INFORMAL REPORT AND INDEX OF

NAVIGATION, DEPTH, MAGNETIC AND SUBBOTTOM PROFILER DATA

(Issued July 1985)

MARATHON EXPEDITION

LEG 4

Kodiak, Alaska (14 July 1984)
to
Honolulu, Hawaii (08 August 1984)

R/V T. Washington

Co-Chief Scientists - W. Menard and R. Hey

Resident Marine Tech - E. Pillard

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

SIO Sea Beam Data

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

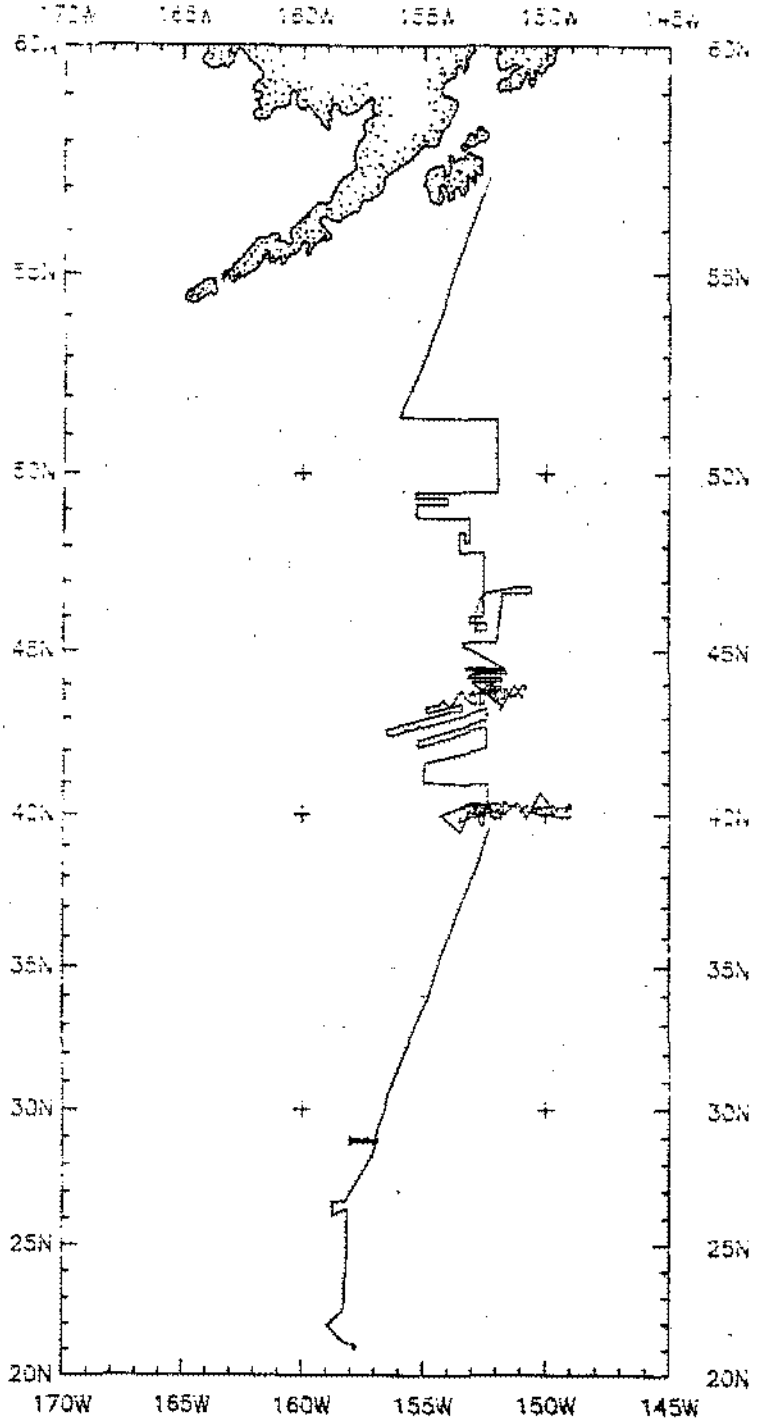
1) Archive contour copy of contour swath books generated in real time on board ship available for inspection at the Data Center.

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).

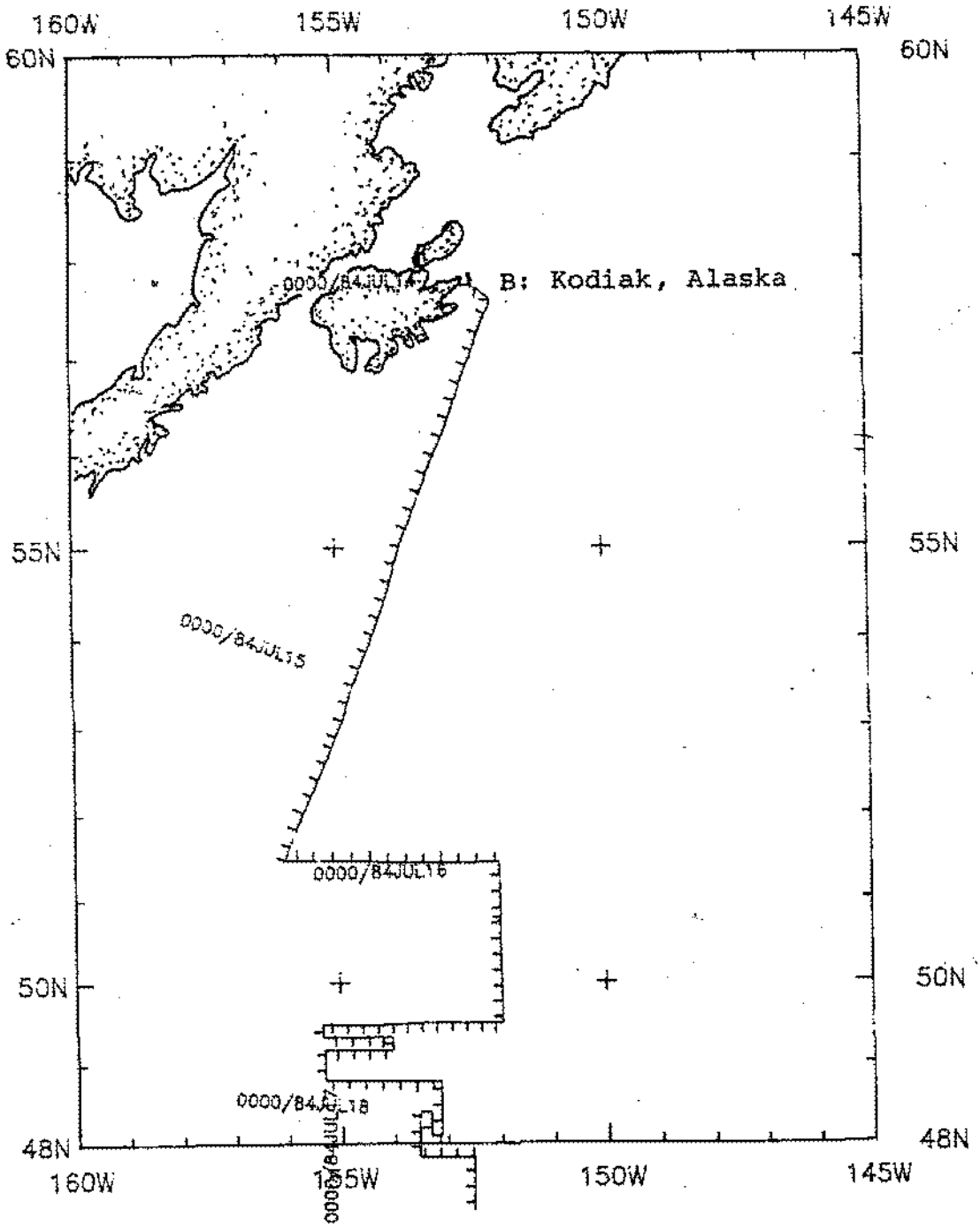
S. M. Smith - June 1985



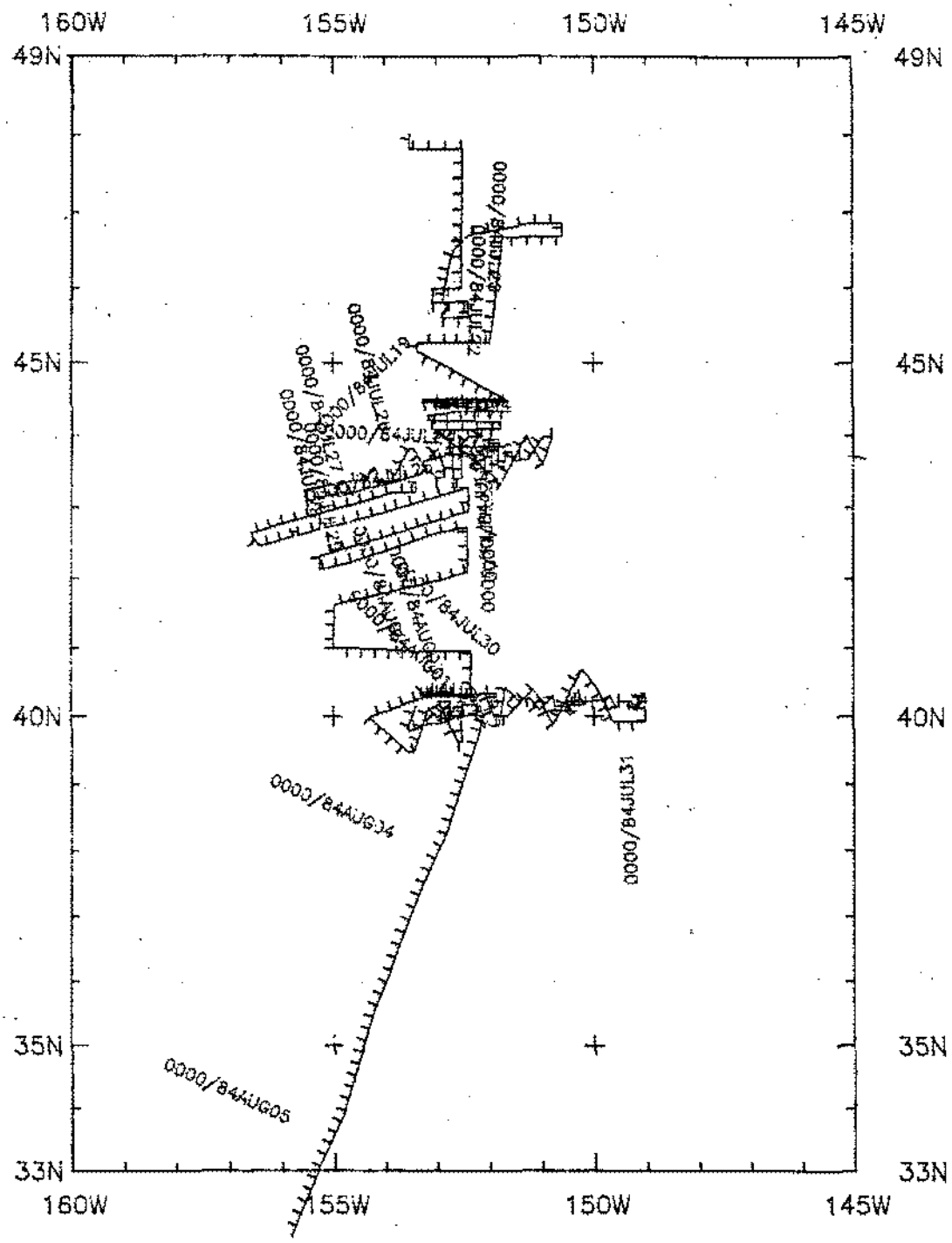
MARATHON EXPEDITION
LEG 4

CO-CHIEF SCIENTISTS: W. Menard and R. Hey
PORTS: Kodiak, Alaska - Honolulu, Hawaii
DATES: 14 July - 08 August 1984
SHIP: R/V Washington

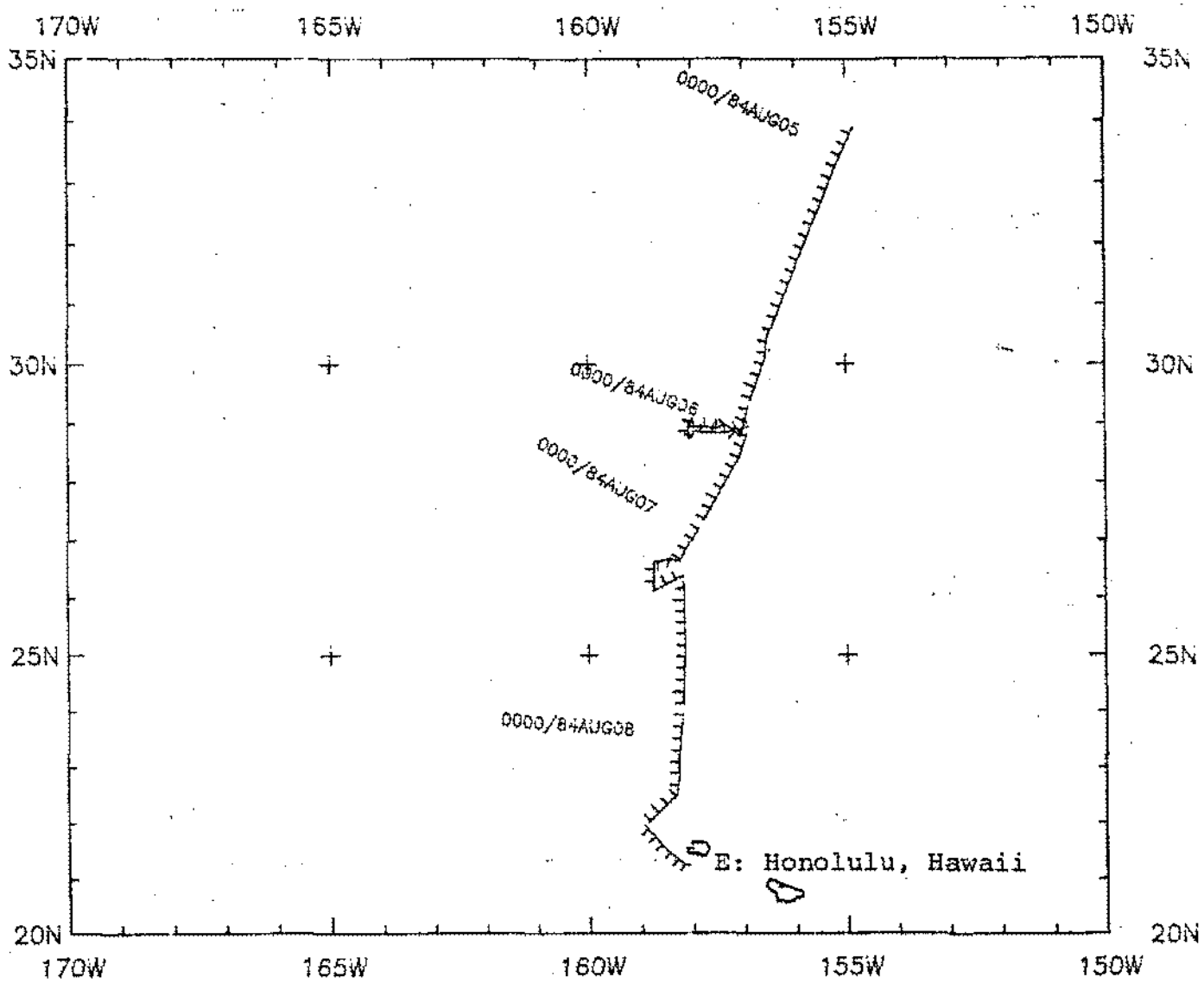
TOTAL MILEAGE OF UNDERWAY DATA COLLECTED
1) Cruise - 7067 miles
2) Bathymetry - 6827 miles
3) Magnetics - 6965 miles
4) Seismic Reflection - 5027 miles
5) Gravity - none collected
6) Sea Beam - 6947 miles



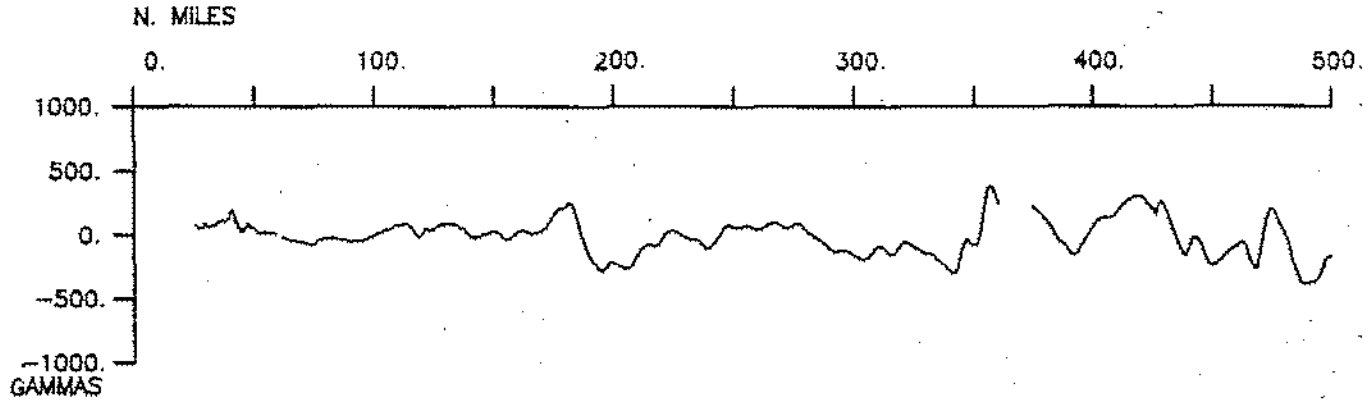
MARATHON LEG 4 Track at .312in/degree (plot 1 of 3)



MARATHON LEG 4 Track at .312in/degree (plot 2 of 3)



MARATHON LEG 4 Track at .312in/degree (plot 3 of 3)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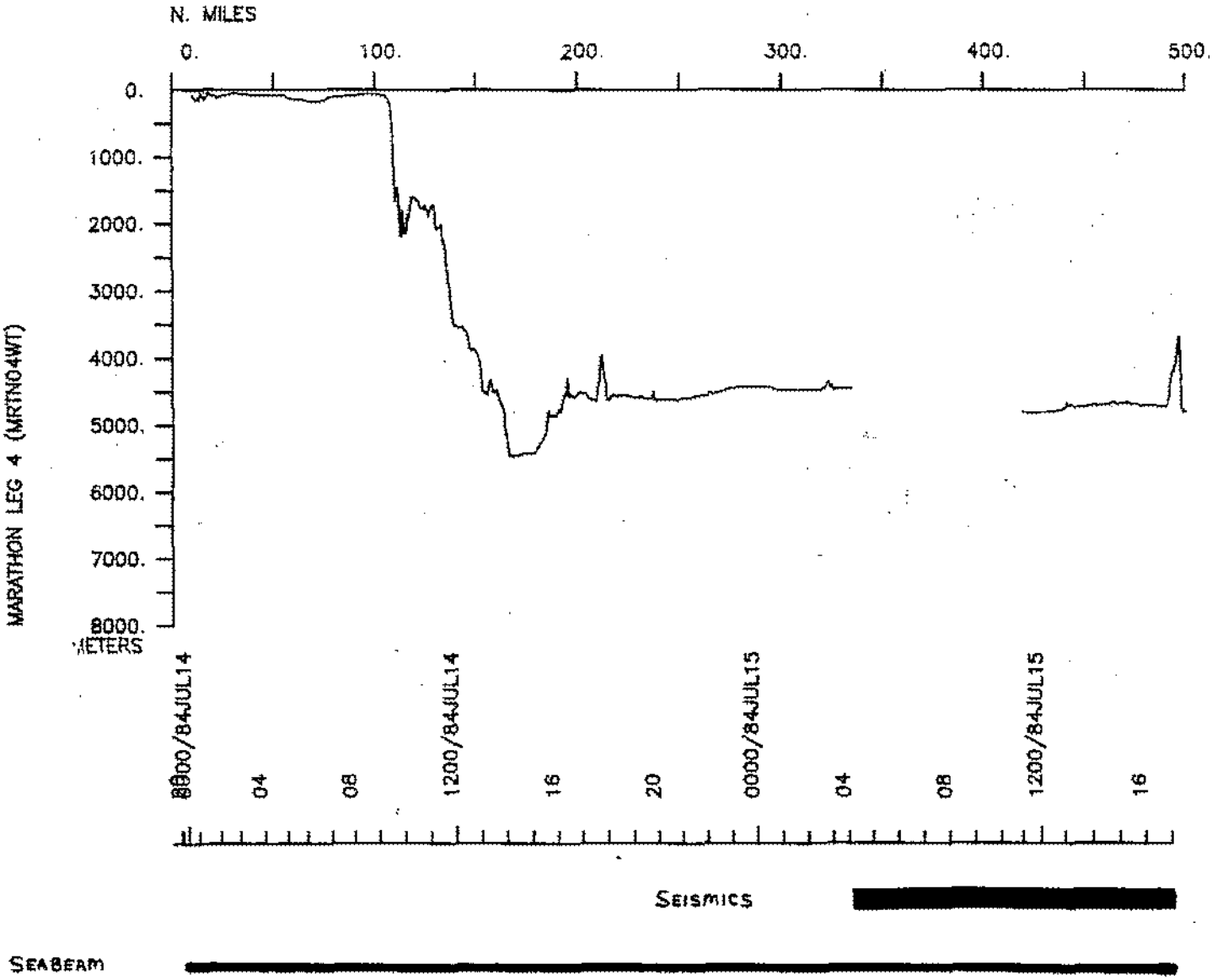
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1200/84JUL14
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08
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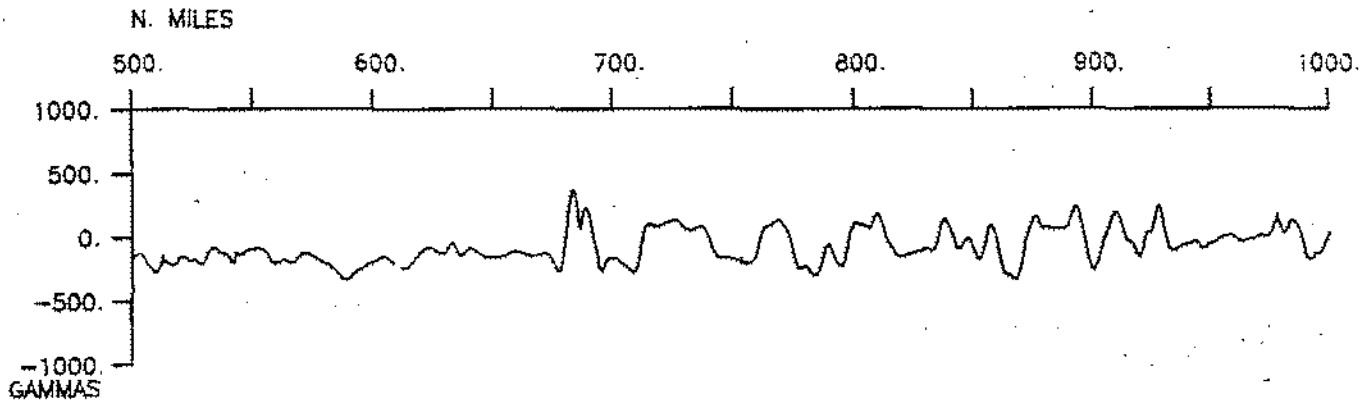
16
20
0000/84JUL15
04
08
1200/84JUL15
16
SEISMICS
SEABEAM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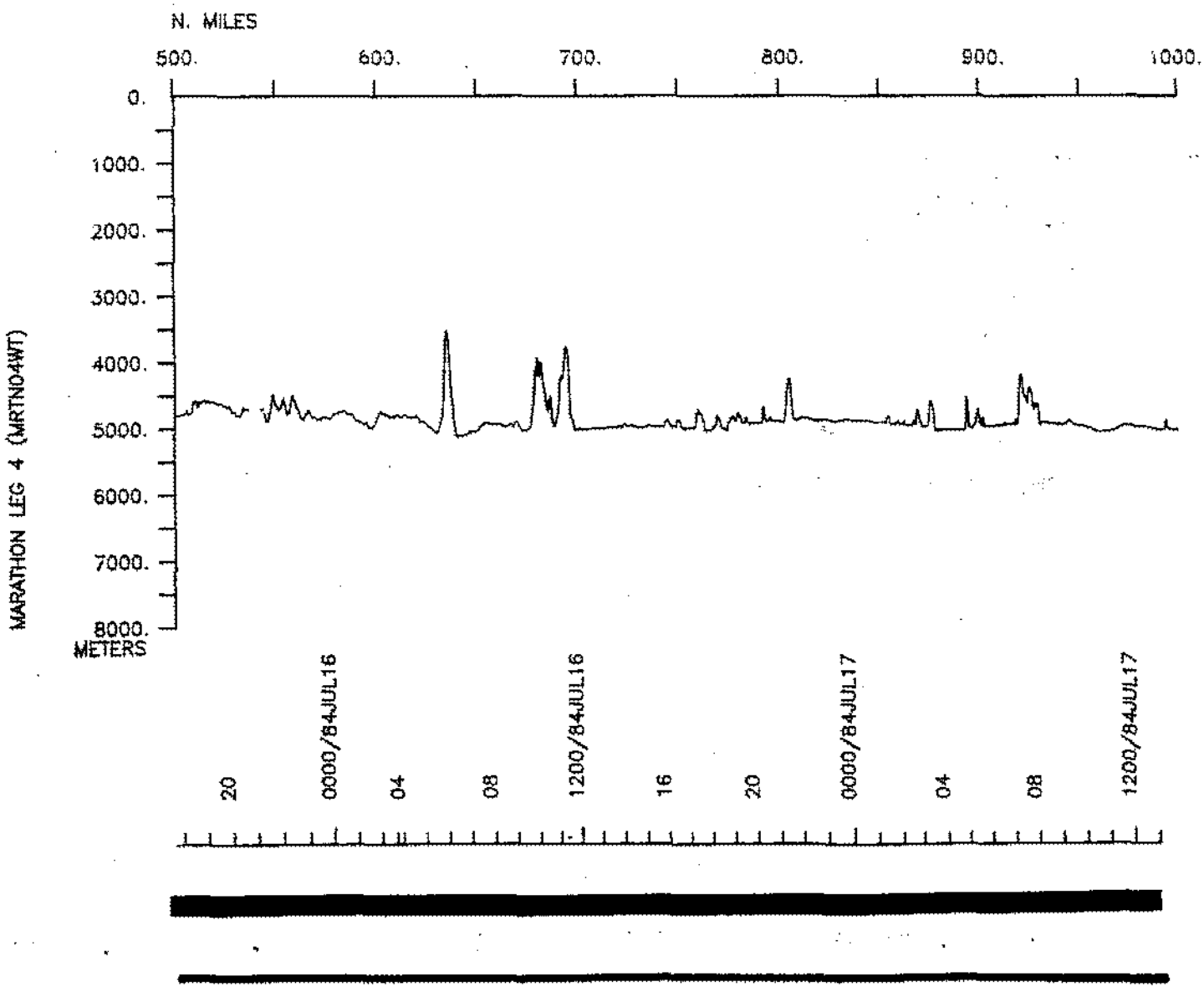
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8000.
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08
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16
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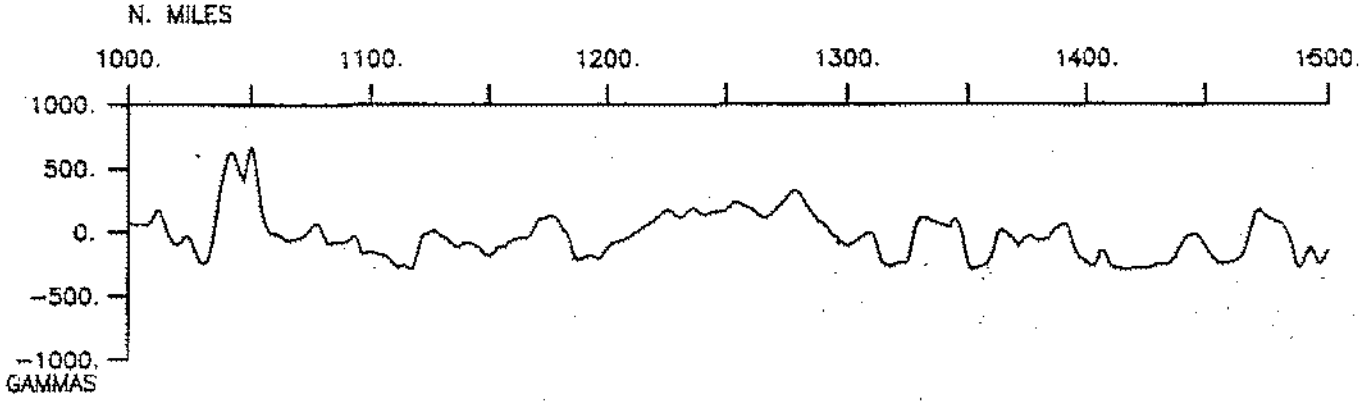
04
08
1200/84JUL17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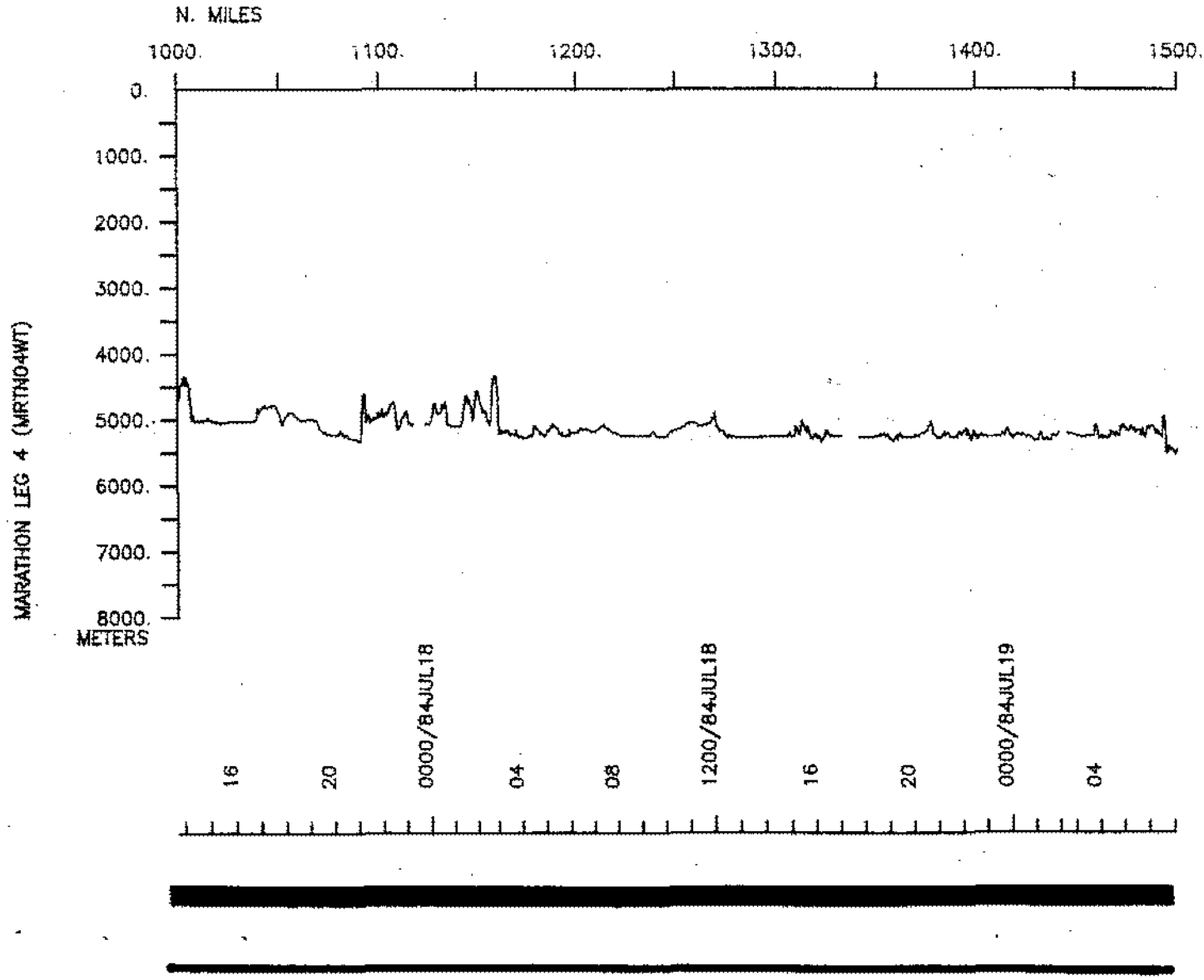
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1200/84JUL18
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20
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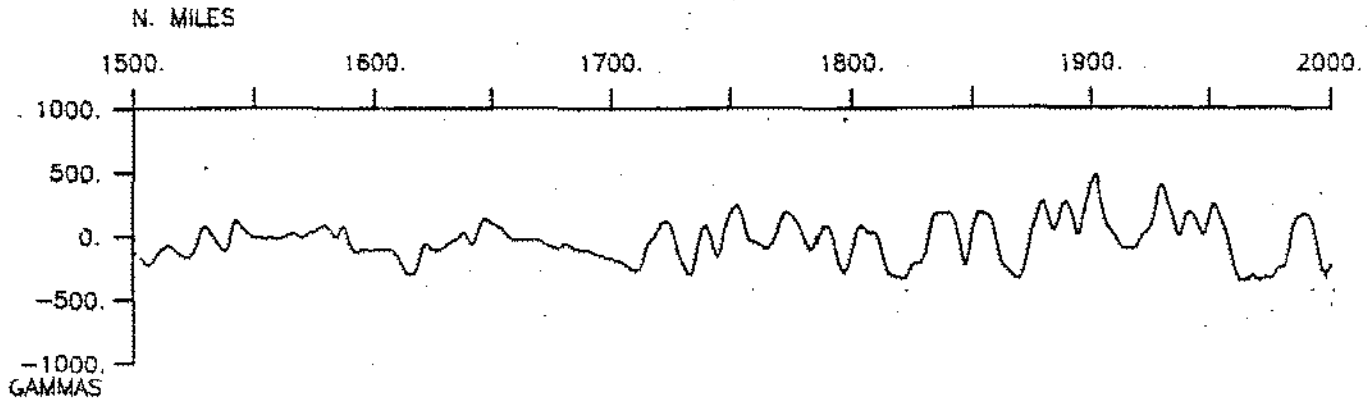
04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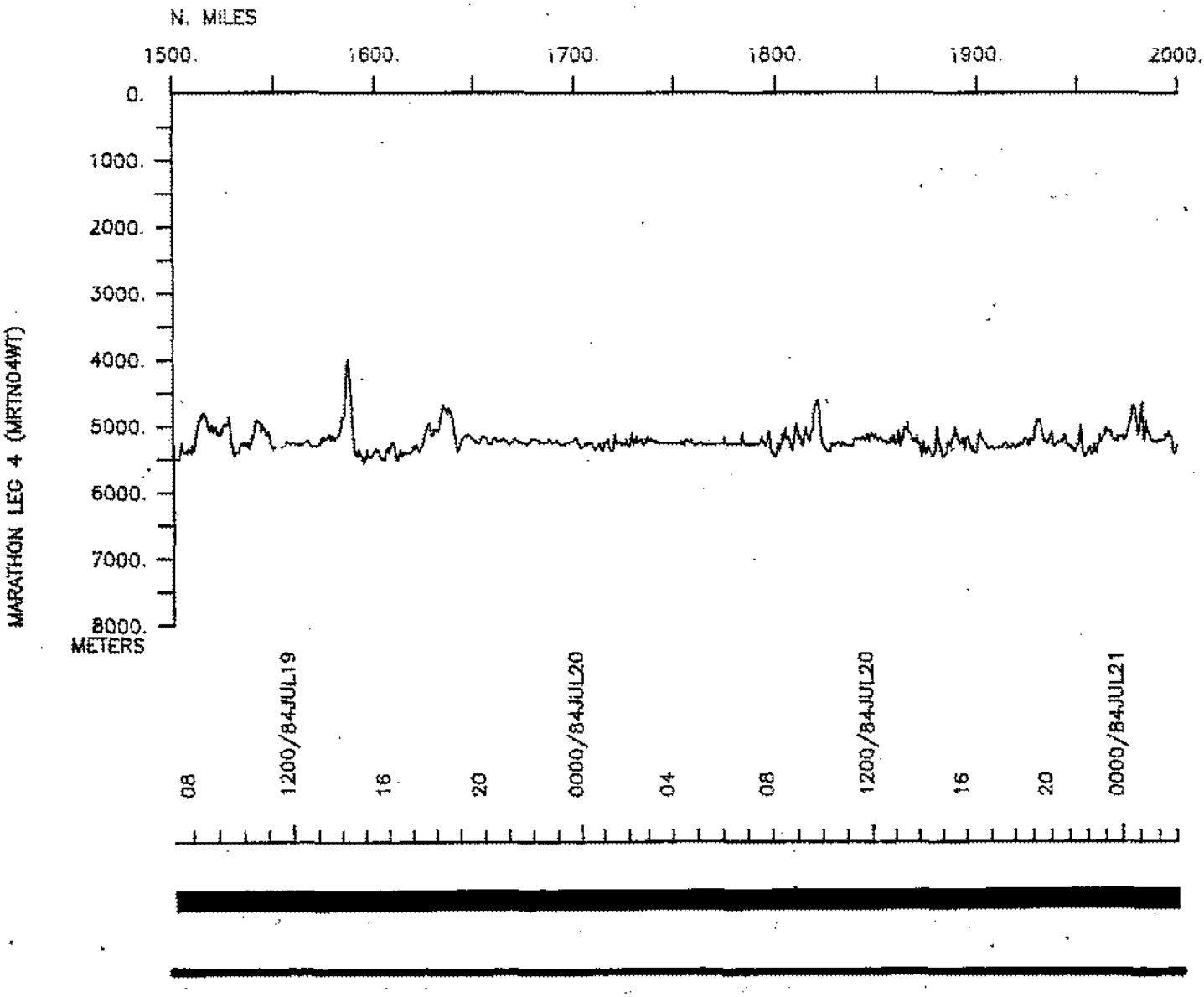
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METERS
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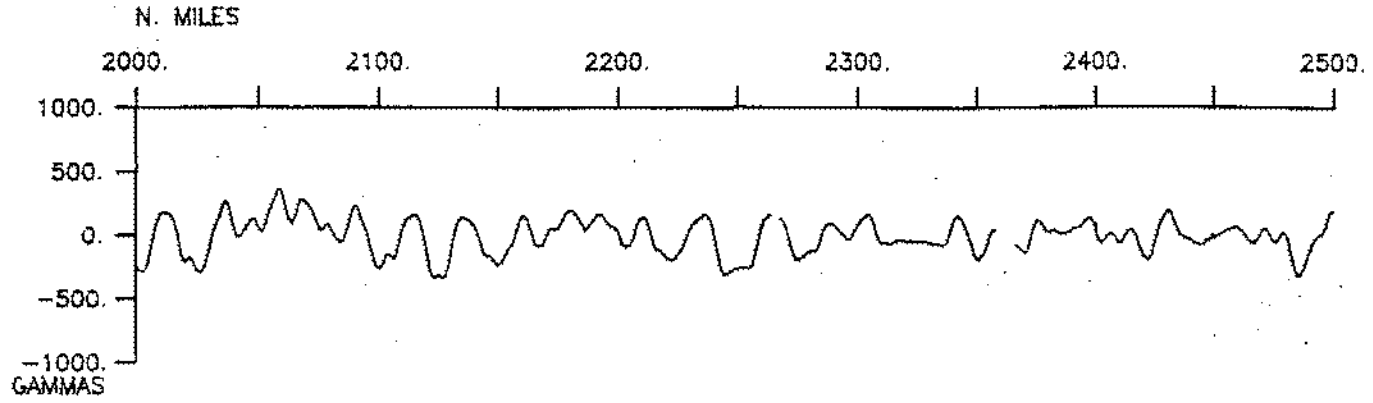
20
0000/84JUL20
04
08
1200/84JUL20
16
20
0000/84JUL21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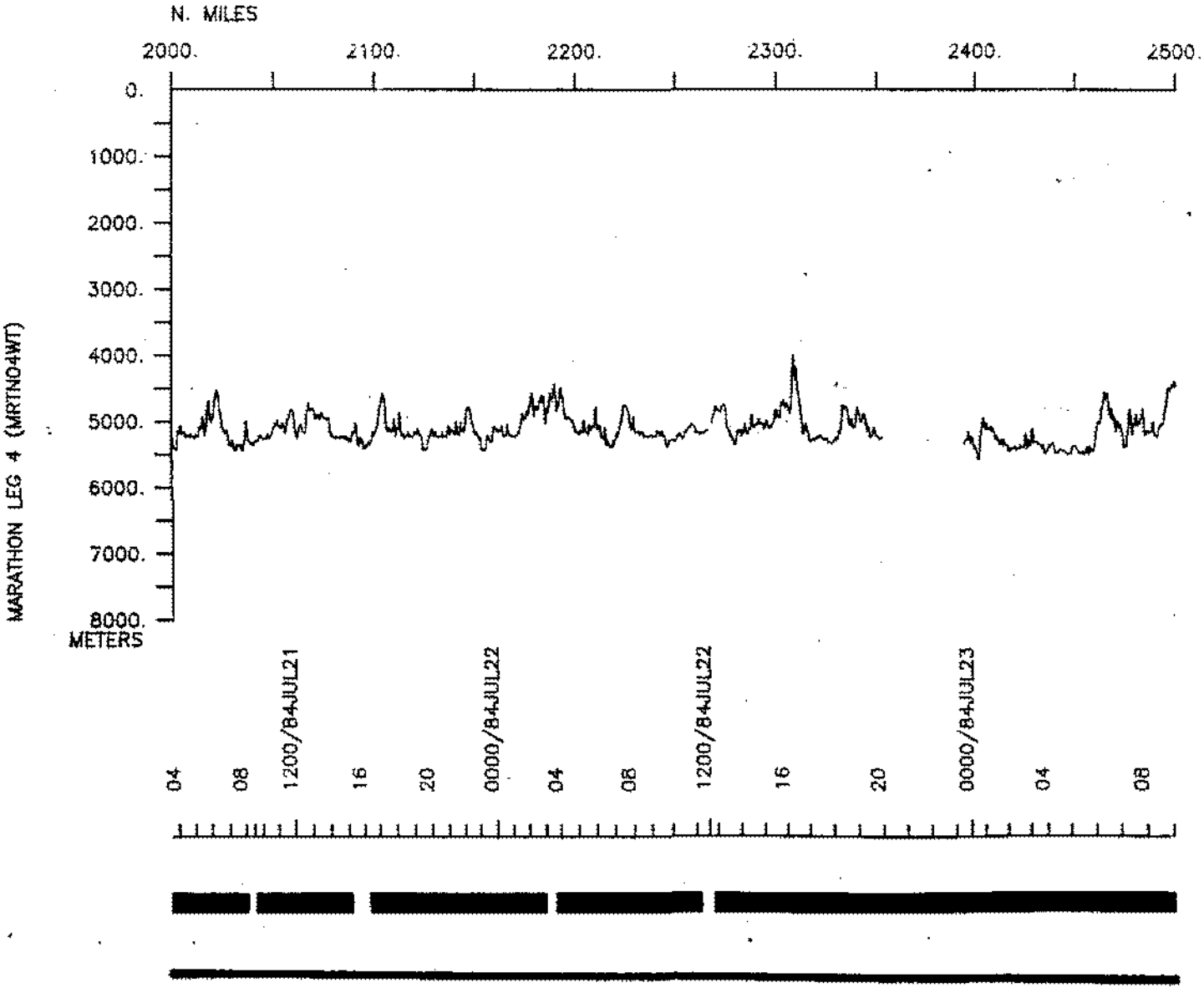
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08
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20
0000/84JUL22
04
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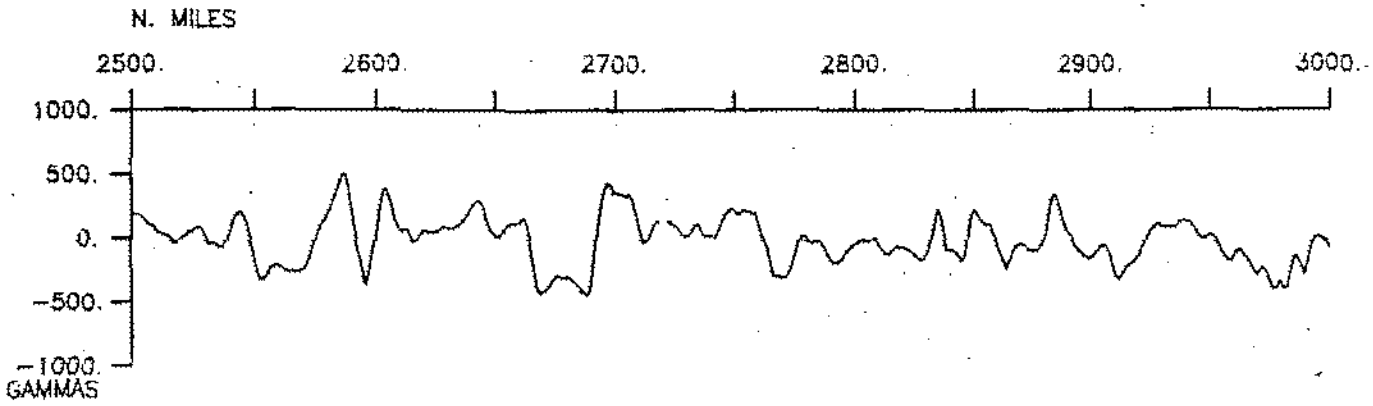
1200/84JUL22
16
20
0000/84JUL23
04
08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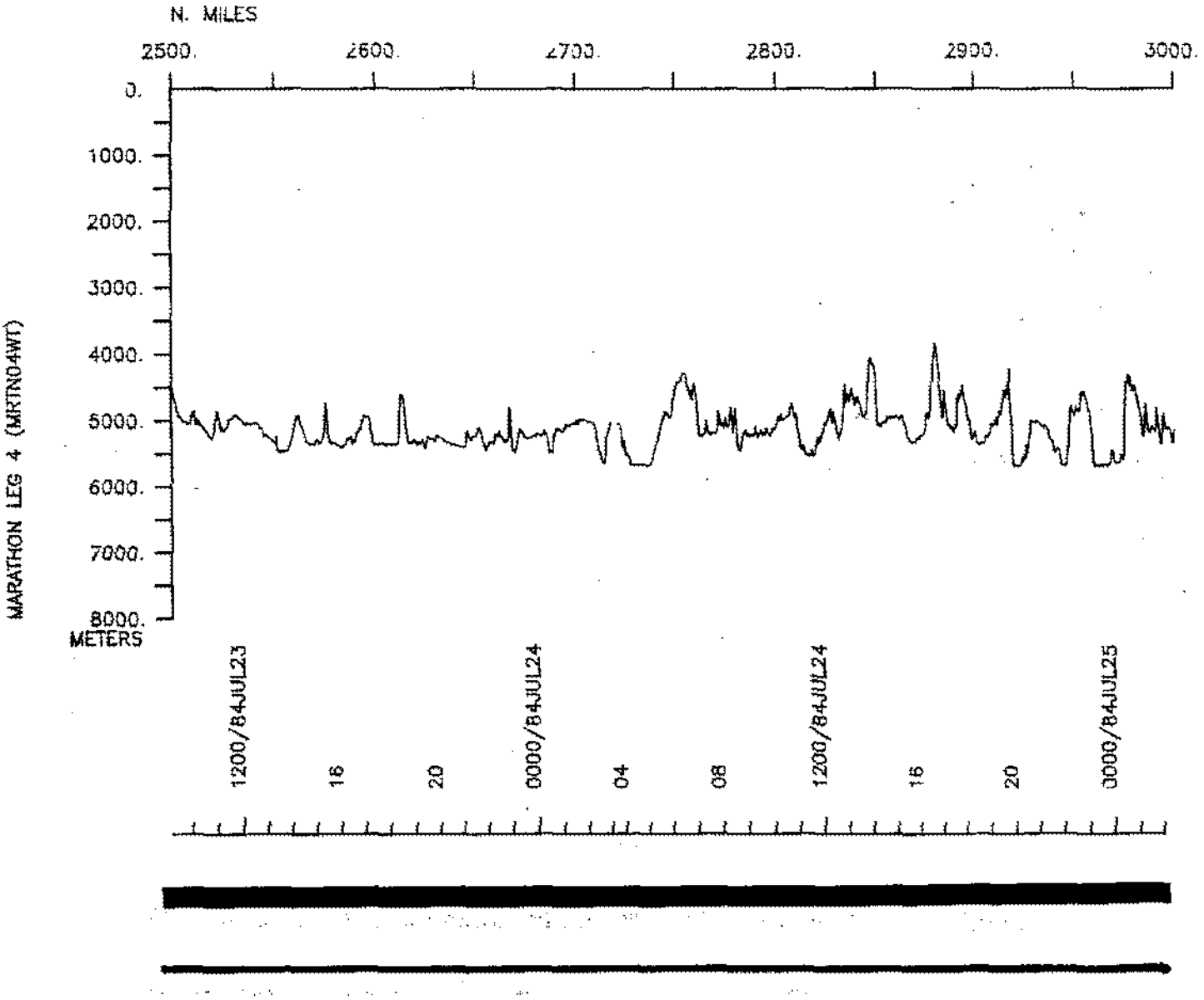
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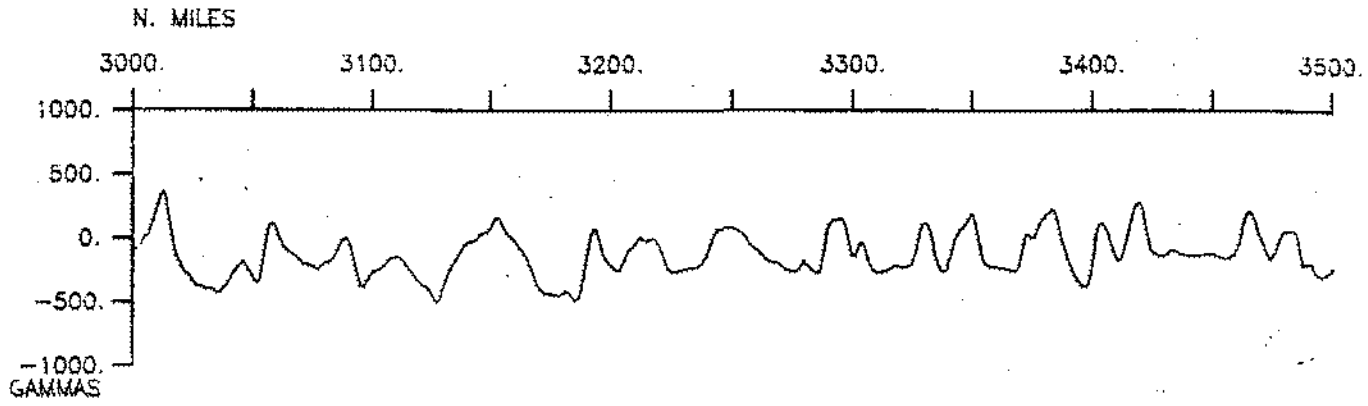
20
0000/84JUL24
04
08
1200/84JUL24
16
20
0000/84JUL25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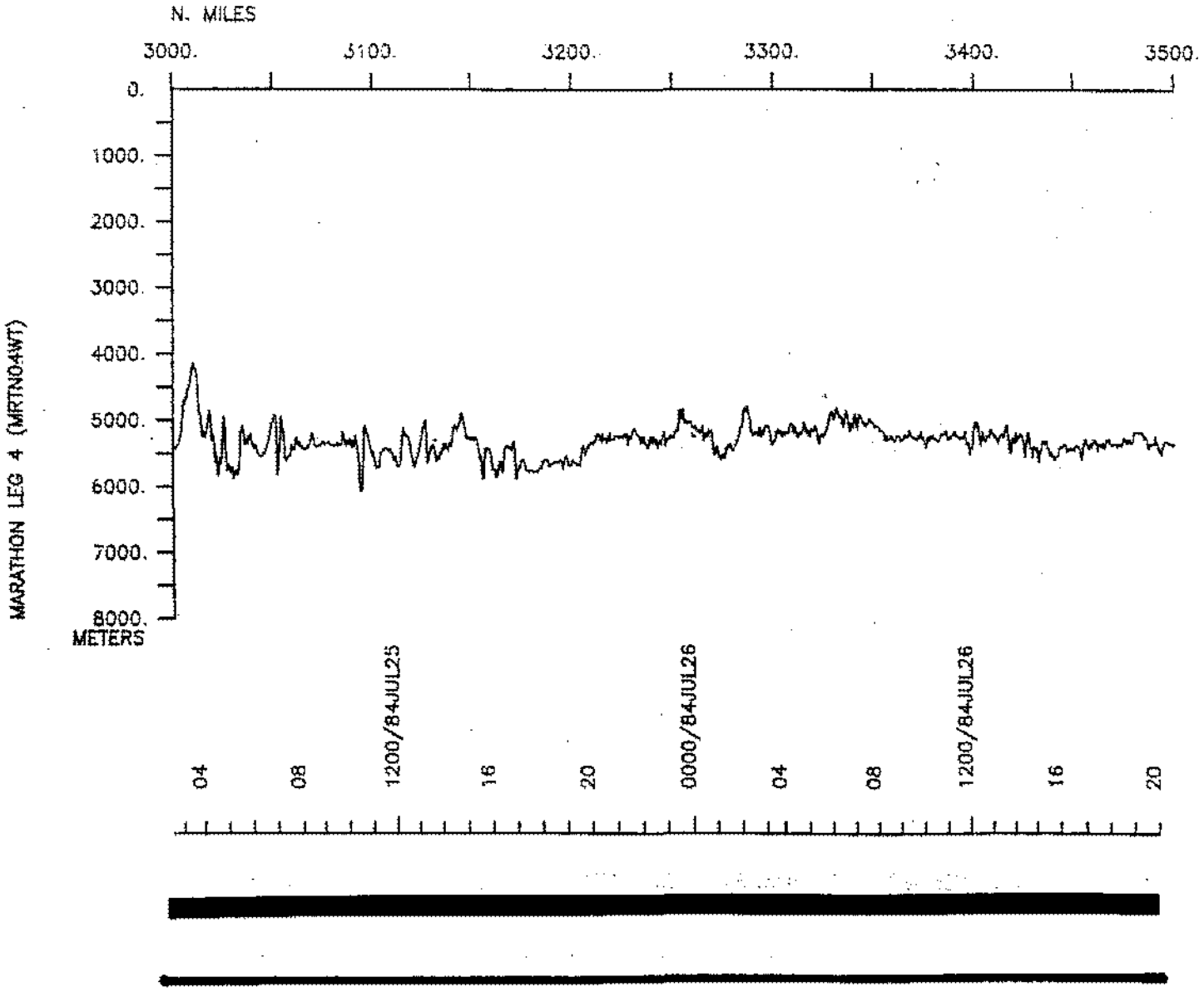
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METERS
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1200/84JUL25
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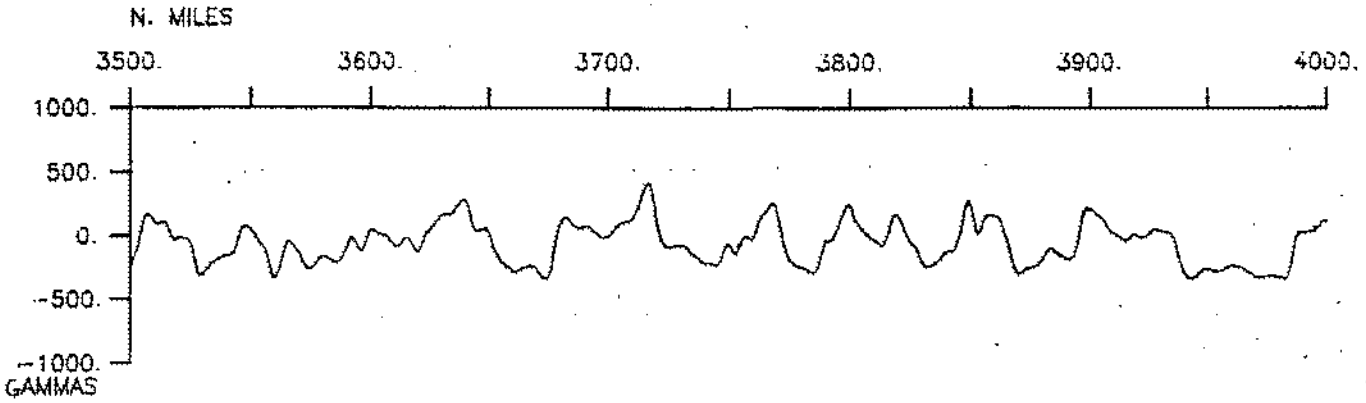
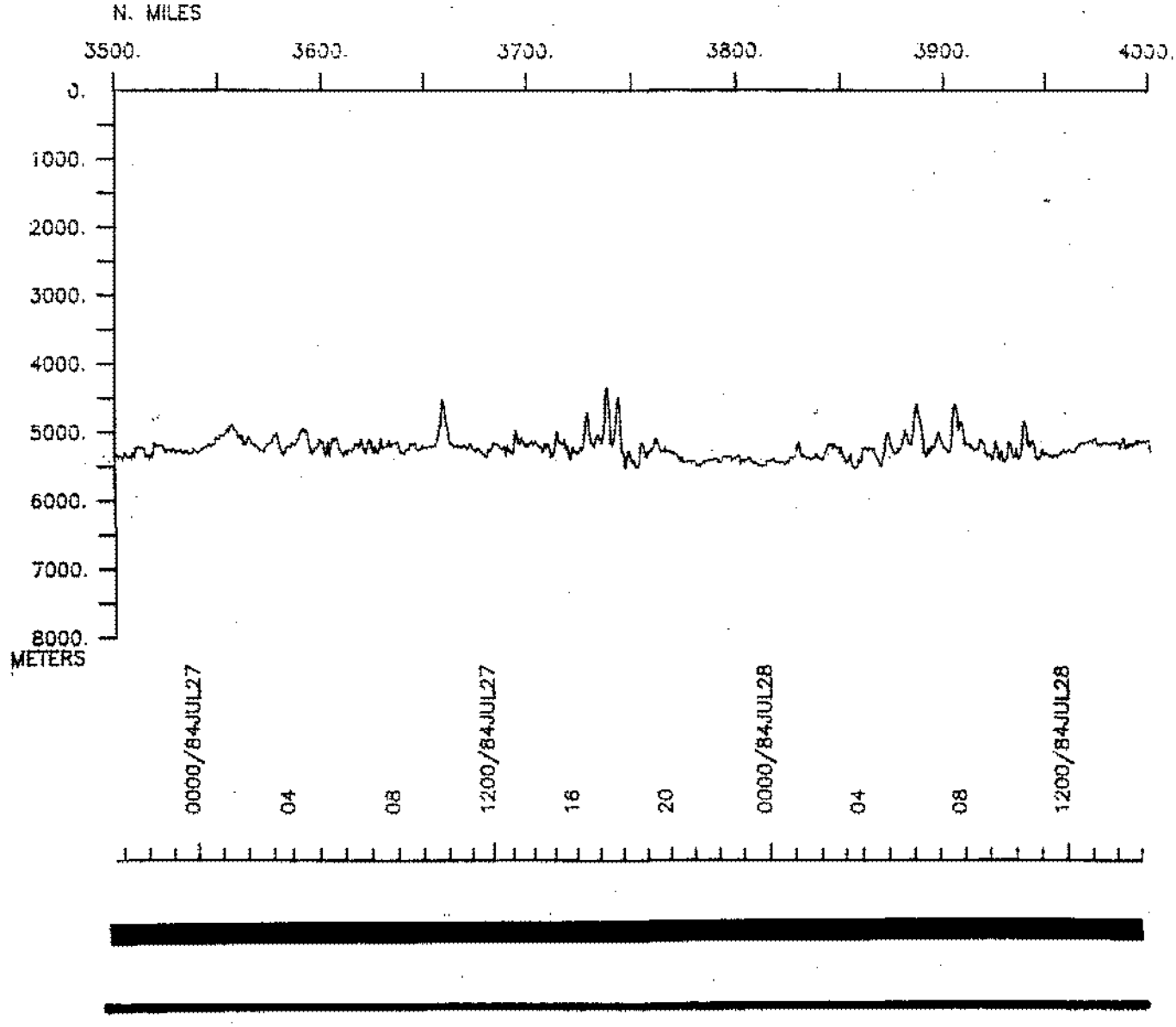
20
0000/84JUL26
04
08
1200/84JUL26
16
20





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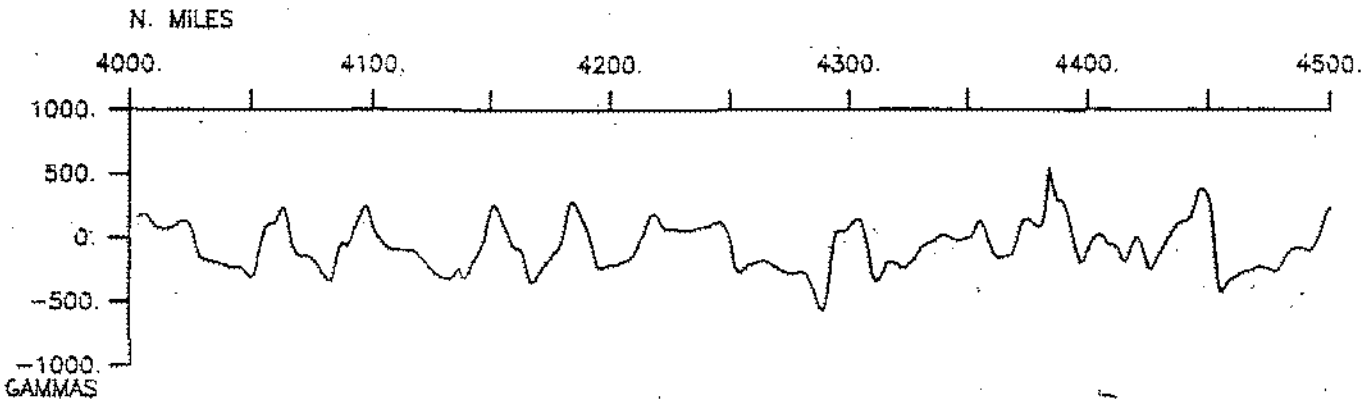
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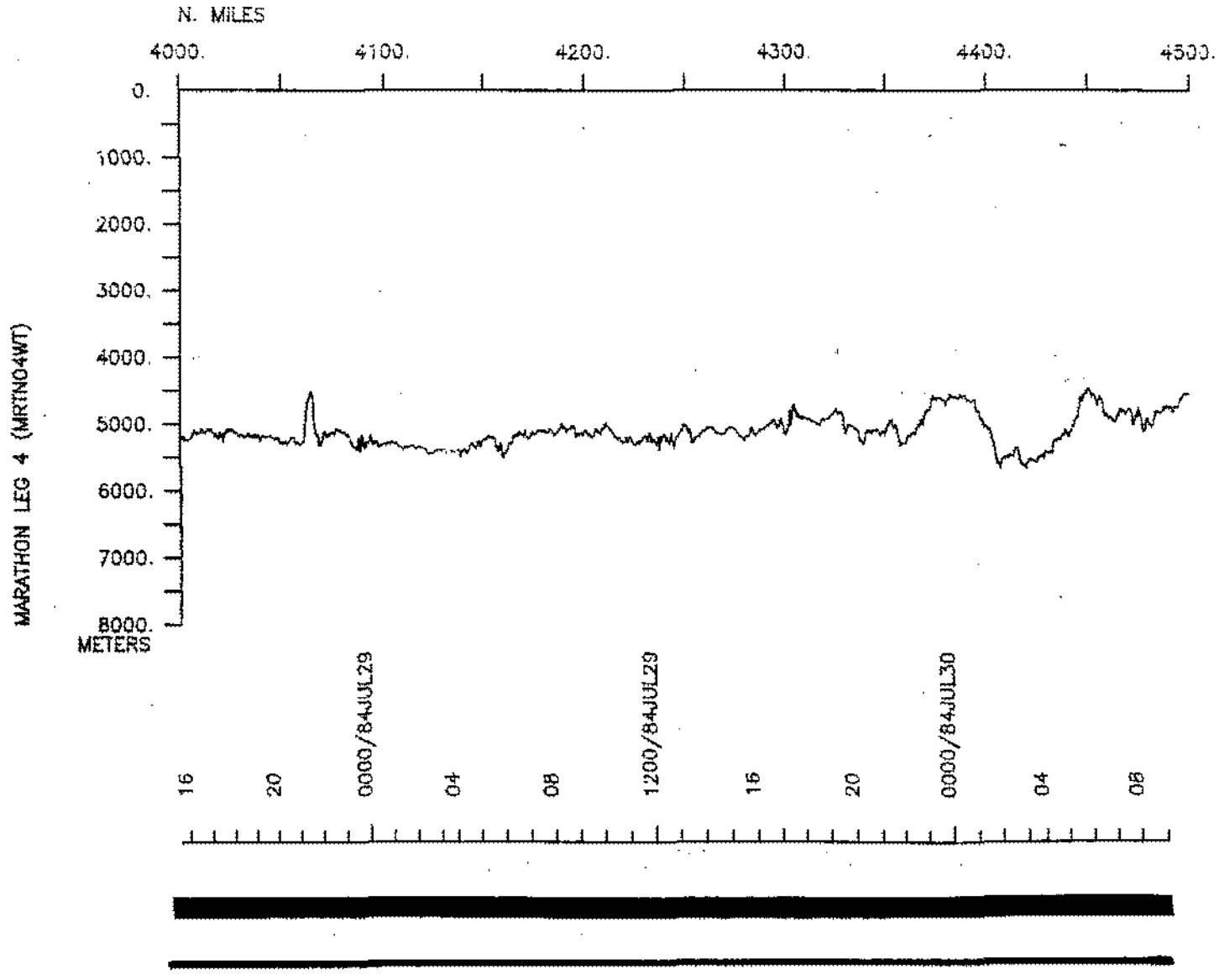
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METERS
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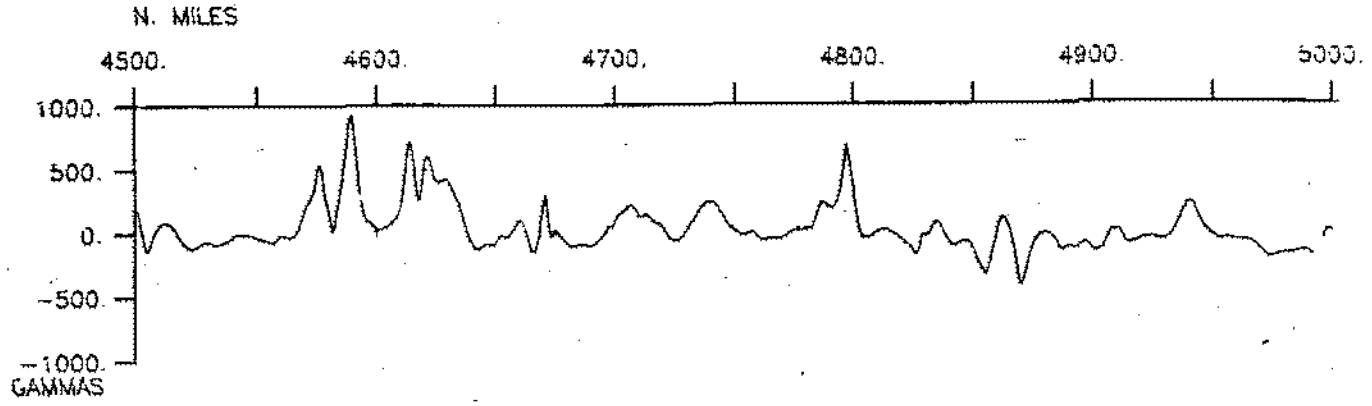
0000/84JUL30
04
08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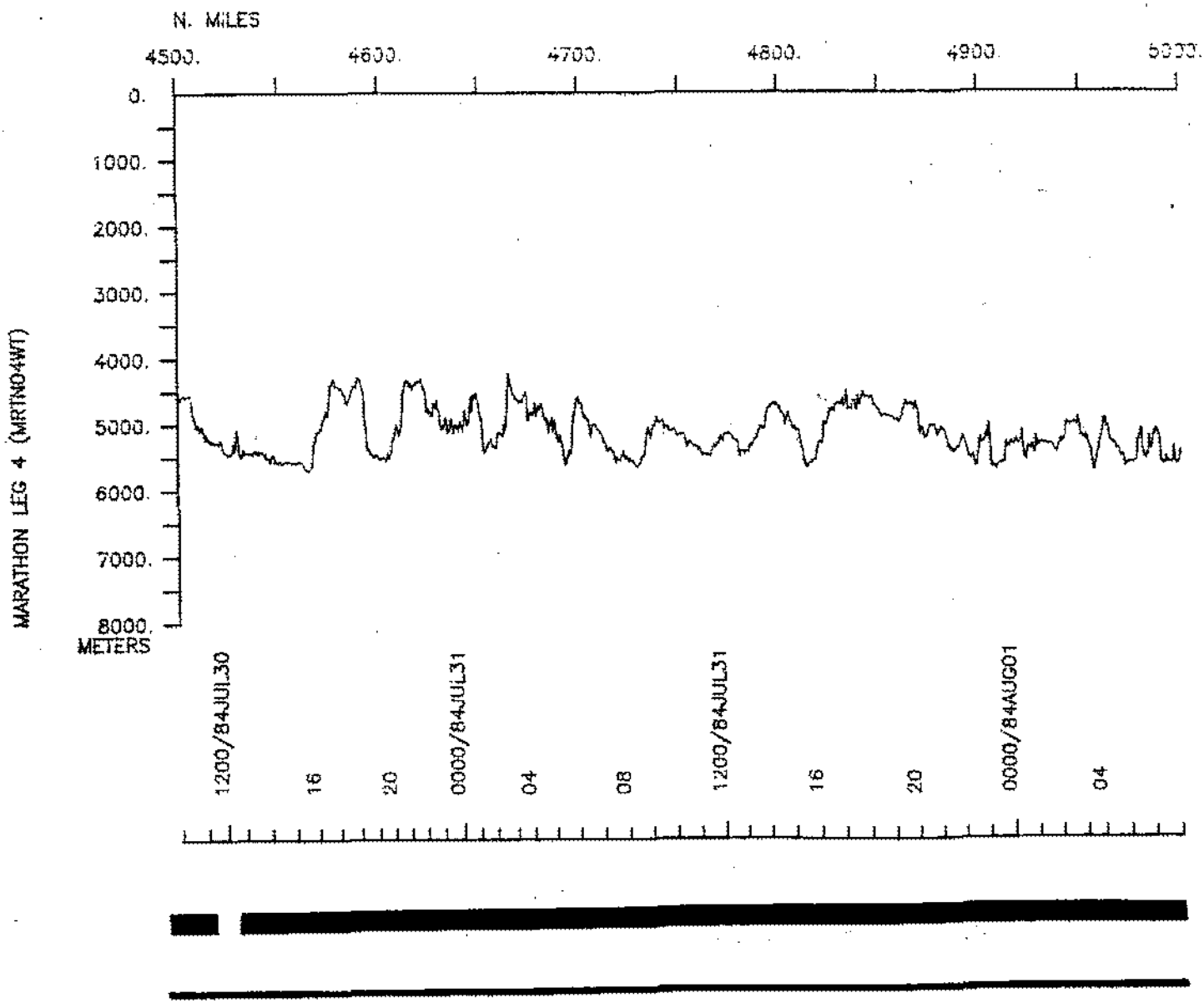
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METERS
MARATHON LEG 4 (MRTN04WT)
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0000/84AUG01
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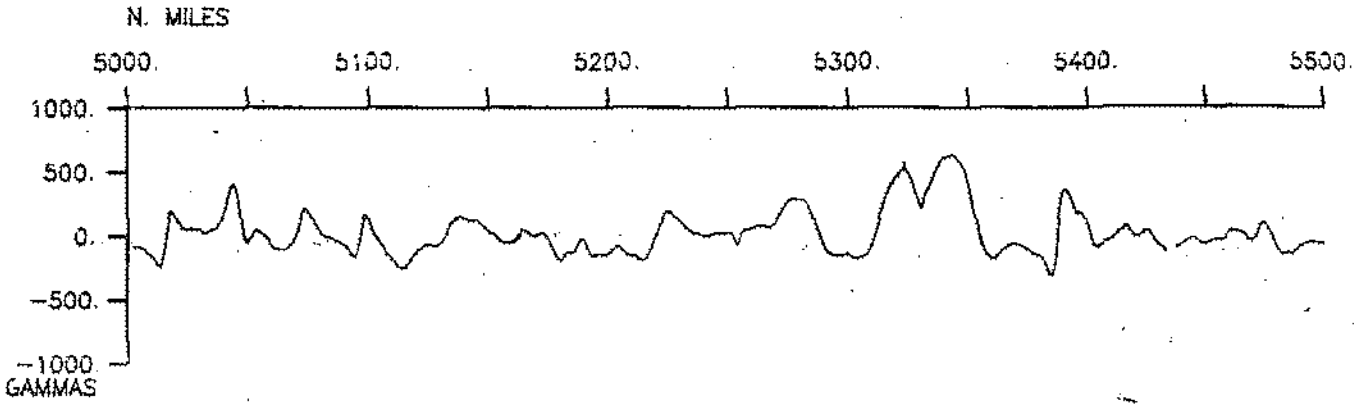
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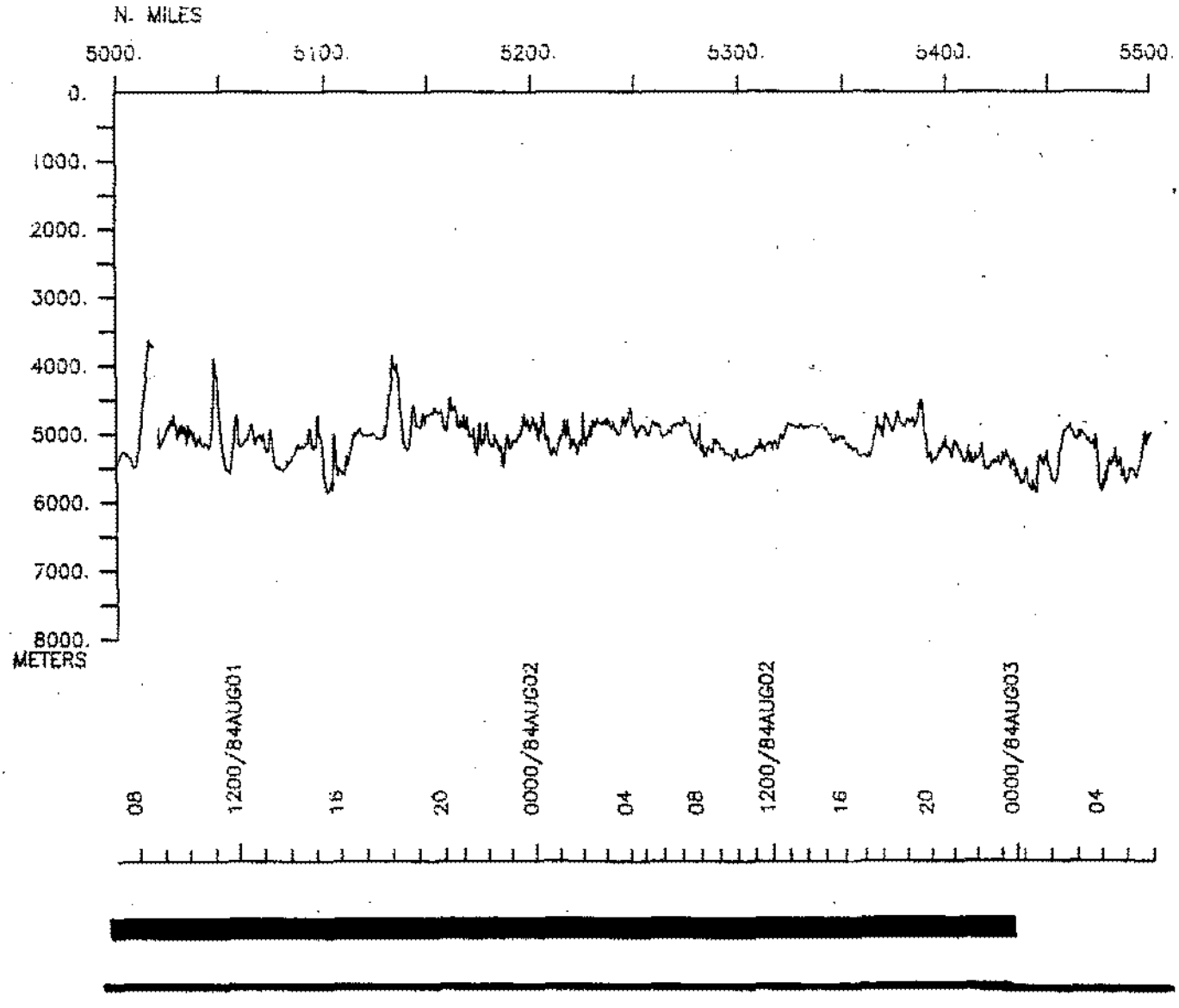
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METERS
MARATHON LEG 4 (MRTN04WT)
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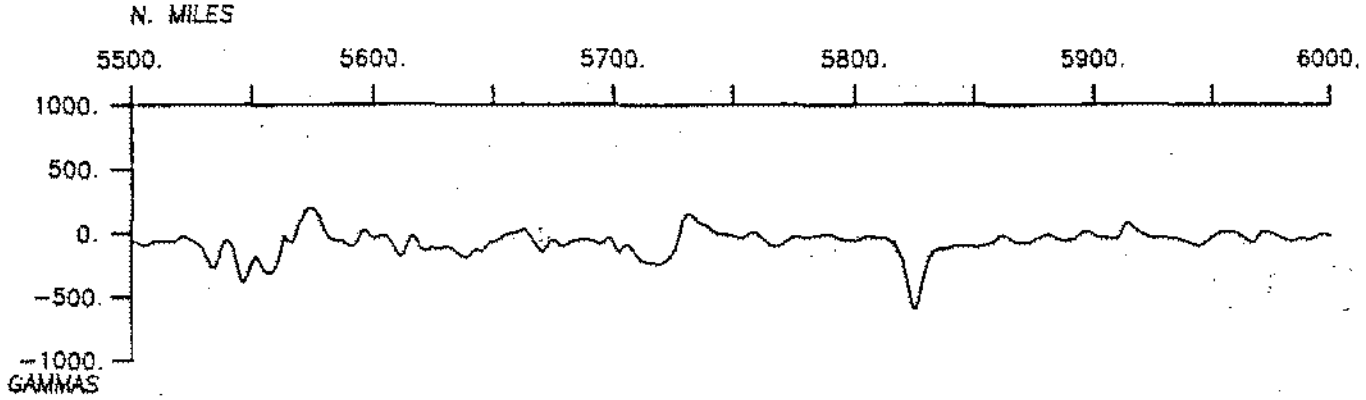

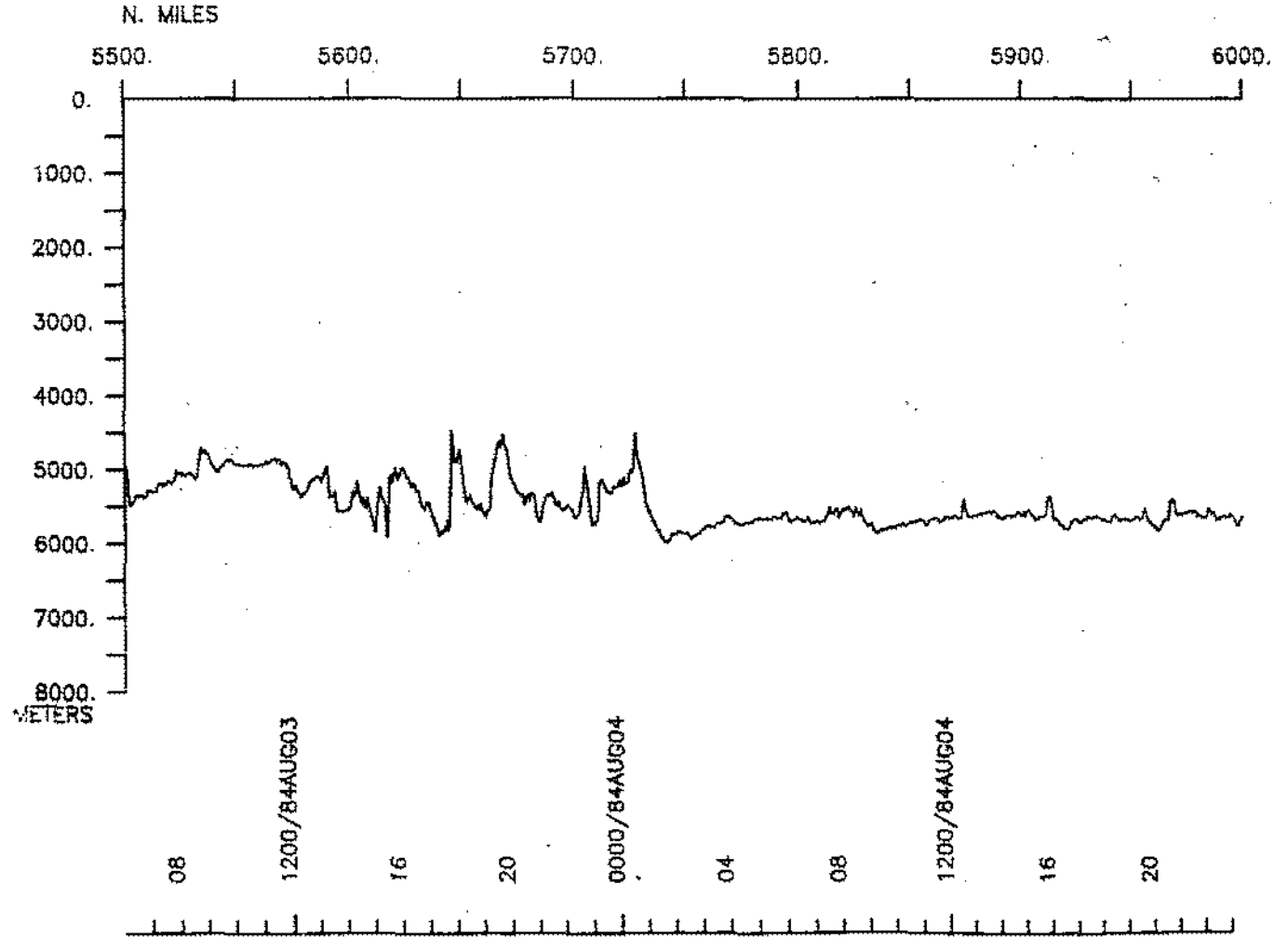

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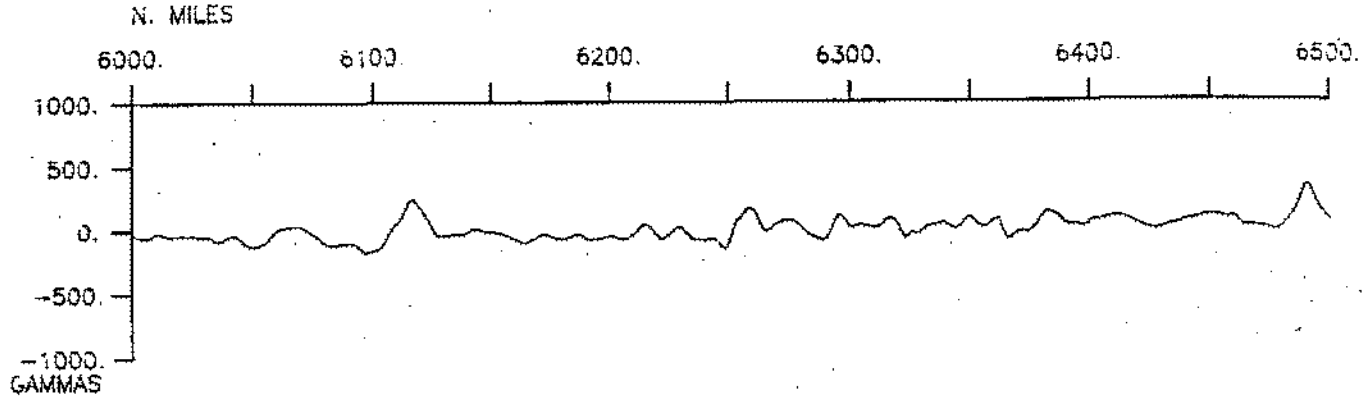
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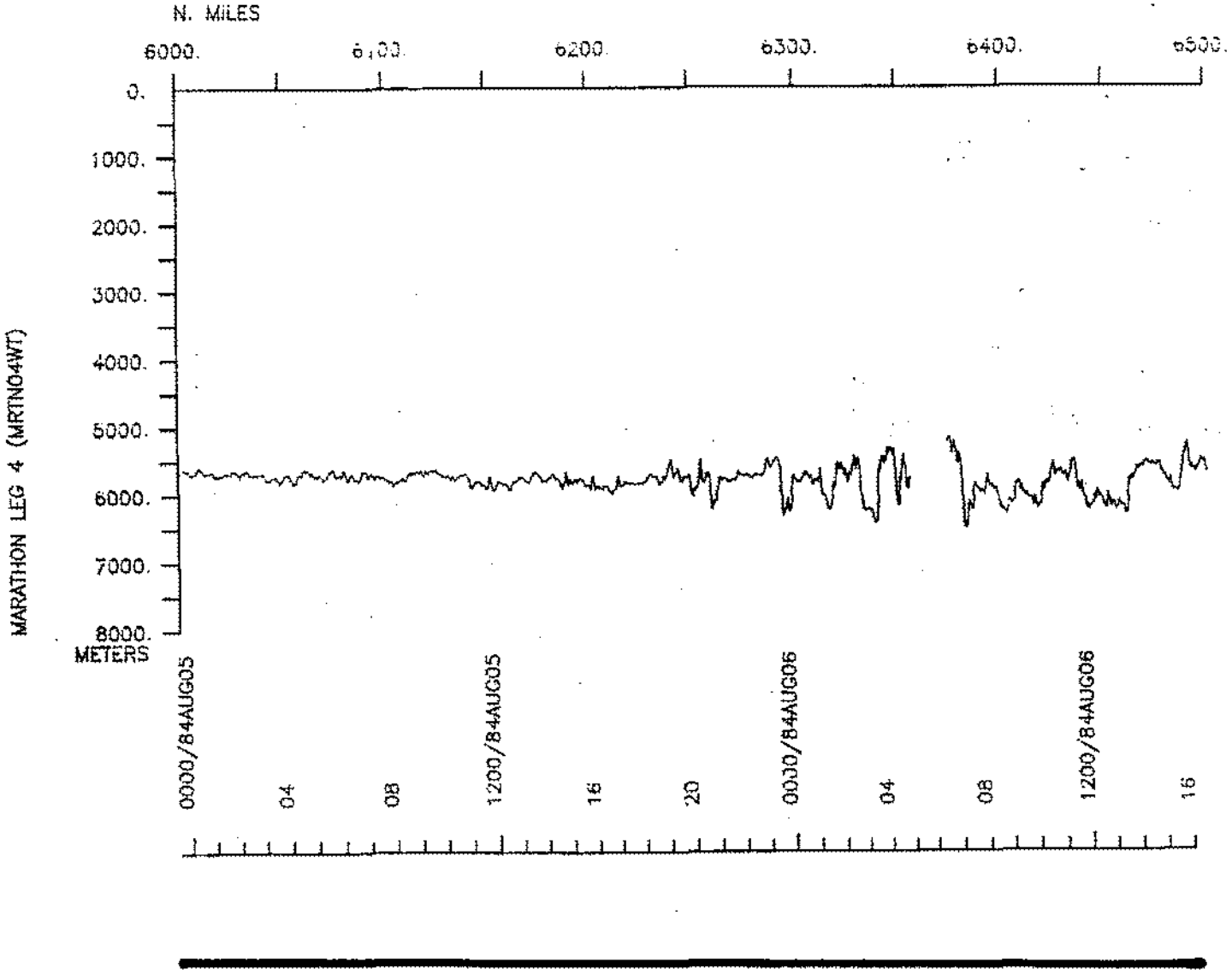
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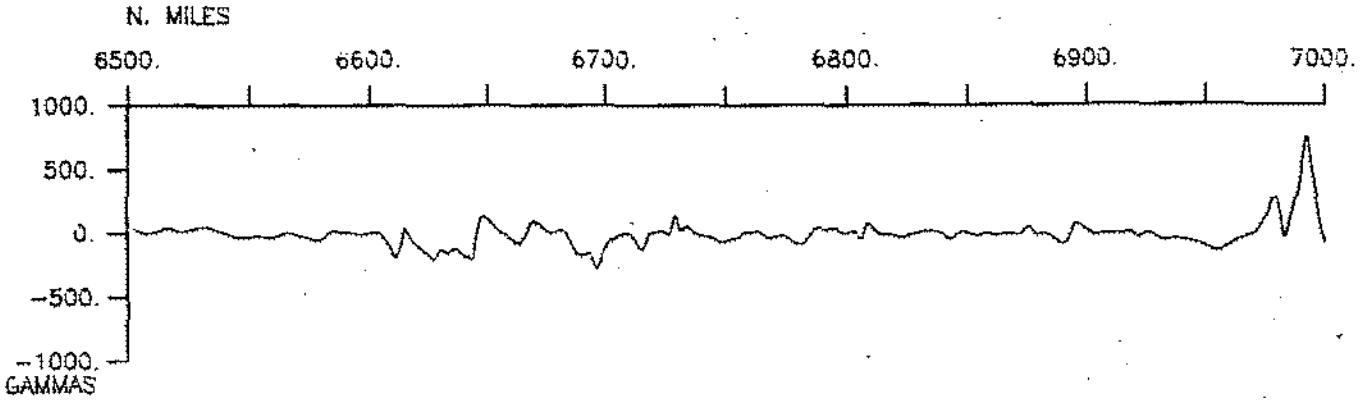
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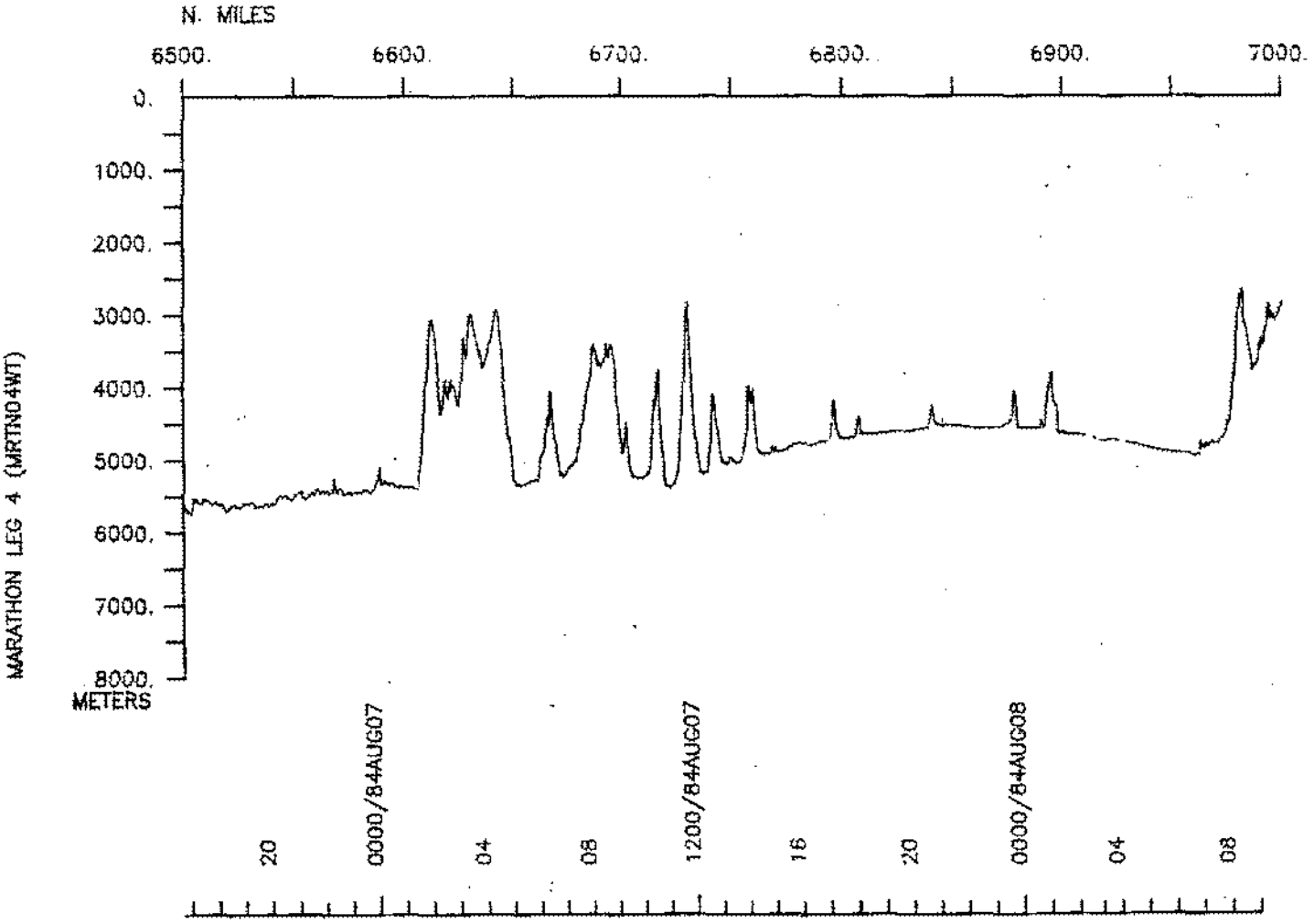
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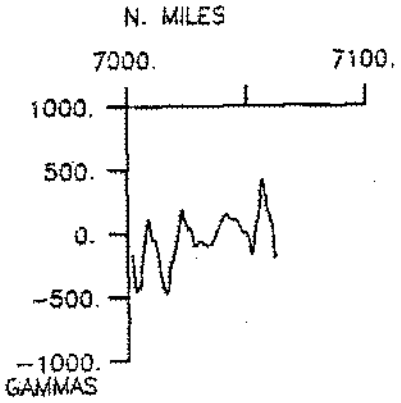
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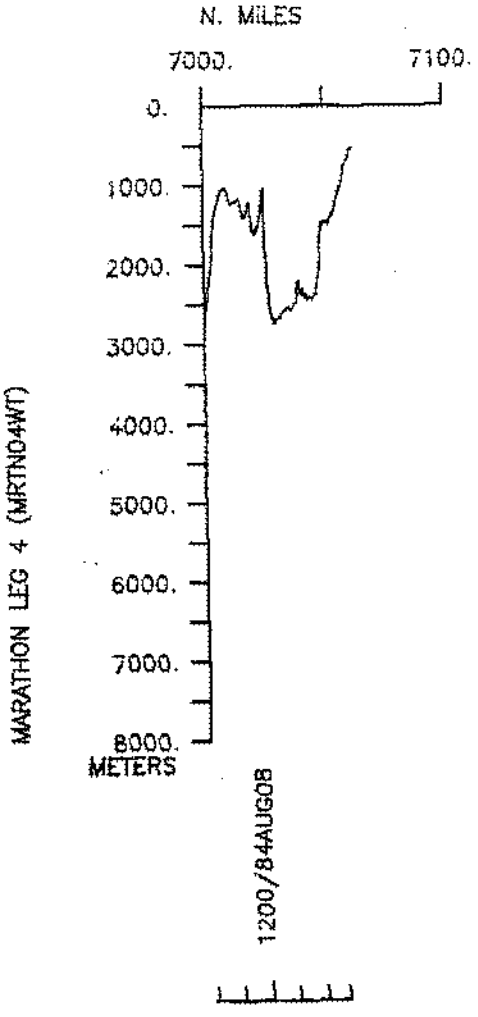
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METERS
MARATHON LEG 4 (MRTN04WT)
1200/84AUG08

S.I.O. SAMPLE INDEX

(Issued July 1985)

MARATHON EXPEDITION

Leg 4

Kodiak, Alaska (14 July 1984)
to
Honolulu, Hawaii (08 August 1984)

R/V T. Washington

Co-Chief Scientists - W. Menard and R. Hey

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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1700 080884	LGPT E HONOLULU,HAWAII	21-18 N 157-52 W fMRTN04WT

PERSONNEL

	NAME	***TITLE***	***AFFILIATION***	**CRID**
PECS IMR	MENARD,W.H.	CHIEF SCIENTIST	SCRIPPS INSTITUTION	MRTN04WT
PECS IMR	HEY,R.N.	CHIEF SCIENTIST	SCRIPPS INSTITUTION	MRTN04WT
PESP UCS	ATWATER,T.M.	PROFESSOR	UC SANTA BARBARA	MRTN04WT
PEBO MTG	ALBRIGHT,U.G.	SEABEAM OPERATOR	SCRIPPS INSTITUTION	MRTN04WT
PESP GRD	BOBBIT,A.M.	CLERK	SCRIPPS INSTITUTION	MRTN04WT
PEST SIO	CARESS,D.W.	GRADUATE STUDENT	SCRIPPS INSTITUTION	MRTN04WT
PECT MTG	CARTER,M.F.	COMPUTER TECH	SCRIPPS INSTITUTION	MRTN04WT
PEST UCS	DANENHOWER,T.B.	STUDENT	UC SANTA BARBARA	MRTN04WT
PEST UCS	DIXON,S.G.	GRADUATE STUDENT	UC SANTA BARBARA	MRTN04WT
PEBE MTG	DOWNES,P.G.	SEABEAM ENGINEER	SCRIPPS INSTITUTION	MRTN04WT
PEAT MTG	HUBENKA,F.	AIRGUN TECH	SCRIPPS INSTITUTION	MRTN04WT
PESP GRD	KEELER,M.A.	PROGRAMMER	SCRIPPS INSTITUTION	MRTN04WT
PEST SIO	KIM,I.I.	GRADUATE STUDENT	SCRIPPS INSTITUTION	MRTN04WT
PEST SIO	KLEINROCK,M.C.	GRADUATE STUDENT	SCRIPPS INSTITUTION	MRTN04WT
PERT MTG	PILLARD,E.G.	RESIDENT TECH	SCRIPPS INSTITUTION	MRTN04WT

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							
1346	080884	LBUW B	UNDERWAY WATCH	GDC	21-226N	158-203W	sMRTN04WT
1616	080884	LBUW E	LOG BOOK	GDC	21-143N	158-045W	sMRTN04WT
SEABEAM SWATH BOOKS							
0043	140784	MBSB B	SB SWATH BOOK-01	GDC	57-436N	152-213W	sMRTN04WT
1522	140784	MBSB E	SB SWATH BOOK-01	GDC	55-080N	153-430W	sMRTN04WT
1522	140784	MBSB B	SB SWATH BOOK-02	GDC	55-080N	153-430W	sMRTN04WT
0652	160784	MBSB E	SB SWATH BOOK-02	GDC	50-108N	151-581W	sMRTN04WT
0656	160784	MBSB B	SB SWATH BOOK-03	GDC	50-100N	151-581W	sMRTN04WT
1727	170784	MBSB E	SB SWATH BOOK-03	GDC	48-473N	153-083W	sMRTN04WT
1730	170784	MBSB B	SB SWATH BOOK-04	GDC	48-473N	153-074W	sMRTN04WT
0200	190784	MBSB E	SB SWATH BOOK-04	GDC	46-074N	152-490W	sMRTN04WT
0220	190784	MBSB B	SB SWATH BOOK-05	GDC	46-114N	152-479W	sMRTN04WT
1210	200784	MBSB E	SB SWATH BOOK-05	GDC	44-303N	151-428W	sMRTN04WT
1212	200784	MBSB B	SB SWATH BOOK-06	GDC	44-304N	151-434W	sMRTN04WT
0902	220784	MBSB E	SB SWATH BOOK-06	GDC	44-258N	151-479W	sMRTN04WT
0903	220784	MBSB B	SB SWATH BOOK-07	GDC	44-258N	151-477W	sMRTN04WT
1956	230784	MBSB E	SB SWATH BOOK-07	GDC	43-553N	151-028W	sMRTN04WT
1957	230784	MBSB B	SB SWATH BOOK-08	GDC	43-551N	151-029W	sMRTN04WT
0504	250784	MBSB B	SB SWATH BOOK-08	GDC	43-415N	153-031W	sMRTN04WT
0504	250784	MBSB B	SB SWATH BOOK-09	GDC	43-415N	153-031W	sMRTN04WT
1537	260784	MBSB E	SB SWATH BOOK-09	GDC	42-360N	156-343W	sMRTN04WT
1539	260784	MBSB B	SB SWATH BOOK-10	GDC	42-356N	156-342W	sMRTN04WT
0037	280784	MBSB E	SB SWATH BOOK-10	GDC	42-098N	155-034W	sMRTN04WT
0037	280784	MBSB B	SB SWATH BOOK-11	GDC	42-098N	155-034W	sMRTN04WT
1111	290784	MBSB E	SB SWATH BOOK-11	GDC	40-576N	153-044W	sMRTN04WT
1111	290784	MBSB B	SB SWATH BOOK-12	GDC	40-576N	153-044W	sMRTN04WT
2251	300784	MBSB E	SB SWATH BOOK-12	GDC	40-135N	149-070W	sMRTN04WT
2251	300784	MBSB B	SB SWATH BOOK-13	GDC	40-135N	149-070W	sMRTN04WT
1002	010884	MBSB E	SB SWATH BOOK-13	GDC	40-138N	152-457W	sMRTN04WT
1002	010884	MBSB B	SB SWATH BOOK-14	GDC	40-138N	152-457W	sMRTN04WT
0124	030884	MBSB E	SB SWATH BOOK-14	GDC	40-018N	152-369W	sMRTN04WT
0124	030884	MBSB B	SB SWATH BOOK-15	GDC	40-018N	152-369W	sMRTN04WT
1010	040884	MBSB E	SB SWATH BOOK-15	GDC	35-576N	154-009W	sMRTN04WT
1010	040884	MBSB B	SB SWATH BOOK-16	GDC	35-576N	154-009W	sMRTN04WT
1938	050884	MBSB E	SB SWATH BOOK-16	GDC	29-411N	156-447W	sMRTN04WT
1942	050884	MBSB B	SB SWATH BOOK-17	GDC	29-403N	156-450W	sMRTN04WT
0426	070884	MBSB E	SB SWATH BOOK-17	GDC	26-366N	158-444W	sMRTN04WT
0426	070884	MBSB B	SB SWATH BOOK-18	GDC	26-366N	158-444W	sMRTN04WT
1346	080884	MBSB E	SB SWATH BOOK-18	GDC	21-226N	158-203W	sMRTN04WT
1346	080884	MBSB B	SB SWATH BOOK-19	GDC	21-226N	158-203W	sMRTN04WT
1609	080884	MBSB E	SB SWATH BOOK-19	GDC	21-143N	158-045W	sMRTN04WT

SEABEAM MONITOR 12Khz

0016 140784	MBRM B SB UGR MONITOR-01	GDC 57-449N 152-240W	sMRTN04WT
2300 170784	MBRM E SB UGR MONITOR-01	GDC 48-244N 153-192W	sMRTN04WT
2318 170784	MBRM B SB UGR MONITOR-02	GDC 48-244N 153-249W	sMRTN04WT
0010 230784	MBRM E SB UGR MONITOR-02	GDC 44-063N 152-011W	sMRTN04WT
0030 220784	MBRM B SB UGR MONITOR-03	GDC 44-246N 152-314W	sMRTN04WT
0019 280784	MBRM E SB UGR MONITOR-03	GDC 42-090N 155-080W	sMRTN04WT
0046 280784	MBRM B SB UGR MONITOR-04	GDC 42-103N 155-008W	sMRTN04WT
0236 020884	MBRM E SB UGR MONITOR-04	GDC 40-182N 152-475W	sMRTN04WT
0251 020884	MBRM B SB UGR MONITOR-05	GDC 40-184N 152-438W	sMRTN04WT
0400 070884	MBRM E SB UGR MONITOR-05	GDC 26-376N 158-396W	sMRTN04WT
0416 070884	MBRM B SB UGR MONITOR-06	GDC 26-377N 158-434W	sMRTN04WT
0613 080884	MBRM E SB UGR MONITOR-06	GDC 22-268N 158-228W	sMRTN04WT

MAGNETICS

0330 140784	MGRA B MAGNETICS ANALOGUE	GDC 57-215N 152-124W	sMRTN04WT
1730 190784	MGRA E RECORD-01	GDC 46-315N 151-468W	sMRTN04WT
1740 190784	MGRA B MAGNETICS ANALOGUE	GDC 46-295N 151-472W	sMRTN04WT
0540 310784	MGRA E RECORD-02	GDC 40-138N 150-135W	sMRTN04WT
0552 310784	MGRA B MAGNETICS ANALOGUE	GDC 40-153N 150-154W	sMRTN04WT
1613 080884	MGRA E RECORD-03	GDC 21-143N 158-045W	sMRTN04WT

SEISMIC REFLECTION, SLOW SWEEP

0400 150784	SPRS B AIRGUN-SLOW R-01	GDC 52-465N 155-074W	sMRTN04WT
1724 240784	SPRS E 4-SEC	GDC 43-499N 152-431W	sMRTN04WT
1736 240784	SPRS B AIRGUN-SLOW R-02	GDC 43-513N 152-419W	sMRTN04WT
0058 030884	SPRS E 4-SEC	GDC 39-586N 152-428W	sMRTN04WT

SEISMIC REFLECTION, FAST SWEEP

0400 150784	SPRF B AIRGUN-FAST R-01	GDC 52-465N 155-074W	sMRTN04WT
1554 180784	SPRF E 2-SEC	GDC 46-002N 152-456W	sMRTN04WT
1609 180784	SPRF B AIRGUN-FAST R-02	GDC 46-002N 152-500W	sMRTN04WT
0426 220784	SPRF E 2-SEC	GDC 44-235N 152-459W	sMRTN04WT
0434 220784	SPRF B AIRGUN-FAST R-03	GDC 44-236N 152-442W	sMRTN04WT
1800 230784	SPRF E 2-SEC	GDC 43-478N 150-538W	sMRTN04WT
1812 230784	SPRF B AIRGUN-FAST R-04	GDC 43-502N 150-527W	sMRTN04WT
0400 290784	SPRF E 2-SEC	GDC 41-004N 155-006W	sMRTN04WT
0410 290784	SPRF B AIRGUN-FAST R-05	GDC 41-001N 154-583W	sMRTN04WT
1710 010884	SPRF E 2-SEC	GDC 39-354N 153-439W	sMRTN04WT
1716 010884	SPRF B AIRGUN-FAST R-06	GDC 39-363N 153-452W	sMRTN04WT
0058 030884	SPRF E 2-SEC	GDC 39-586N 152-428W	sMRTN04WT

SEABEAM TRANSIT LINE

0100 140784	MBTL	B	SEABEAM TRANSIT LINE	GDC 57-430N 152-166W	sMRTN04WT
0200 150784	MBTL	E	SEABEAM TRANSIT LINE	GDC 53-047N 154-550W	sMRTN04WT
1300 010884	MBTL	B	SEABEAM TRANSIT LINE	GDC 40-030N 153-126W	sMRTN04WT
0000 060884	MBTL	E	SEABEAM TRANSIT LINE	GDC 28-518N 157-022W	sMRTN04WT
0700 070884	MBTL	B	SEABEAM TRANSIT LINE	GDC 26-078N 158-424W	sMRTN04WT
1619 080884	MBTL	E	SEABEAM TRANSIT LINE	GDC 21-143N 158-045W	sMRTN04WT
0200 150784	MBSV	B	SB SURVEY SURVEYOR	GDC 53-047N 154-550W	sMRTN04WT
1300 010884	MBSV	E	TO MENDOCINO F-ZONE	GDC 40-030N 153-126W	sMRTN04WT

SEABEAM SURVEY

0000 060884	MBSV	B	SB SURVEY MURRAY	GDC 28-518N 157-022W	sMRTN04WT
0600 070884	MBSV	E	FRACTURE ZONE	GDC 26-172N 158-444W	sMRTN04WT

END SAMPLE INDEX