

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

PLUME EXPEDITION

LEG 4

=====

R/V Thomas Washington

(Issued July 1990)

Recife, Brazil (8 March 1990)  
to  
Montevideo, Uruguay (11 April 1990)

Co-Chief Scientists:

John Orcutt (Scripps Institution of Oceanography)  
Don Forsyth (Brown University)

Post-Cruise Processing and Report Preparation by the  
Geological Data Center, Scripps Institution of Oceanography  
La Jolla, California 92093

Data Collection and Processing Funded by:  
NSF Grant Number OCE87-02835

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

GDC Cruise I.D.# 246

## INFORMAL REPORT AND INDEX OF NAVIGATION AND UNDERWAY GEOPHYSICAL DATA

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Processed by the Geological Data Center  
Scripps Institution of Oceanography

### Contents:

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

**Track Charts** - annotated with dates and hour ticks.

**Profiles** - depth, magnetic anomaly and gravity free air anomaly vs. distance. Sections of track having subbottom profile (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 and measurements (geology, biology, physical oceanography, etc.) collected on the cruise leg.

**NOTE:** One or more of the underway data types may not be collected on a given 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, CA 92093-0223. Phone (619)534-2752. Fax (619)534-5306.

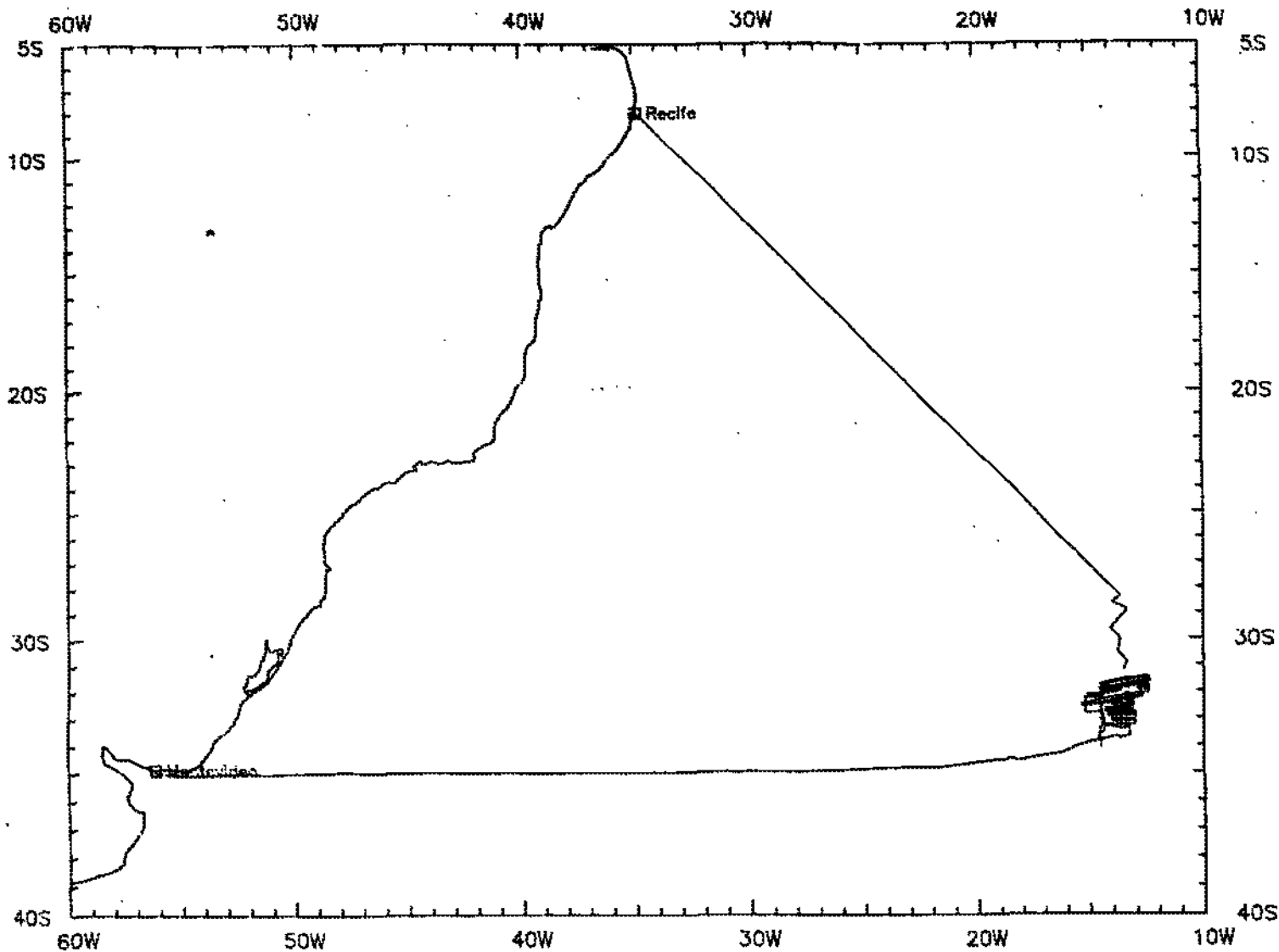
1. Navigation listing with times and positions of course and speed changes, fixes and drift velocity.
2. Depth compilation plots - compilation plots at the traditional scale of 4in/degree longitude (1:1,000,000) are no longer produced for Sea Beam cruises. Custom plots may be requested of vertical beam (2 $\frac{2}{3}$  degree beam width) depths retrieved at one minute intervals of ship time.
3. Plots of depths, magnetics or gravity profiles along track - custom plots at various map and profile scales on Mercator projection may be requested.
4. Separate time series files of navigation, depth, gravity and magnetics as well as these 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
  - c. Magnetometer records
  - d. Underway data log book

## SIO Sea Beam Data Information

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

- 1) Archive 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 Sea Beam monitor record and navigation list.
- 3) Sea Beam merged tapes - Sea Beam data merged with navigation. (Navigation is edited to the extent that DR courses and speeds are edited and 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) Archive contour plots - 16"/degree chart scale, with contour interval nominally 50m, are generated for all transit lines. Some survey areas are plotted at appropriate scales as well. Available for inspection at data center; additional copies may be generated from plot files stored on tape.
- 5) 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).

Revised October 1986



#### PLUME EXPEDITION LEG 4

##### CO-CHIEF SCIENTISTS:

J. Orcutt - Scripps Institution of Oceanography

D. Forsyth - Brown University

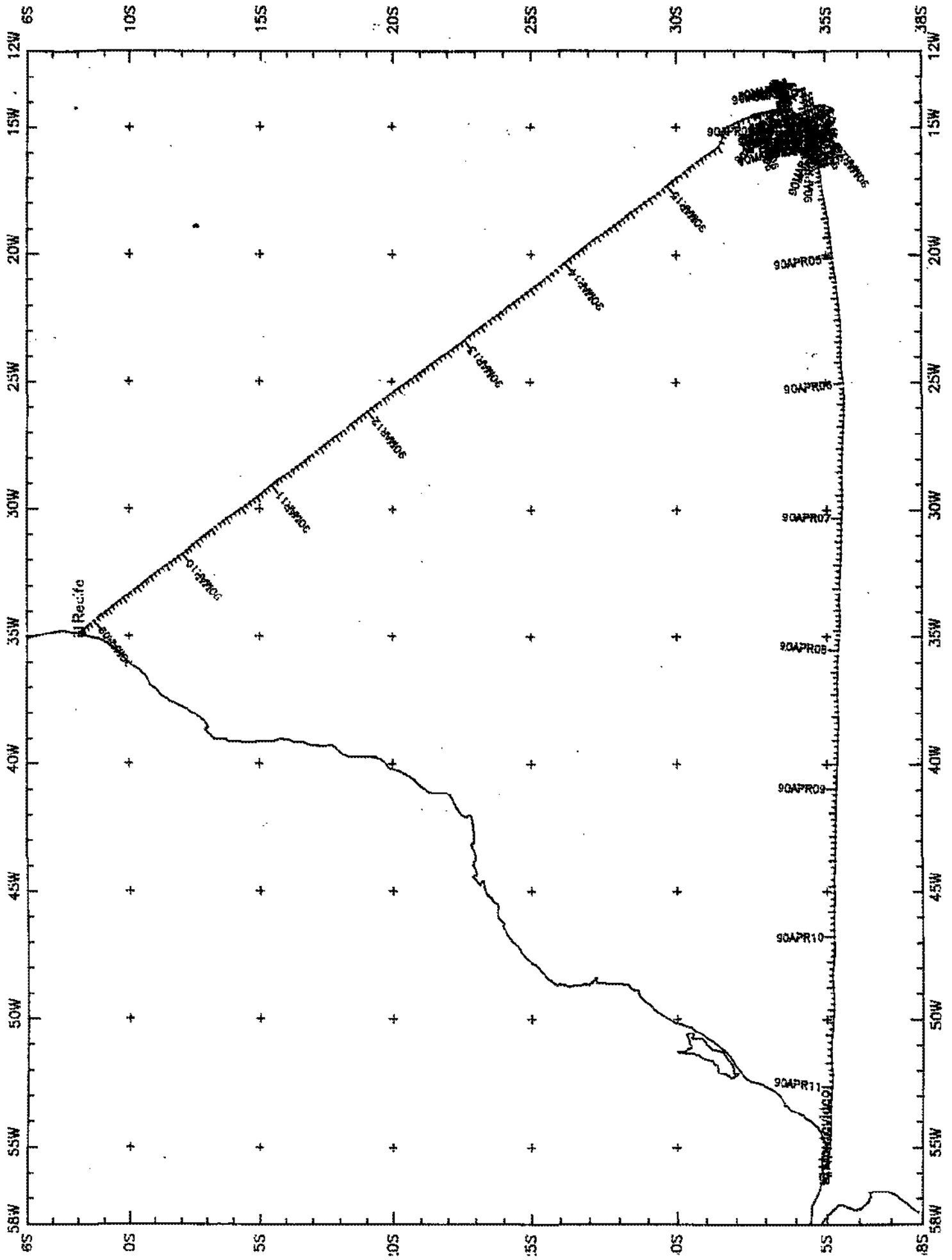
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DATES: 8 March - 11 April 1990

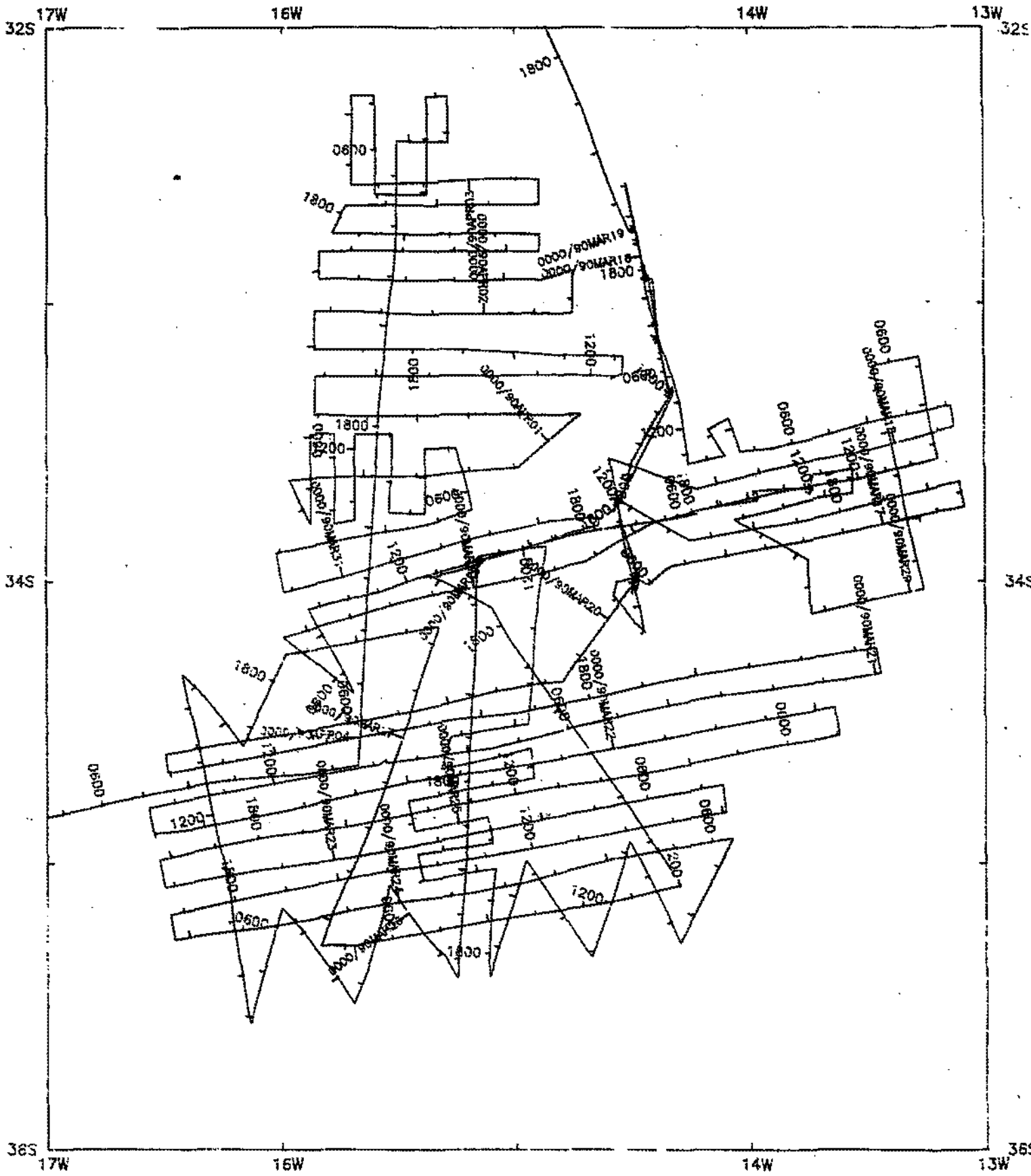
SHIP: R/V T. Washington

##### TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

- 1) Cruise - 8142 miles
- 2) Bathymetry - 7917 miles
- 3) Magnetics - 7210 miles
- 4) Seismic Reflection - none collected
- 5) Gravity - 8142 miles
- 6) Sea Beam - 7917 miles

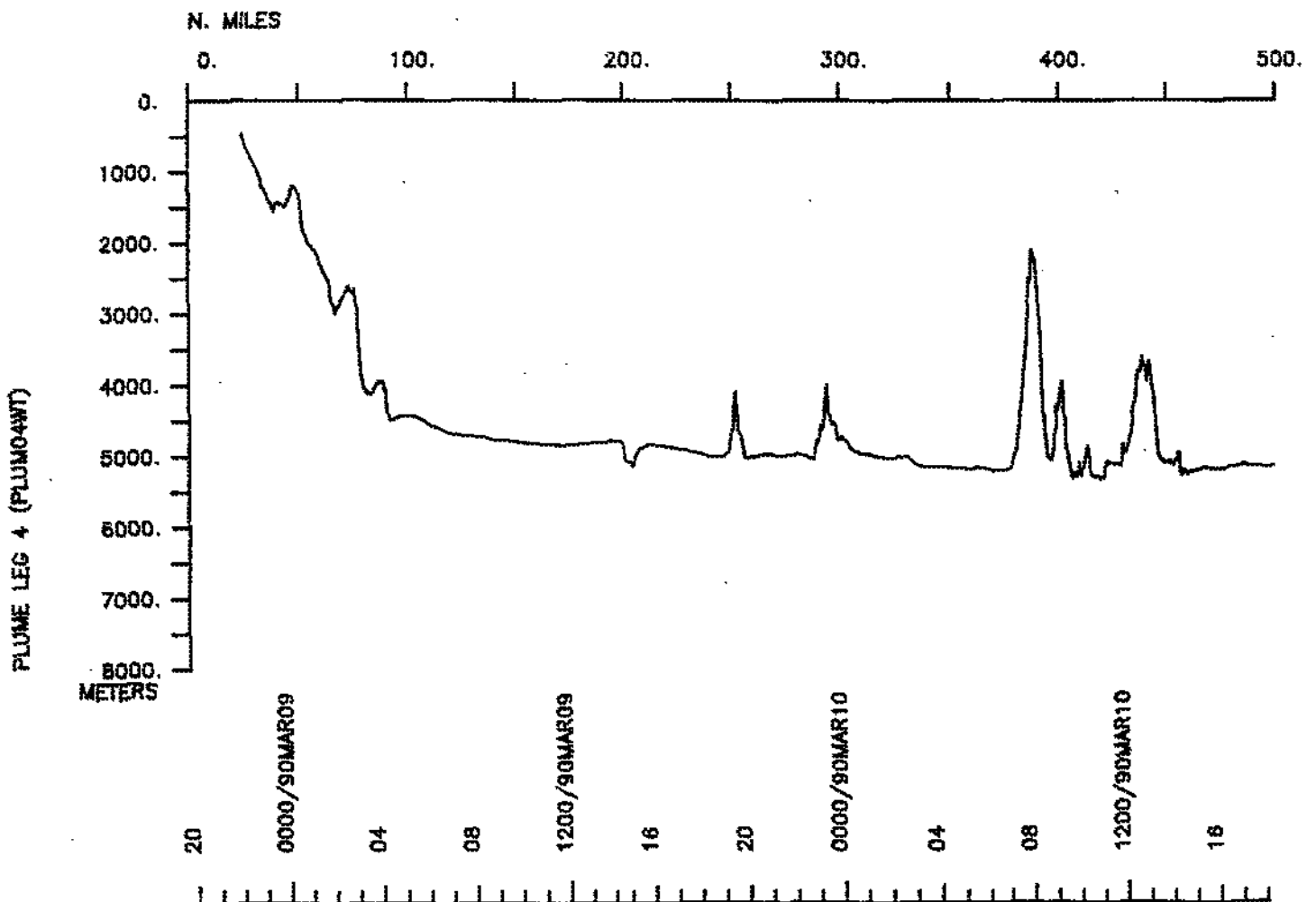
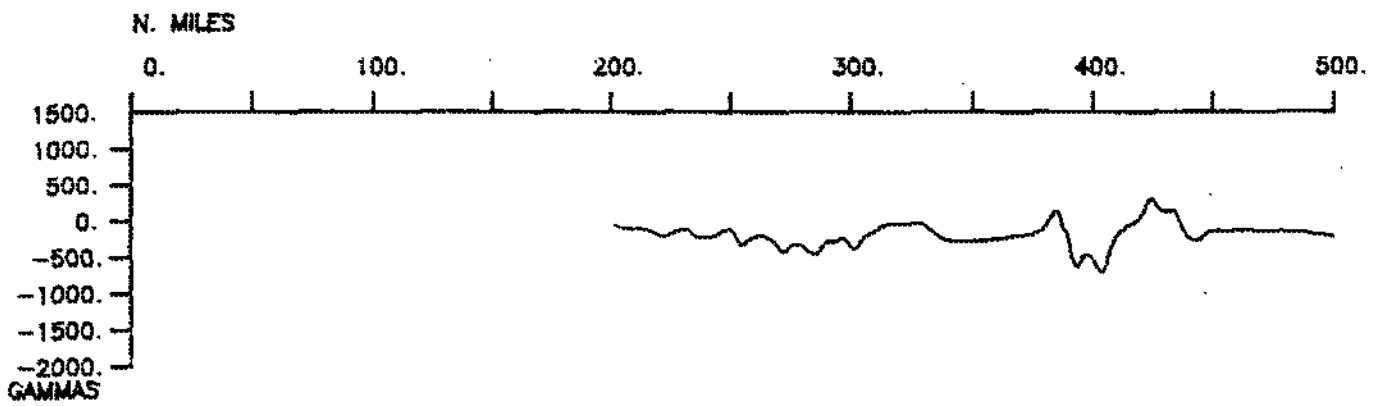
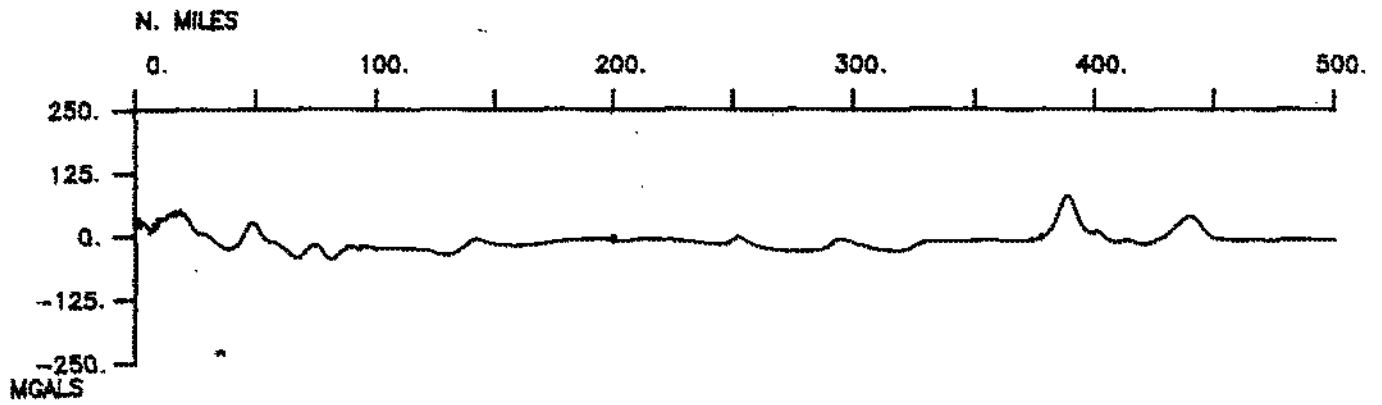


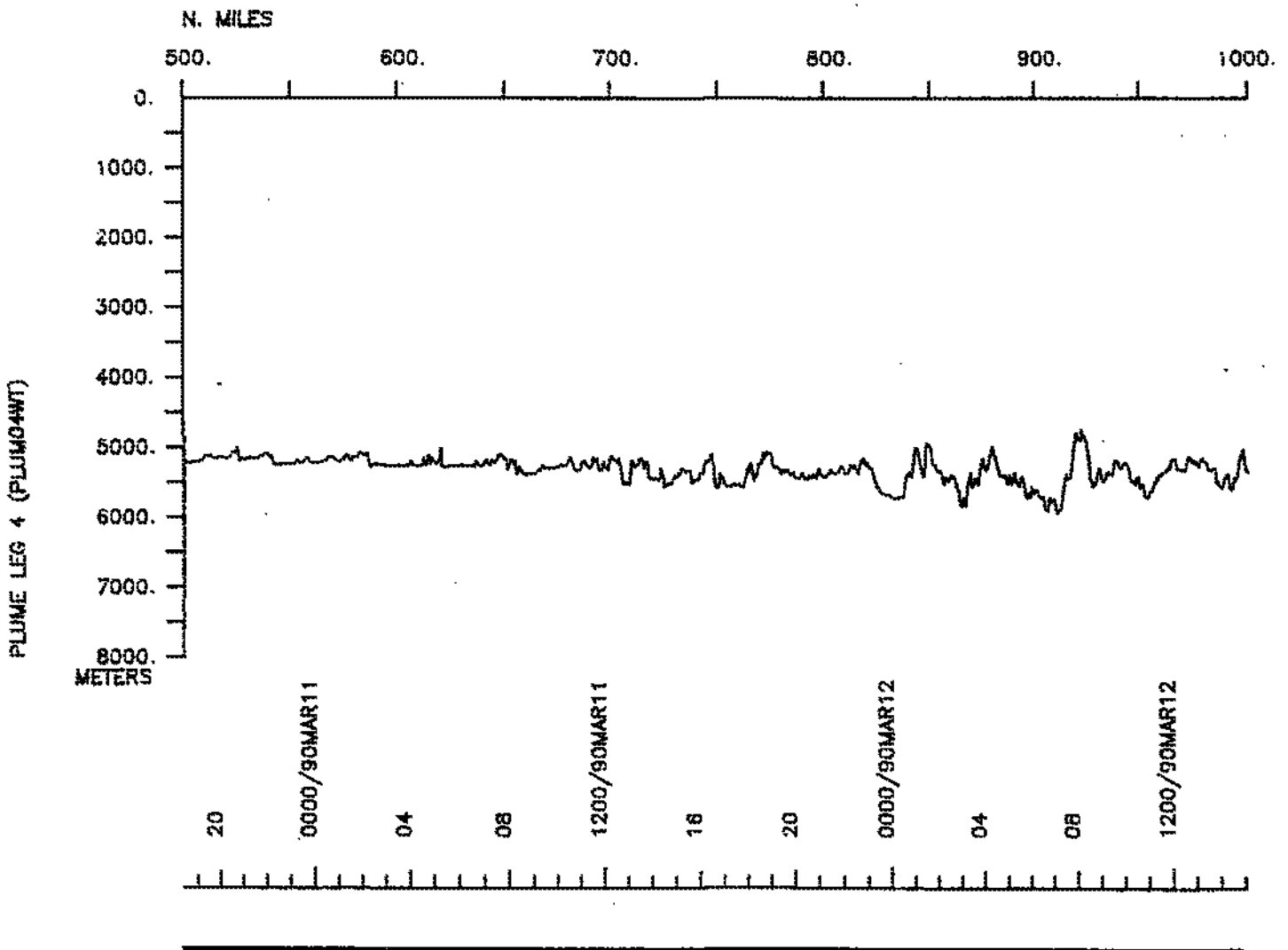
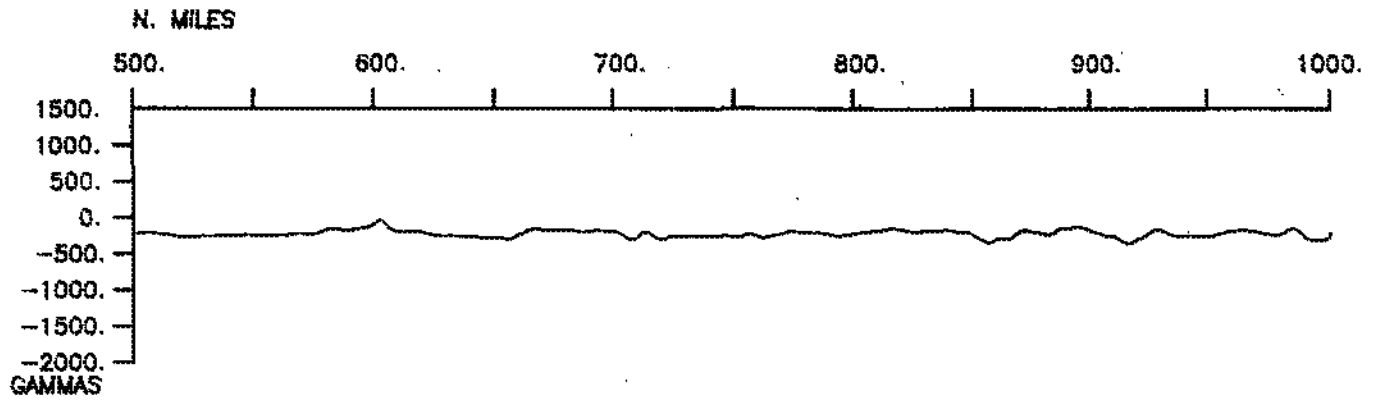
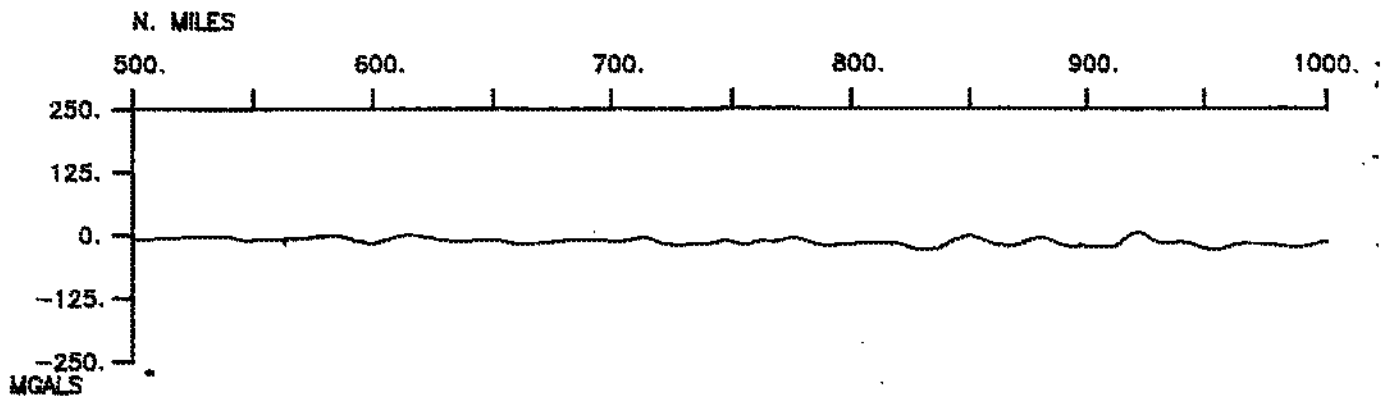
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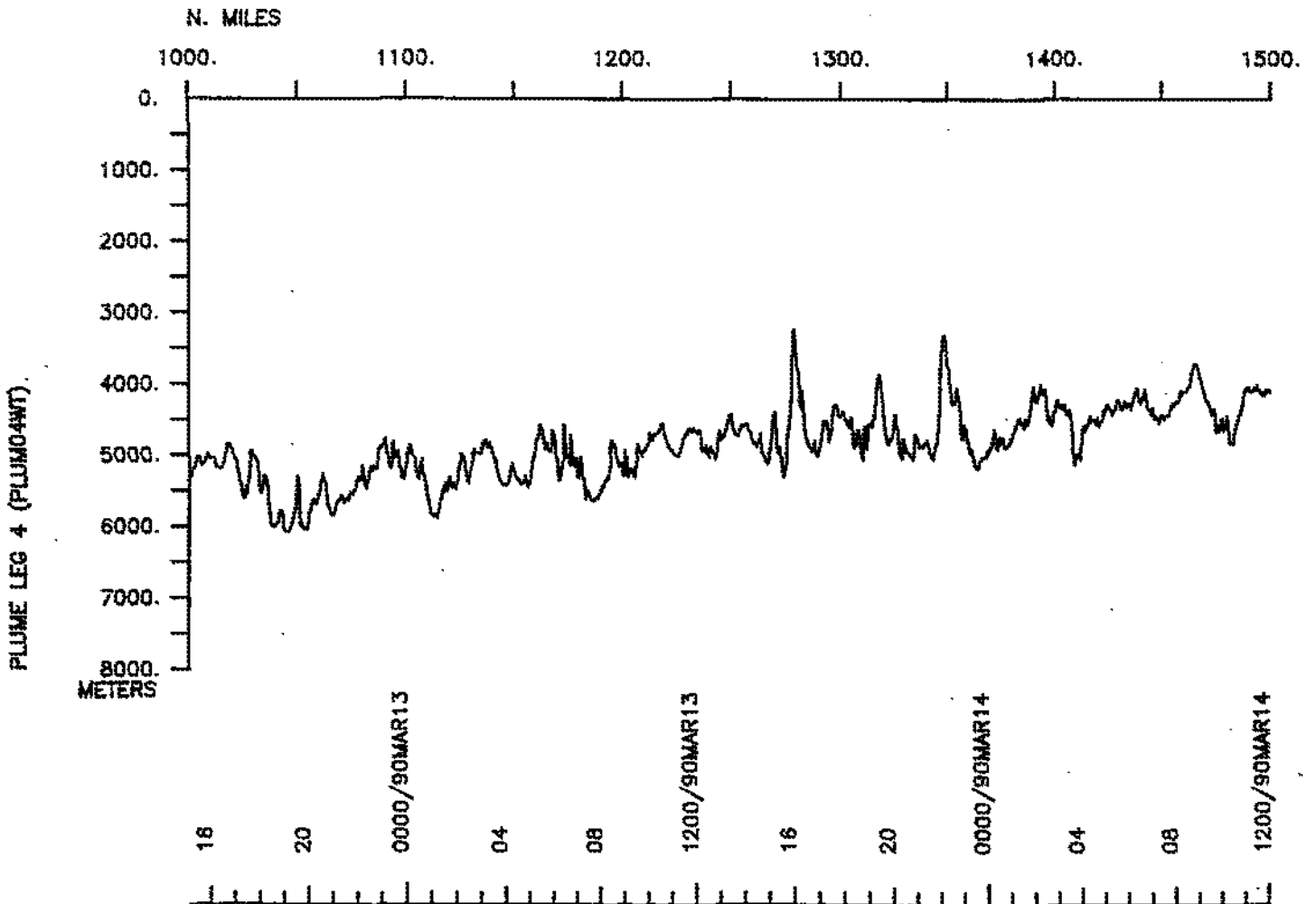
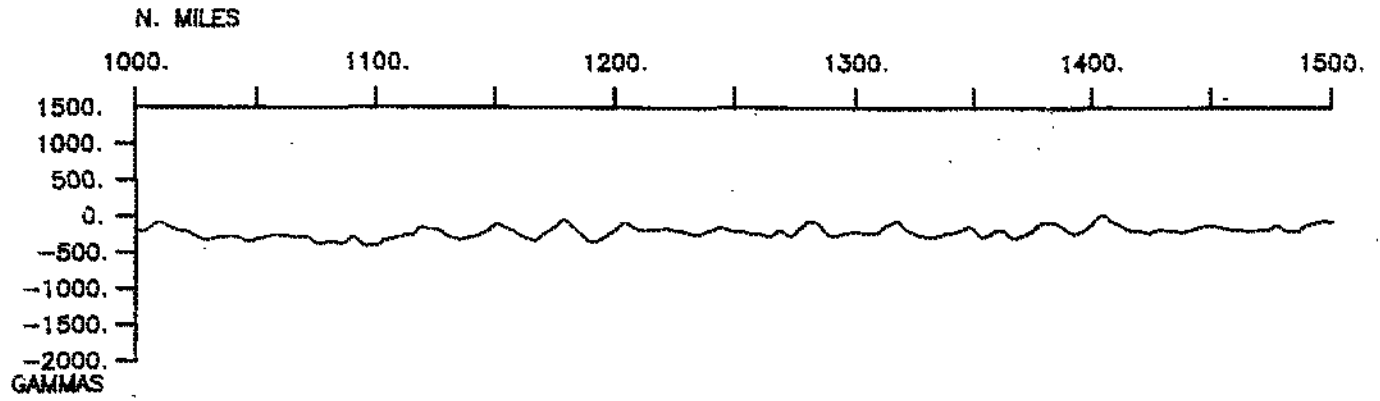
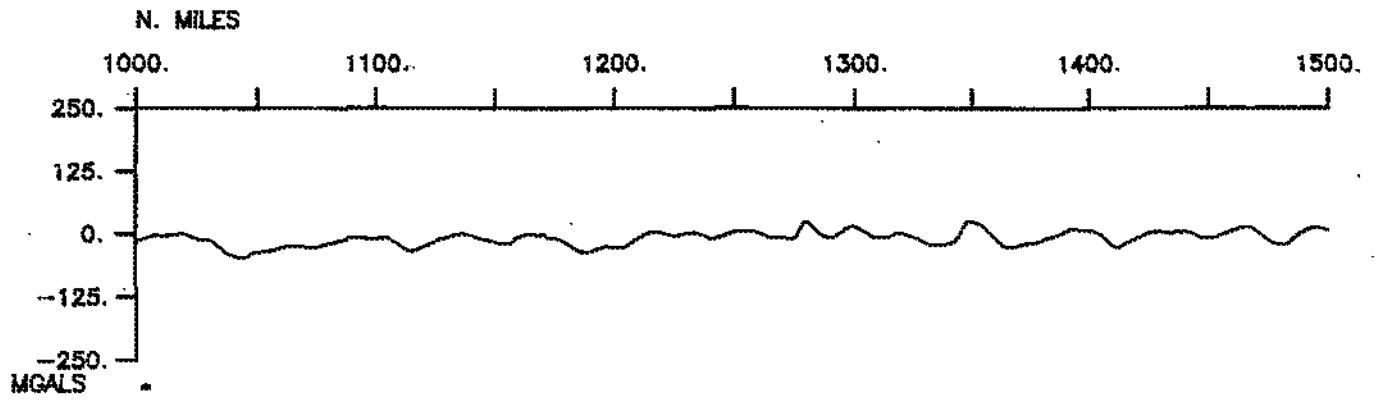
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 (Survey area)

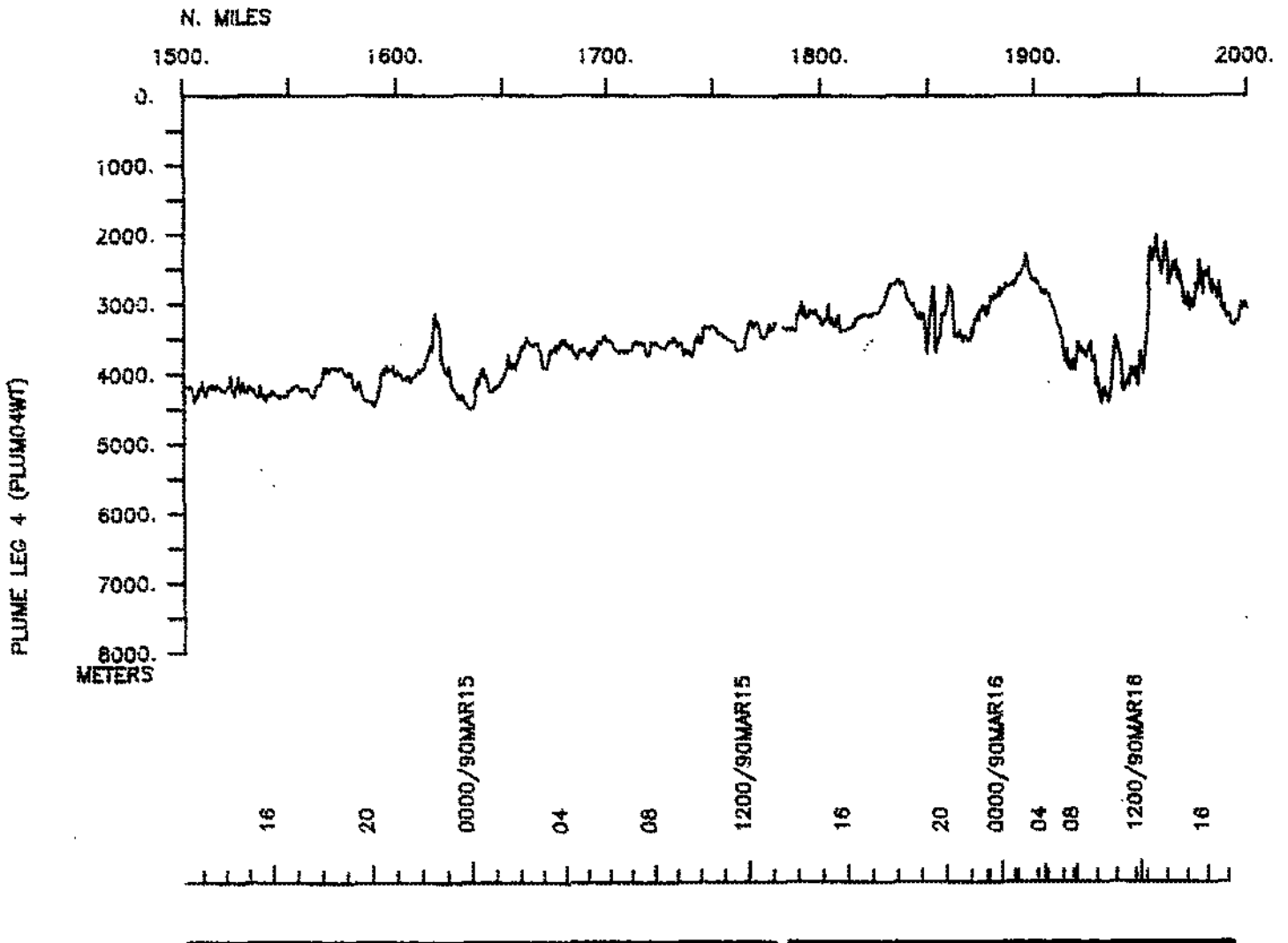
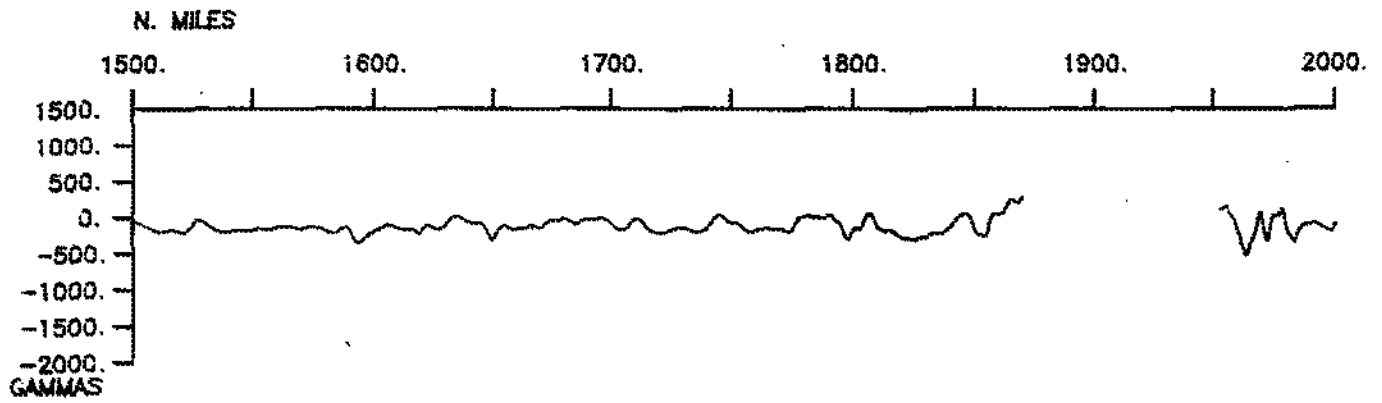
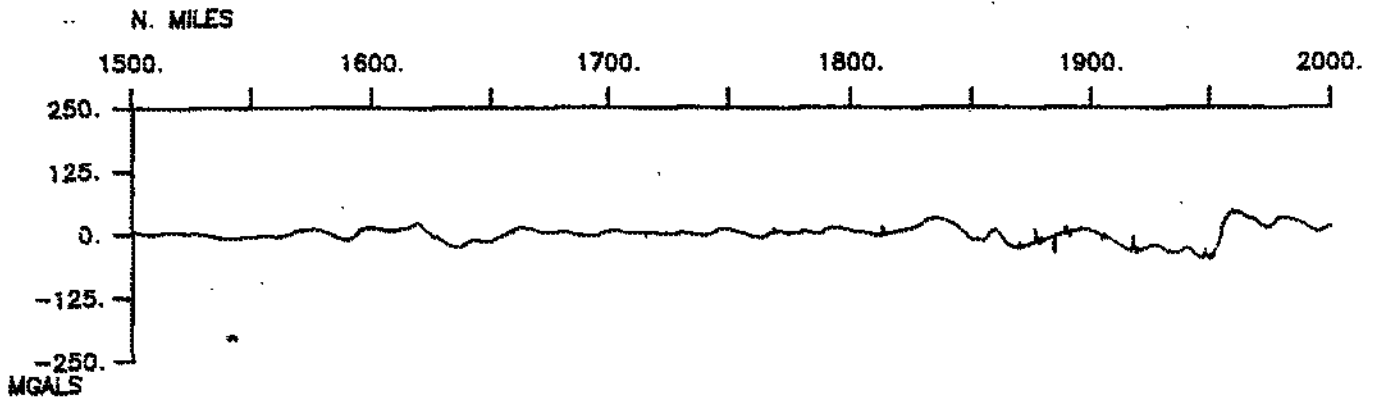
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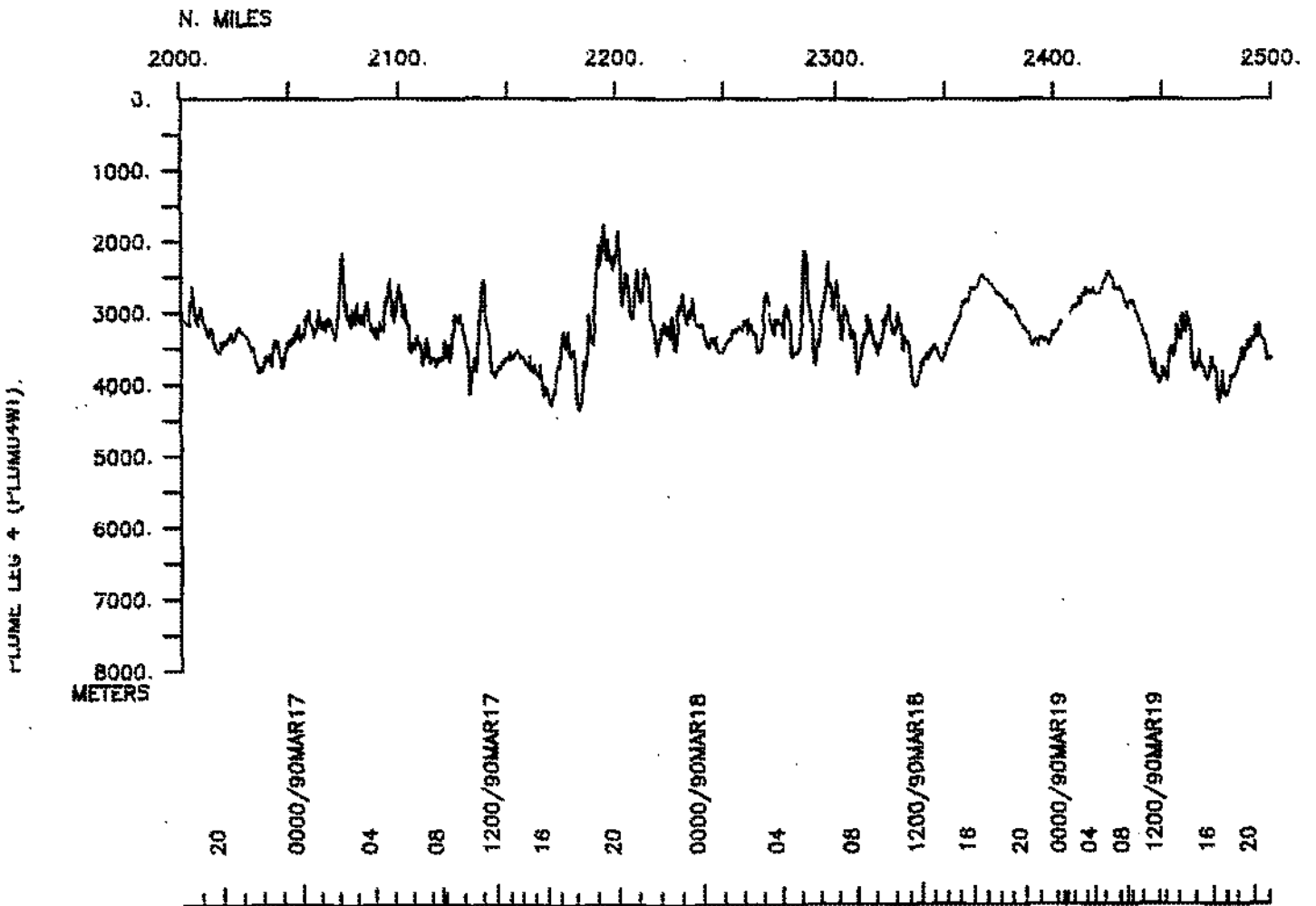
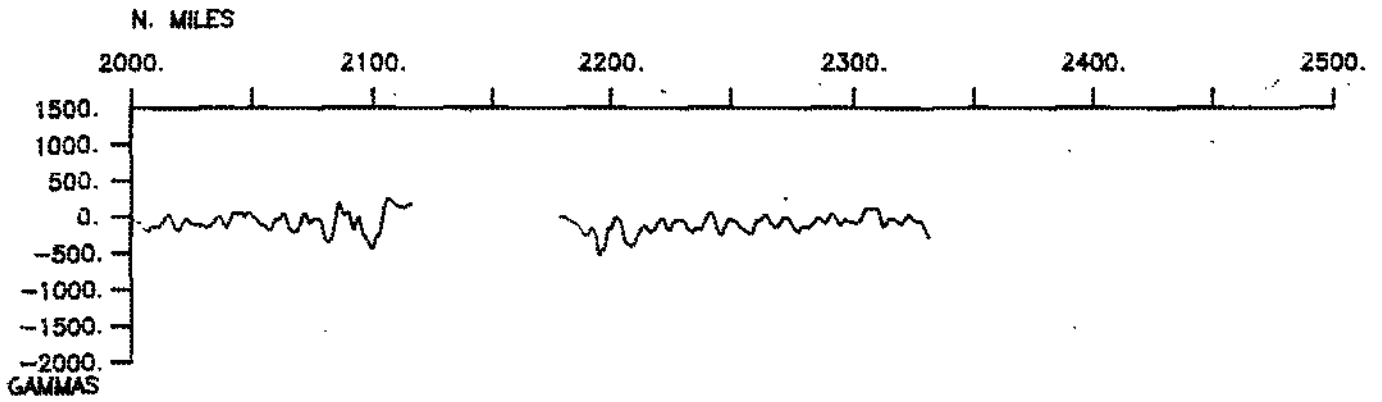
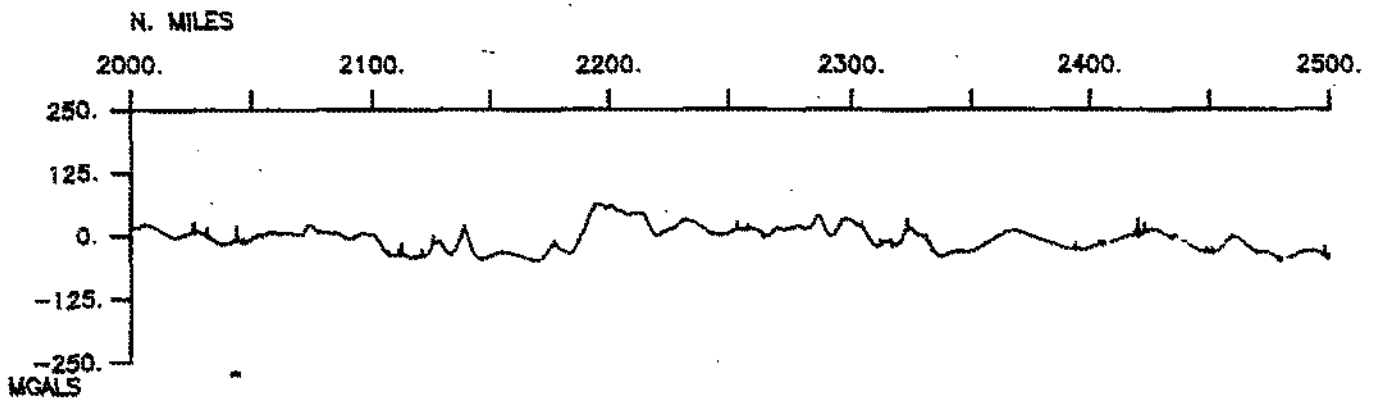


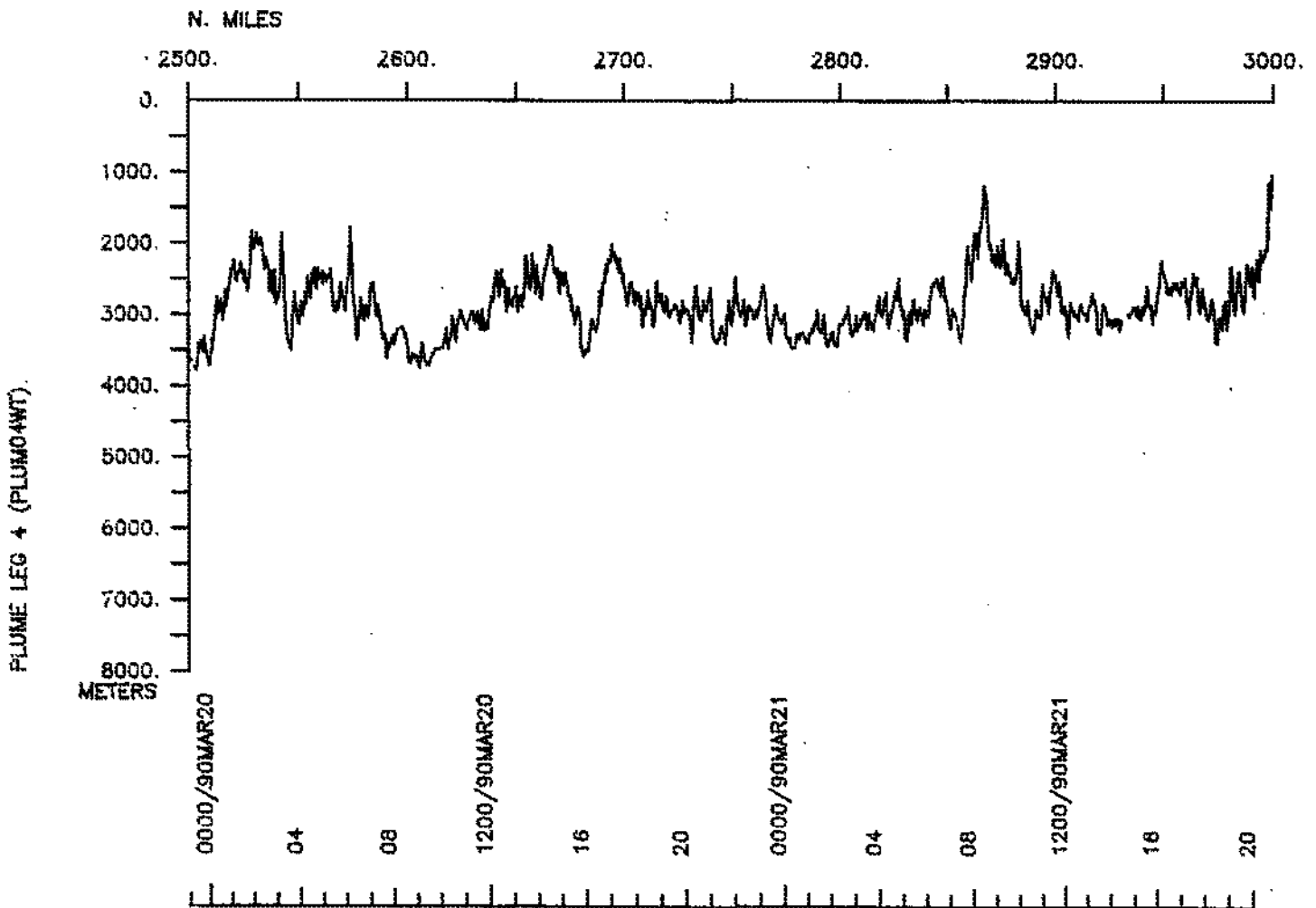
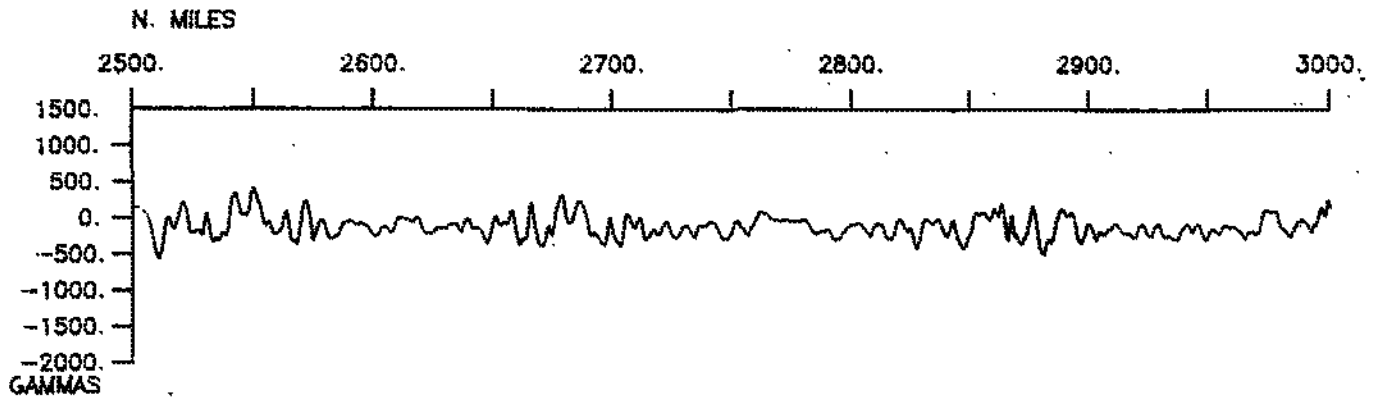
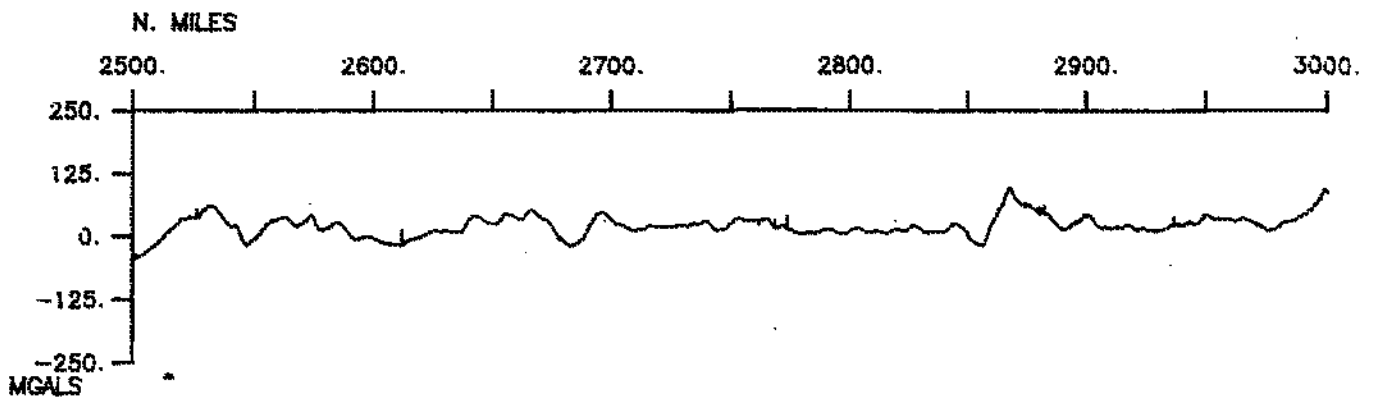


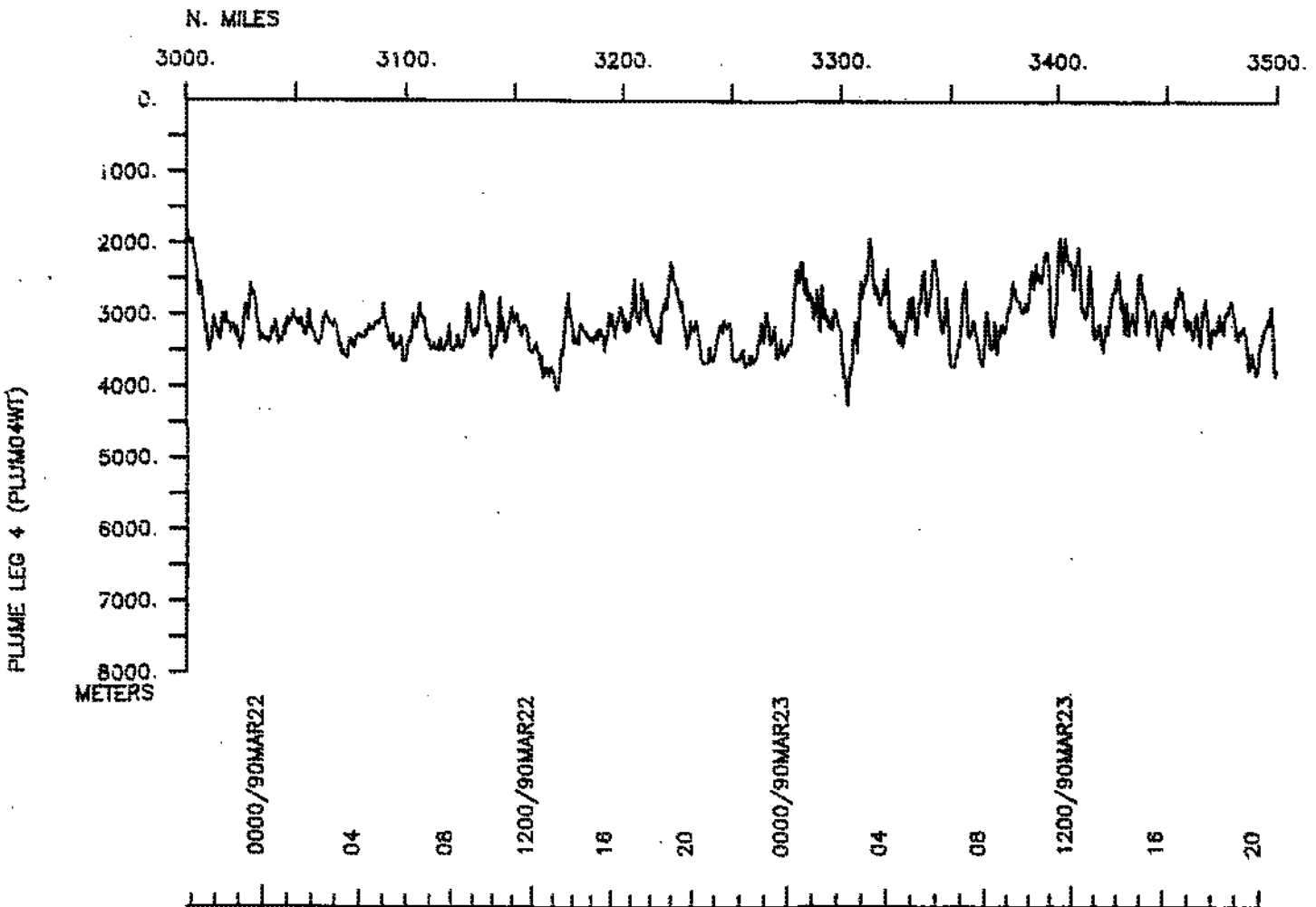
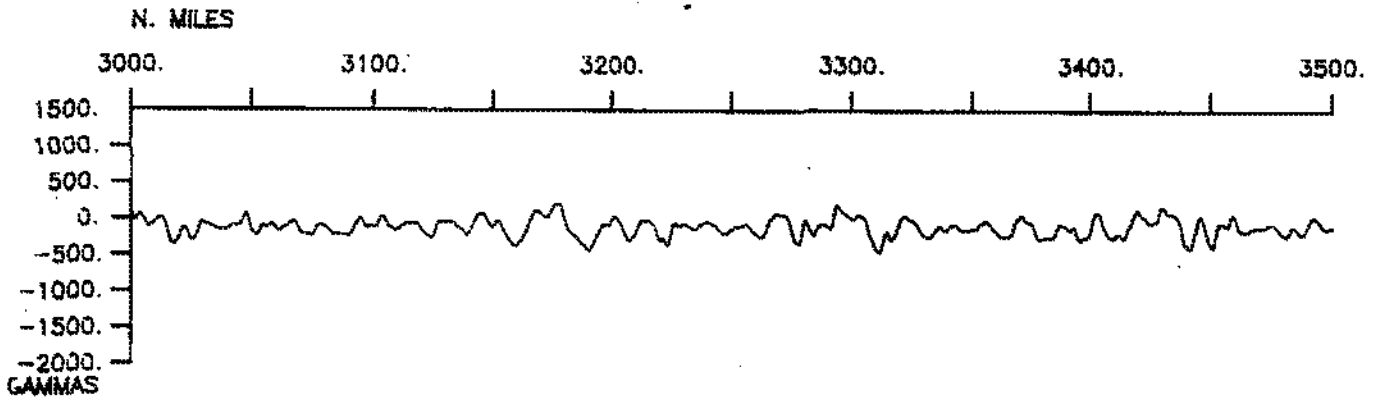
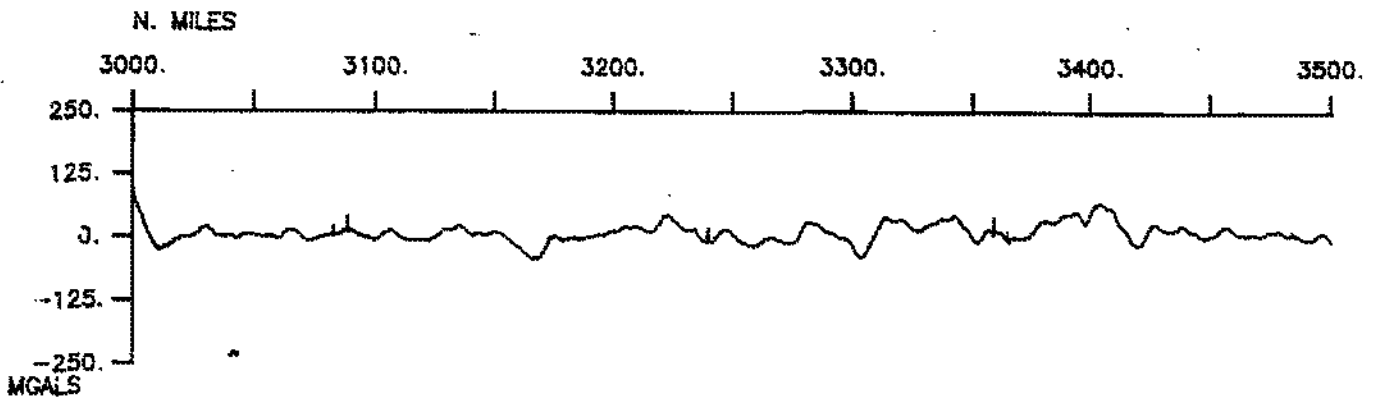


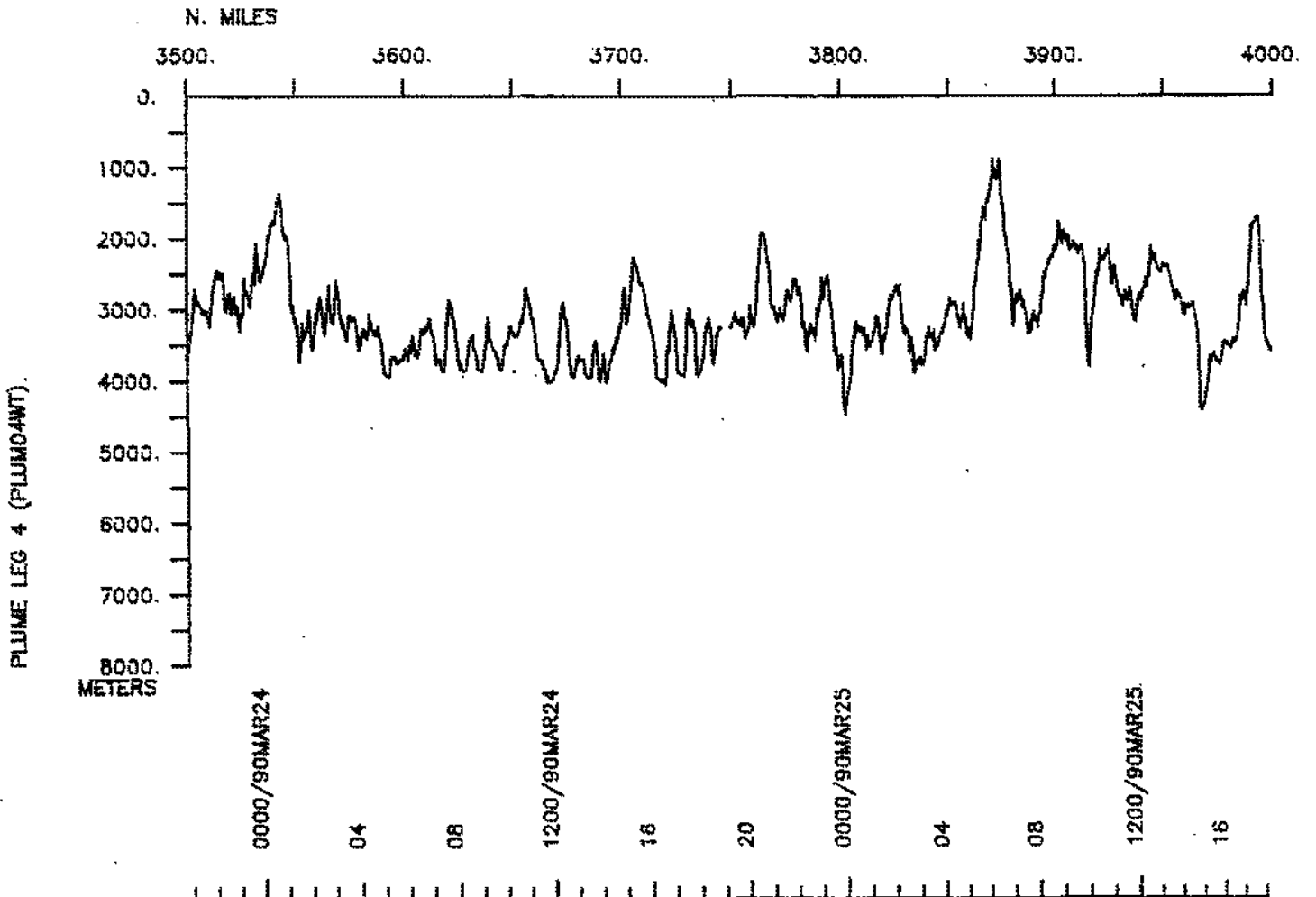
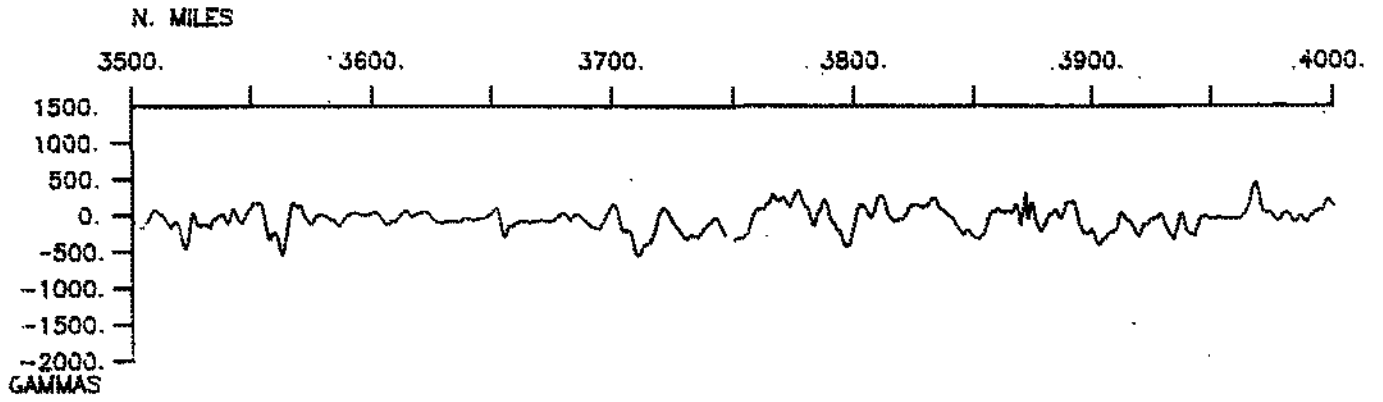
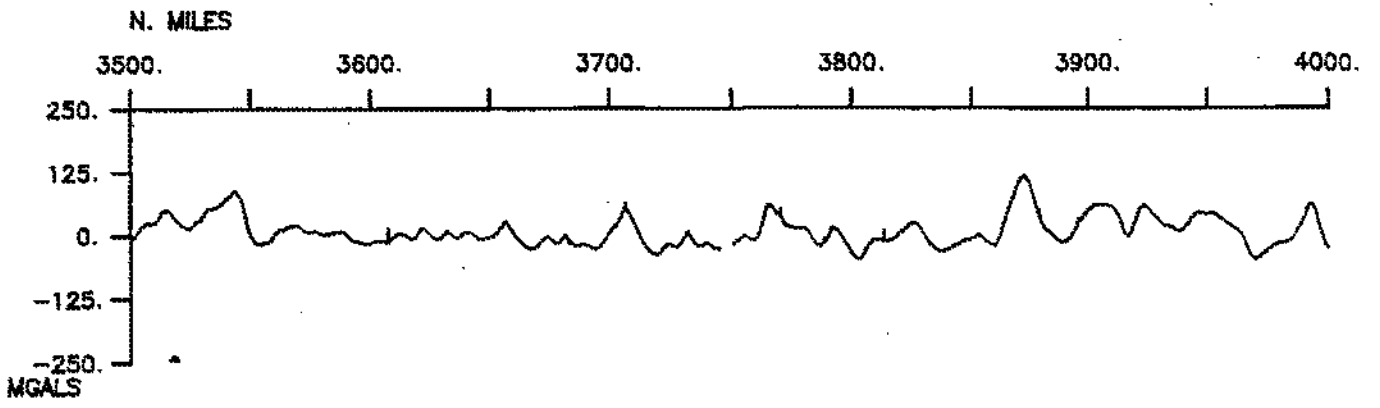


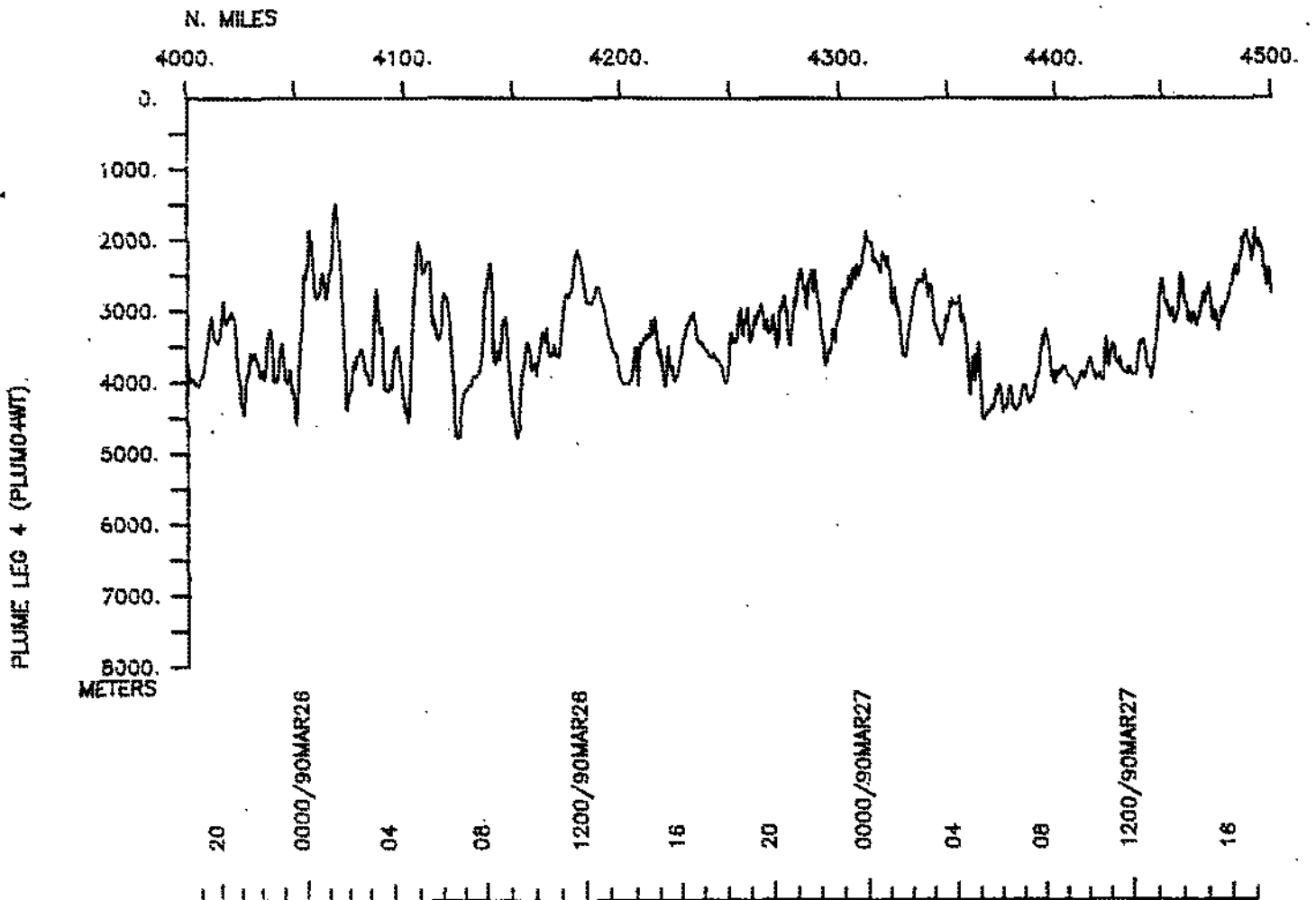
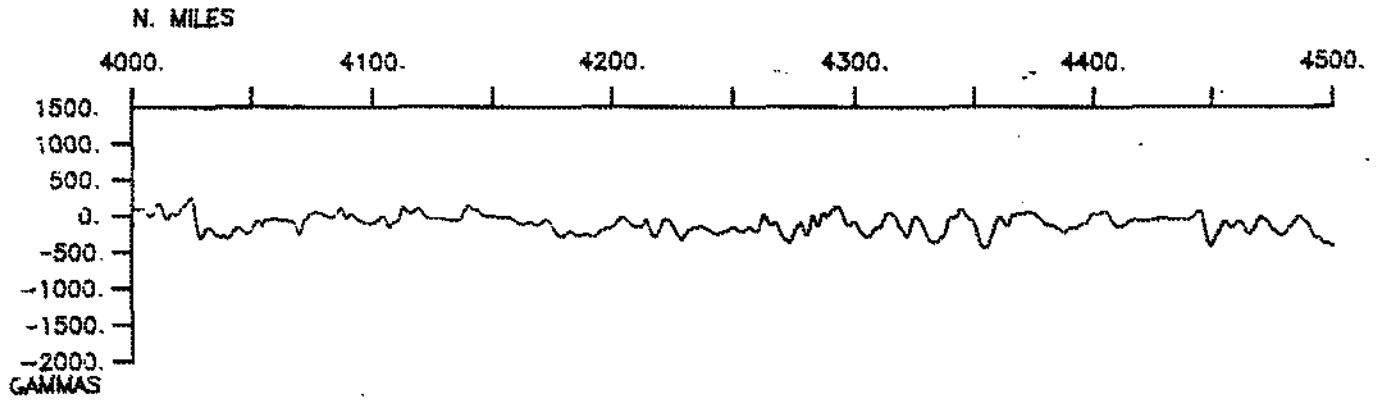
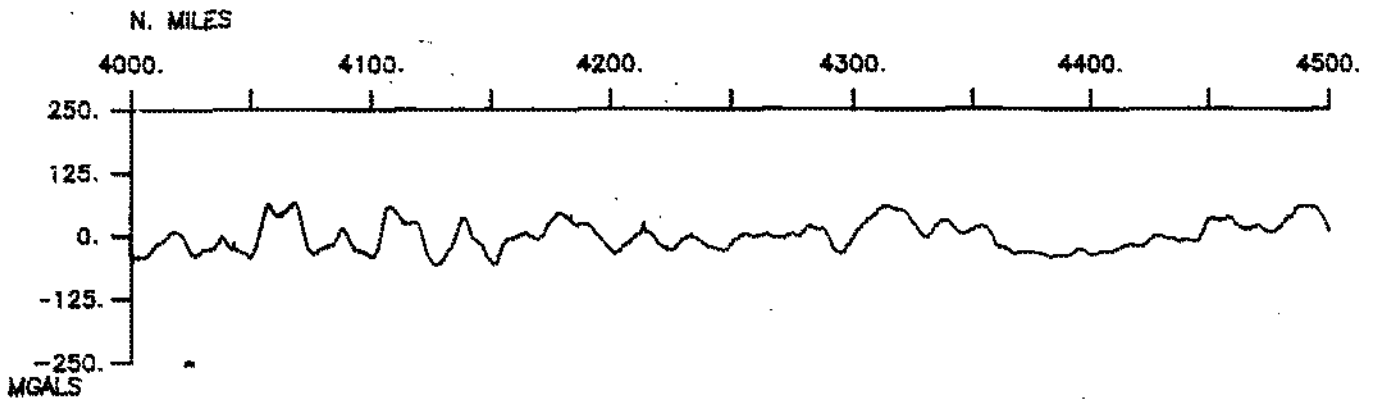


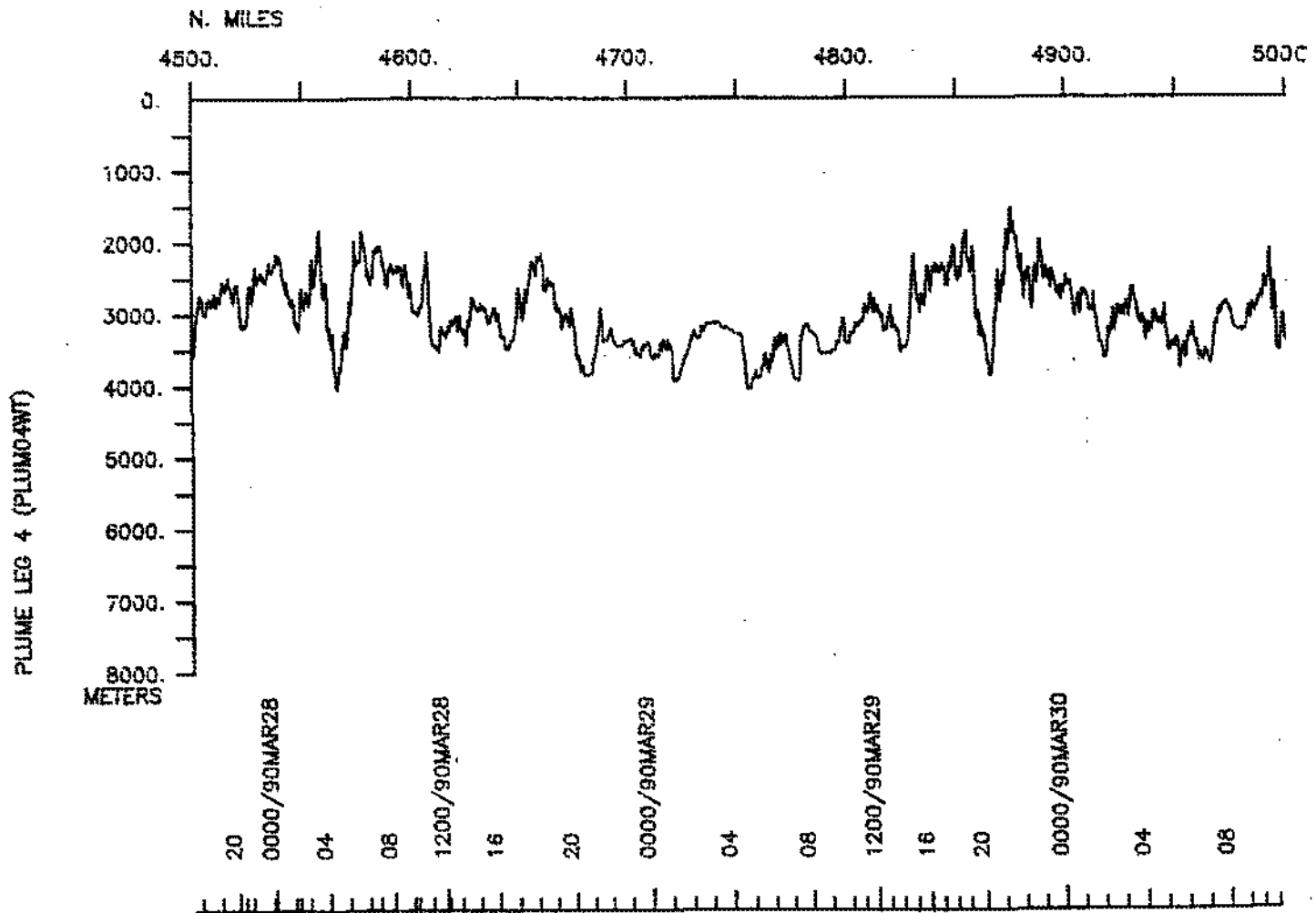
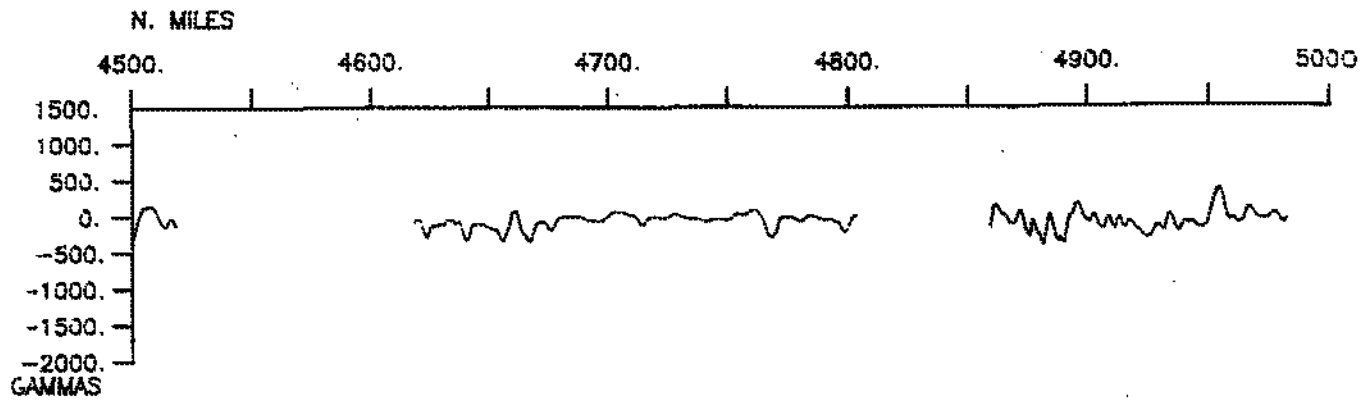
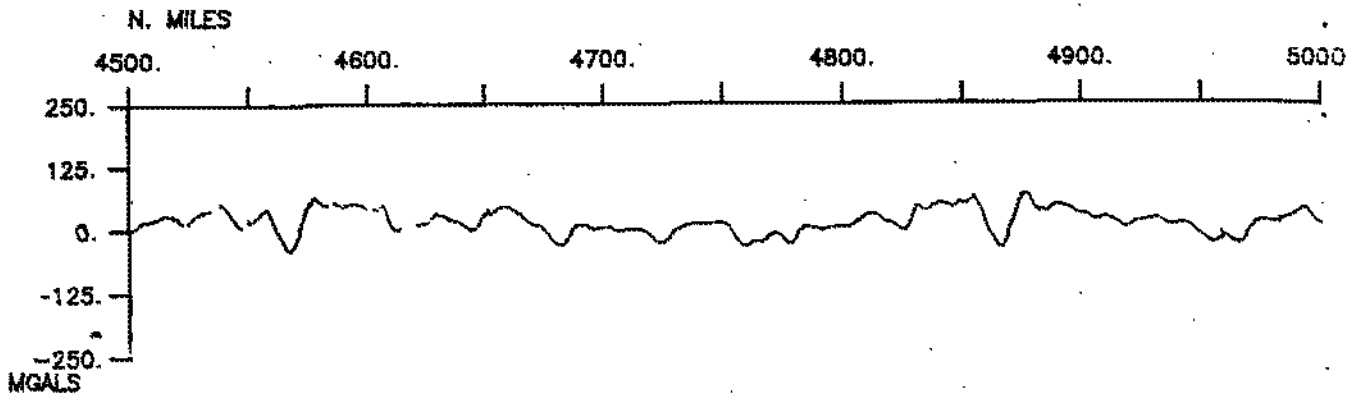




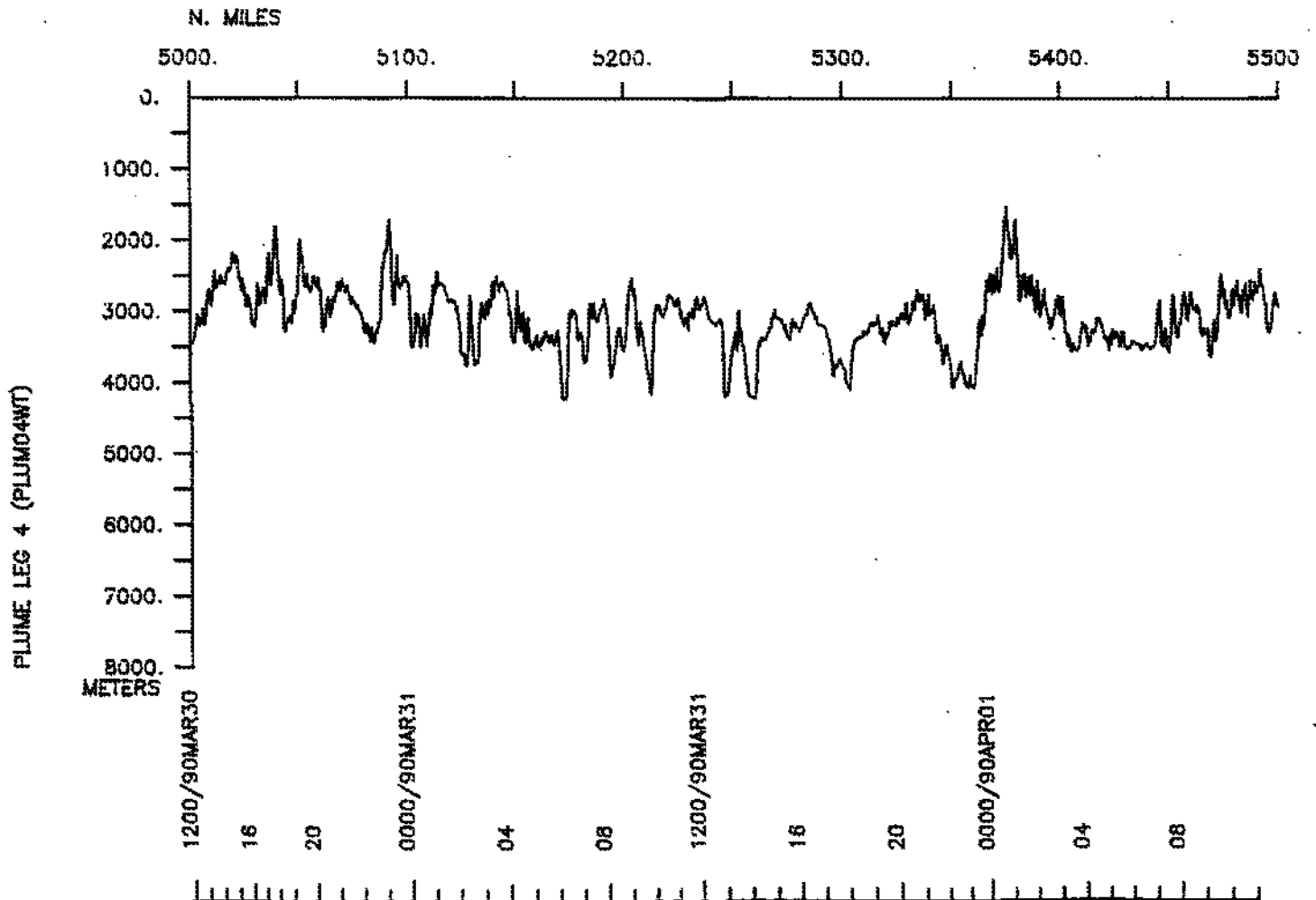
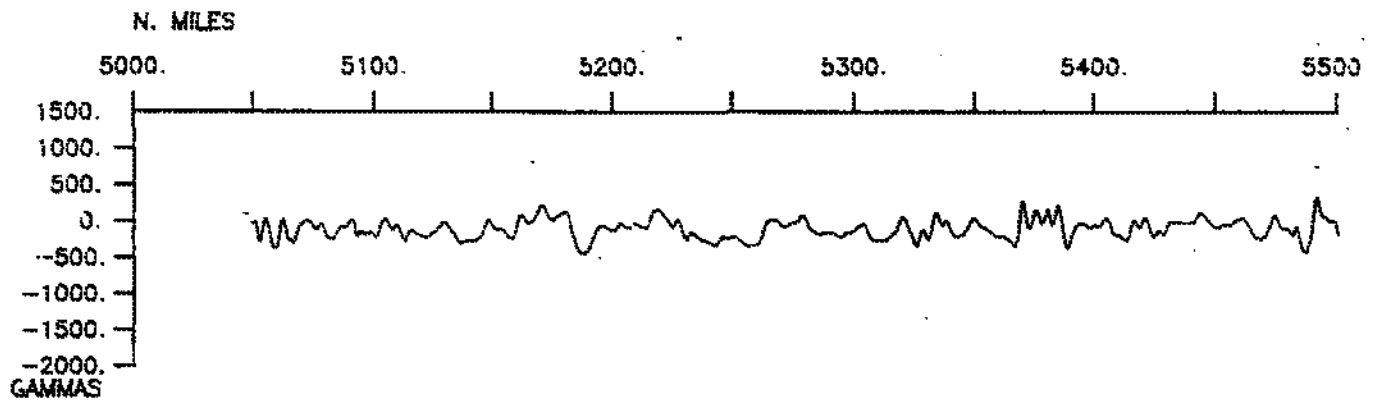
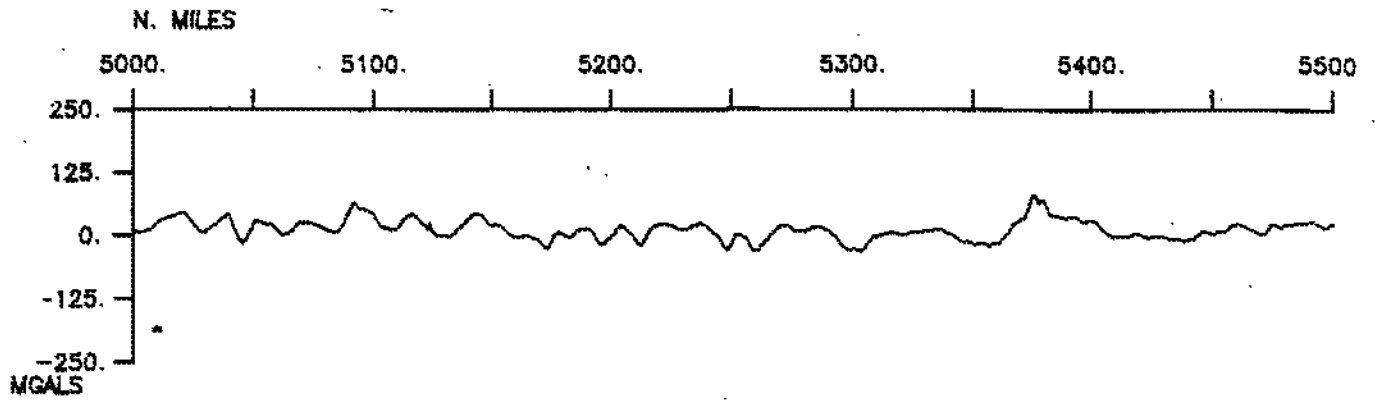


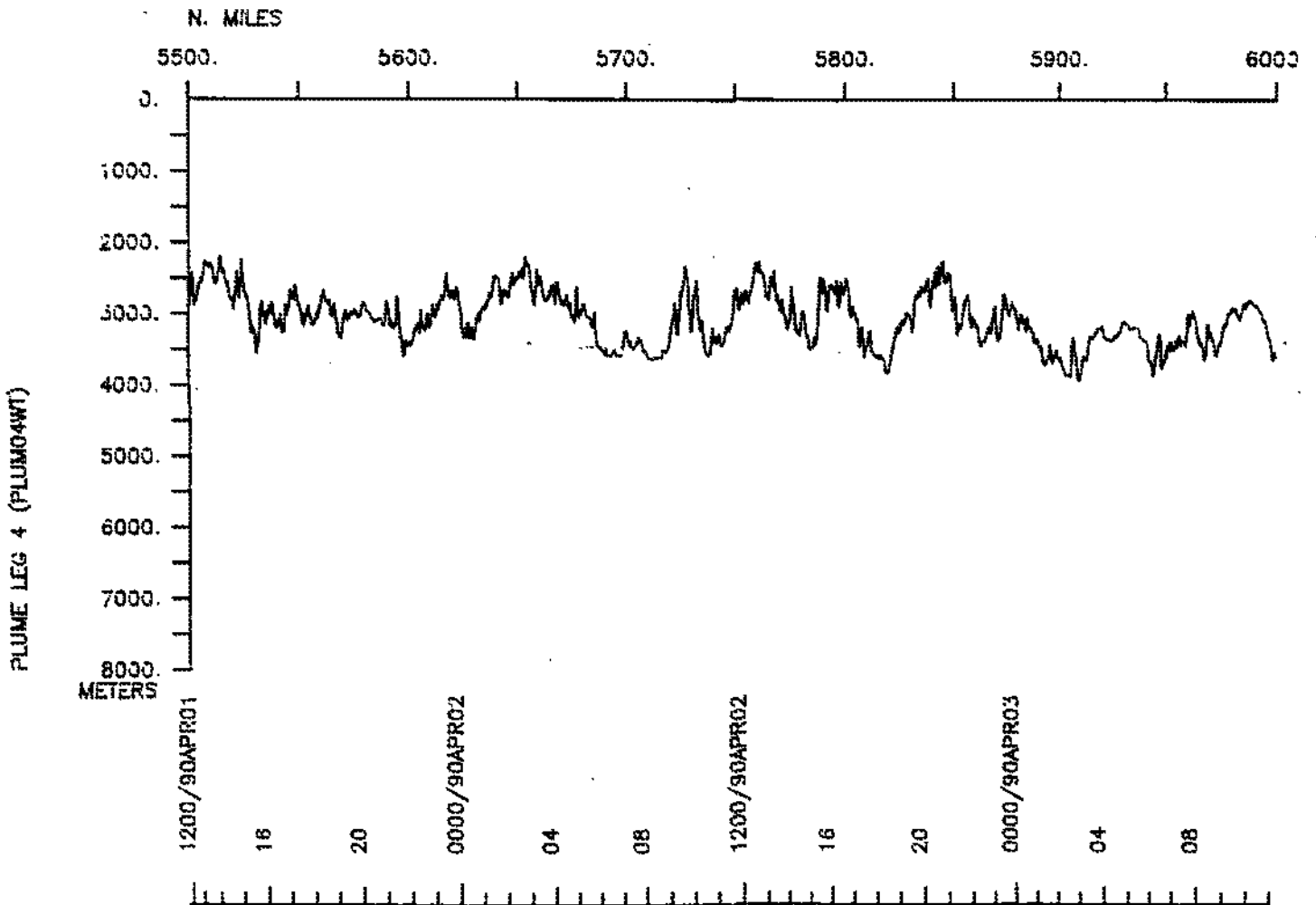
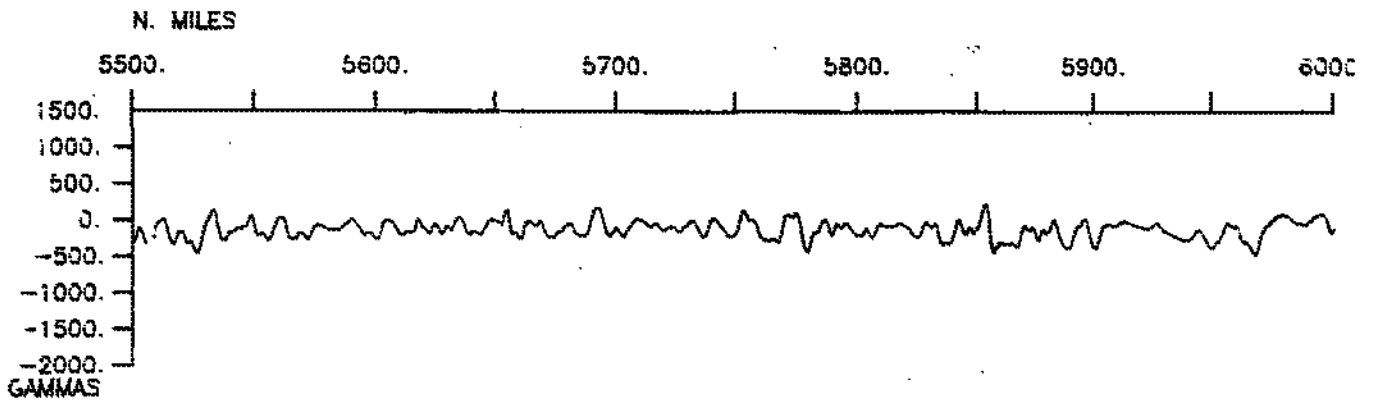
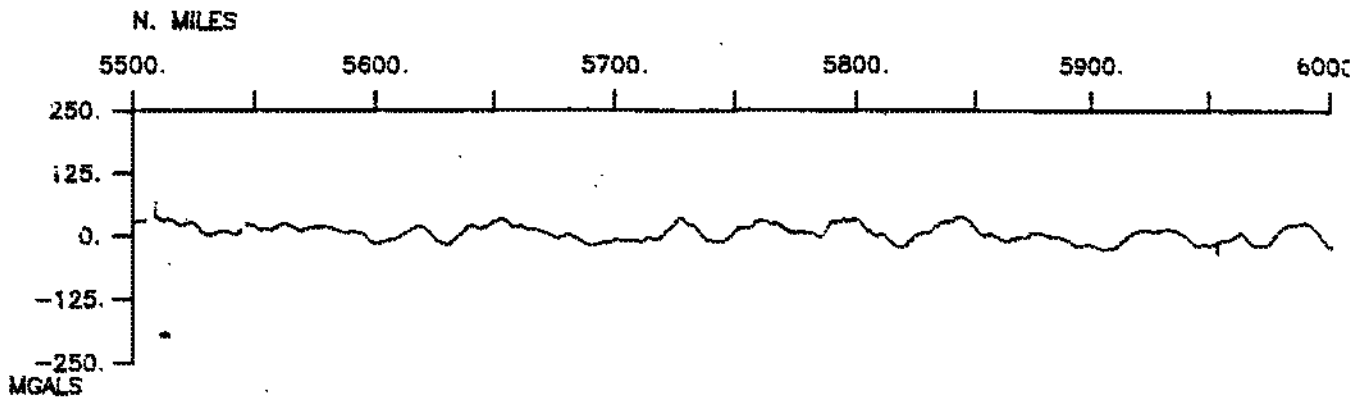


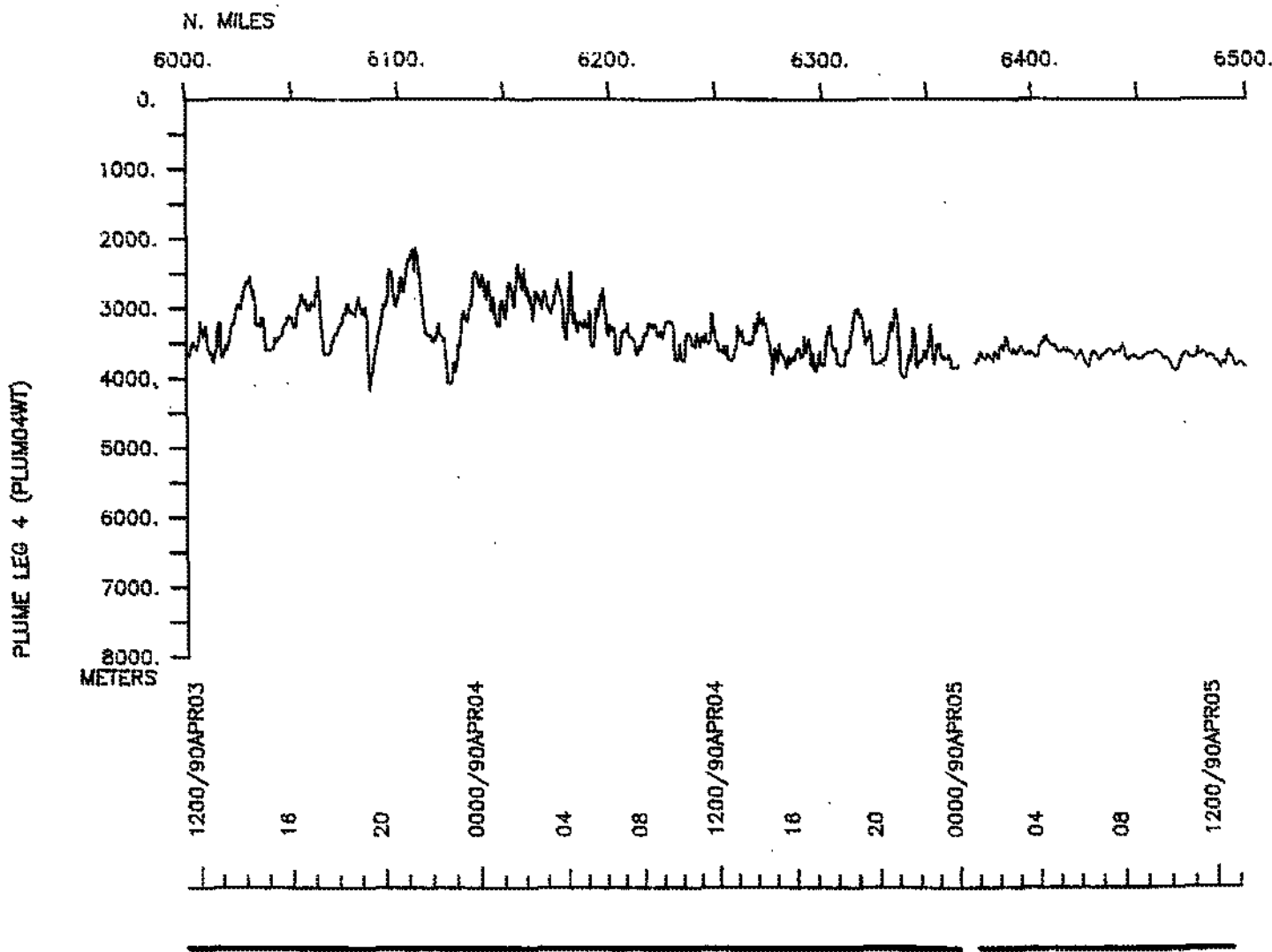
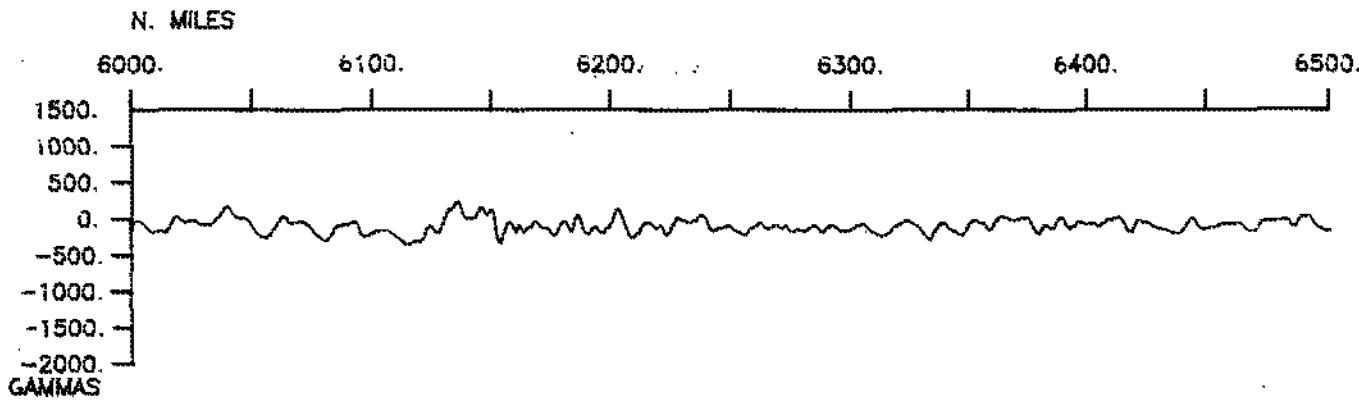
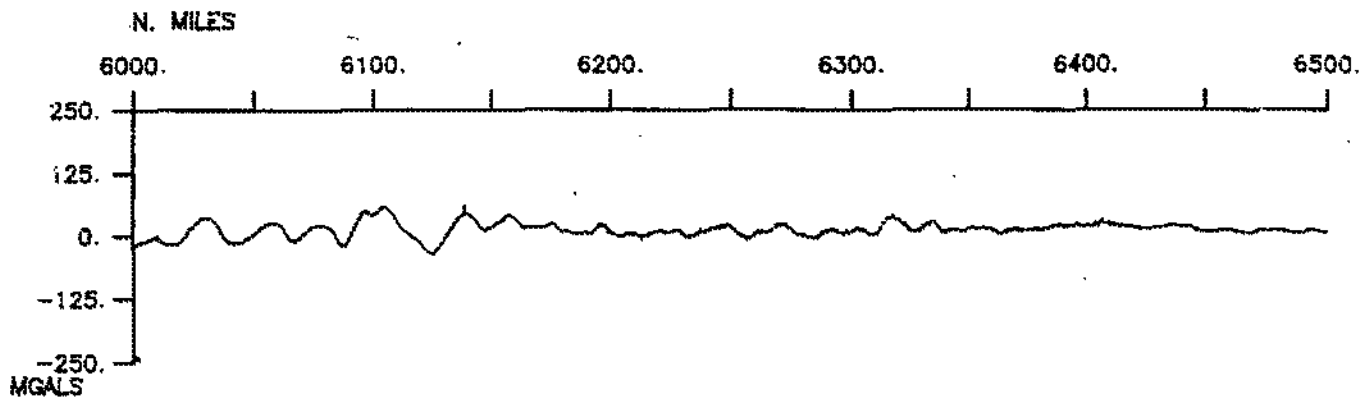


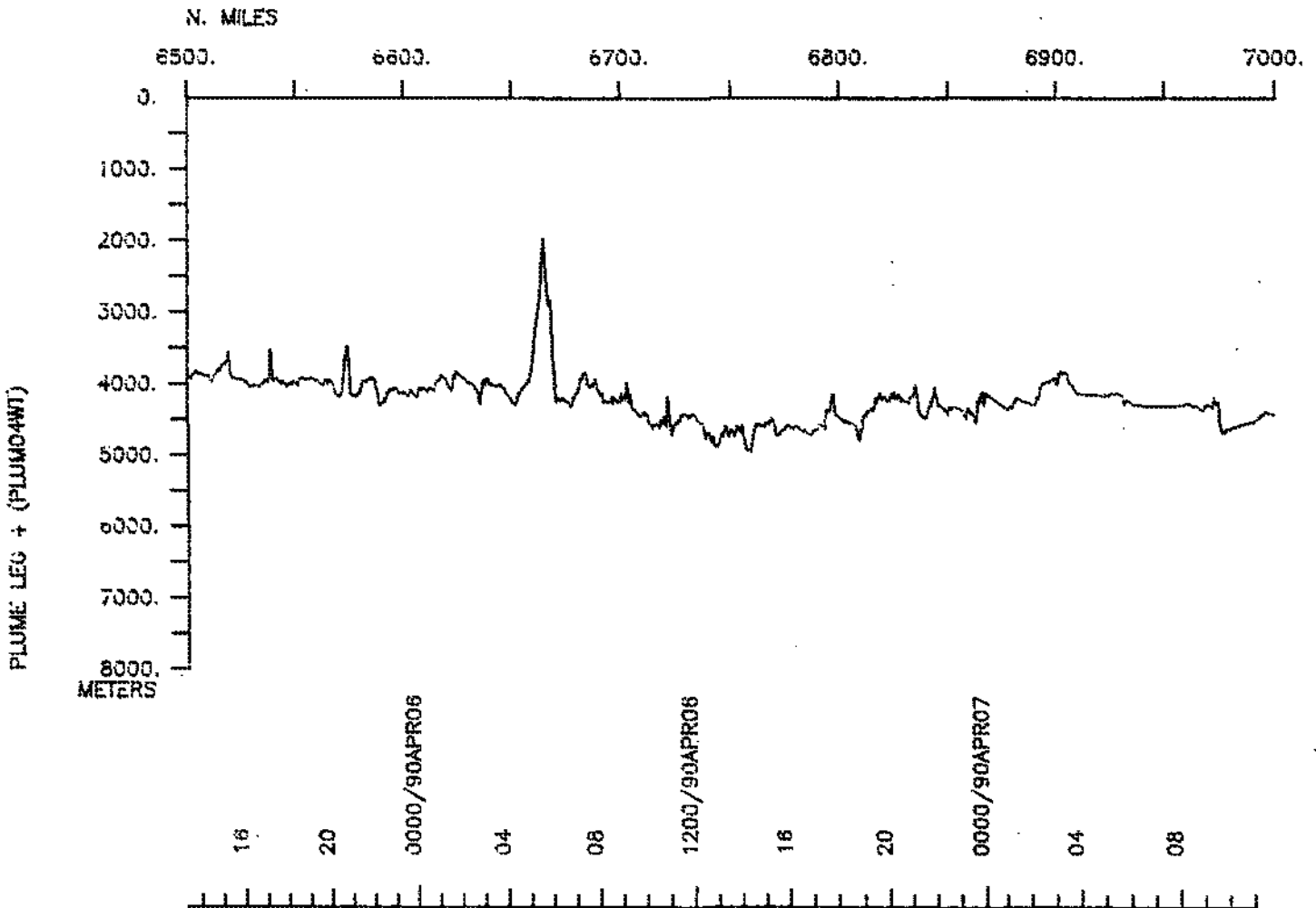
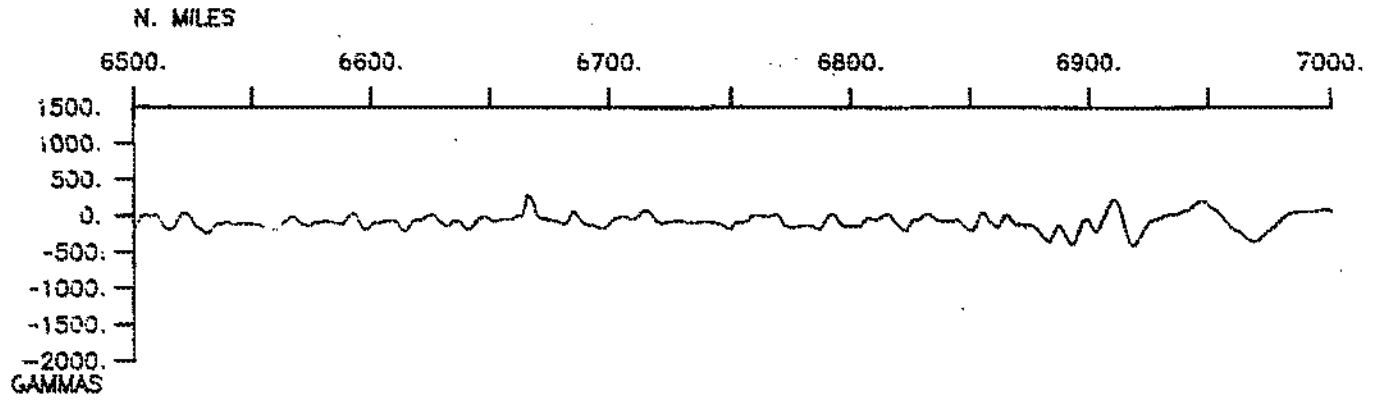
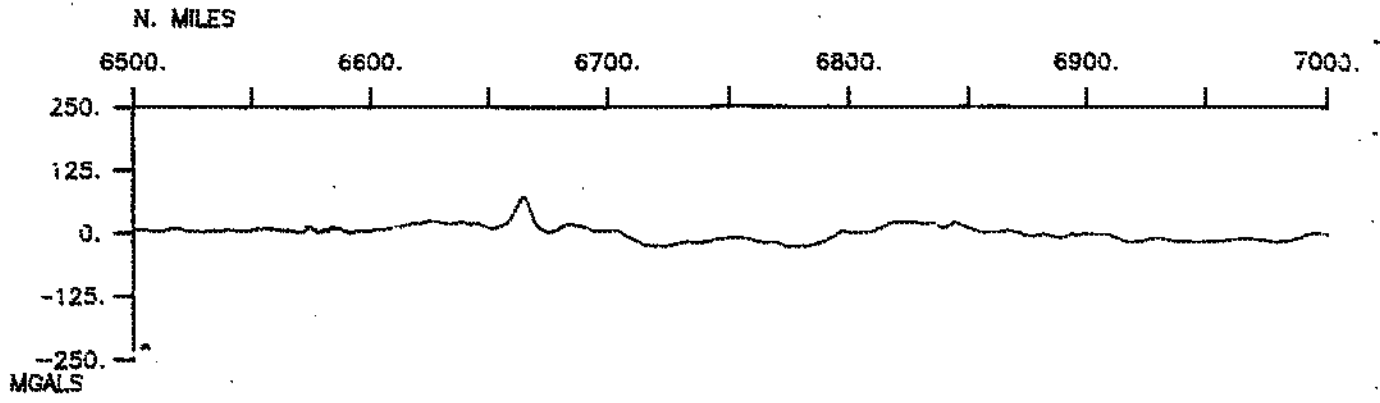


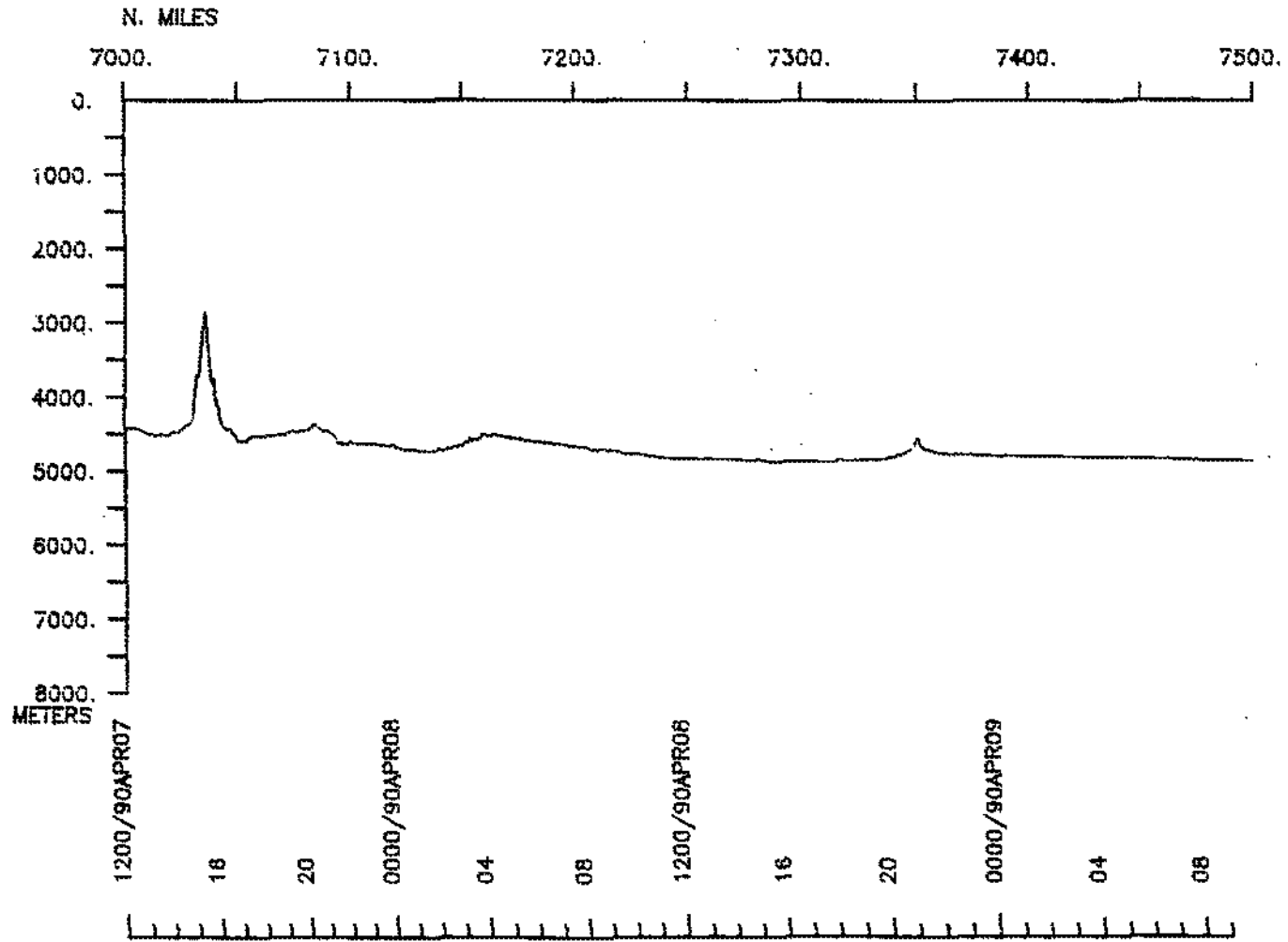
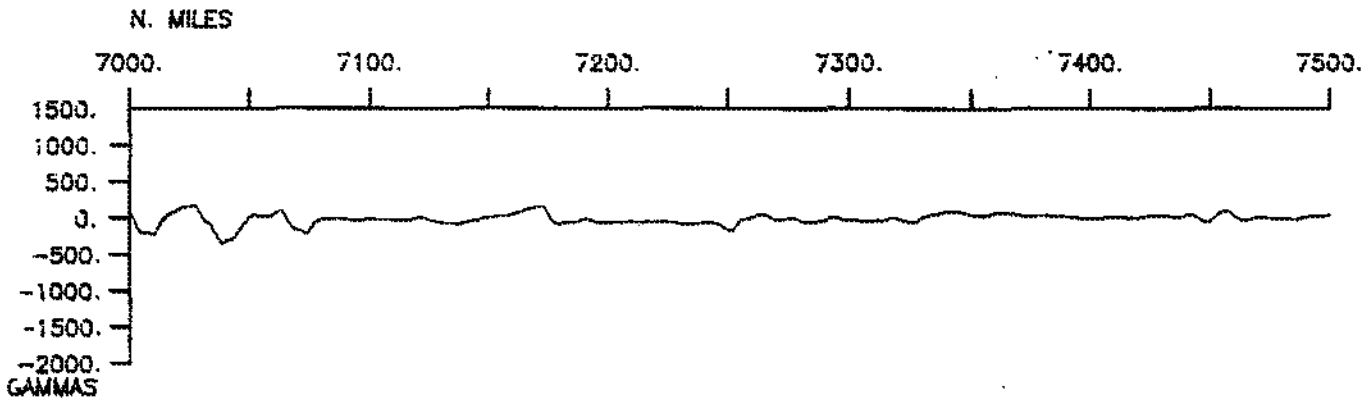
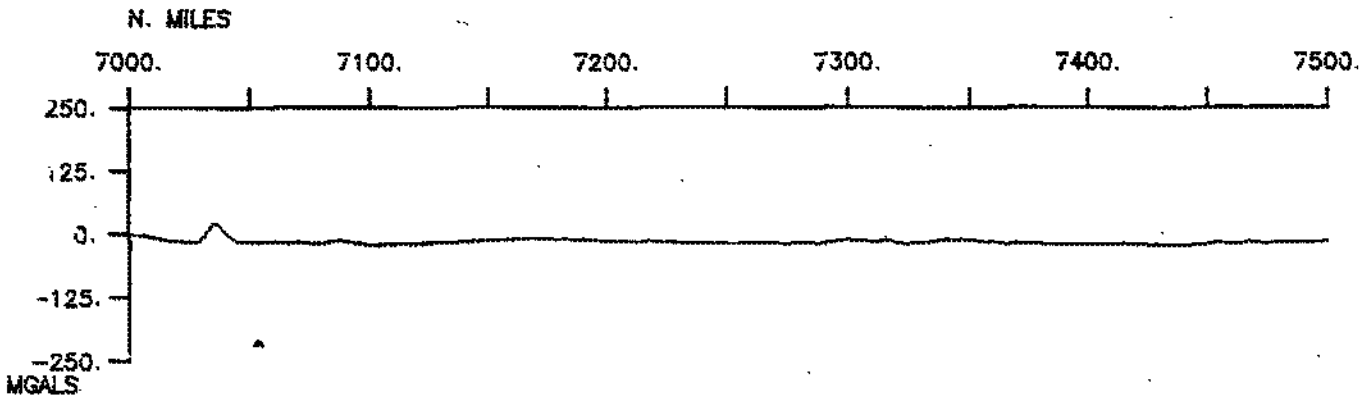


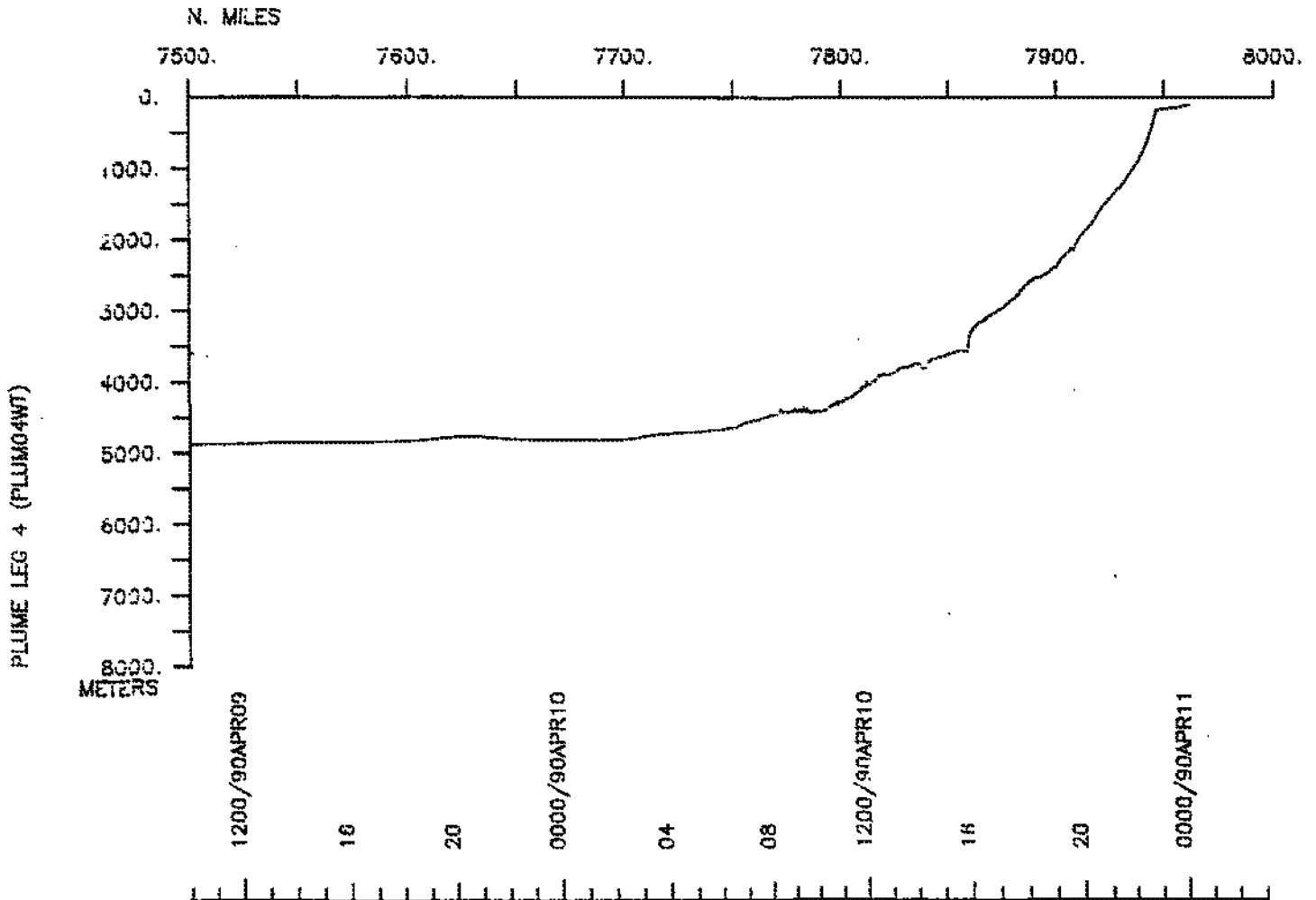
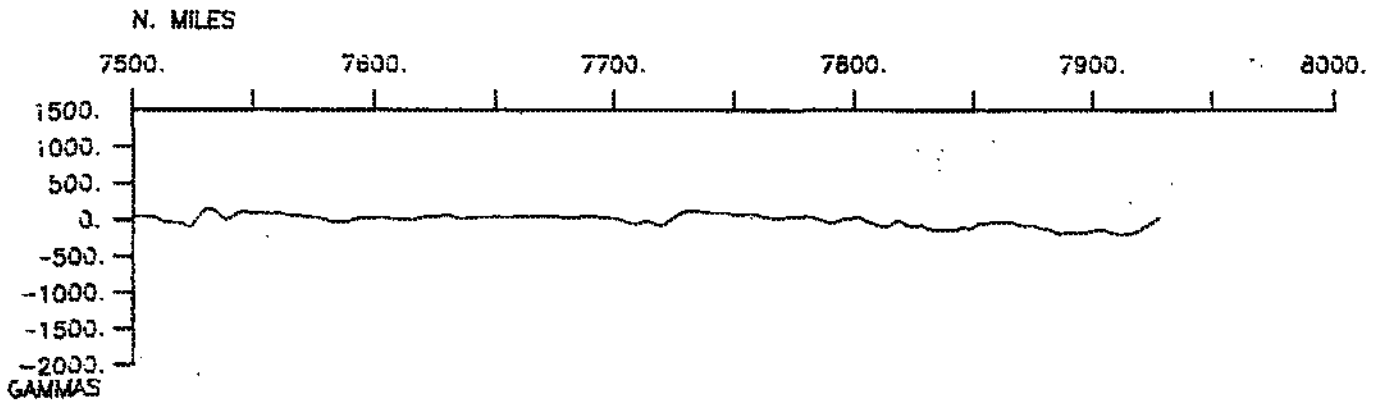
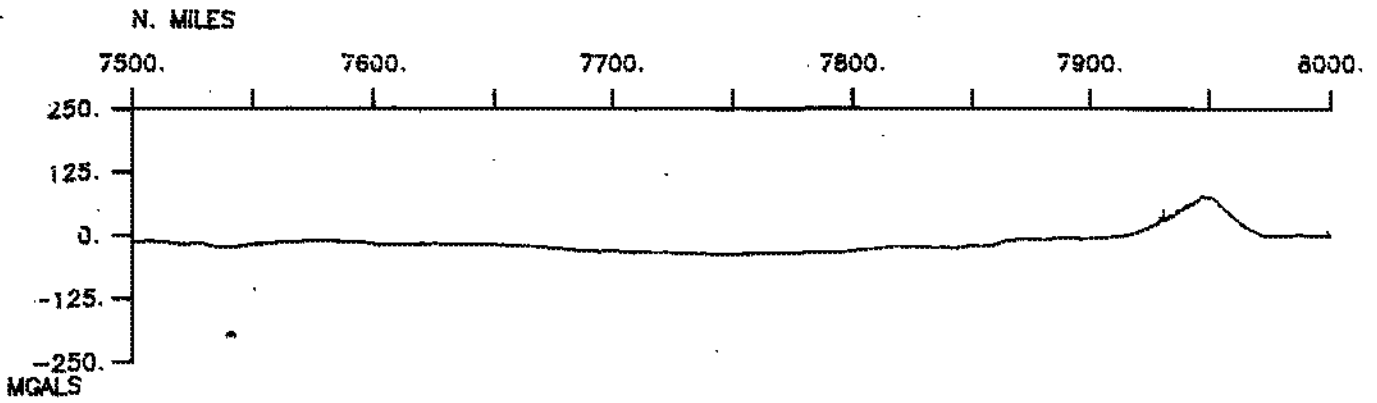


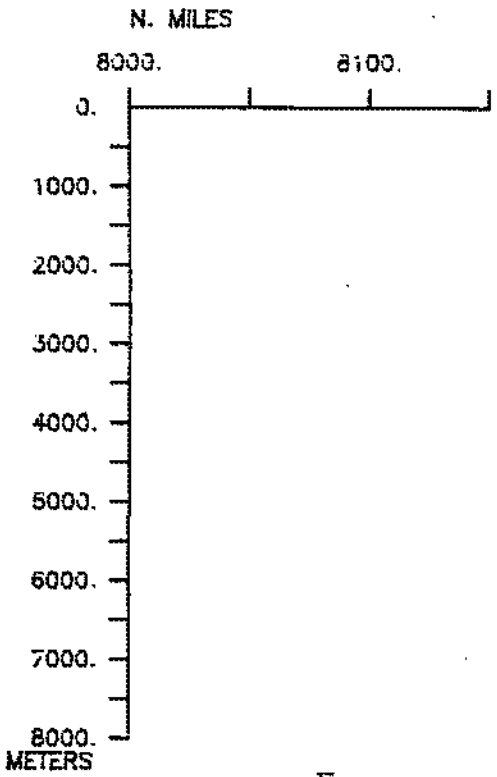
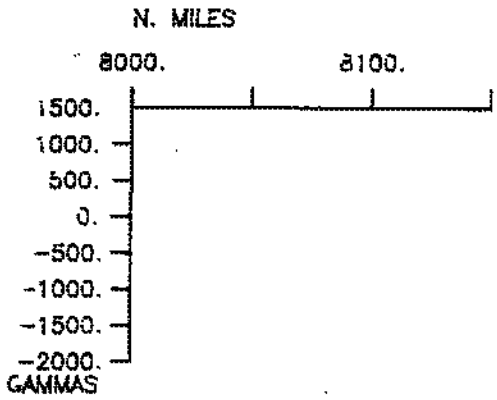
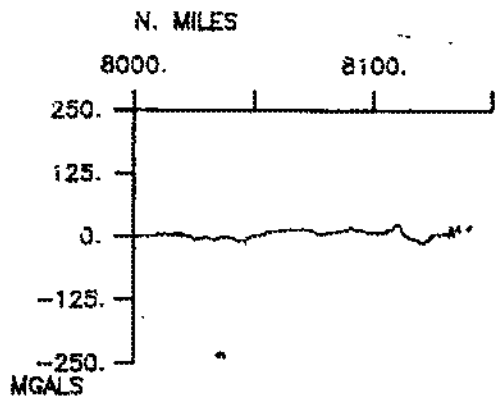




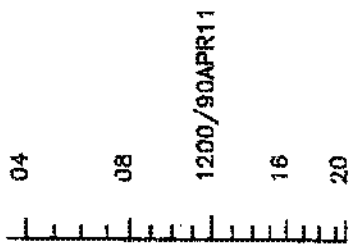








PLUME LEG 4 (PLUM04WT)



## S.I.O. SAMPLE INDEX

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(Issued July 1990)

### PLUME EXPEDITION

R/V T. Washington

#### Leg 4

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Recife, Brazil (8 March 1990)  
to  
Montevideo, Uruguay (11 April 1990)

#### Co-Chief Scientists:

J. Orcutt (Scripps Institution of Oceanography)

D. Forsyth (Brown University)

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 further computer searches on these parameters. (Listings defining these codes are available from the Geological Data Center.)



\*\*\*\* PORTS \*\*\*\*

1919 080390	LGPT B RECIFE, BRAZIL	8-04 S	34-53 W	fPLUM04WT
1900 110490	LGPT E MONTEVIDEO, URUGUAY	34-54 S	56-13 W	fPLUM04WT

\*\*\*\*PERSONNEL\*\*\*\*

	***NAME***	***TITLE***	***AFFILIATION***	**CRID**
PECS IGP	ORCUTT, J.	CO-CHIEF SCI.	SCRIPPS INSTITUTION	PLUM04WT
PECS SIX	FORSYTH, D.	CO-CHIEF SCI.	BROWN UNIVERSITY	PLUM04WT
PEST SIX	BLACKMAN, D.	GRAD. STUDENT	BROWN UNIVERSITY	PLUM04WT
PEST SIX	NEUMANN, G.	GRAD. STUDENT	BROWN UNIVERSITY	PLUM04WT
PESP SIX	CRANE, R.	SCIENTIST	BROWN UNIVERSITY	PLUM04WT
PEST IGP	HEDLIN, M.	GRAD. STUDENT	SCRIPPS INSTITUTION	PLUM04WT
PEST IGP	KENT, G.	GRAD. STUDENT	SCRIPPS INSTITUTION	PLUM04WT
PEST IGP	TOLSTOY, M.	GRAD. STUDENT	SCRIPPS INSTITUTION	PLUM04WT
PEST UCS	SCHEIRER, D.	GRAD. STUDENT	U.OF CAL.SANTA CRUZ	PLUM04WT
PESP IGP	WILLOUGHBY, D.	SCIENTIST	SCRIPPS INSTITUTION	PLUM04WT
PESP IGP	HOLLINSHEAD, C.	SCIENTIST	SCRIPPS INSTITUTION	PLUM04WT
PESP IGP	JOHNSON, R.	SCIENTIST	SCRIPPS INSTITUTION	PLUM04WT
PEBO STS	SMITH, S.	SEABEAM OPER.	SCRIPPS INSTITUTION	PLUM04WT
PEBE STS	CHARTERS, J.	SEABEAM ENGR.	SCRIPPS INSTITUTION	PLUM04WT
PECT STS	BOUCHARD, G.	COMPUTER TECH	SCRIPPS INSTITUTION	PLUM04WT
PERT STS	WILSON, R.	EXPLOSIVES TECH	SCRIPPS INSTITUTION	PLUM04WT
PERT STS	MOGK, S.	RESIDENT TECH	SCRIPPS INSTITUTION	PLUM04WT

\*\*\*\*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... POSITIONS ARE IN TENTHS  
 #OF MINUTES.

#GMT #TIME	DDMMYY DATE	LOC TIME	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
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\*\*\*UNDERWAY DATA CURATOR - S. M. SMITH EXT. 42752

\*\*\* LOG BOOKS \*\*\*

2150	080390			LBWU	B UNDERWAY LOG BOOK	GDC	8-205S	34-381W	sPLUM04WT
0028	110490			LBWU	E UNDERWAY LOG BOOK	GDC	35-081S	52-474W	sPLUM04WT
1919	080390			LBSC	B ORCUTT LOG	IGP	8-039S	34-523W	sPLUM04WT
1900	110490			LBSC	E ORCUTT LOG	IGP	34-576S	56-133W	sPLUM04WT
1919	080390			LBSC	B FORSYTH LOG	BWN	8-039S	34-523W	sPLUM04WT
1900	110490			LBSC	E FORSYTH LOG	BWN	34-576S	56-133W	sPLUM04WT

\*\*\* SEISMIC RUN - REFRACTION/REFLECTION \*\*\*

1103	170390			SRCS	B SEISMIC LINE 1	IGP	34-106S	14-268W	sPLUM04WT
1722	170390			SRCS	E SEISMIC LINE 1	IGP	33-339S	14-358W	sPLUM04WT
1105	180390			SRCS	B SEISMIC LINE 2	IGP	33-321S	14-159W	sPLUM04WT
2058	180390			SRCS	E SEISMIC LINE 2	IGP	32-347S	14-311W	sPLUM04WT
1028	290390			SRCS	B SEISMIC LINE 3	IGP	33-356S	13-216W	sPLUM04WT
1915	290390			SRCS	E SEISMIC LINE 3	IGP	33-470S	14-229W	sPLUM04WT
1001	300390			SRCS	B SEISMIC LINE 4	IGP	34-038S	15-424W	sPLUM04WT
1815	300390			SRCS	E SEISMIC LINE 4	IGP	33-484S	14-405W	sPLUM04WT

\*\*\* OCEAN BOTTOM SEISMOMETER \*\*\*

2221	150390			SBOB	B OPUS DROP	IGP	32-440S	014-294W	fPLUM04WT
0113	190390			SBOB	E OPUS RCVD	IGP	32-440S	014-294W	fPLUM04WT
0059	160390			SBOB	B KAREN DROP	IGP	32-550S	014-255W	fPLUM04WT
0515	190390			SBOB	E KAREN RCVD	IGP	32-550S	014-255W	fPLUM04WT
0357	160390			SBOB	B JUDY DROP	IGP	33-072S	014-231W	fPLUM04WT
0916	190390			SBOB	E JUDY RCVD	IGP	33-072S	014-231W	fPLUM04WT
0652	160390			SBOB	B PHRED DROP	IGP	33-187S	014-192W	fPLUM04WT
1305	190390			SBOB	E PHRED RCVD	IGP	33-187S	014-192W	fPLUM04WT
1131	160390			SBOB	B JANICE DROP	IGP	33-432S	014-338W	fPLUM04WT
1825	190390			SBOB	E JANICE RCVD	IGP	34-432S	014-338W	fPLUM04WT
0746	170390			SBOB	B SHARYN DROP	IGP	34-008S	014-299W	fPLUM04WT
2239	190390			SBOB	E SHARYN RCVD	IGP	34-008S	014-299W	fPLUM04WT

#GMT #TIME #	DDMMYY DATE	LOC TIME Z	T	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
2036 1900	270390 110490			SBOB B SBOB C	SHARYN DROP SHARYN CONT	IGP IGP	33-587S 34-576S	015-220W 056-133W	fPLUM04WT fPLUM04WT
2318 1900	270390 110490			SBOB B SBOB C	JANICE DROP JANICE CONT	IGP IGP	33-553S 34-576S	015-082W 056-133W	fPLUM04WT fPLUM04WT
0125 1900	280390 110490			SBOB B SBOB C	OPUS DROP OPUS CONT	IGP IGP	33-526S 34-576S	014-562W 056-133W	fPLUM04WT fPLUM04WT
0640 1900	280390 110490			SBOB B SBOB C	PHRED DROP PHRED CONT	IGP IGP	33-455S 34-576S	014-140W 056-133W	fPLUM04WT fPLUM04WT
0923 1900	280390 110490			SBOB B SBOB C	KAREN DROP KAREN CONT	IGP IGP	33-409S 34-576S	013-584W 056-133W	fPLUM04WT fPLUM04WT
1158 1900	280390 110490			SBOB B SBOB C	JUDY DROP JUDY CONT	IGP IGP	33-402S 34-576S	013-439W 056-133W	fPLUM04WT fPLUM04WT
*** SEA BEAM SWATH BOOKS ***									
2150 1547	080390 100390			MBSB B MBSB E	SB ARC SWATH BK 01 SB ARC SWATH BK 01	GDC GDC	8-205S 14-176S	34-381W 30-009W	sPLUM04WT sPLUM04WT
1547 1120	100390 120390			MBSB B MBSB E	SB ARC SWATH BK 02 SB ARC SWATH BK 02	GDC GDC	14-176S 20-438S	30-009W 24-525W	sPLUM04WT sPLUM04WT
1120 0600	120390 140390			MBSB B MBSB E	SB ARC SWATH BK 03 SB ARC SWATH BK 03	GDC GDC	20-438S 27-010S	24-525W 19-352W	sPLUM04WT sPLUM04WT
0600 0830	140390 160390			MBSB B MBSB E	SB ARC SWATH BK 04 SB ARC SWATH BK 04	GDC GDC	27-010S 33-246S	19-352W 14-223W	sPLUM04WT sPLUM04WT
0830 2155	160390 180390			MBSB B MBSB E	SB ARC SWATH BK 05 SB ARC SWATH BK 05	GDC GDC	33-246S 32-405S	14-223W 14-299W	sPLUM04WT sPLUM04WT
2155 0756	180390 210390			MBSB B MBSB E	SB ARC SWATH BK 06 SB ARC SWATH BK 06	GDC GDC	32-405S 34-361S	14-299W 15-114W	sPLUM04WT sPLUM04WT
0756 0245	210390 220390			MBSB B MBSB E	SB ARC SWATH BK 07 SB ARC SWATH BK 07	GDC GDC	34-361S 34-297S	15-114W 13-592W	sPLUM04WT sPLUM04WT
0245 2137	220390 240390			MBSB B MBSB E	SB ARC SWATH BK 08 SB ARC SWATH BK 08	GDC GDC	34-297S 34-578S	13-592W 15-236W	sPLUM04WT sPLUM04WT
2137 2005	240390 260390			MBSB B MBSB E	SB ARC SWATH BK 09 SB ARC SWATH BK 09	GDC GDC	34-578S 34-127S	15-236W 15-395W	sPLUM04WT sPLUM04WT

#GMT #TIME	DDMMYY DATE	LOC TIME	T Z	SAMP CODE	SAMPLE IDENTIFIER				DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
2005	260390			MBSB	B	SB	ARC	SWATH	BK 10	GDC 34-127S	15-395W	sPLUMO4WT
0203	280390			MBSB	E	SB	ARC	SWATH	BK 10	GDC 33-523S	14-555W	sPLUMO4WT
0203	280390			MBSB	B	SB	ARC	SWATH	BK 11	GDC 33-523S	14-555W	sPLUMO4WT
1003	010490			MBSB	E	SB	ARC	SWATH	BK 11	GDC 33-158S	15-072W	sPLUMO4WT
1003	010490			MBSB	B	SB	ARC	SWATH	BK 12	GDC 33-158S	15-072W	sPLUMO4WT
1305	040490			MBSB	E	SB	ARC	SWATH	BK 12	GDC 34-586S	18-008W	sPLUMO4WT
1305	040490			MBSB	B	SB	ARC	SWATH	BK 13	GDC 34-586S	18-008W	sPLUMO4WT
2230	070490			MBSB	E	SB	ARC	SWATH	BK 13	GDC 35-228S	35-144W	sPLUMO4WT
2230	070490			MBSB	B	SB	ARC	SWATH	BK 14	GDC 35-228S	35-144W	sPLUMO4WT
2308	100490			MBSB	E	SB	ARC	SWATH	BK 14	GDC 35-095S	52-286W	sPLUMO4WT

\*\*\*\* SEA BEAM MONITOR RECORDS \*\*\*\*

2150	080390			MBMR	B	SB	MONITOR	R-01		GDC 8-205S	34-381W	sPLUMO4WT
2000	110390			MBMR	E	SB	MONITOR	R-01		GDC 18-271S	26-420W	sPLUMO4WT
2005	110390			MBMR	B	SB	MONITOR	R-02		GDC 18-278S	26-414W	sPLUMO4WT
1400	150390			MBMR	E	SB	MONITOR	R-02		GDC 31-365S	15-225W	sPLUMO4WT
1403	150390			MBMR	B	SB	MONITOR	R-03		GDC 31-367S	15-218W	sPLUMO4WT
1315	190390			MBMR	E	SB	MONITOR	R-03		GDC 33-189S	14-195W	sPLUMO4WT
1318	190390			MBMR	B	SB	MONITOR	R-04		GDC 33-190S	14-195W	sPLUMO4WT
0800	230390			MBMR	E	SB	MONITOR	R-04		GDC 34-491S	14-069W	sPLUMO4WT
0807	230390			MBMR	B	SB	MONITOR	R-05		GDC 34-493S	14-083W	sPLUMO4WT
0226	270390			MBMR	E	SB	MONITOR	R-05		GDC 34-566S	15-393W	sPLUMO4WT
0231	270390			MBMR	B	SB	MONITOR	R-06		GDC 34-574S	15-397W	sPLUMO4WT
1943	300390			MBMR	E	SB	MONITOR	R-06		GDC 33-470S	14-503W	sPLUMO4WT
1948	300390			MBMR	B	SB	MONITOR	R-07		GDC 33-471S	14-513W	sPLUMO4WT
2153	060490			MBMR	E	SB	MONITOR	R-07		GDC 35-288S	29-519W	sPLUMO4WT
2158	060490			MBMR	B	SB	MONITOR	R-08		GDC 35-288S	29-531W	sPLUMO4WT
0028	110490			MBMR	E	SB	MONITOR	R-08		GDC 35-081S	52-474W	sPLUMO4WT

#GMT #TIME #	DDMMYY DATE	LOC TIME	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
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## \*\*\* - MAGNETIC (EARTH TOTAL FIELD) RECORDS \*\*\*

1440	090390			MGRA	B MAGNETICS R-01	GDC	10-405S	32-487W	sPLUM04WT
1412	180390			MGRA	E MAGNETICS R-01	GDC	33-145S	14-201W	sPLUM04WT
2302	190390			MGRA	B MAGNETICS R-02	GDC	34-006S	14-298W	sPLUM04WT
2225	010490			MGRA	E MAGNETICS R-02	GDC	33-023S	15-286W	sPLUM04WT
2232	010490			MGRA	B MAGNETICS R-03	GDC	33-024S	15-271W	sPLUM04WT
2104	100490			MGRA	E MAGNETICS R-03	GDC	35-089S	51-596W	sPLUM04WT

## \*\*\* GRAVITY RECORDS \*\*\*

1919	080390			GVCR	B GRAVIMETER R-01	GDC	8-039S	34-523W	sPLUM04WT
1900	110490			GVCR	E GRAVIMETER R-01	GDC	34-576S	56-133W	sPLUM04WT

## \*\*\* ECHO SOUNDER RECORDS \*\*\*

2150	080390			DPRT	B 12 KHZ(W/3.5) R-01	GDC	8-205S	34-381W	sPLUM04WT
2300	010490			DPRT	E 12 KHZ(W/3.5) R-01	GDC	33-024S	15-209W	sPLUM04WT
2305	010490			DPRT	B 12 KHZ R-02	GDC	33-024S	15-198W	sPLUM04WT
2119	030490			DPRT	E 12 KHZ R-02	GDC	34-029S	15-381W	sPLUM04WT
2122	030490			DPRT	B 12 KHZ R-03	GDC	34-035S	15-382W	sPLUM04WT
0949	080490			DPRT	E 12 KHZ R-03	GDC	35-212S	37-415W	sPLUM04WT
0953	080490			DPRT	B 12 KHZ(W/3.5) R-01	GDC	35-212S	37-424W	sPLUM04WT
2336	100490			DPRT	E 12 KHZ(W/3.5) R-01	GDC	35-089S	52-354W	sPLUM04WT
2150	080390			DPR3	B 3.5 KHZ(W/12) R-01	GDC	8-205S	34-381W	sPLUM04WT
2300	010490			DPR3	E 3.5 KHZ(W/12) R-01	GDC	33-024S	15-209W	sPLUM04WT
0953	080490			DPR3	B 3.5 KHZ(W/12) R-02	GDC	35-212S	37-424W	sPLUM04WT
2336	100490			DPR3	E 3.5 KHZ(W/12) R-02	GDC	35-089S	52-354W	sPLUM04WT

#GMT #TIME #	DDMMYY DATE ---	LOC T TIME Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
*** EXPENDABLE <sup>7</sup> BATHYTHERMOGRAPHS ***								
1148	090390		BTXP	XBT 0001 PROBE T-6	GDC	10-190S	033-053W	fPLUM04WT
1120	100390		BTXP	XBT 0002 PROBE T-6	GDC	13-395S	030-284W	fPLUM04WT
0953	110390		BTXP	XBT 0003 PROBE T-6	GDC	16-584S	027-541W	fPLUM04WT
1007	120390		BTXP	XBT 0004 PROBE T-6	GDC	20-330S	025-007W	fPLUM04WT
1033	130390		BTXP	XBT 0007 PROBE T-6	GDC	24-104S	022-025W	fPLUM04WT
0956	140390		BTXP	XBT 0008 PROBE T-6	GDC	27-347S	019-060W	fPLUM04WT
1009	150390		BTXP	XBT 0009 PROBE T-6	GDC	31-094S	016-002W	fPLUM04WT
0953	160390		BTXP	XBT 0010 PROBE T-6	GDC	33-365S	014-294W	fPLUM04WT
0958	170390		BTXP	XBT 0011 PROBE T-6	GDC	34-038S	014-339W	fPLUM04WT
0949	180390		BTXP	XBT 0012 PROBE T-6	GDC	33-335S	014-089W	fPLUM04WT
1003	190390		BTXP	XBT 0013 PROBE T-6	GDC	33-122S	014-223W	fPLUM04WT
1003	200390		BTXP	XBT 0014 PROBE T-6	GDC	34-406S	016-273W	fPLUM04WT
1113	220390		BTXP	XBT 0015 PROBE T-6	GDC	34-441S	014-522W	fPLUM04WT
1012	230390		BTXP	XBT 0016 PROBE T-6	GDC	34-535S	014-353W	fPLUM04WT
0951	240390		BTXP	XBT 0017 PROBE T-4	GDC	35-034S	014-256W	fPLUM04WT
1009	250390		BTXP	XBT 0018 PROBE T-4	GDC	34-080S	014-548W	fPLUM04WT
0954	260390		BTXP	XBT 0019 PROBE T-4	GDC	35-131S	016-127W	fPLUM04WT
1003	260390		BTXP	XBT 0020 PROBE T-4	GDC	35-113S	016-127W	fPLUM04WT
0951	270390		BTXP	XBT 0021 PROBE T-4	GDC	35-089S	014-433W	fPLUM04WT
1000	270390		BTXP	XBT 0022 PROBE T-4	GDC	35-086S	014-413W	fPLUM04WT
1022	280390		BTXP	XBT 0023 PROBE T-4	GDC	33-404S	013-566W	fPLUM04WT
1004	290390		BTXP	XBT 0024 PROBE T-4	GDC	33-351S	013-194W	fPLUM04WT
1000	300390		BTXP	XBT 0025 PROBE T-4	GDC	34-035S	015-419W	fPLUM04WT
0952	310390		BTXP	XBT 0026 PROBE T-4	GDC	33-398S	015-322W	fPLUM04WT
0956	010490		BTXP	XBT 0027 PROBE T-4	GDC	33-156S	015-080W	fPLUM04WT
1004	020490		BTXP	XBT 0028 PROBE T-4	GDC	32-485S	015-269W	fPLUM04WT
1013	030490		BTXP	XBT 0029 PROBE T-6	GDC	32-148S	015-171W	fPLUM04WT
0956	040490		BTXP	XBT 0030 PROBE T-6	GDG	34-534S	017-283W	fPLUM04WT
1003	050490		BTXP	XBT 0031 PROBE T-6	GDC	35-248S	022-090W	fPLUM04WT
0954	060490		BTXP	XBT 0032 PROBE T-6	GDC	35-305S	027-111W	fPLUM04WT
0952	070490		BTXP	XBT 0033 PROBE T-6	GDC	35-251S	032-373W	fPLUM04WT
1114	080490		BTXP	XBT 0034 PROBE T-6	GDC	35-215S	038-013W	fPLUM04WT
1058	090490		BTXP	XBT 0035 PROBE T-6	GDC	35-164S	043-340W	fPLUM04WT
1117	100490		BTXP	XBT 0036 PROBE T-6	GDC	35-125S	049-318W	fPLUM04WT

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END SAMPLE INDEX