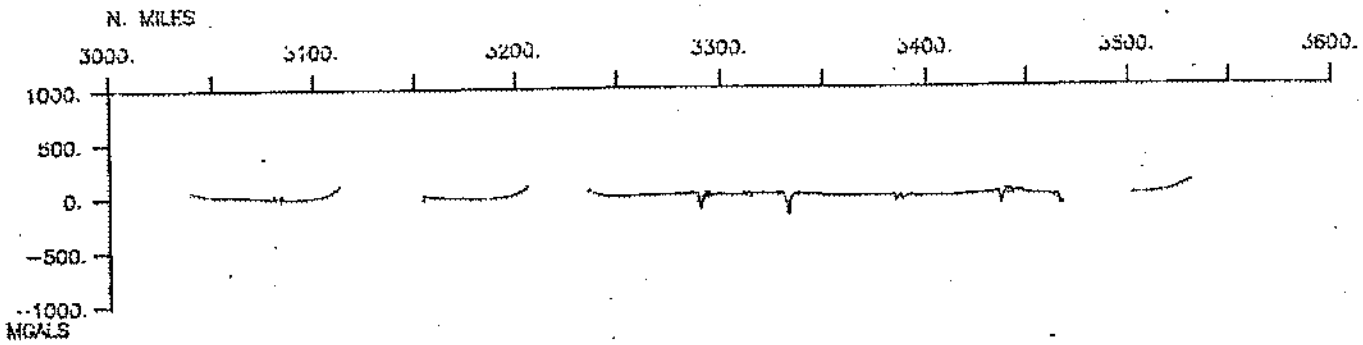
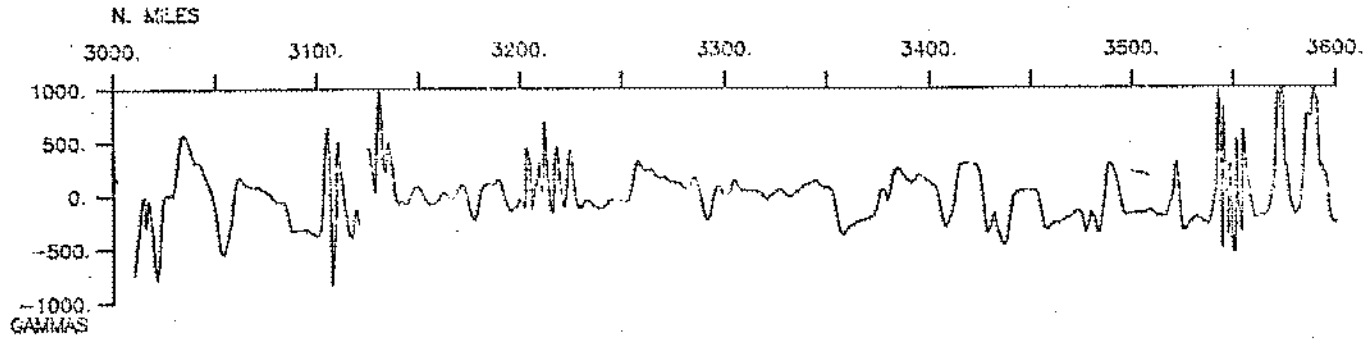
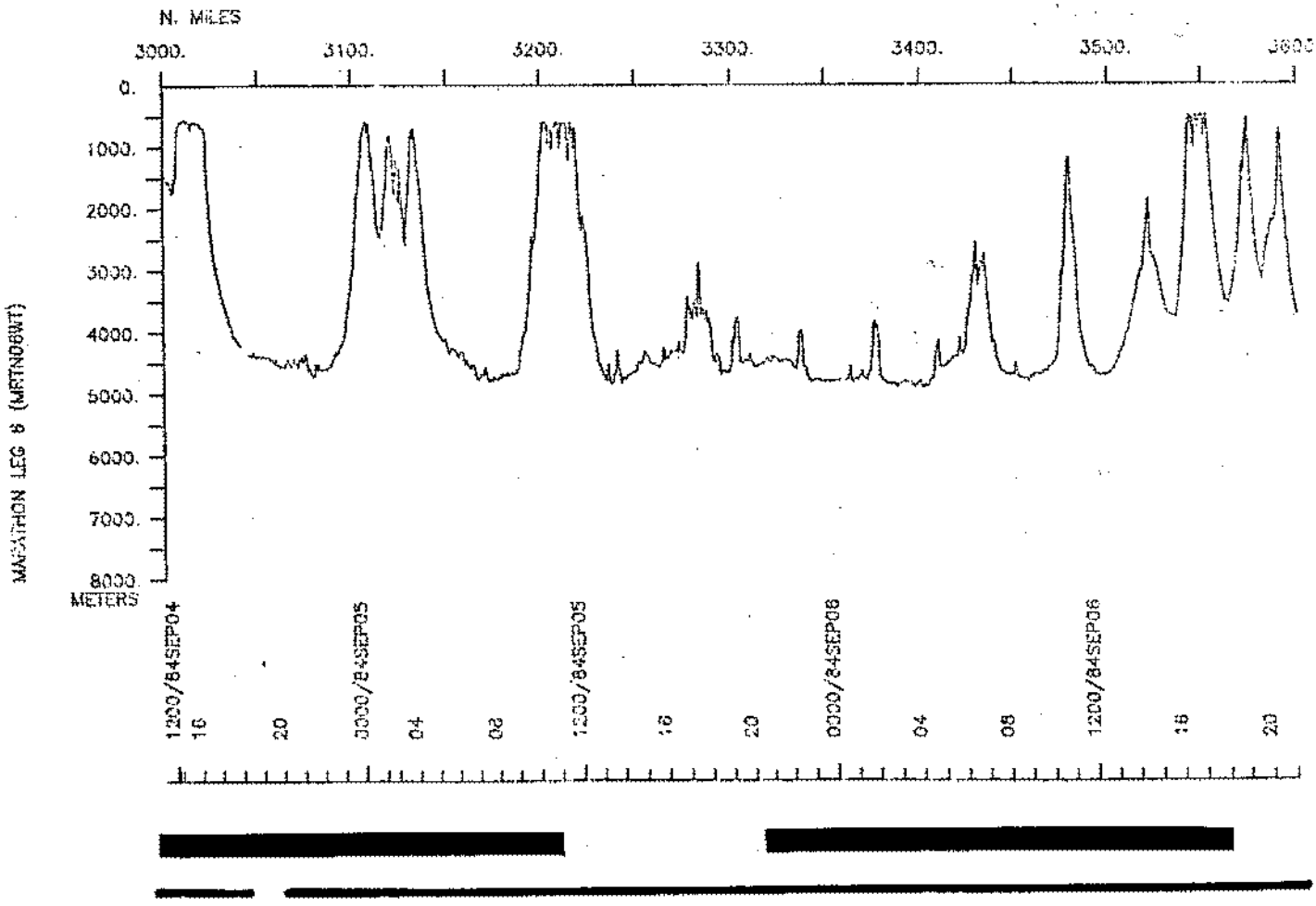
2500.
2600.
2700.
2800.
2900.
3000.
0.
1000.
2000.
3000.
4000.
5000.
6000.
7000.
8000.
METERS
MARATHON LEG 6 (MRTN06WT)
1200/84SEP01
16
20
0000/84SEP02
04
08
1200/84SEP02
16
20
0000/84SEP03
04
08
1200/84SEP03
16
20
0000/84SEP04
04
08







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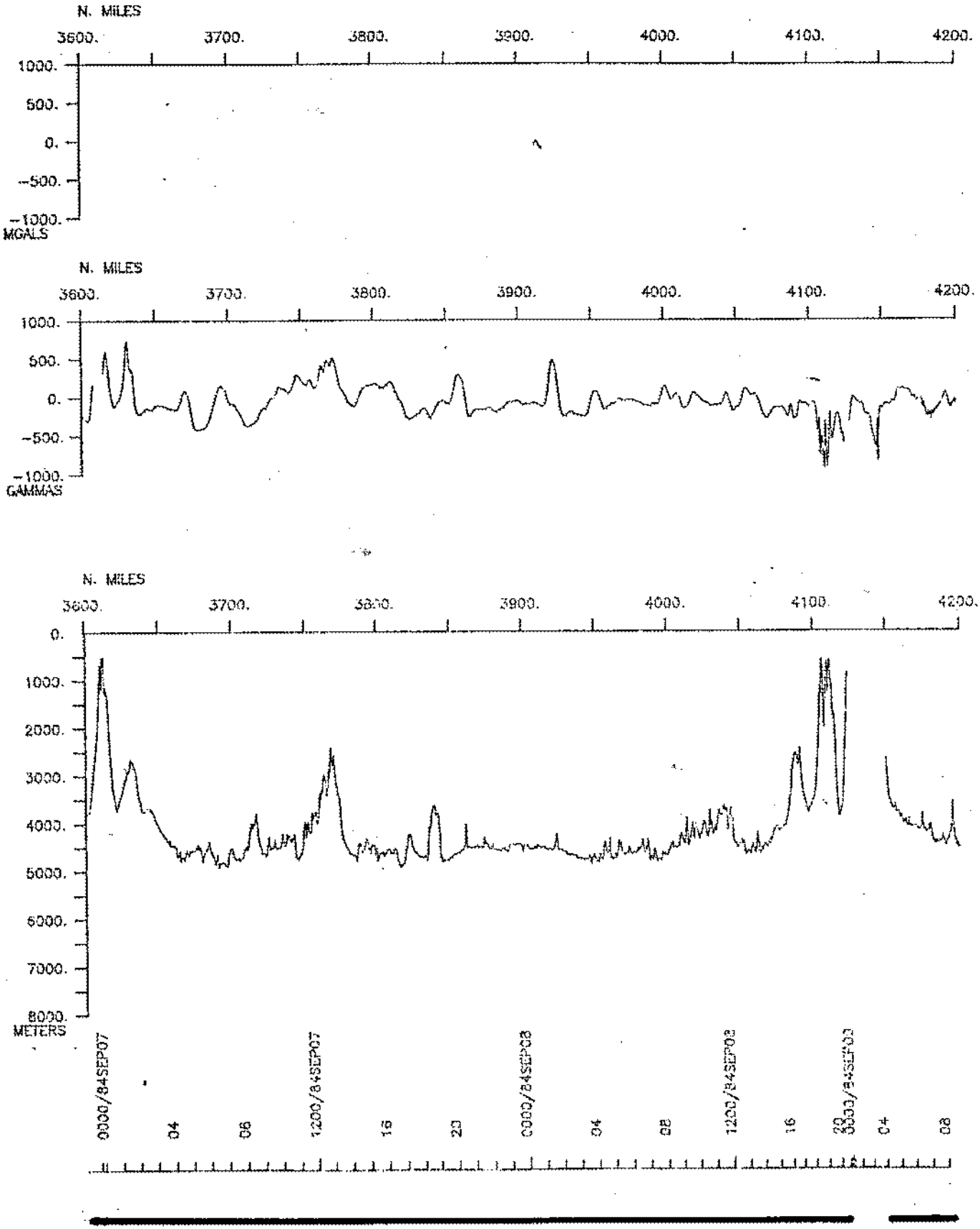
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-1000.
MGALS
N. MILES
3600.
3700.
3800.
3900.
4000.
4100.
4200.
1000.
500.
0.
-500.
-1000.
GAMMAS
N. MILES
3600.
3700.
3800.
3900.
4000.
4100.
4200.
0.
1000.
2000.
3000.
4000.
5000.
6000.
7000.
8000.
METERS
MARATHON LEG 6 (MRTN06VT)
0000/84SEP07
04
08
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20
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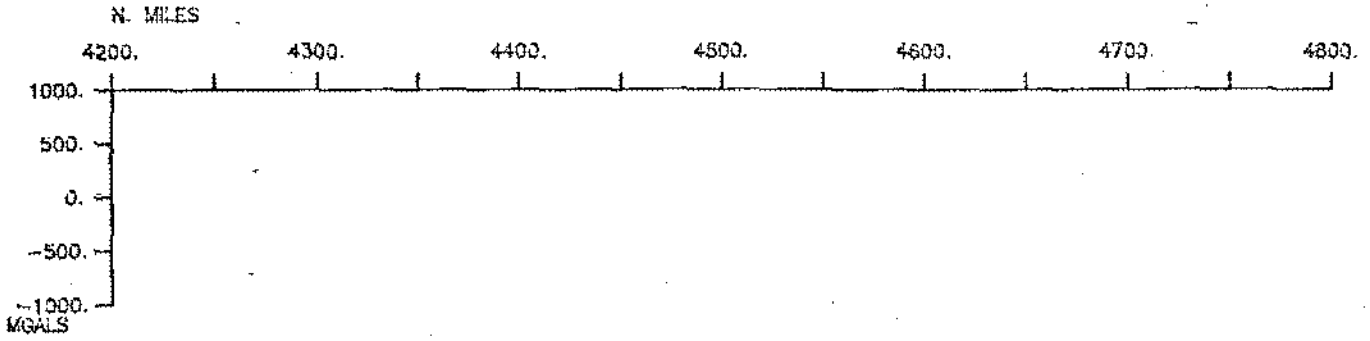
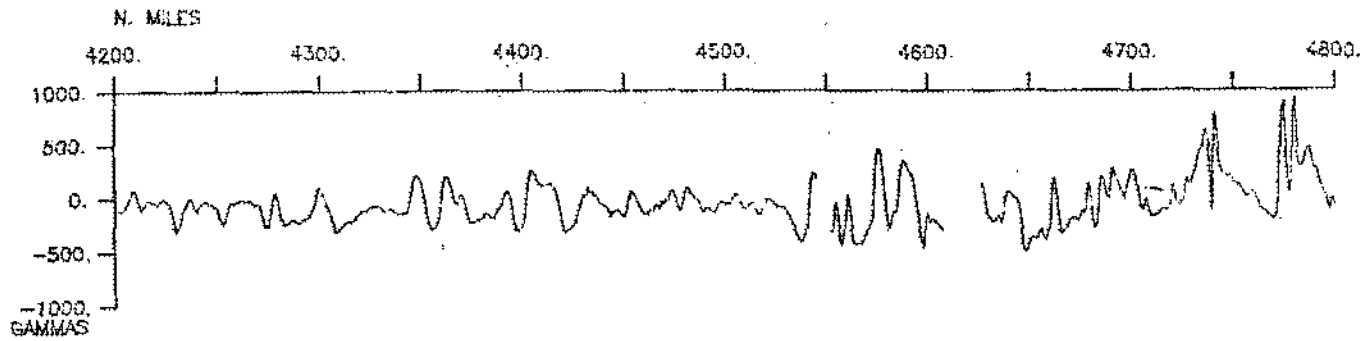
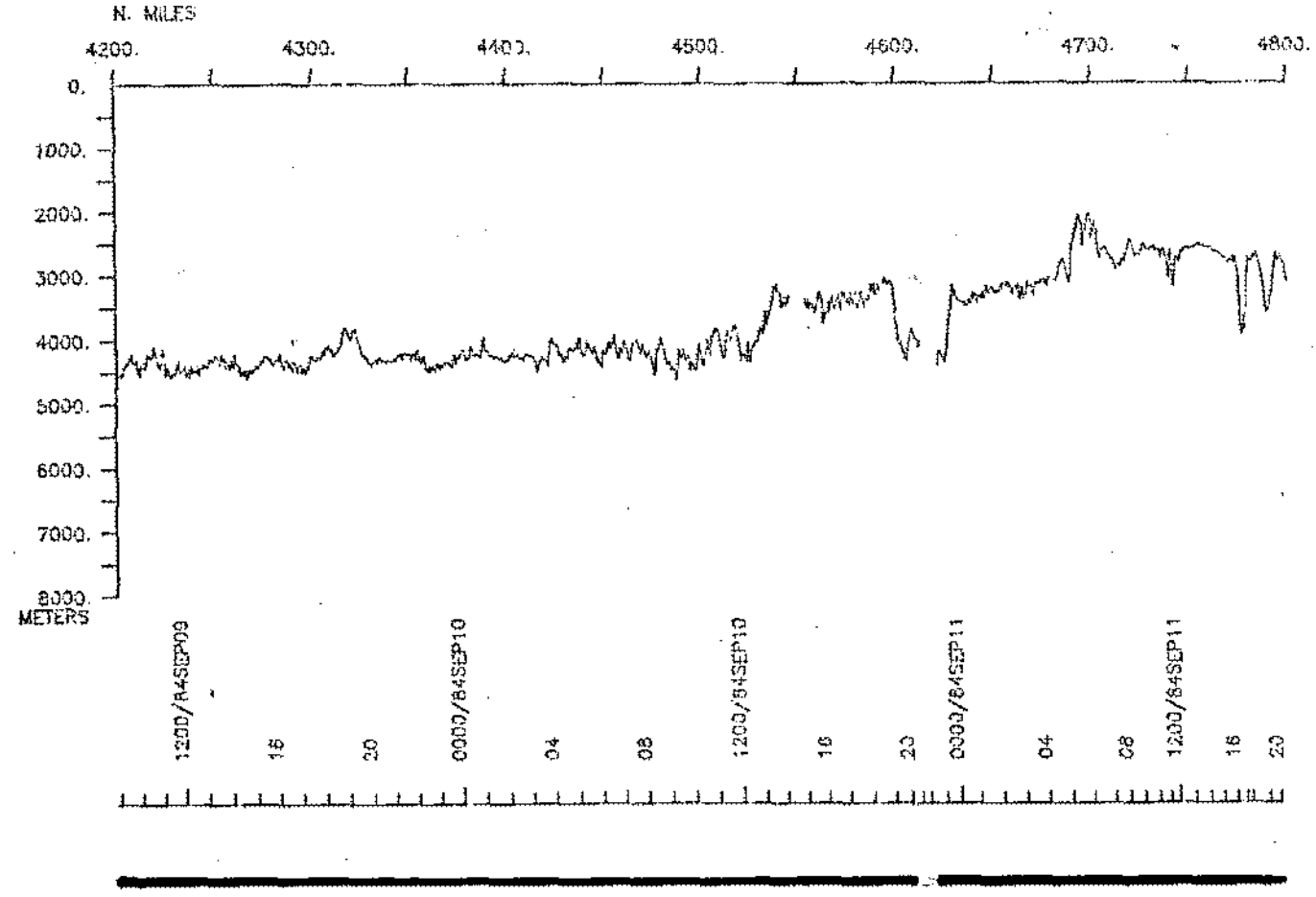
16
20
0000/84SEP09
04
08







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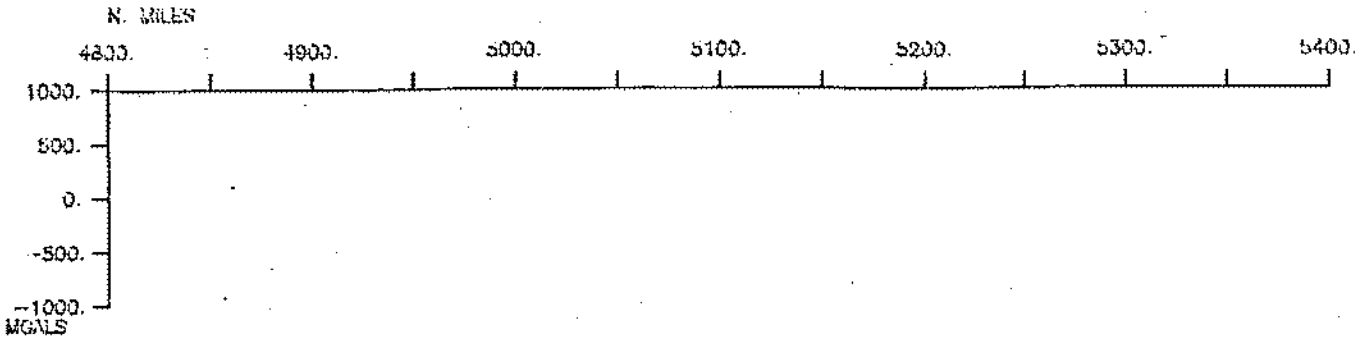

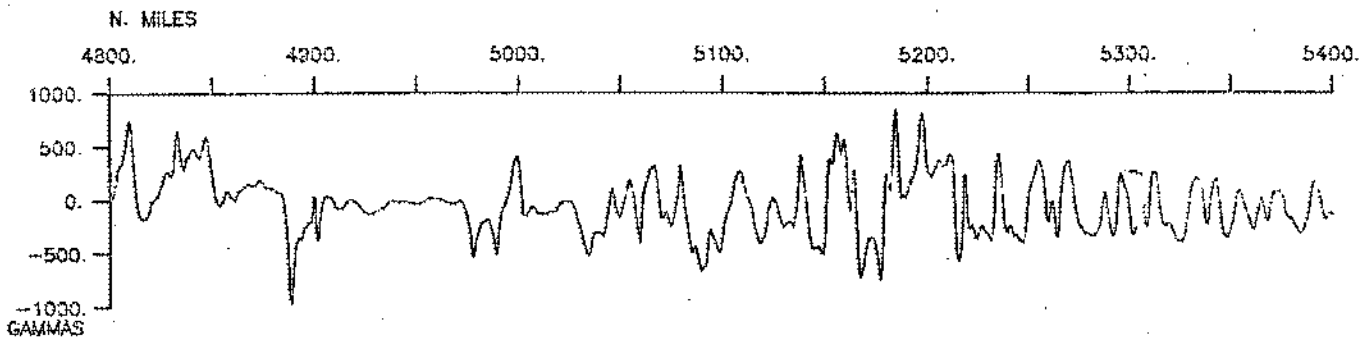

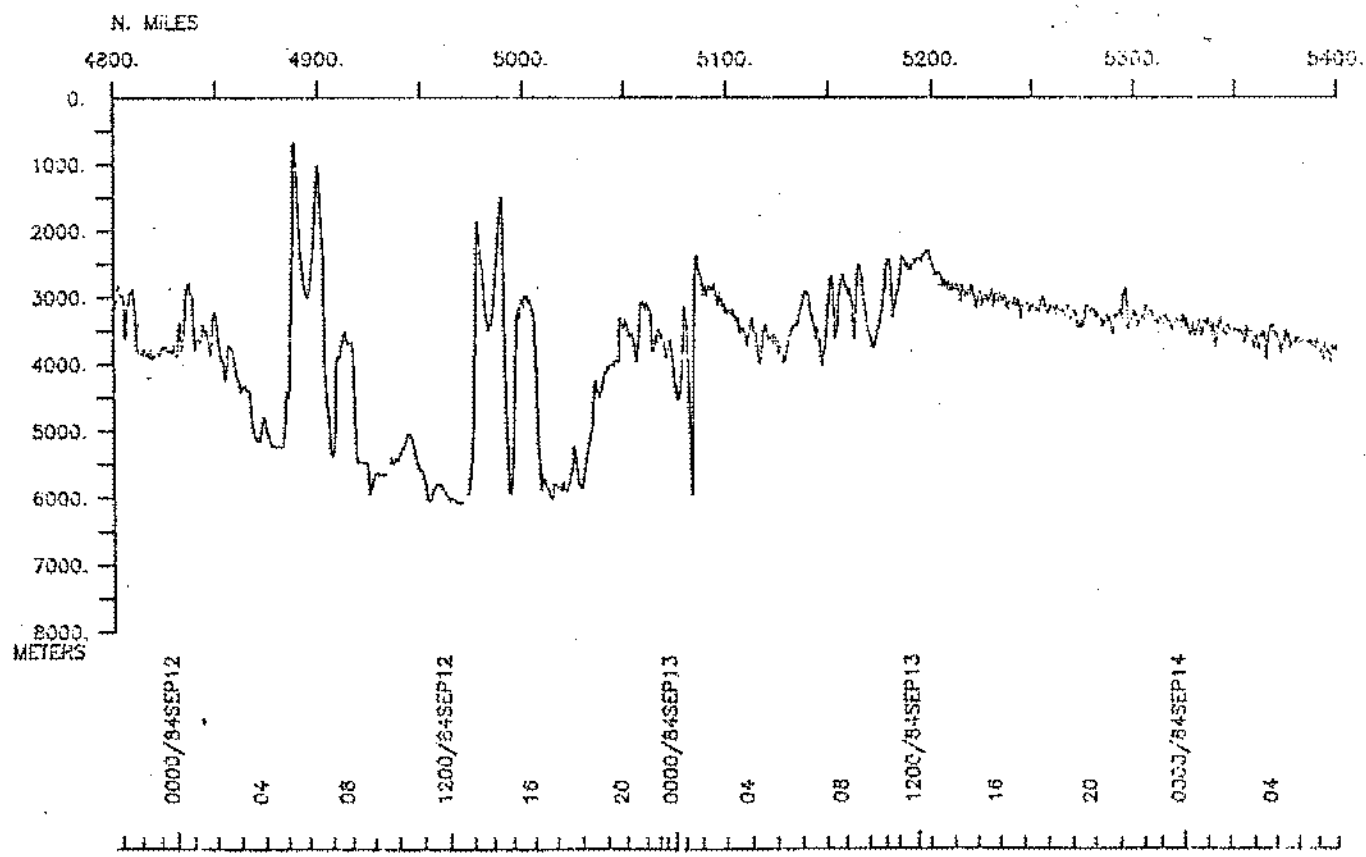

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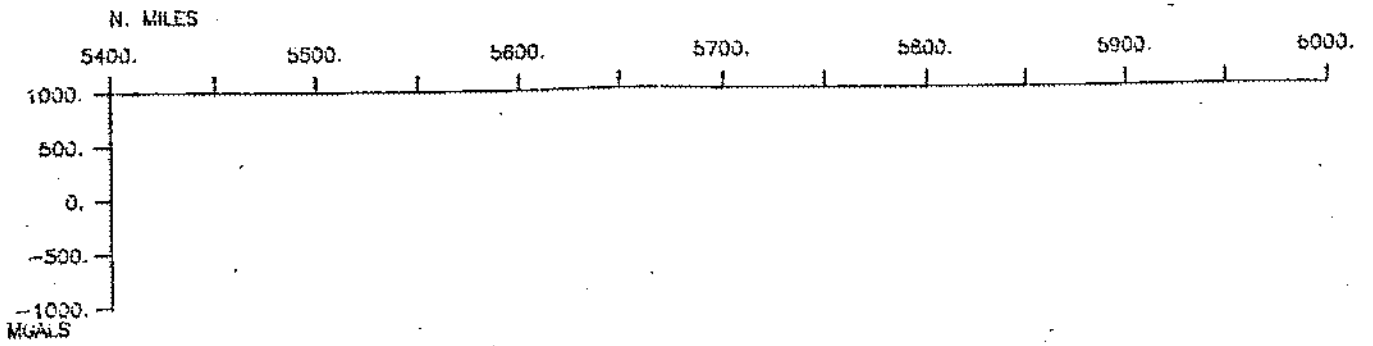
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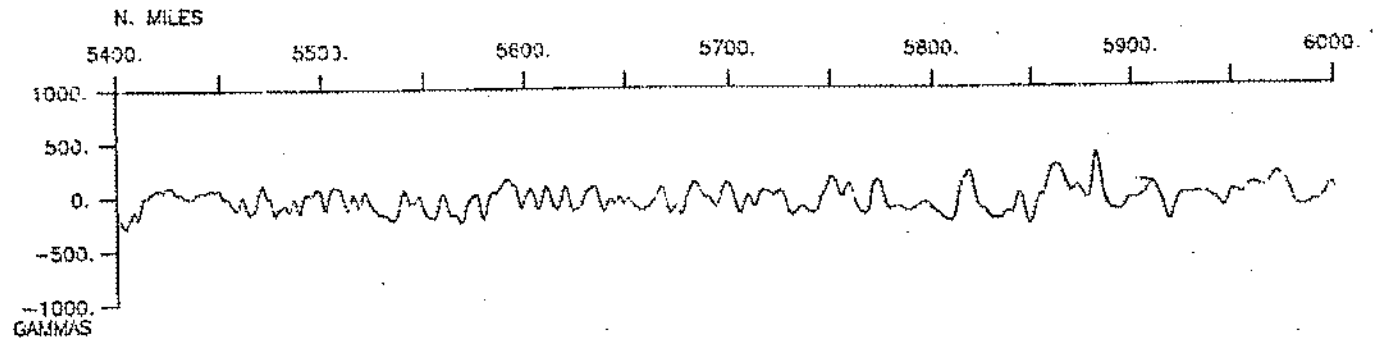
MGALS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0.
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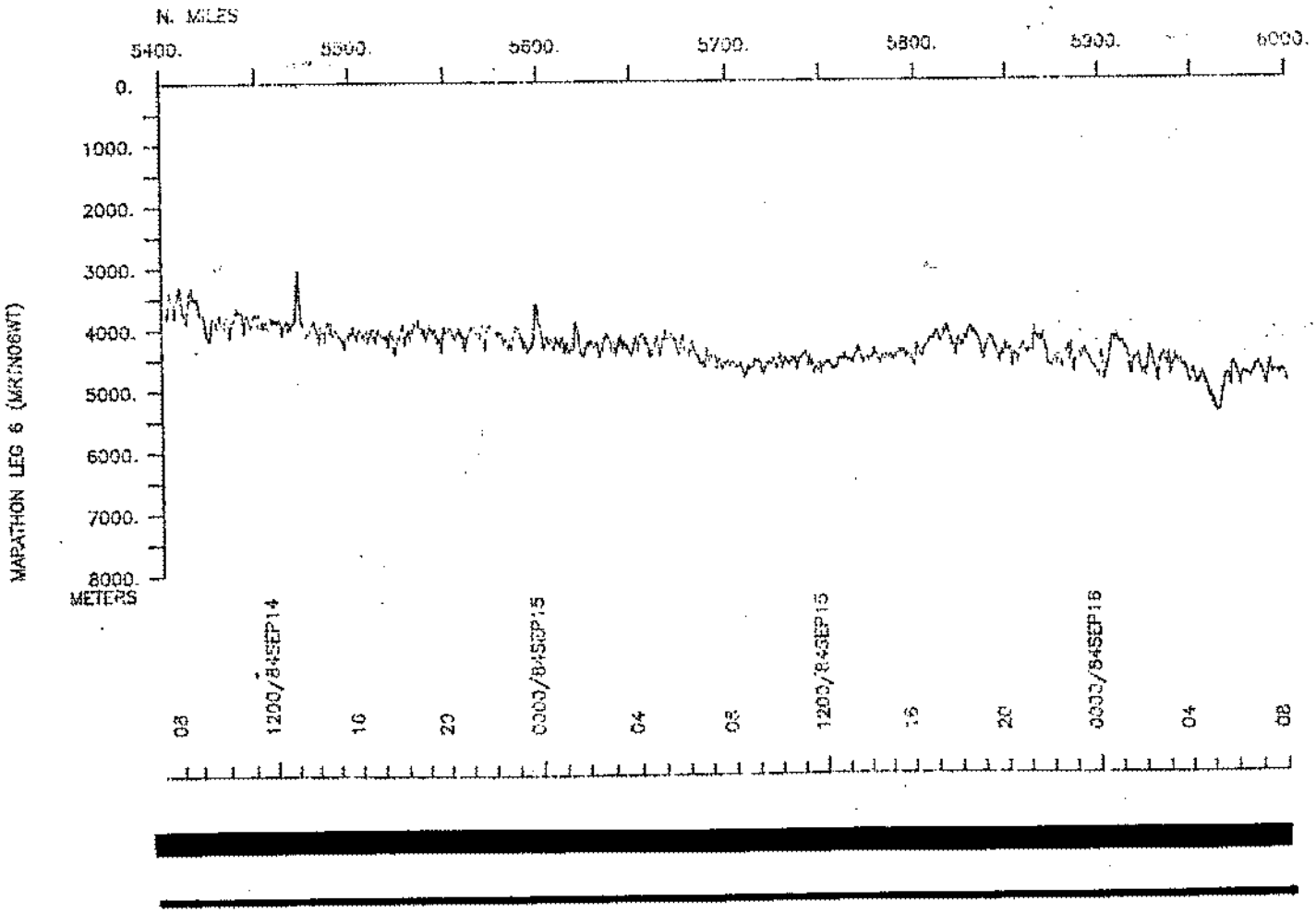
GAMMAS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5900.
6000.
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1000.
2000.
3000.
4000.
5000.
6000.
7000.
8000.
METERS
MARATHON LEG 6 (MRTNO6WT)
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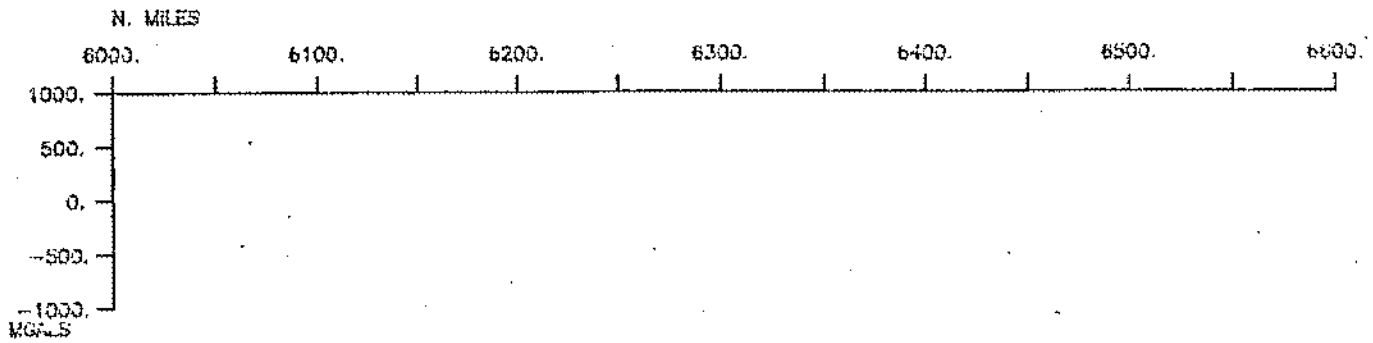
1200/84SEP15
16
20
0000/84SEP16
04
08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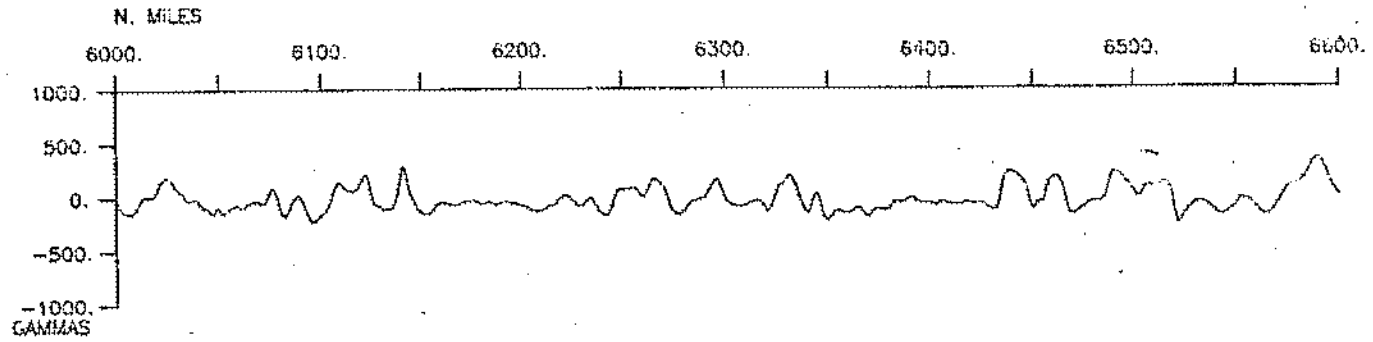
500.
0.
-500.
-1000.
MGALS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6200.
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6500.
6600.
1000.
500.
0.
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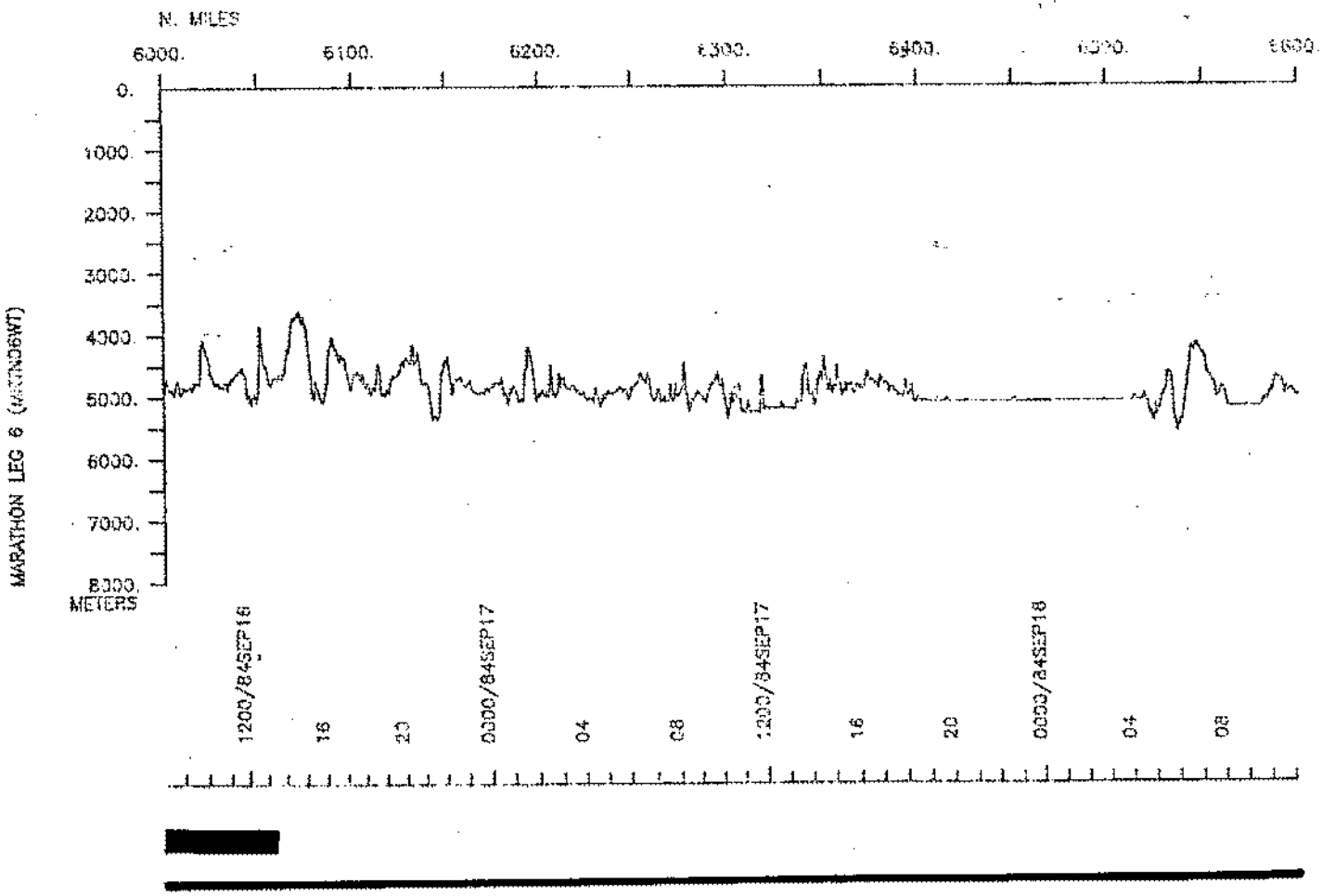
-1000.
GAMMAS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6100.
6200.
6300.
6400.
6500.
6600.
0.
1000.
2000.
3000.
4000.
5000.
6000.
7000.
8000.
METERS
MARATHON LEG 6 (WESTBOUND)
1200/84SEP16
16
20
0300/84SEP17
04
08
1200/84SEP17
16
20
0800/84SEP18
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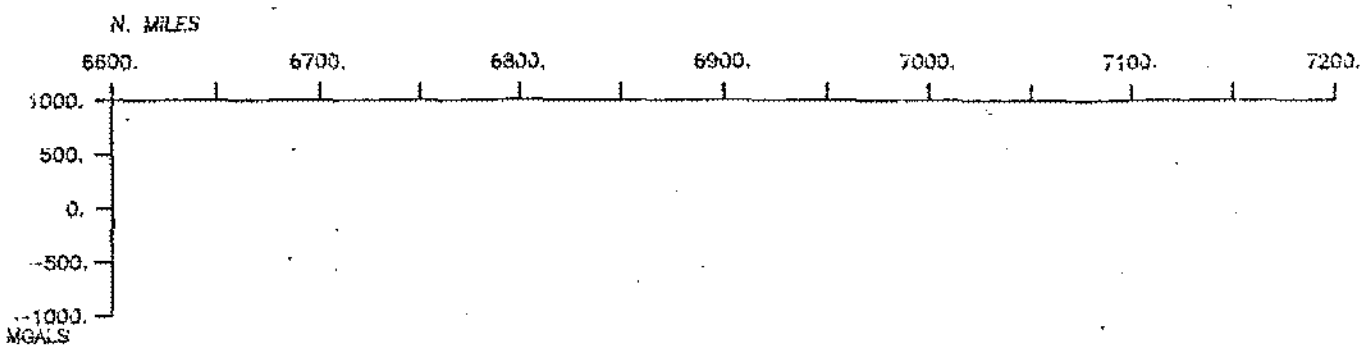
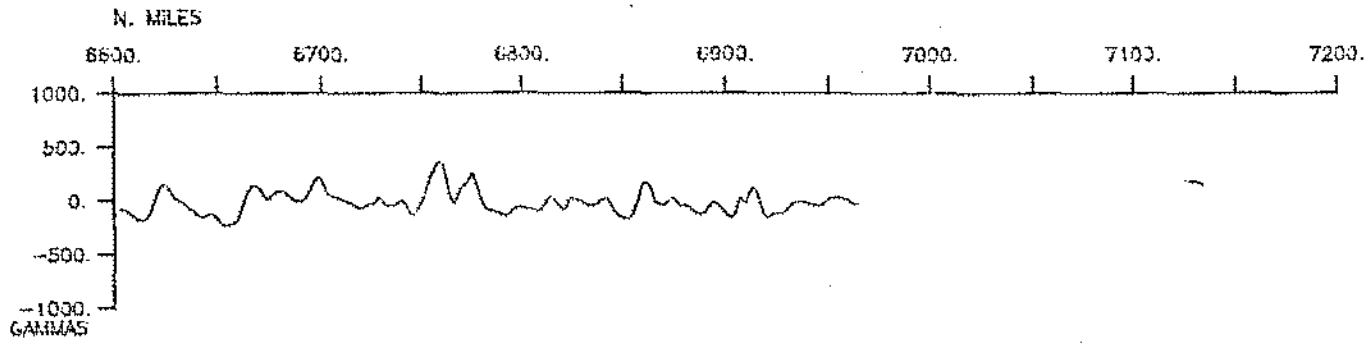
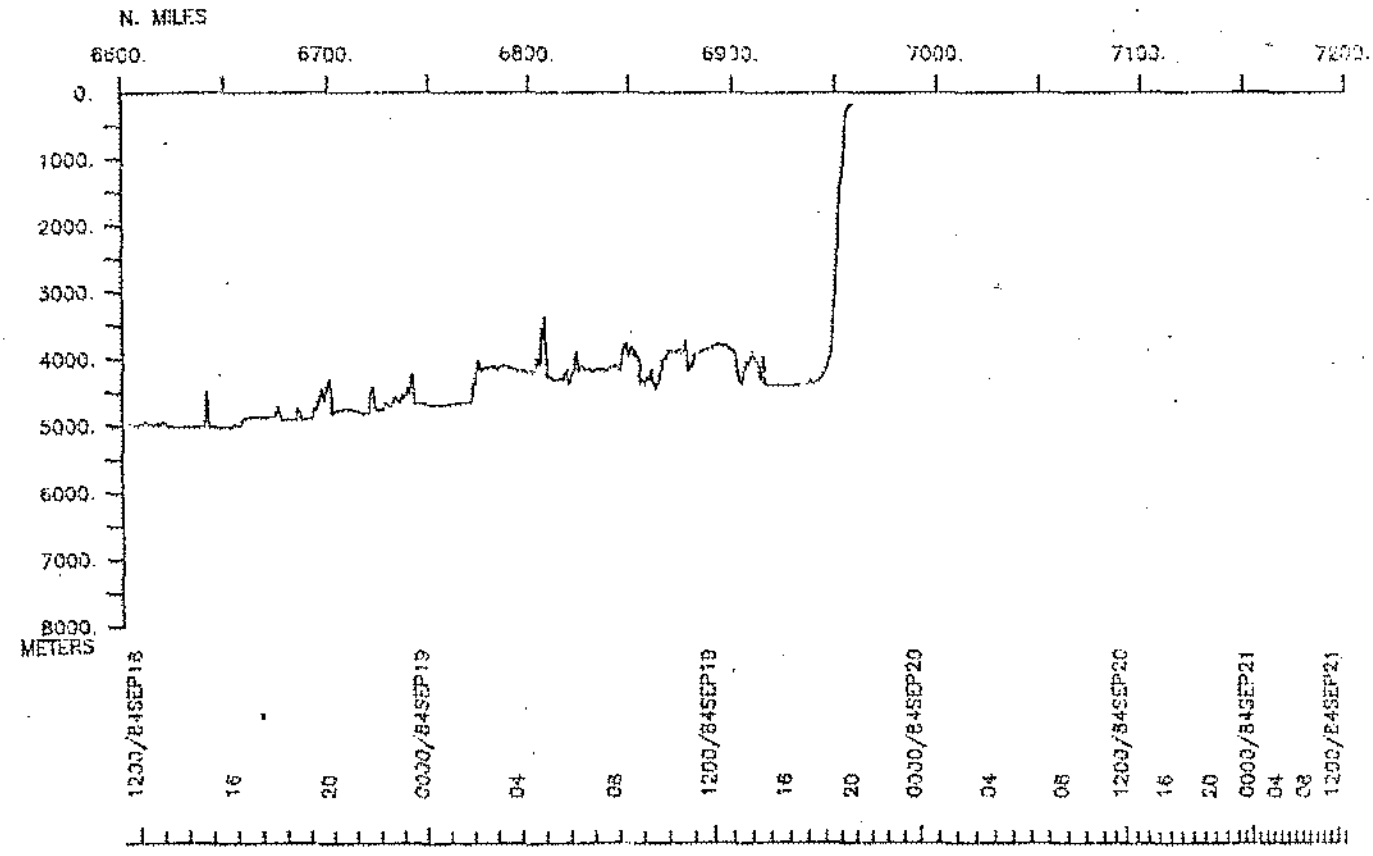
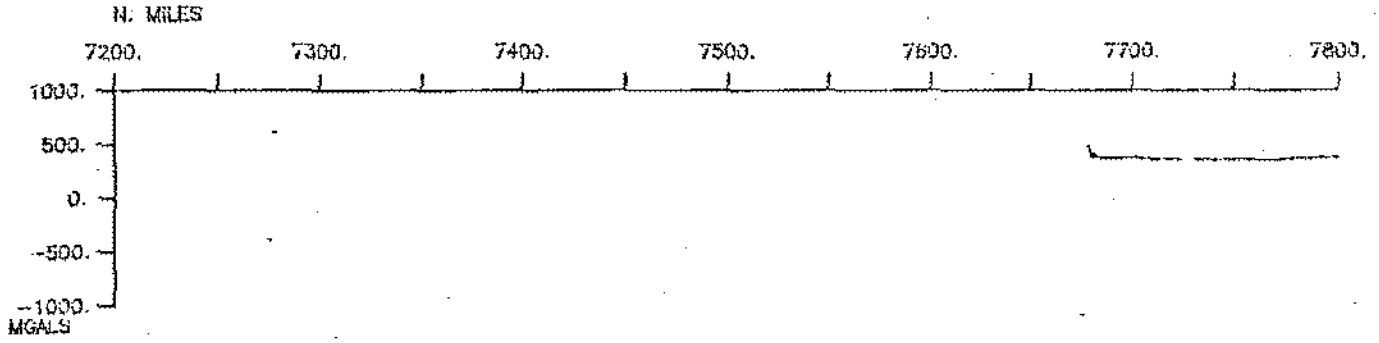






MARATHON LEG 6 [illegible]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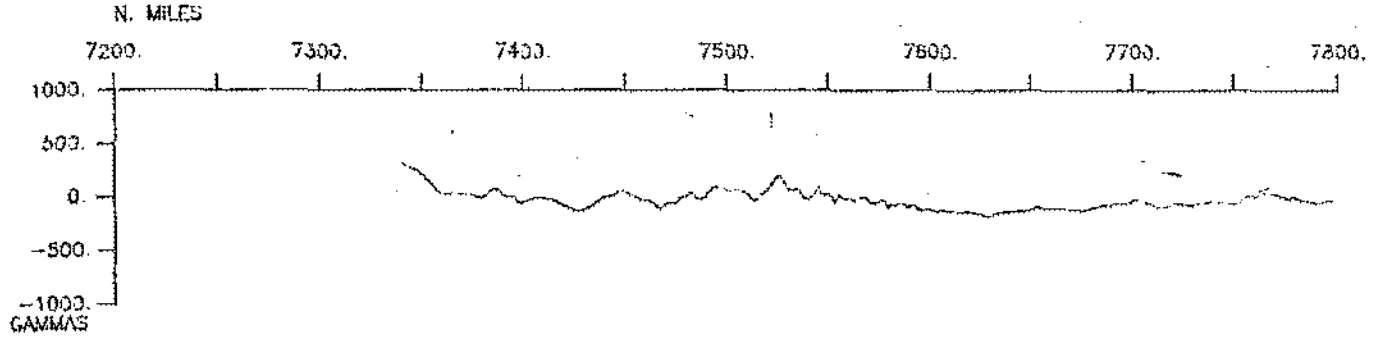
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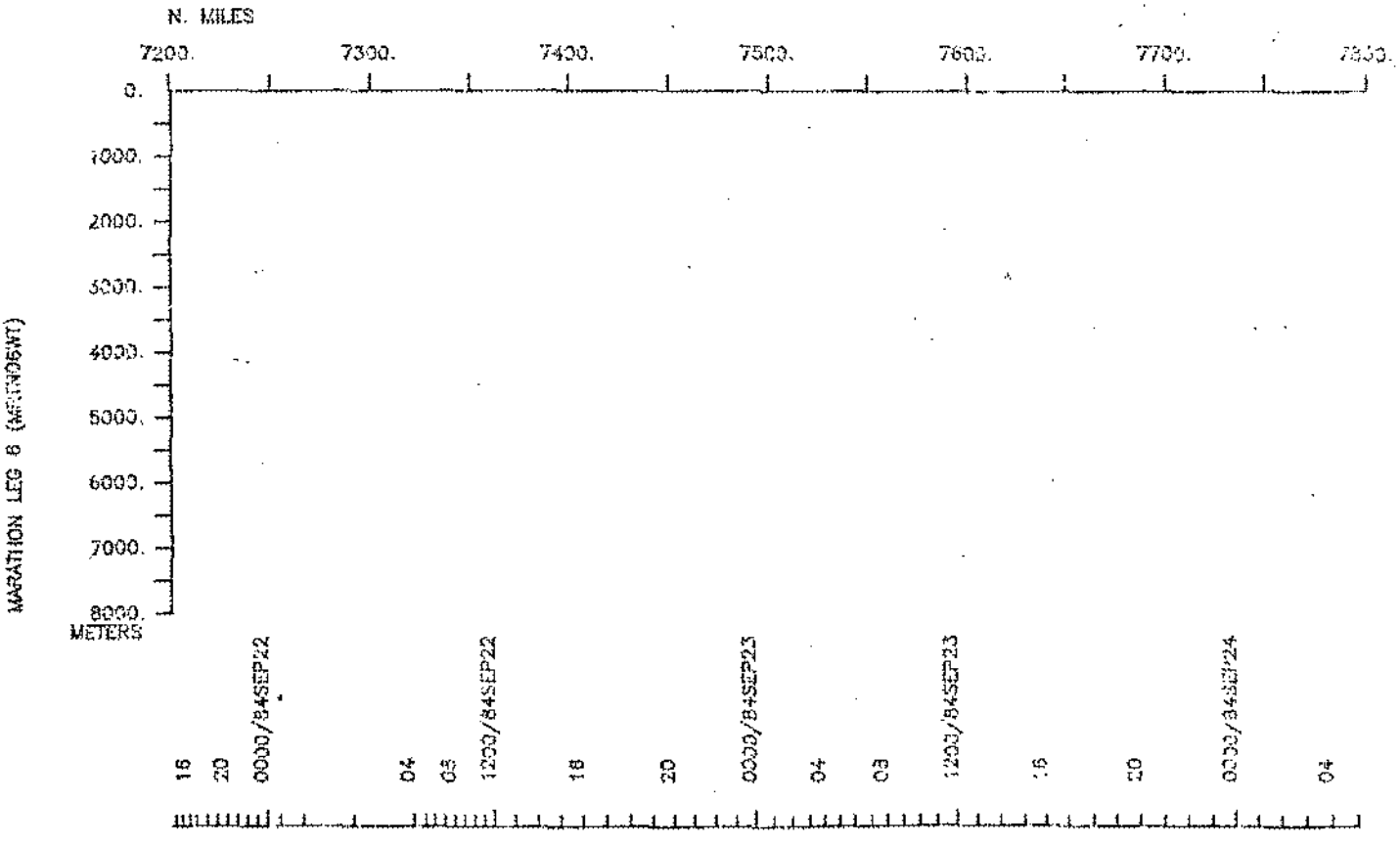
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METERS
MARATHON LEG 8 (MSTN09WT)
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0000/84SEP22
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0000/84SEP23
04
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1200/84SEP23
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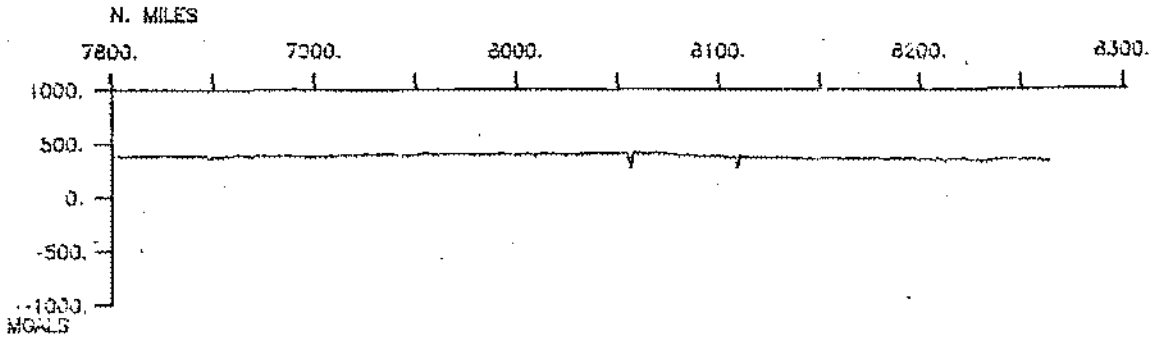
20
0000/84SEP24
04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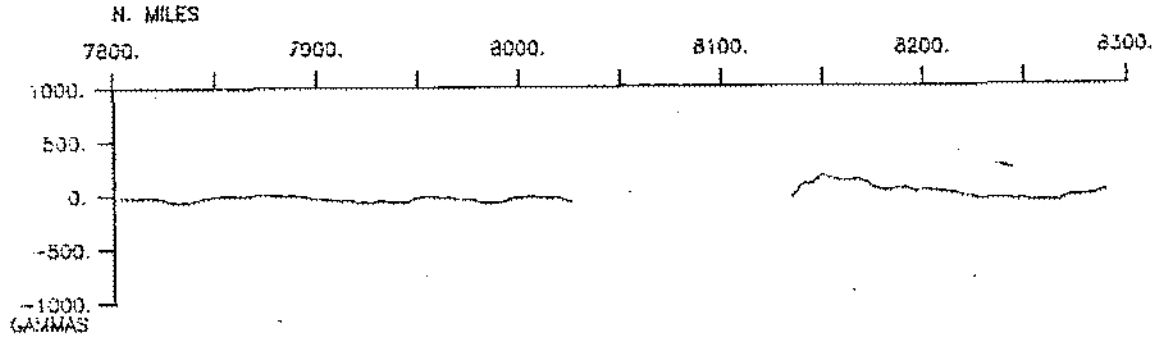
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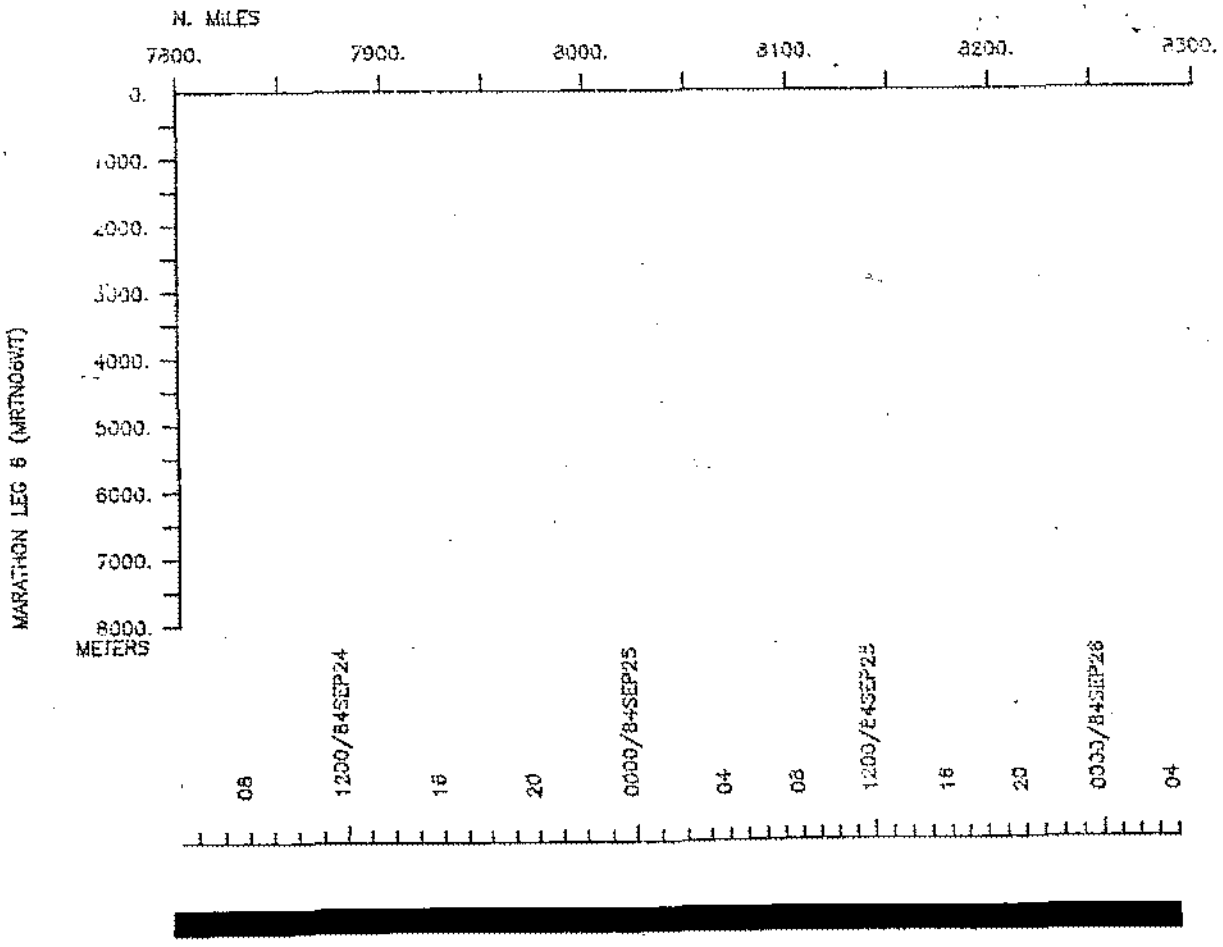
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MARATHON LEG 6 (MRTN06WT)
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1200/84SEP24
16
20
0000/84SEP25
04
08
1200/84SEP25
16
20
0333/84SEP26
04

S.I.O. SAMPLE INDEX

(Issued June 1985)

MARATHON EXPEDITION

Leg 6

PAGO PAGO, SAMOA (23 August 1984)
to
MAR DEL PLATA, ARGENTINA (29 September 1984)

R/V Washington

Chief Scientist - P. Lonsdale

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

Index Encoding Funded by ONR
Grant Number N00014-80-C-0440
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

0320 230884	LGPT B	PAGO PAGO,SAMOA	14-17 S 170-40 W	fMRTNO6WT
1100 260984	LGPT E	MAR DEL PLATA, ARG	38-519S 57-499W	sMRTNO6WT
2058 200984	LGUS B	USHUAIA,ARGENTINA	54-212S 67-368W	fMRTNO6WT
1835 210984	LGUS E	USHUAIA,ARGENTINA	54-212S 67-368W	fMRTNO6WT

PERSONNEL

	NAME	***TITLE***	***AFFILIATION***	**CRID**
PECS GRD	LONSDALE,DR.P.	CHIEF SCIENTIST	SCRIPPS INSTITUTION	MRTNO6WT
PECT SCG	CHARTERS,J.	COMPUTER TECH.	SCRIPPS INSTITUTION	MRTNO6WT
PEAT SGG	CRAMPTON,P.	AIRGUN TECH.	SCRIPPS INSTITUTION	MRTNO6WT
PERT MTG	COMER,R.L.	RESIDENT TECH.	SCRIPPS INSTITUTION	MRTNO6WT
PEBO GDC	SMITH,W.	SEABEAM OPERATOR	SCRIPPS INSTITUTION	MRTNO6WT
PEBE SCG	HYLAS,T.	SEABEAM ENGINEER	SCRIPPS INSTITUTION	MRTNO6WT
PEST GRD	STURZ,A.	STUDENT	SCRIPPS INSTITUTION	MRTNO6WT
PEVL GRD	LEVINE,S.	VOLUNTEER	SCRIPPS INSTITUTION	MRTNO6WT
PESP SIO	YOHE,R.	WATCH STANDER	SCRIPPS INSTITUTION	MRTNO6WT
PEOB ARG	VOLLADARES,LT.J.	OBSERVER	ARGENTINA	MRTNO6WT
PEOB ARG	MOUZO,F.L.	OBSERVER	ARGENTINA	MRTNO6WT

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							
0424	230884	LBUW B	UNDERWAY WATCH LOG	GDC	14-252S	170-457W	sMRTN06WT
0433	260984	LBUW E	UNDERWAY WATCH LOG	GDC	38-519S	57-499W	sMRTN06WT
SEABEAM MONITOR							
0427	230884	MBRM B	12KHZ SB MONITOR R-01	GDC	14-256S	170-462W	sMRTN06WT
1230	240884	MBRM E	12KHZ SB MONITOR R-01	GDC	18-448S	172-436W	sMRTN06WT
1258	240884	MBRM B	12KHZ SB MONITOR R-02	GDC	18-506S	172-456W	sMRTN06WT
1255	290884	MBRM E	12KHZ SB MONITOR R-02	GDC	31-090S	172-261W	sMRTN06WT
1306	290884	MBRM B	12KHZ SB MONITOR R-03	GDC	31-103S	172-244W	sMRTN06WT
1110	030984	MBRM E	12KHZ SB MONITOR R-03	GDC	43-493S	160-455W	sMRTN06WT
1148	030984	MBRM B	12KHZ SB MONITOR R-04	GDC	43-531S	160-405W	sMRTN06WT
1035	080984	MBRM E	12KHZ SB MONITOR R-04	GDC	49-533S	140-094W	sMRTN06WT
1054	080984	MBRM B	12KHZ SB MONITOR R-05	GDC	49-546S	140-044W	sMRTN06WT
1053	130984	MBRM E	12KHZ SB MONITOR R-05	GDC	55-578S	121-447W	sMRTN06WT
#times 1107,130984-2359,160984 discarded by Lonsdale							
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0859	180984	MBRM B	12KHZ SB MONITOR R-07	GDC	59-159S	79-328W	sMRTN06WT
1952	190984	MBRM E	12KHZ SB MONITOR R-07	GDC	56-424S	68-237W	sMRTN06WT
SEABEAM SWATH BOOK							
0424	230884	MBSB B	SEABEAM SWATH BOOK-01	GDC	14-252S	170-457W	sMRTN06WT
1703	250884	MBSB E	LONSDALE SB SW BK-01	GDC	22-211S	174-092W	sMRTN06WT
1703	250884	MBSB B	SEABEAM SWATH BOOK-02	GDC	22-211S	174-092W	sMRTN06WT
0010	280884	MBSB E	LONSDALE SB SW BK-02	GDC	27-273S	174-206W	sMRTN06WT
0010	280884	MBSB B	SEABEAM SWATH BOOK-03	GDC	27-273S	174-206W	sMRTN06WT
2346	290884	MBSB E	LONSDALE SB SW BK-03	GDC	32-406S	171-532W	sMRTN06WT
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1931	310884	MBSB E	LONSDALE SB SW BK-04	GDC	38-245S	167-511W	sMRTN06WT
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2340	040984	MBSB E	LONSDALE SB SW BK-06	GDC	46-103S	156-009W	sMRTN06WT
2340	040984	MBSB B	SEABEAM SWATH BOOK-07	GDC	46-103S	156-009W	sMRTN06WT
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1821	060984	MBSB B	SEABEAM SWATH BOOK-08	GDC	48-127S	148-382W	sMRTN06WT
1244	080984	MBSB E	LONSDALE SB SW BK-08	GDC	50-024S	139-341W	sMRTN06WT
1244	080984	MBSB B	SEABEAM SWATH BOOK-09	GDC	50-024S	139-341W	sMRTN06WT
1503	100984	MBSB E	LONSDALE SB SW BK-09	GDC	54-208S	129-584W	sMRTN06WT
1503	100984	MBSB B	SEABEAM SWATH BOOK-10	GDC	54-208S	129-584W	sMRTN06WT
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1400	120984	MBSB B SEABEAM SWATH BOOK-11	GDC	55-378S	124-291W	sMRTNO6WT
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1111	140984	MBSB B SEABEAM SWATH BOOK-12	GDC	56-195S	113-594W	sMRTNO6WT
0536	160984	MBSB E LONSDALE SB SW BK-12	GDC	57-288S	98-225W	sMRTNO6WT
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1952	190984	MBSB E LONSDALE SB SW BK-14	GDC	56-424S	68-237W	sMRTNO6WT
0530	230884	MBSB B SEABEAM SWATH BOOK-01	GDC	14-330S	170-538W	sMRTNO6WT
1648	250884	MBSB E ARCHIVE SB SW BK-01	GDC	22-217S	174-059W	sMRTNO6WT
1648	250884	MBSB B SEABEAM SWATH BOOK-02	GDC	22-217S	174-059W	sMRTNO6WT
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0010	280884	MBSB B SEABEAM SWATH BOOK-03	GDC	27-273S	174-206W	sMRTNO6WT
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1238	140984	DPR3 E 3.5KHZ EPC R-02	GDC	56-212S	113-293W	sMRTNO6WT
1923	190984	DPR3 B 3.5KHZ EPC R-03	GDC	56-447S	68-287W	sMRTNO6WT
1358	200984	DPR3 E 3.5KHZ EPC R-03	GDC	55-017S	66-557W	sMRTNO6WT
0725	220984	DPR3 B 3.5KHZ EPC R-04	GDC	53-422S	64-467W	sMRTNO6WT
2137	220984	DPR3 E 3.5KHZ EPC R-04	GDC	51-328S	65-009W	sMRTNO6WT
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2210	230984	DPR3 E 3.5KHZ EPC R-05	GDC	47-430S	63-043W	sMRTNO6WT

2236 230984	DPR3 B 3.5KHZ EPC R-06	GDC 47-382S	63-009W	sMRTNO6WT
2240 240984	DPR3 E 3.5KHZ EPC R-06	GDC 43-130S	60-198W	sMRTNO6WT
2245 240984	DPR3 B 3.5KHZ EPC R-07	GDC 43-119S	60-192W	sMRTNO6WT
2201 250984	DPR3 E 3.5KHZ EPC R-07	GDC 39-446S	58-220W	sMRTNO6WT
2205 250984	DPR3 B 3.5KHZ EPC R-08	GDC 39-441S	58-216W	sMRTNO6WT
0400 260984	DPR3 E 3.5KHZ EPC R-08	GDC 38-548S	57-514W	sMRTNO6WT

MAGNETICS

0458 230884	MGRA B MAGNETICS ROLL-01	GDC 14-285S	170-491W	sMRTNO6WT
0520 040984	MGRA E MAGNETICS ROLL-01	GDC 44-593S	158-312W	sMRTNO6WT
0526 040984	MGRA B MAGNETICS ROLL-02	GDC 44-597S	158-299W	sMRTNO6WT
1910 150984	MGRA E MAGNETICS ROLL-02	GDC 57-114S	102-186W	sMRTNO6WT
1920 150984	MGRA B MAGNETICS ROLL-03	GDC 57-117S	102-148W	sMRTNO6WT
0400 260984	MGRA E MAGNETICS ROLL-03	GDC 38-548S	57-514W	sMRTNO6WT

SEISMIC REFLECTION

0500 230884	SPRF B SEISMIC 2 SEC R-01	GDC 14-287S	170-493W	sMRTNO6WT
0139 310884	SPRF E SEISMIC 2 SEC R-01	GDC 36-146S	169-483W	sMRTNO6WT
0237 310884	SPRF B SEISMIC 2 SEC R-02	GDC 36-242S	169-432W	sMRTNO6WT
0358 060984	SPRF E SEISMIC 2 SEC R-02	GDC 47-253S	150-573W	sMRTNO6WT
0403 060984	SPRF B SEISMIC 2 SEC R-03	GDC 47-260S	150-563W	sMRTNO6WT
1324 160984	SPRF E SEISMIC 2 SEC R-03	GDC 57-478S	95-387W	sMRTNO6WT
0824 220984	SPRF B SEISMIC 2 SEC R-04	GDC 53-374S	64-481W	sMRTNO6WT
0410 250984	SPRF E SEISMIC 2 SEC R-04	GDC 42-159S	59-447W	sMRTNO6WT
0416 250984	SPRF B SEISMIC 2 SEC R-05	GDC 42-151S	59-441W	sMRTNO6WT
0401 260984	SPRF E SEISMIC 2 SEC R-05	GDC 38-546S	57-513W	sMRTNO6WT

0500 230884	SPRS B SEISMIC 4 SEC R-01	GDC 14-287S	170-493W	sMRTNO6WT
2244 050984	SPRS E SEISMIC 4 SEC R-01	GDC 47-045S	152-121W	sMRTNO6WT
2250 050984	SPRS B SEISMIC 4 SEC R-02	GDC 47-050S	152-107W	sMRTNO6WT
1329 160984	SPRS E SEISMIC 4 SEC R-02	GDC 57-480S	95-374W	sMRTNO6WT
0824 220984	SPRS B SEISMIC 4 SEC R-03	GDC 53-374S	64-481W	sMRTNO6WT
0401 260984	SPRS E SEISMIC 4 SEC R-03	GDC 38-546S	57-513W	sMRTNO6WT

GRAVITY

0400 230884	GVRA B GRAVIMETER R-01	LMD 14-215S	170-425W	sMRTNO6WT
2045 220984	GVRA E GRAVIMETER R-01	LMD 51-420S	65-036W	sMRTNO6WT
0000 220984	GVRA B GRAVIMETER R-02	LMD 54-489S	65-233W	sMRTNO6WT
0000 270984	GVRA E GRAVIMETER R-02	LMD 38-519S	57-499W	sMRTNO6WT

THERMOGRAPHS

0356 230884	TCRC B THERMOGRAPHS 1-33	GDC 14-208S	170-421W	sMRTNO6WT
1100 260984	TCRC E THERMOGRAPHS 1-33	GDC 38-519S	57-499W	sMRTNO6WT

DREDGES

0803	280884	DRRO	B	ROCK	DREDGE-01	2250M	GCR 27-395S	174-048W sMRTNO6WT
0950	280884	DRRO	E	ROCK	DREDGE-01	2250M	GCR 27-393S	174-054W sMRTNO6WT
2248	310884	DRRO	B	ROCK	DREDGE-02	320M	GCR 38-234S	168-000W sMRTNO6WT
2318	310884	DRRO	E	ROCK	DREDGE-02	320M	GCR 38-235S	168-001W sMRTNO6WT
1624	030984	DRRO	X	ROCK	DREDGE-03		GCR 43-591S	160-434W sMRTNO6WT
1306	040984	DRRO	B	ROCK	DREDGE-04	1500M	GCR 45-190S	157-390W sMRTNO6WT
1401	040984	DRRO	E	ROCK	DREDGE-04	1500M	GCR 45-194S	157-388W sMRTNO6WT
0222	050984	DRRO	X	ROCK	DREDGE-05	1425M	GCR 46-126S	155-585W sMRTNO6WT
2246	060984	DRRO	B	ROCK	DREDGE-06	720M	GCR 48-121S	148-484W sMRTNO6WT
2336	060984	DRRO	E	ROCK	DREDGE-06	720M	GCR 48-122S	148-485W sMRTNO6WT
2145	080984	DRRO	B	ROCK	DREDGE-07	640M	GCR 50-264S	139-100W sMRTNO6WT
2205	080984	DRRO	E	ROCK	DREDGE-07	640M	GCR 50-264S	139-100W sMRTNO6WT
2335	080984	DRRO	X	ROCK	DREDGE-08	600M	GCR 50-265S	139-095W sMRTNO6WT

END SAMPLE INDEX