

INFORMAL REPORT AND INDEX OF  
NAVIGATION, DEPTH, MAGNETIC AND SUBBOTTOM PROFILER DATA  
(Issued January 1986)

PAPATUA EXPEDITION

LEG 3

Manzanillo, Mexico (21 November 1985)  
to  
Pago Pago, Samoa (26 December 1985)

R/V T. Washington

Chief Scientist - J. Mammerickx

Resident Marine Tech - G. Hargreaves

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

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

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.# 220

MAGNETIC PROFILES FROM DECEMBER 12 TO THE END OF THE CRUISE  
LEG HAVE BEEN REMOVED AT THE REQUEST OF JACQUELINE MAMMERICKX.  
FOR ACCESS CONTACT JACQUELINE MAMMERICKX.

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 $\frac{2}{3}$  degree beam width) depths retrieved at one minute intervals of ship time.
3. Plots of magnetic anomaly 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

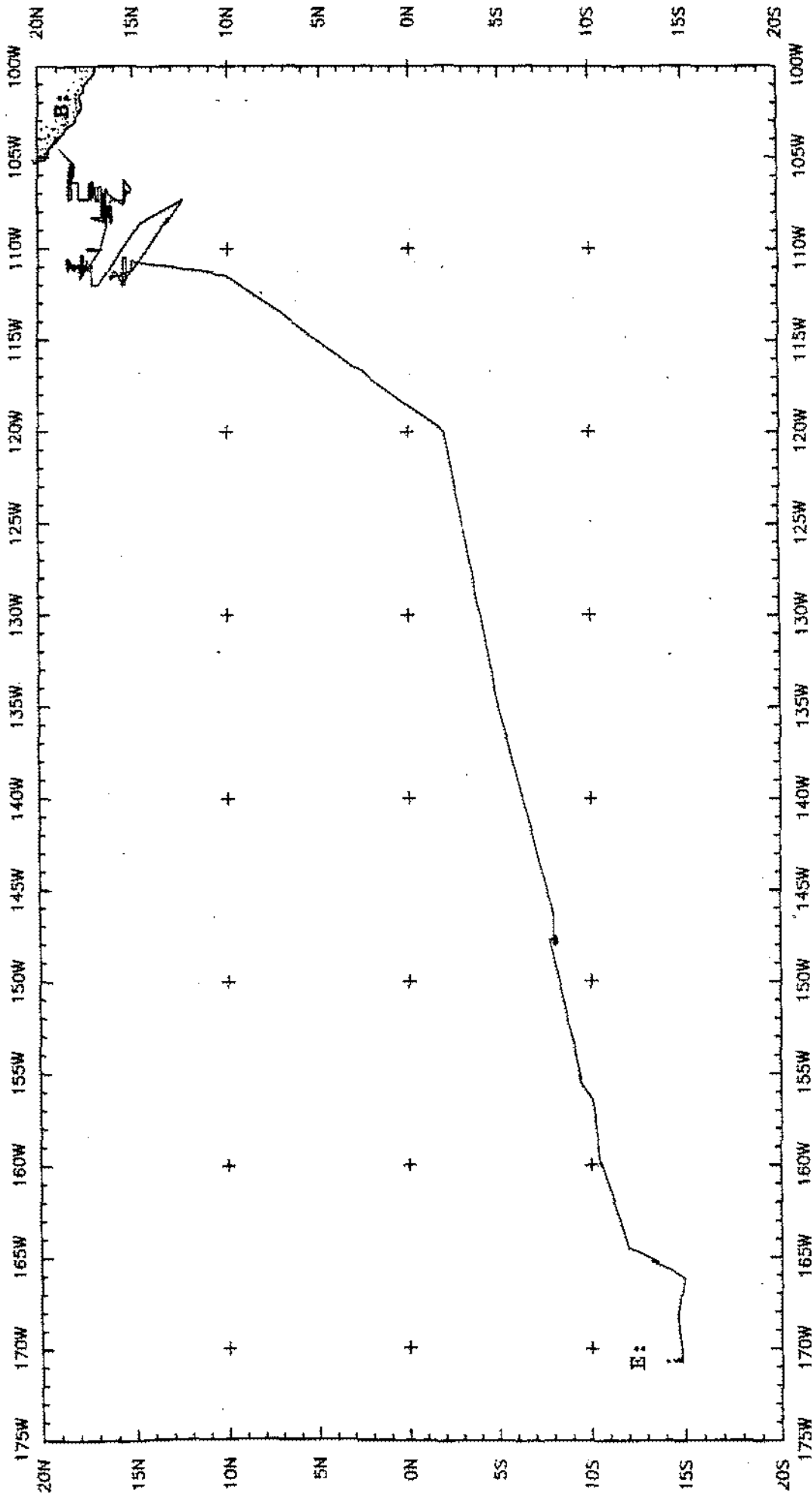
Revised June 1985 (Sea Beam)

## 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



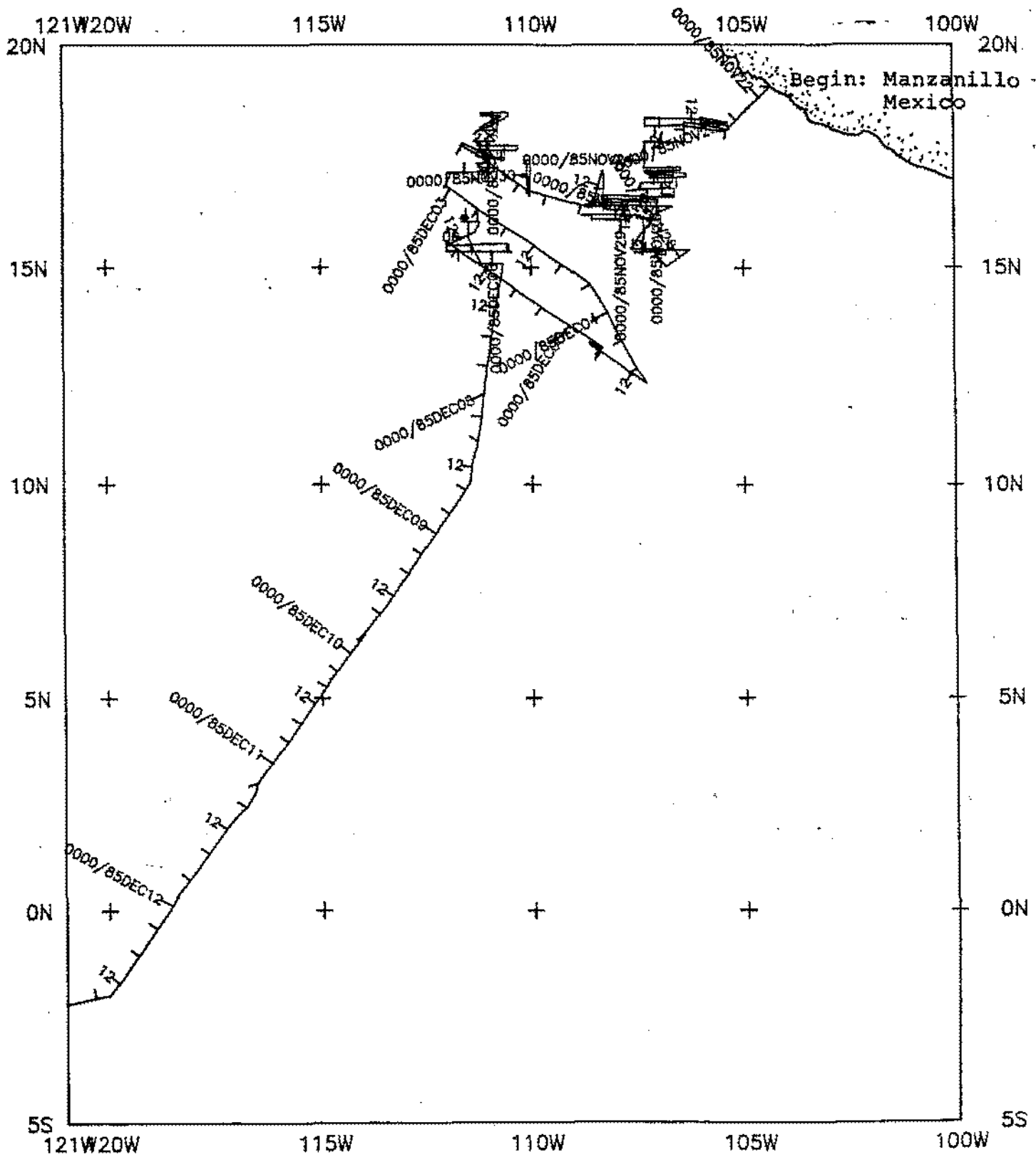
PPT003WT LEC 3 Track at .1632in/deg

PAPATUA EXPEDITION  
LEG 3

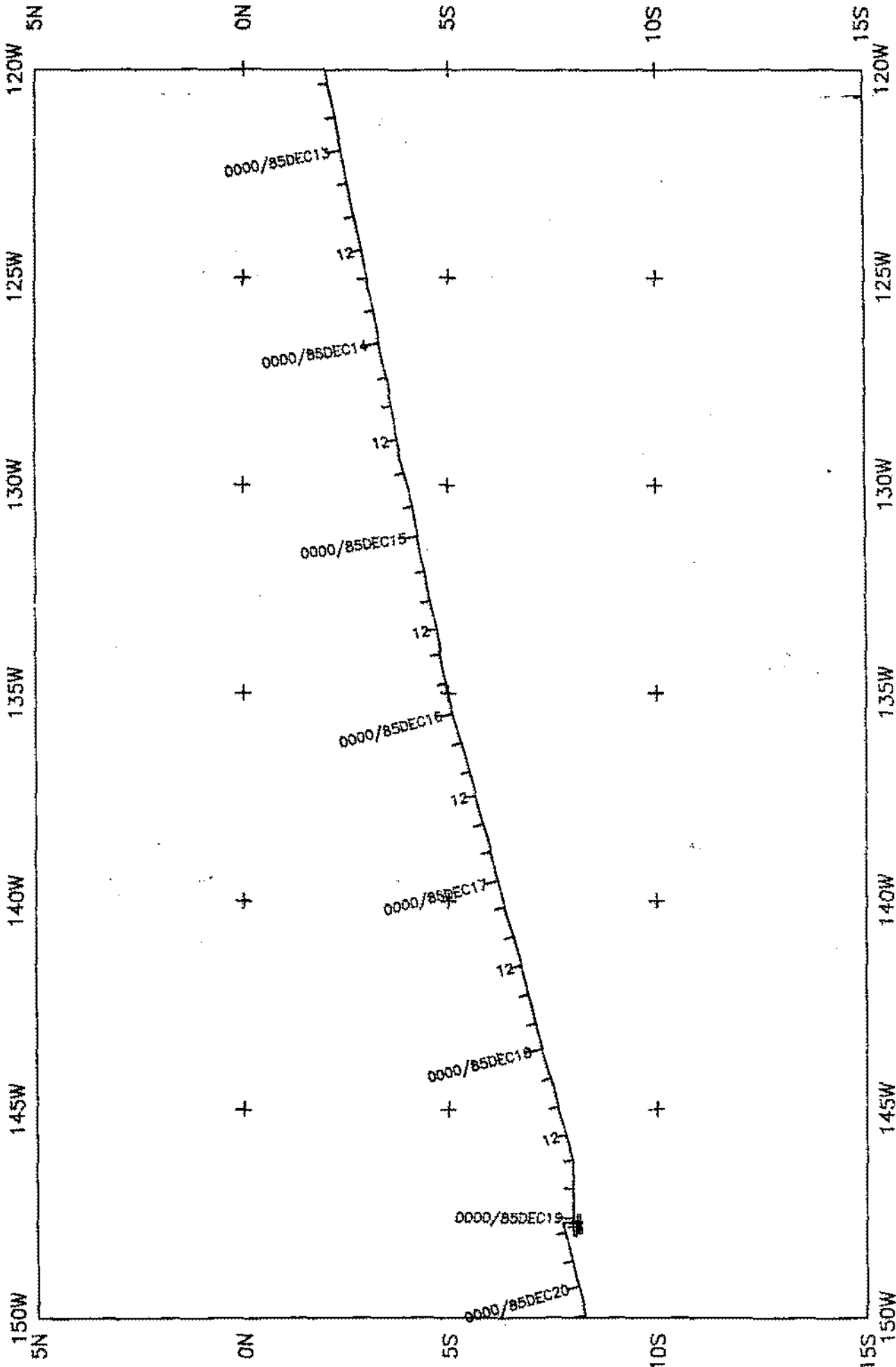
CHIEF SCIENTIST: J. Mammerickx  
 PORTS: Manzanillo - Pago Pago, Samoa  
 DATES: 21 November - 26 December 1985  
 SHIP: R/V T. Washington

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

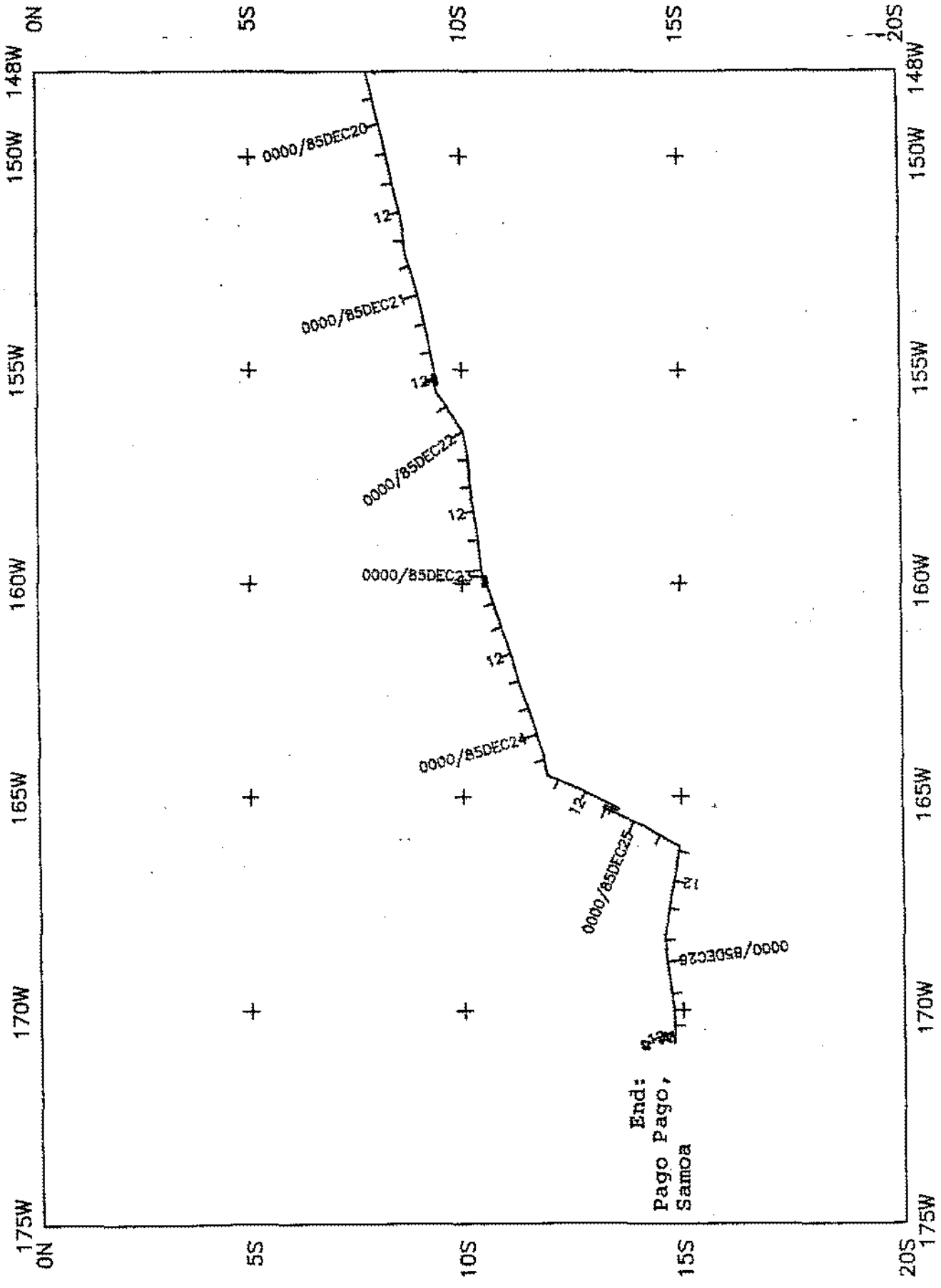
- 1) Cruise - 8902 miles
- 2) Bathymetry - 8572 miles
- 3) Magnetics - 7587 miles
- 4) Seismic Reflection - none collected
- 5) Gravity - none collected
- 6) SeaBeam - 8572 miles



PPTU03WT TRACK PLOT AT .312 in/degree (plot 1 of 3)

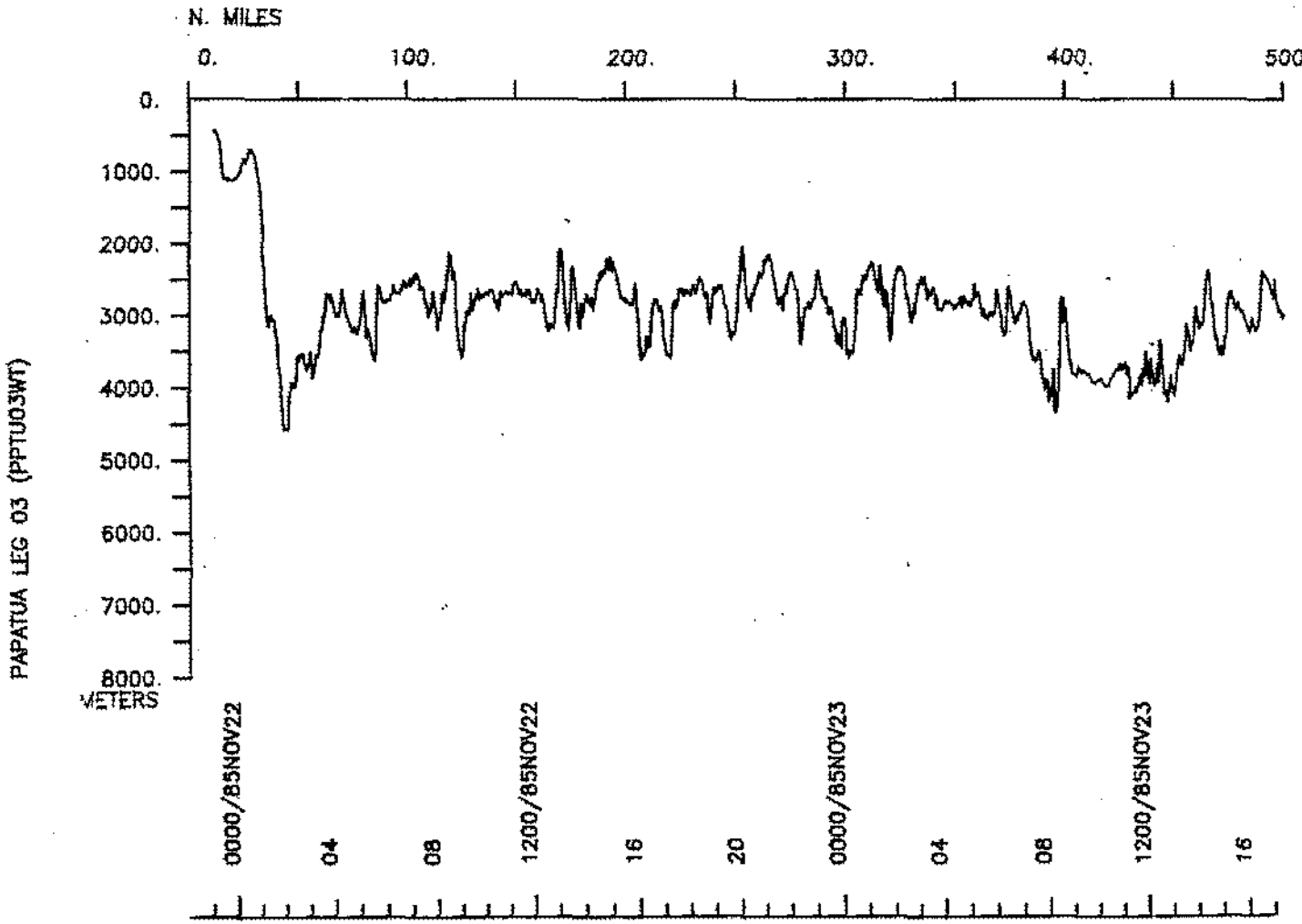
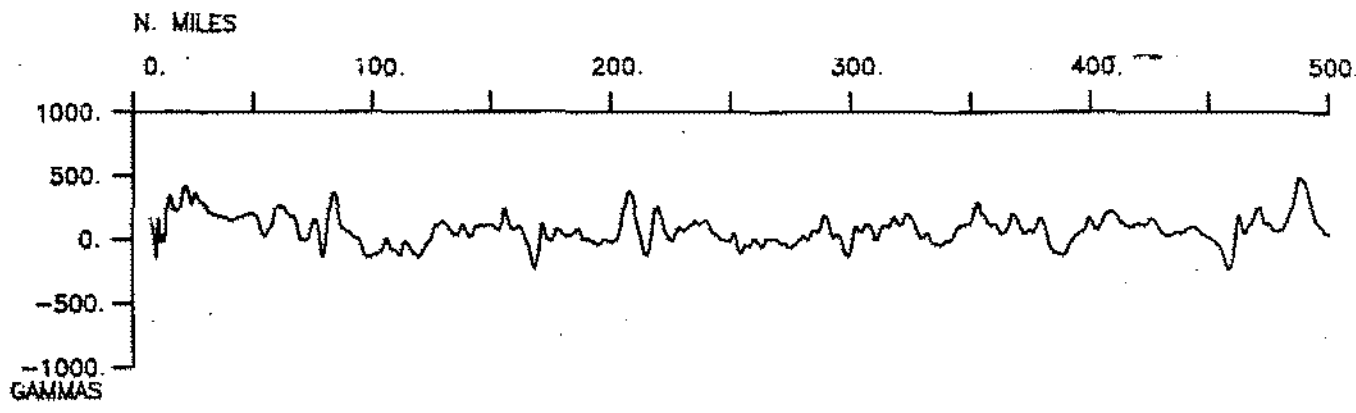


PPTU03WT TRACK PLOT AT .312 in/degree (plot 2 of 3)

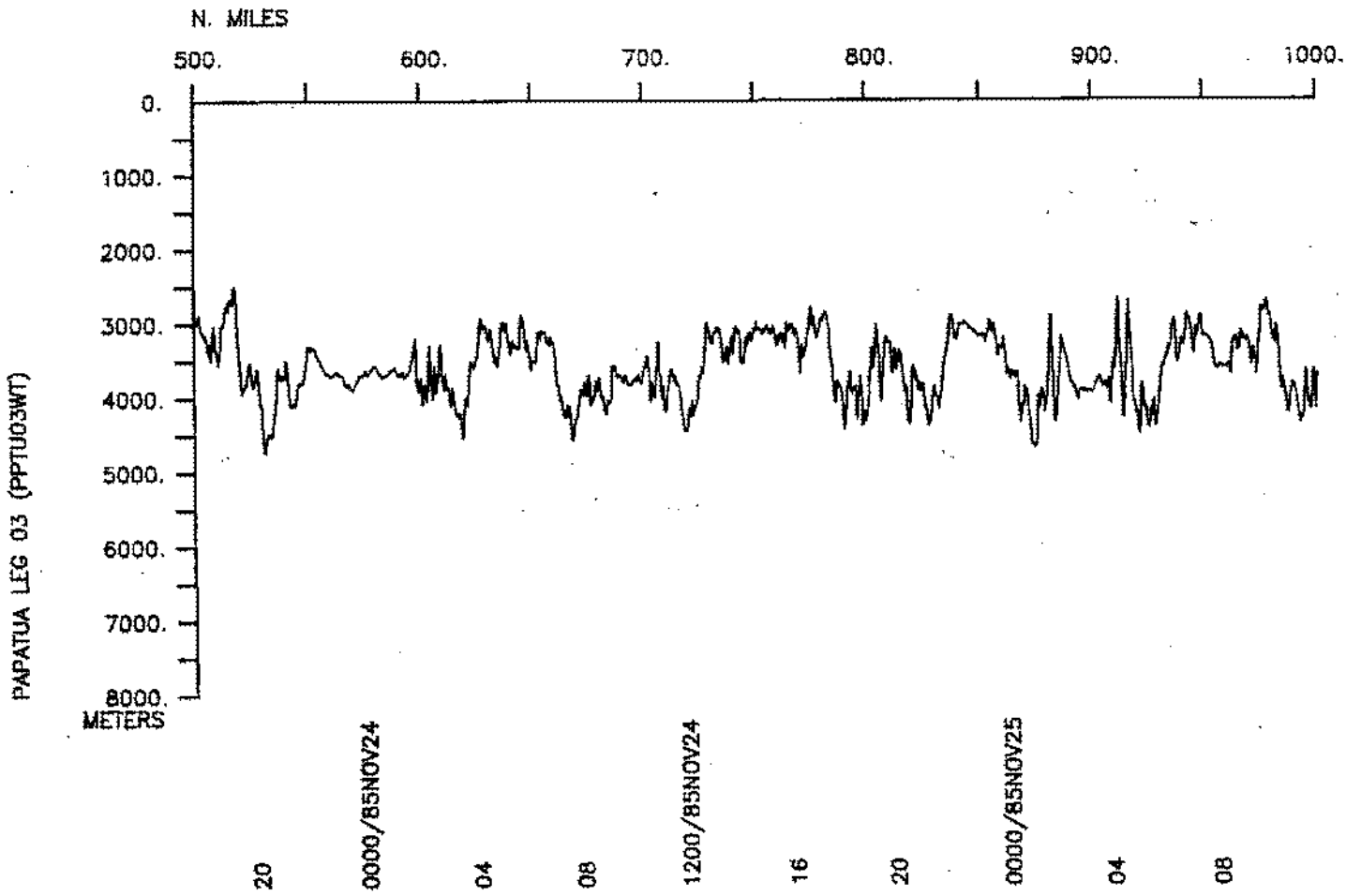
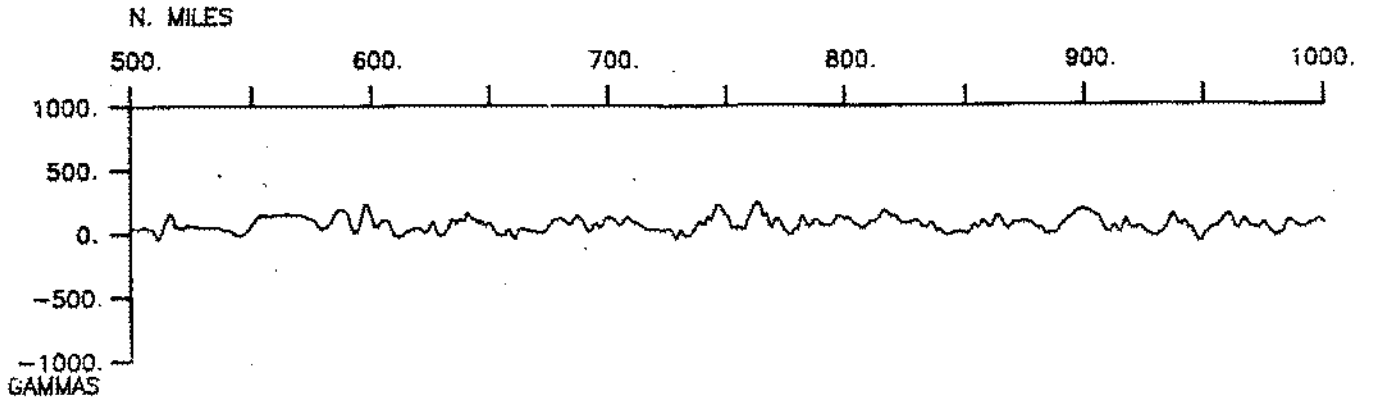


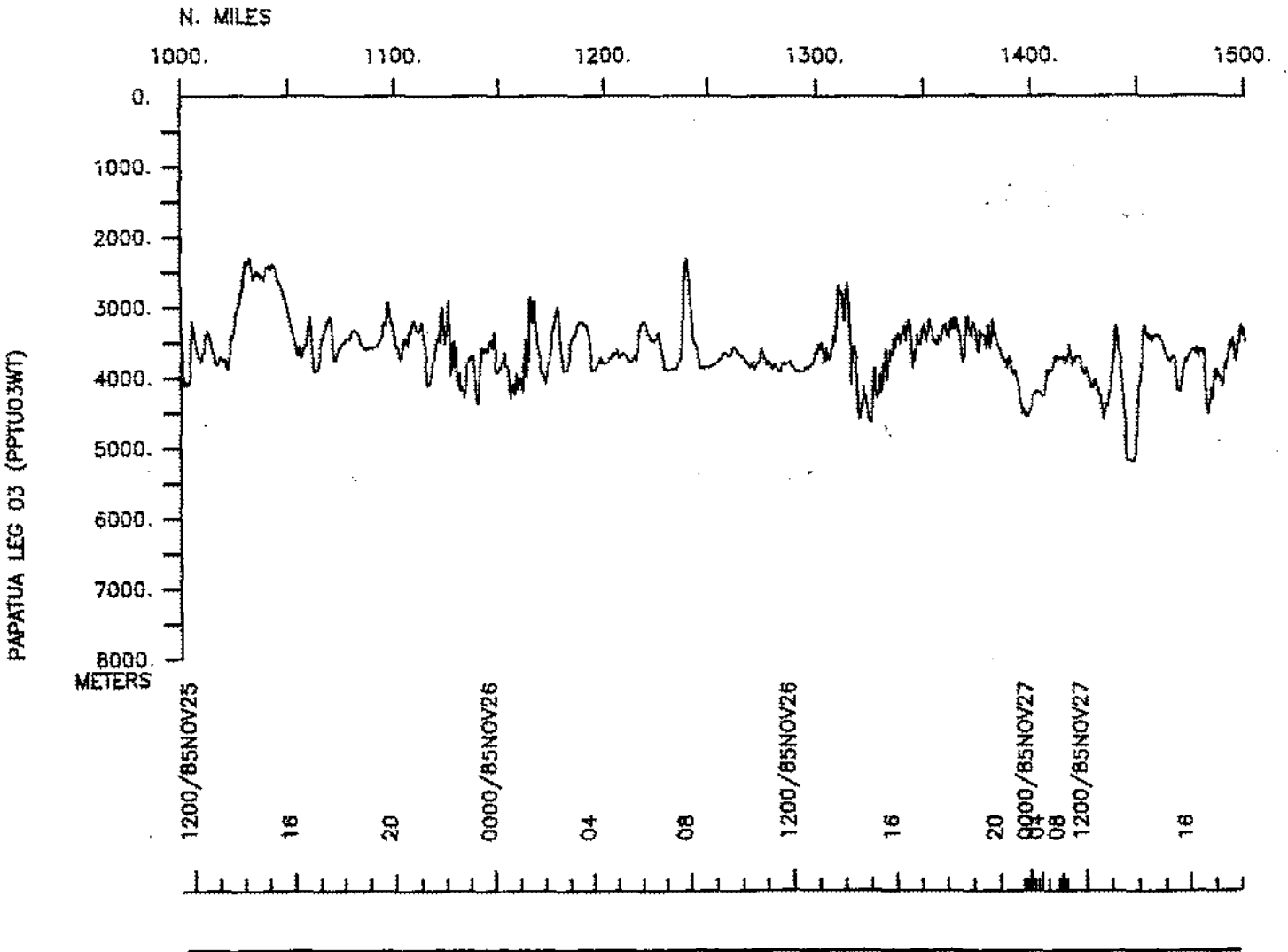
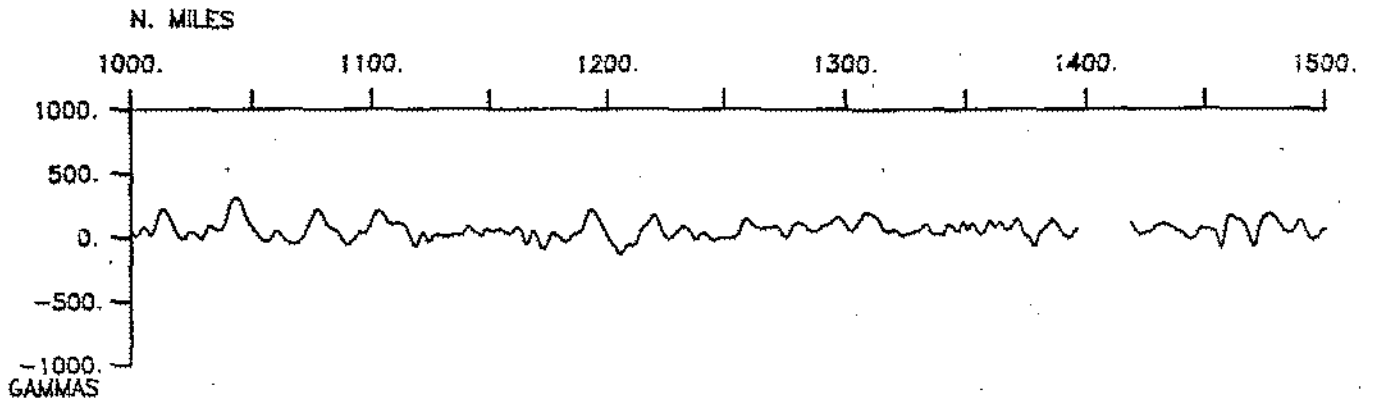
PPTU03WT TRACK PLOT AT .312 in/degree (plot 3 of 3)

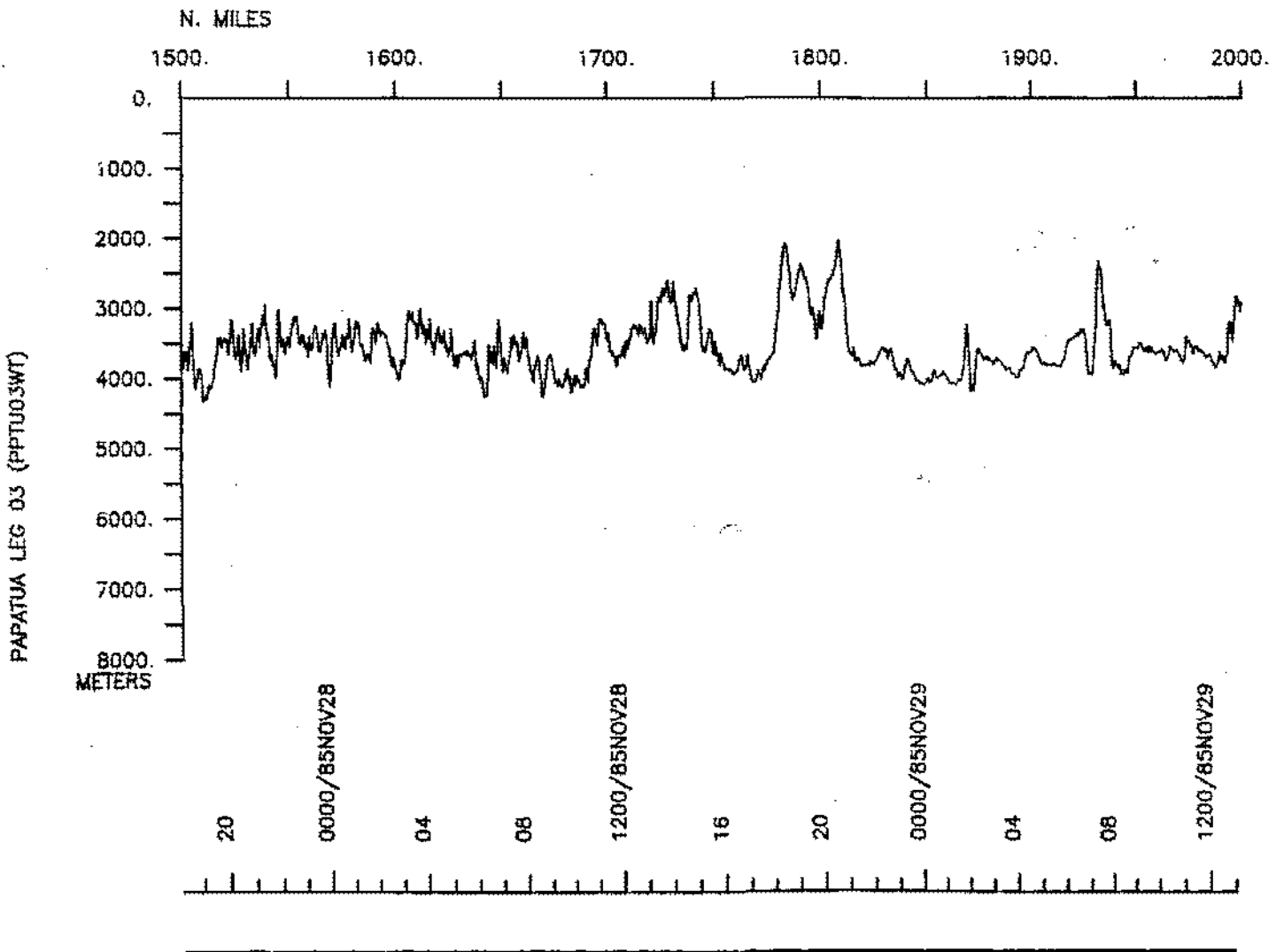
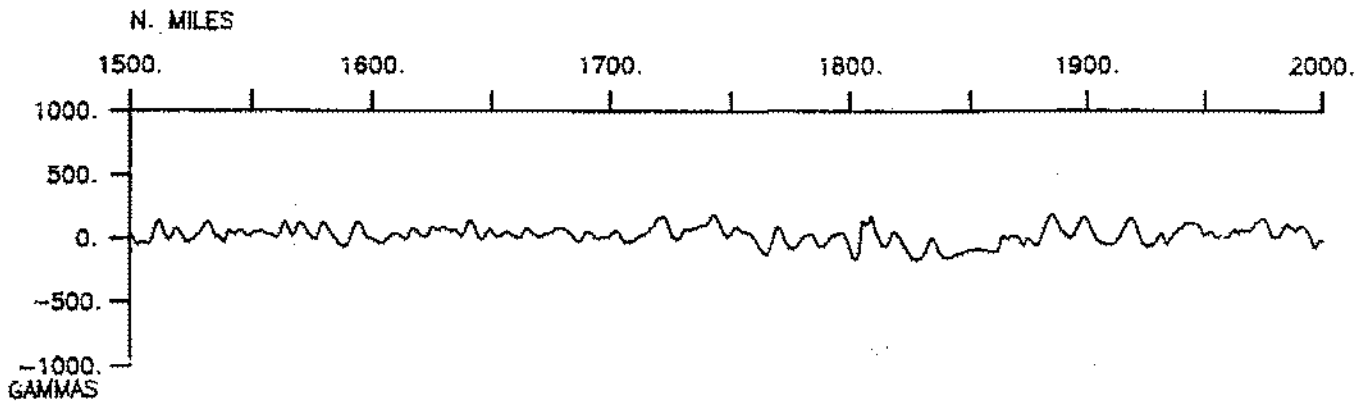


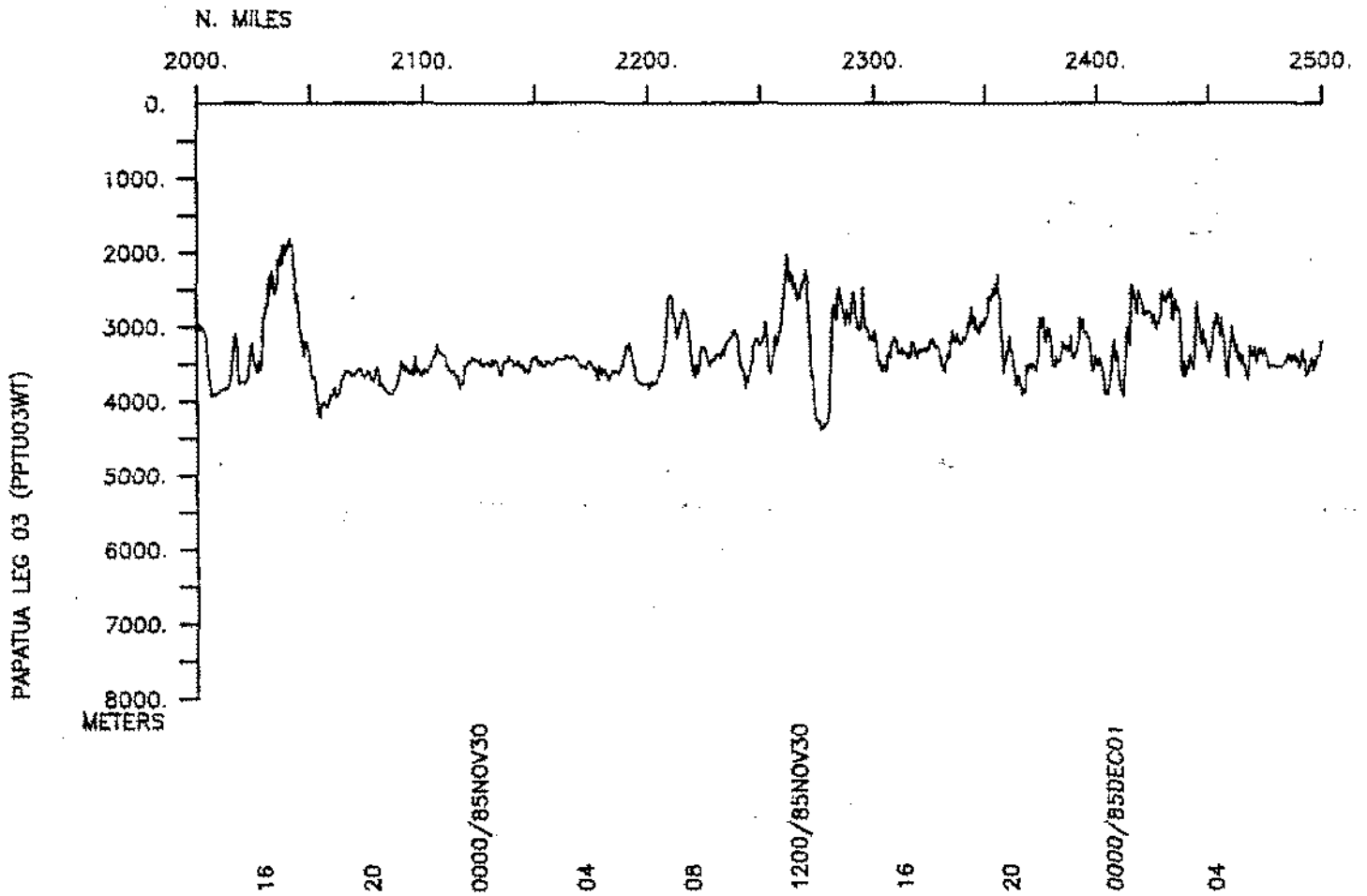
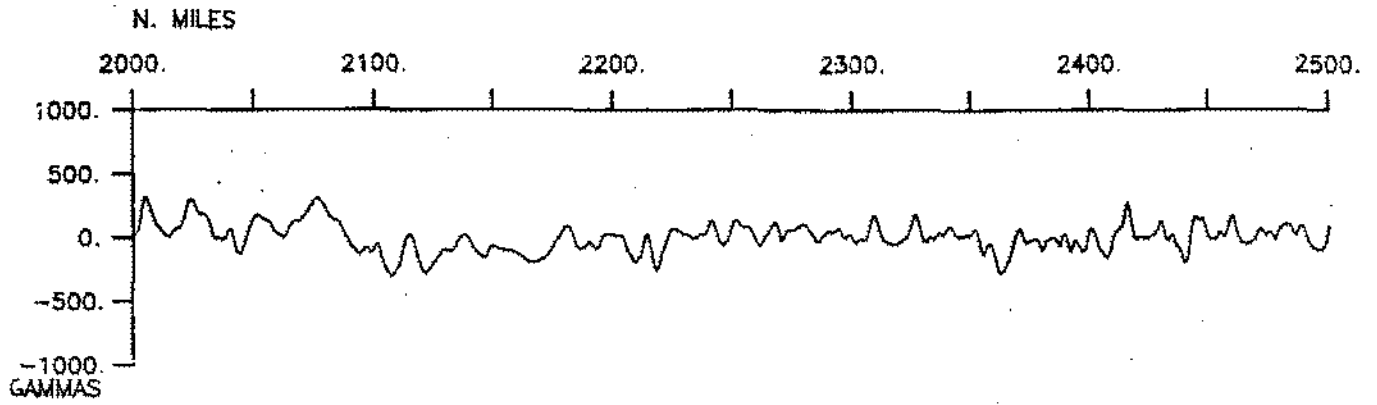


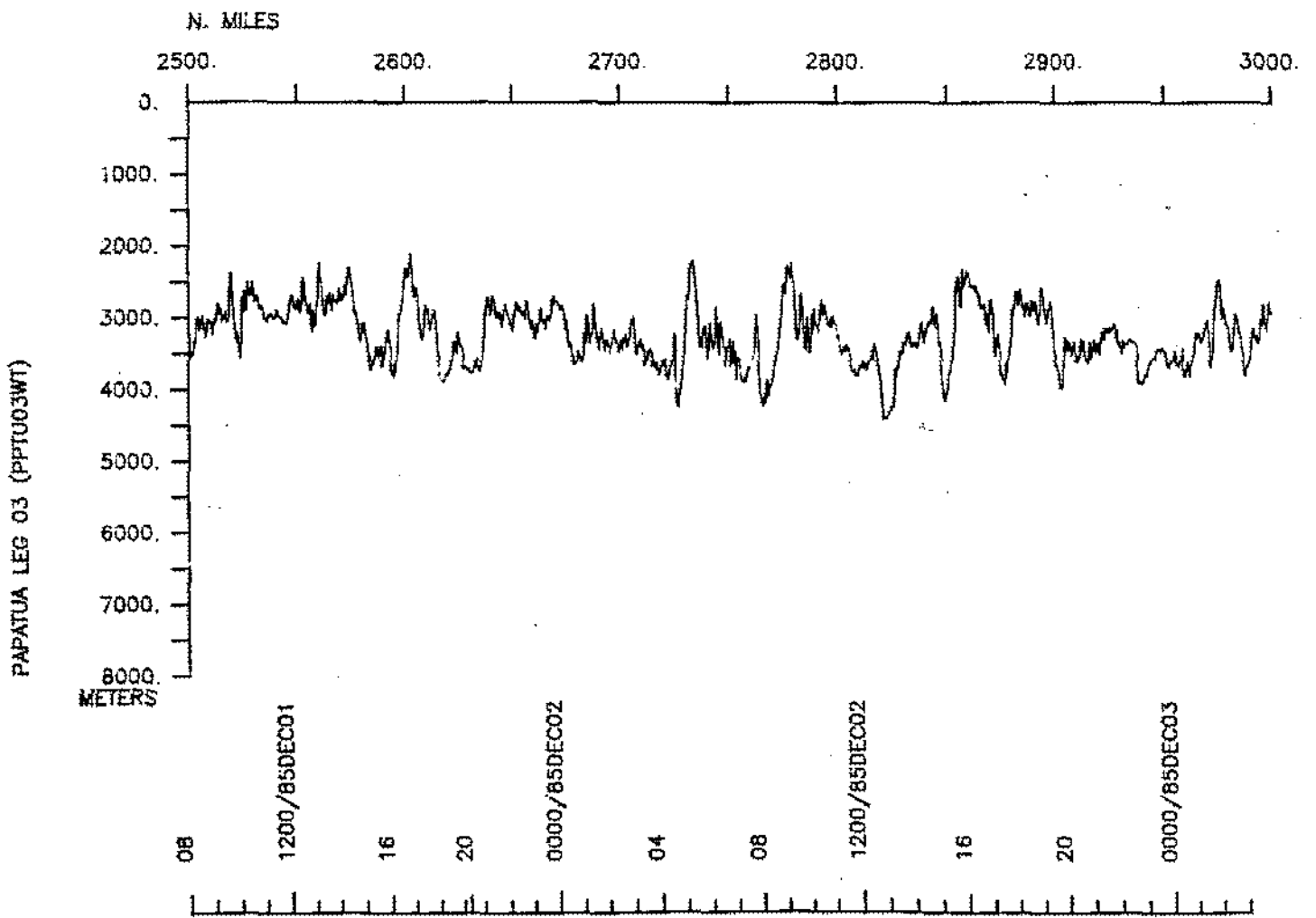
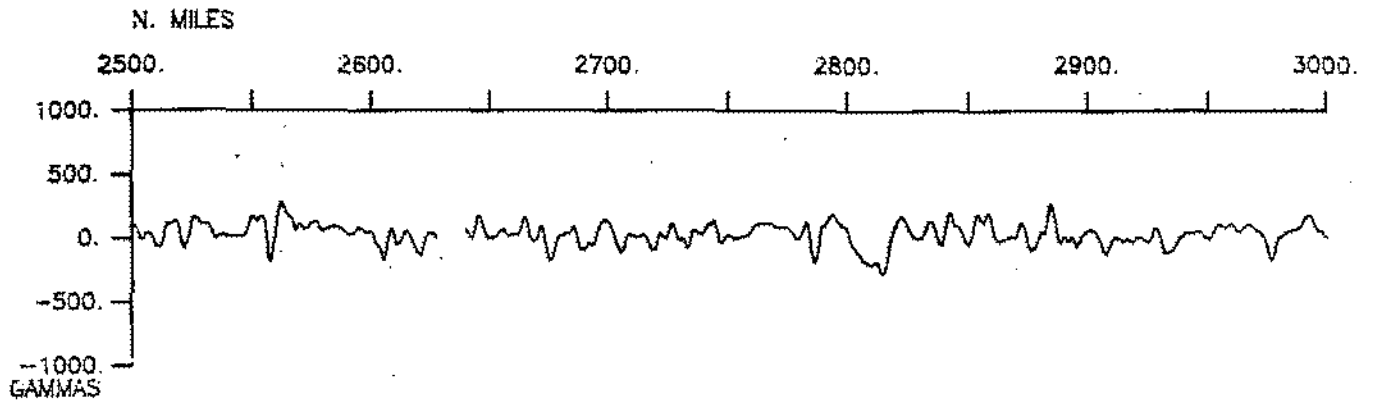
SEA-BEAM

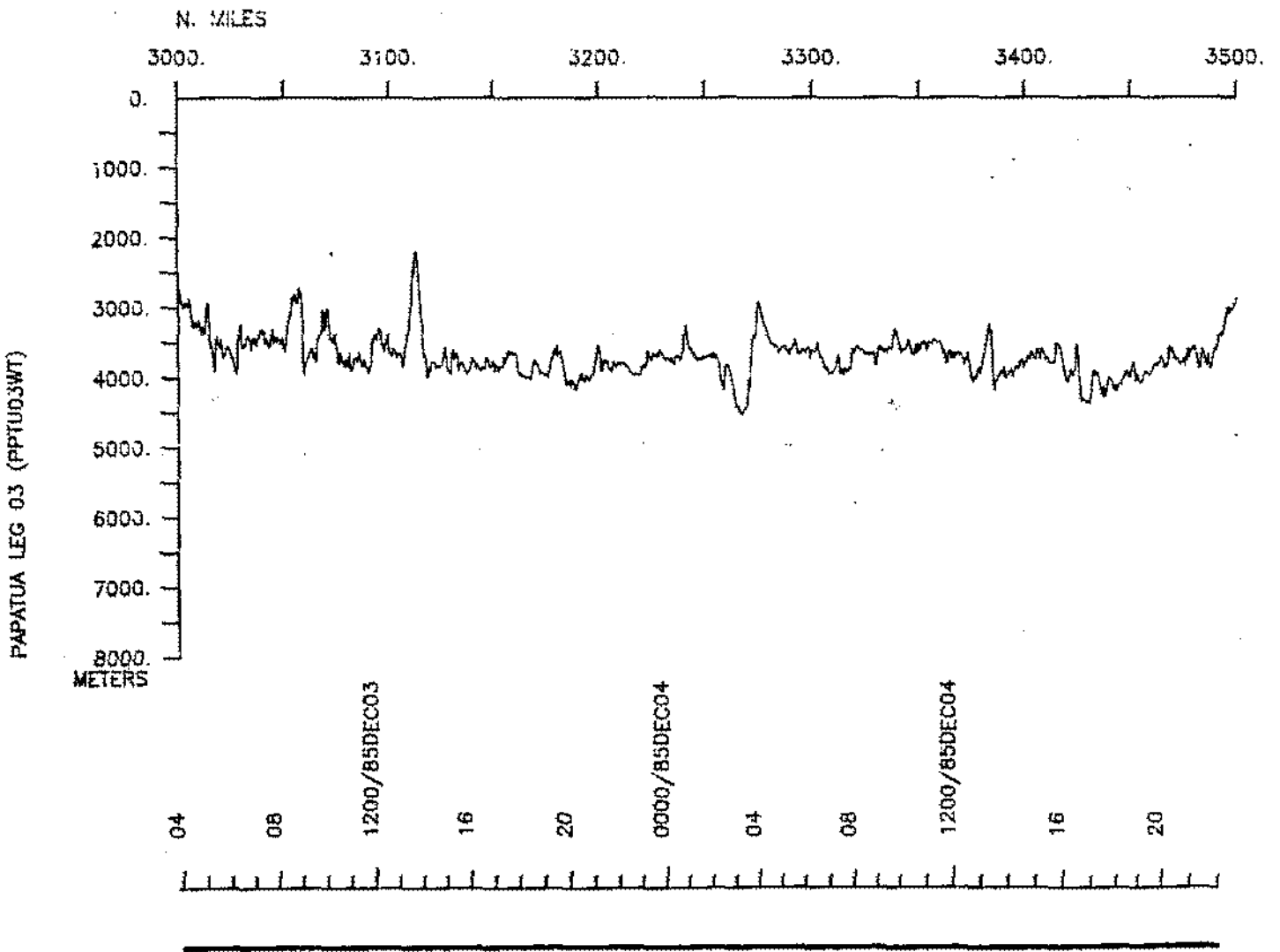
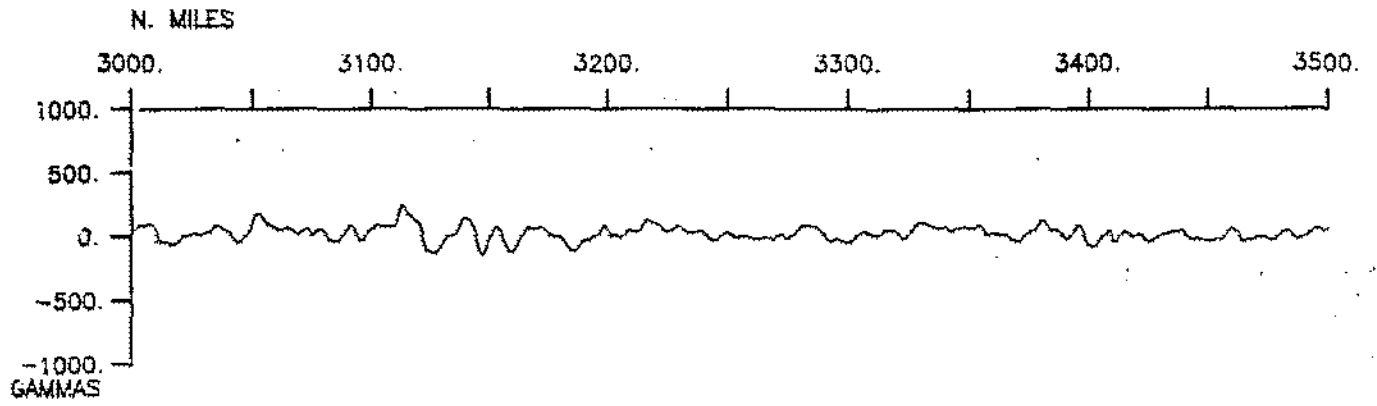


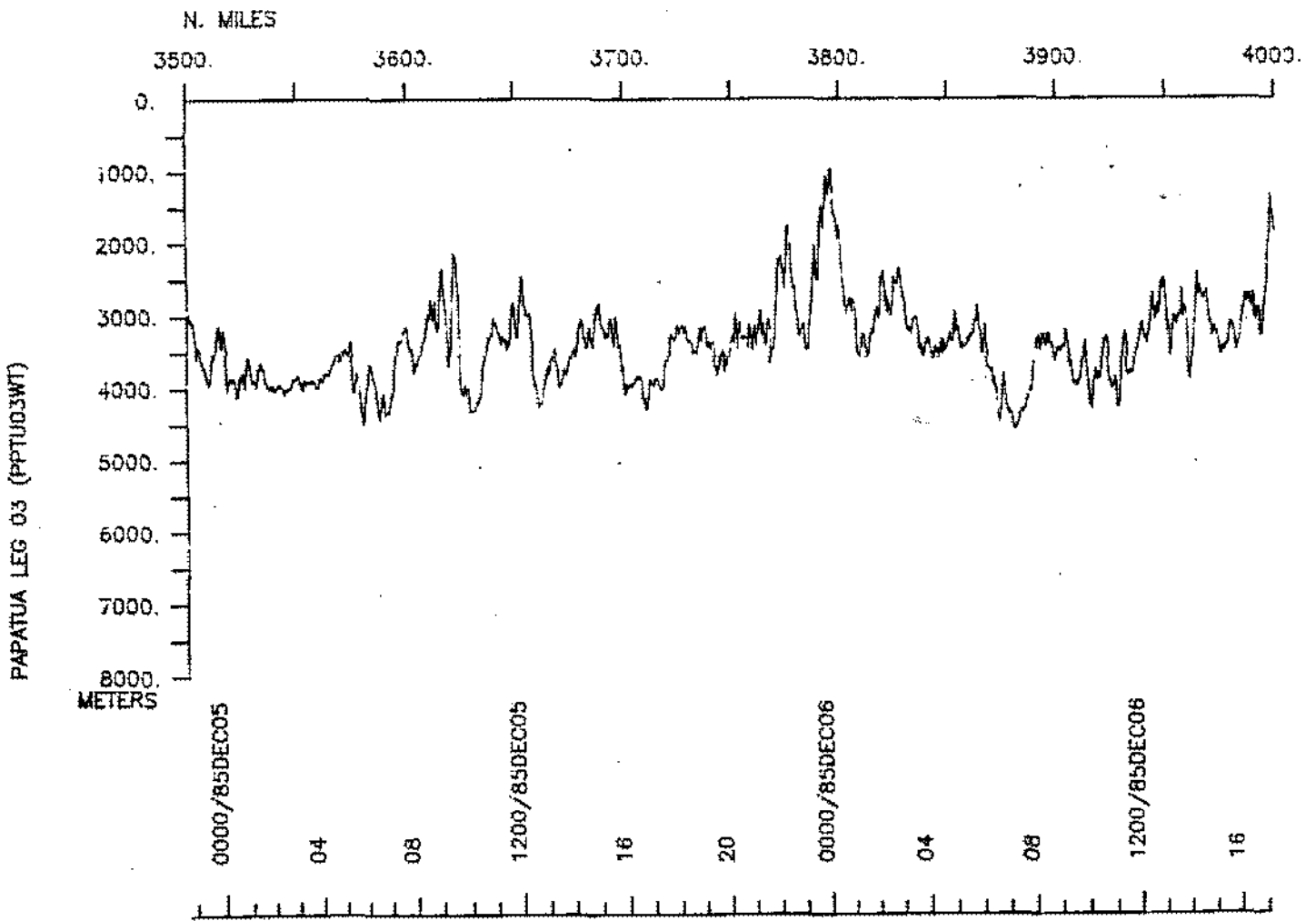
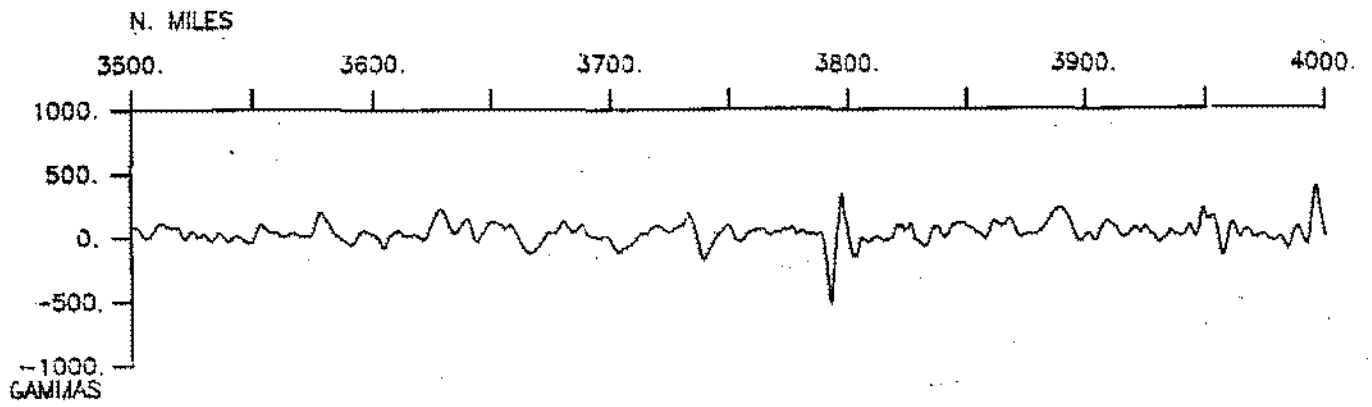




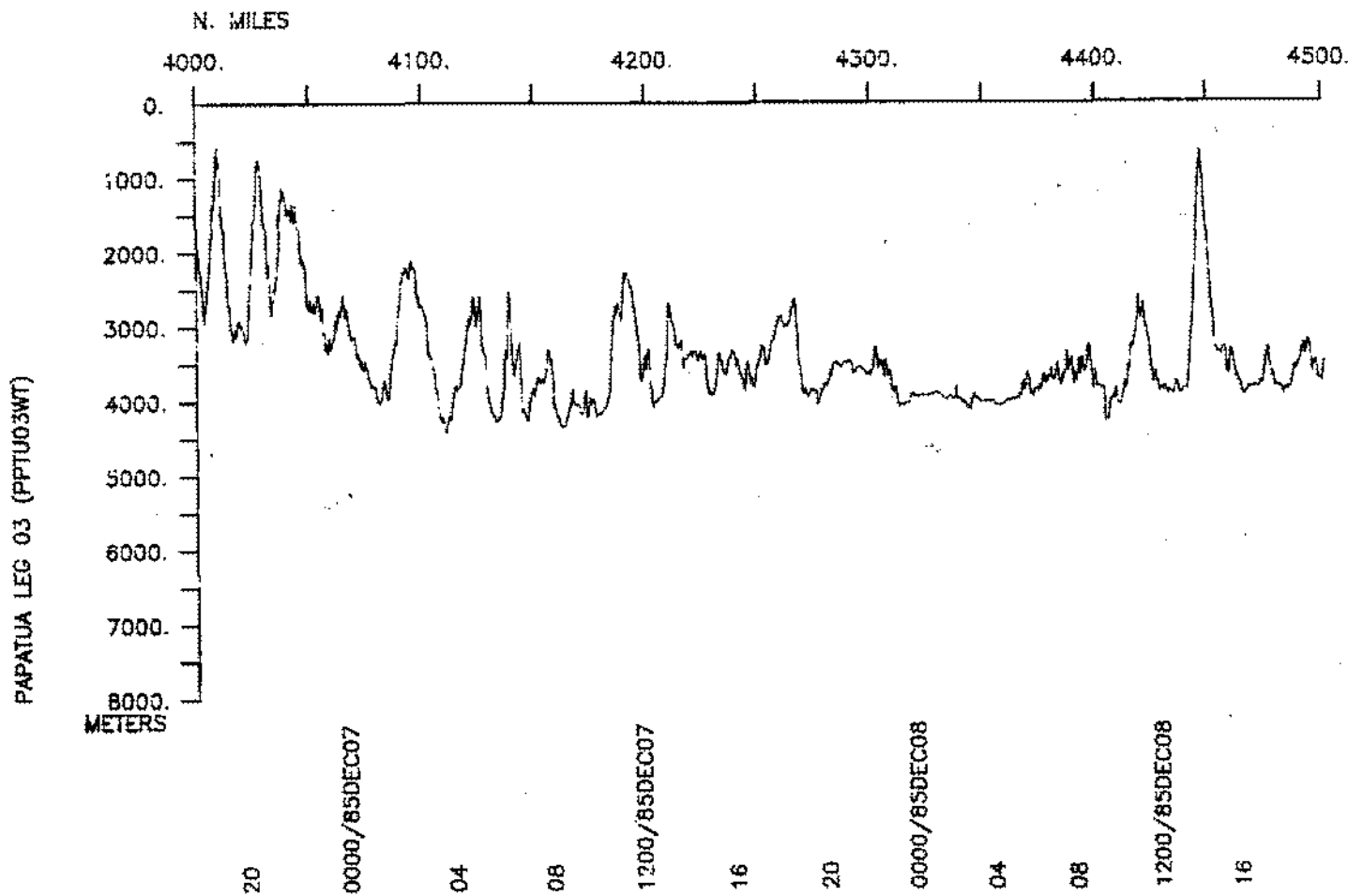
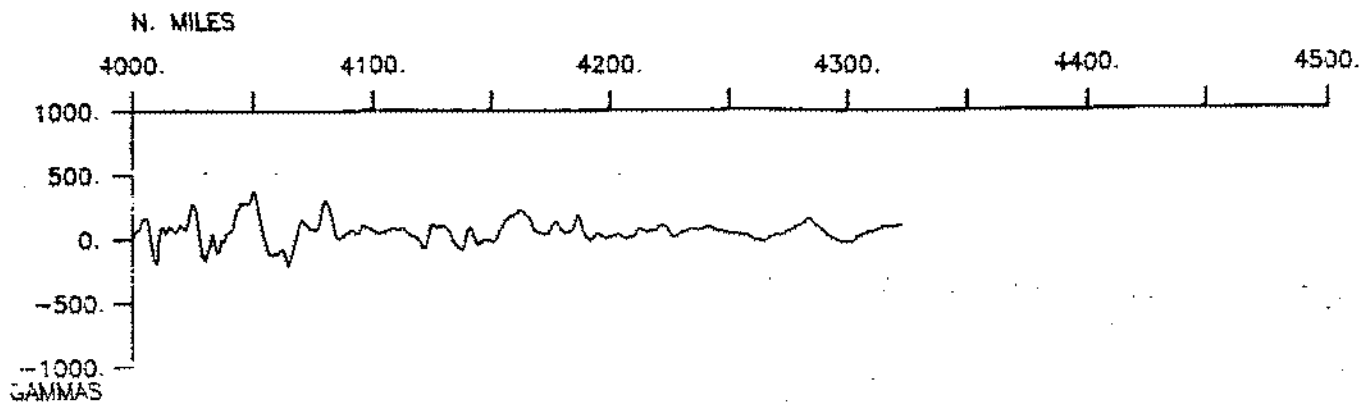


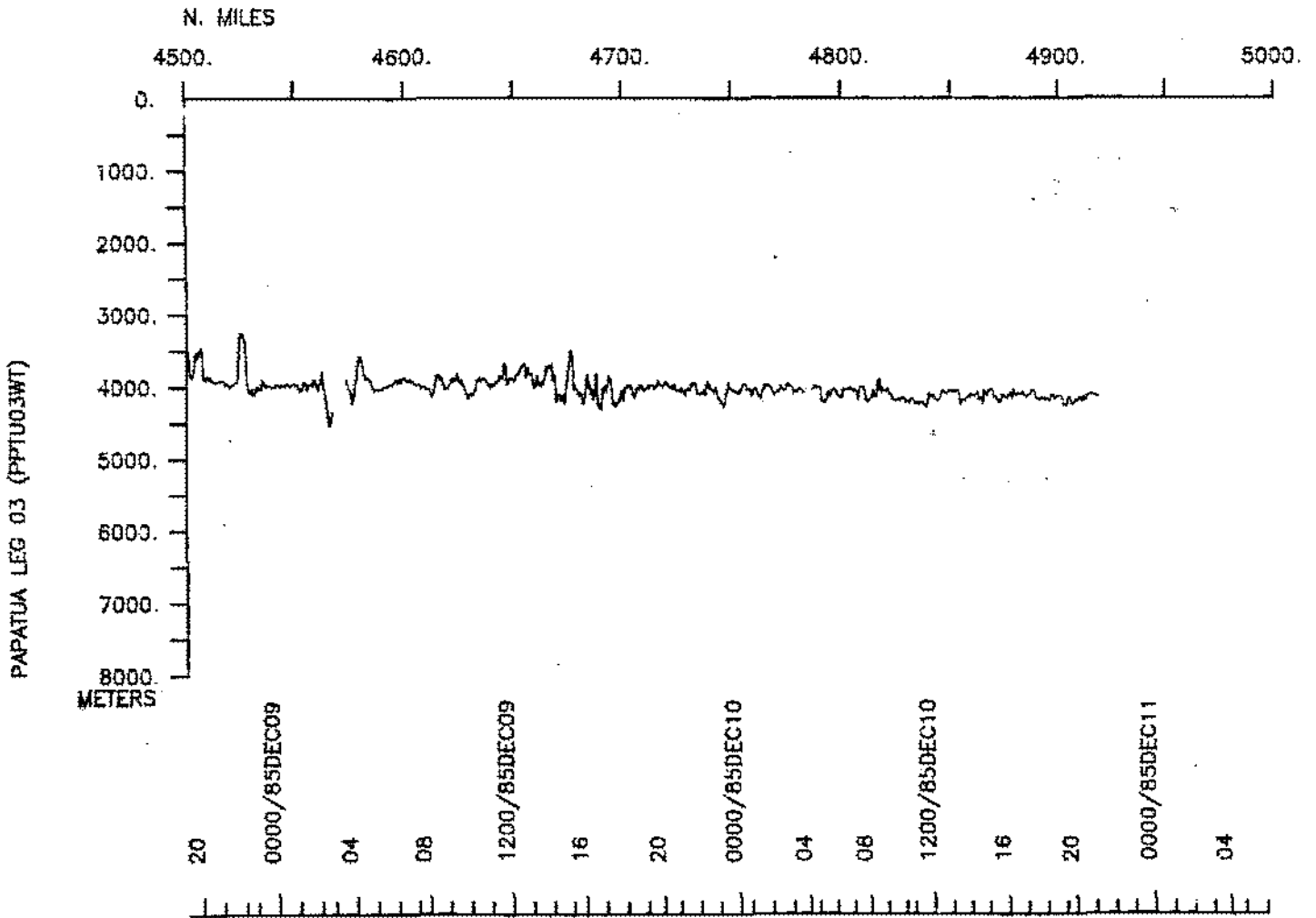
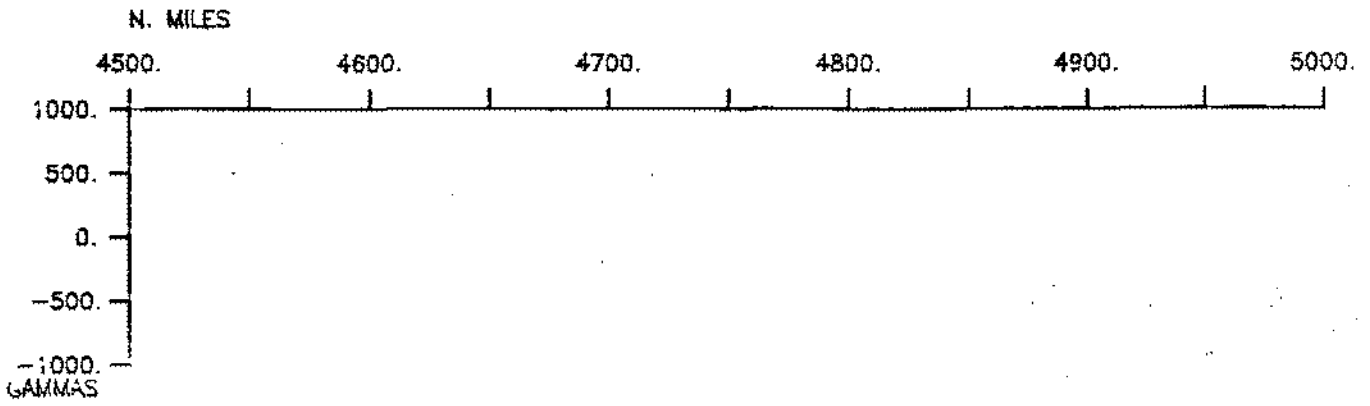




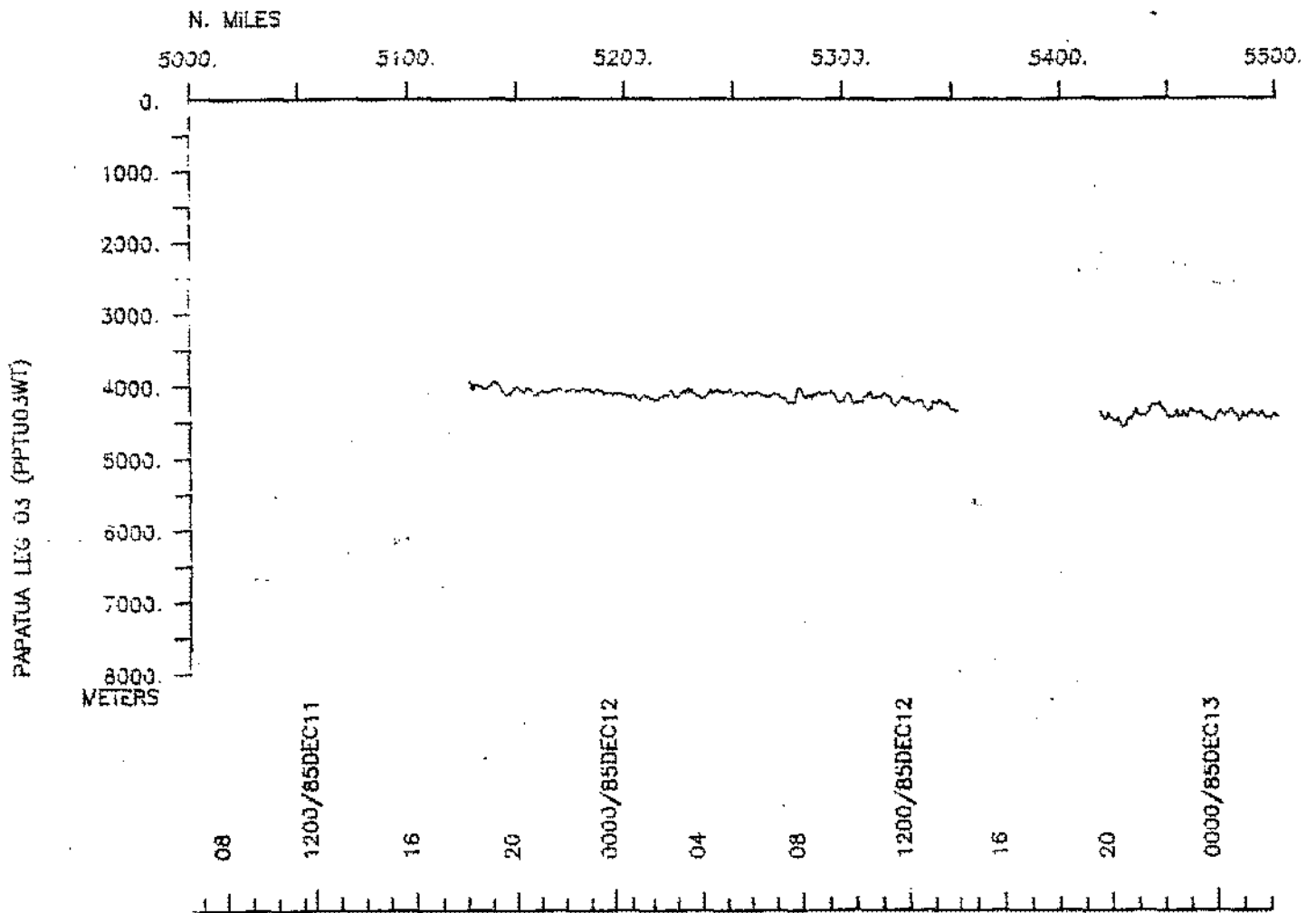




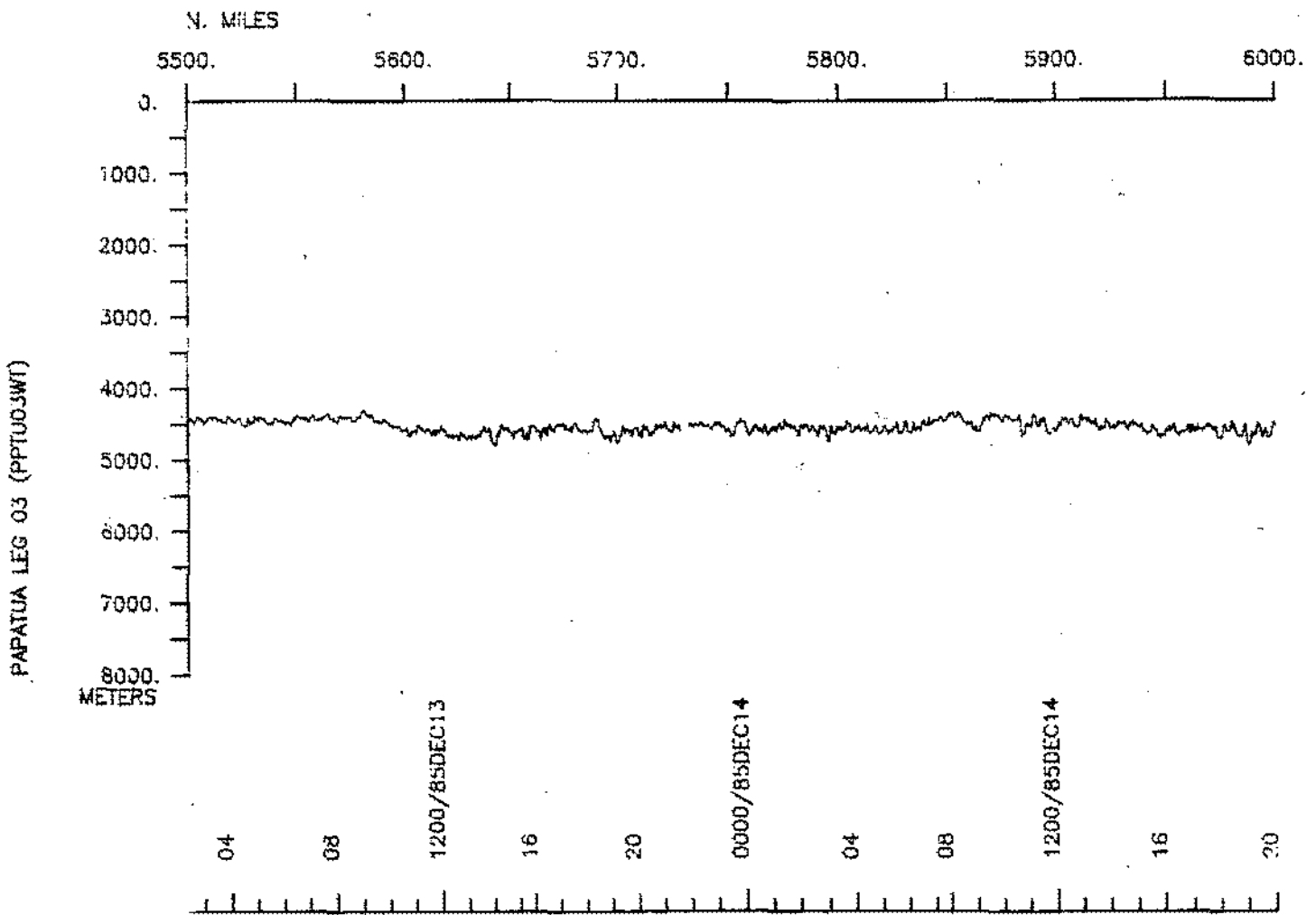




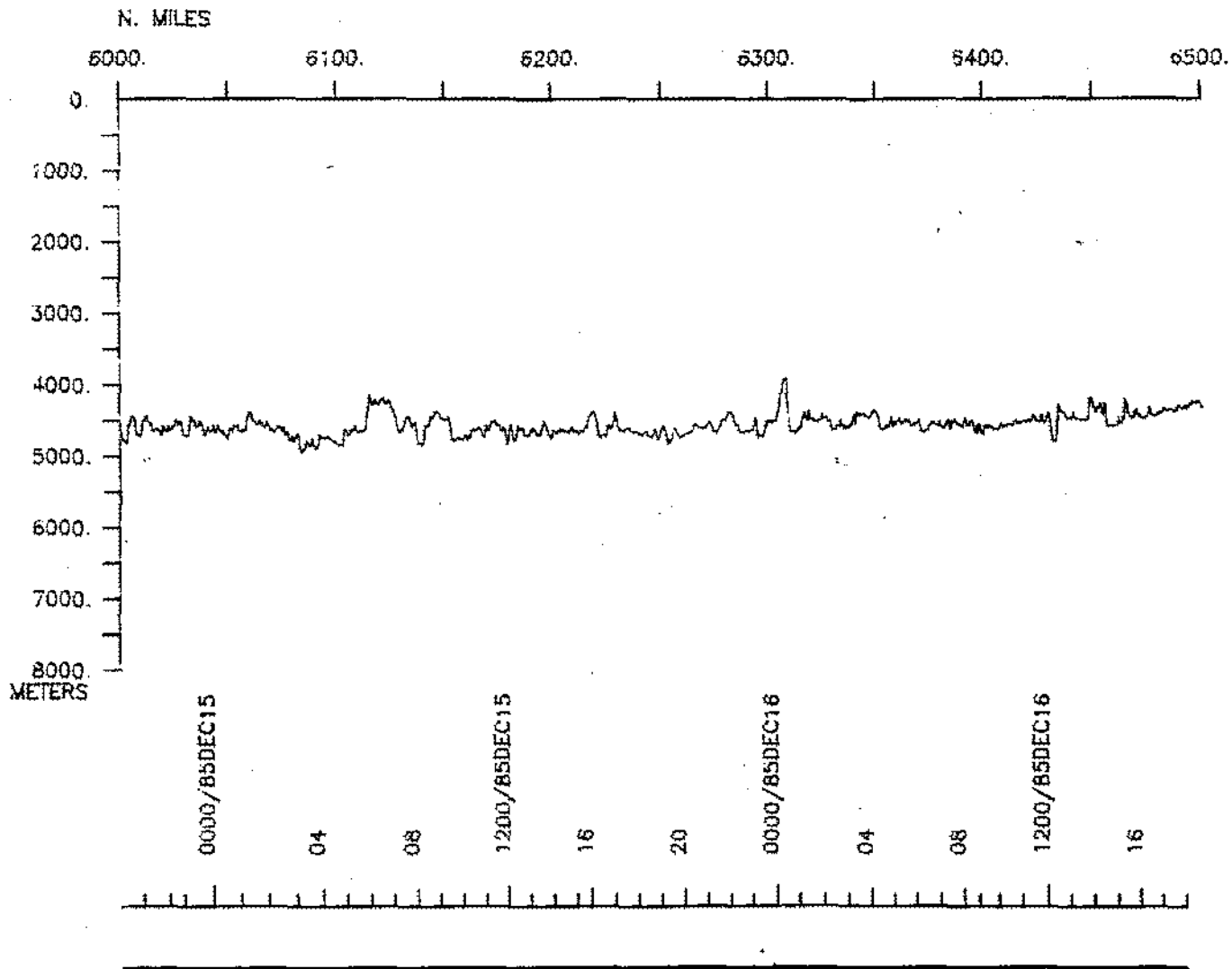
THESE DATA ON PROPRIETARY HOLD BY JACQUELINE MAMMERICKX.  
FOR ACCESS CONTACT JACQUELINE MAMMERICKX.



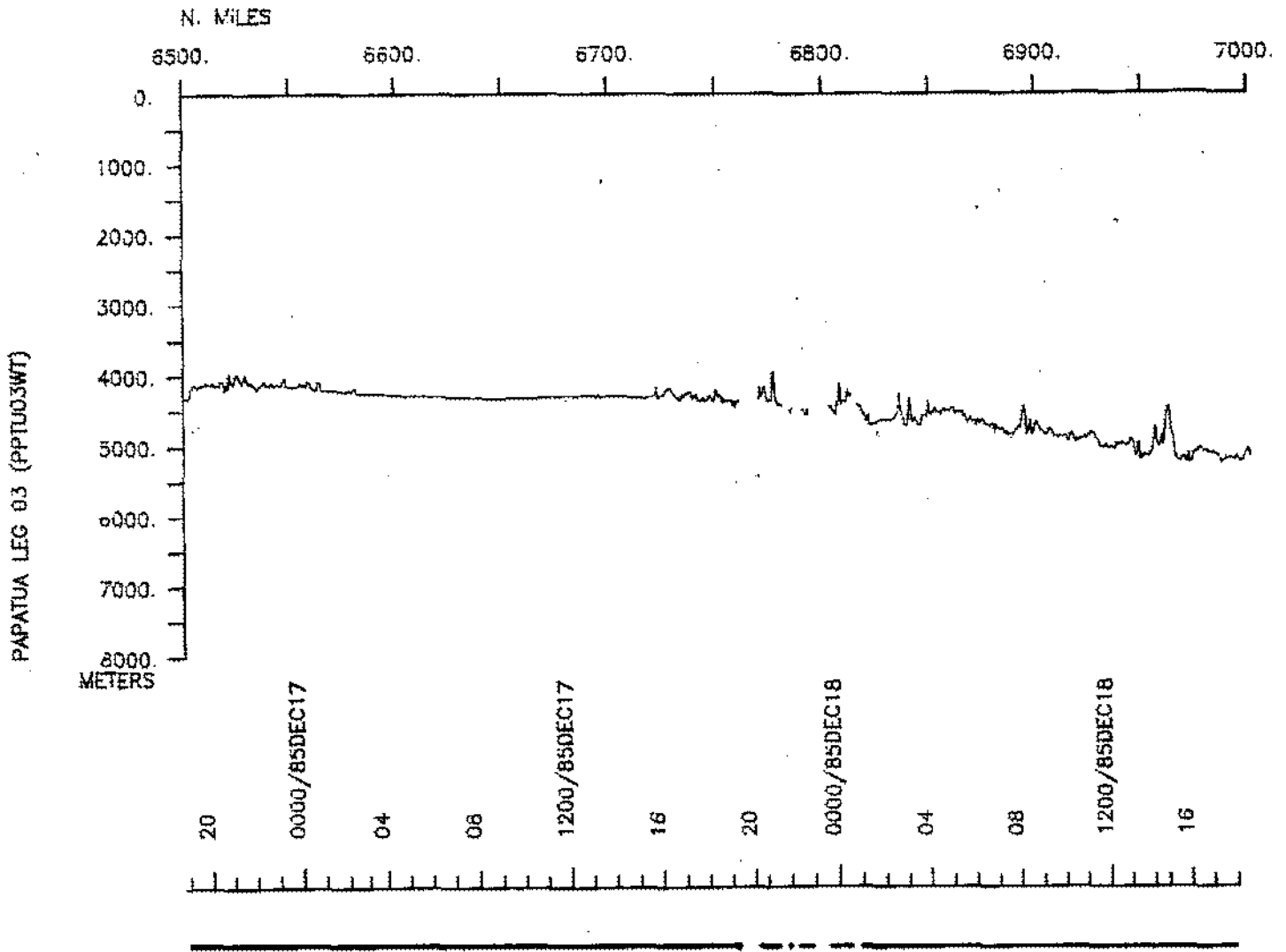
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GAMMAS



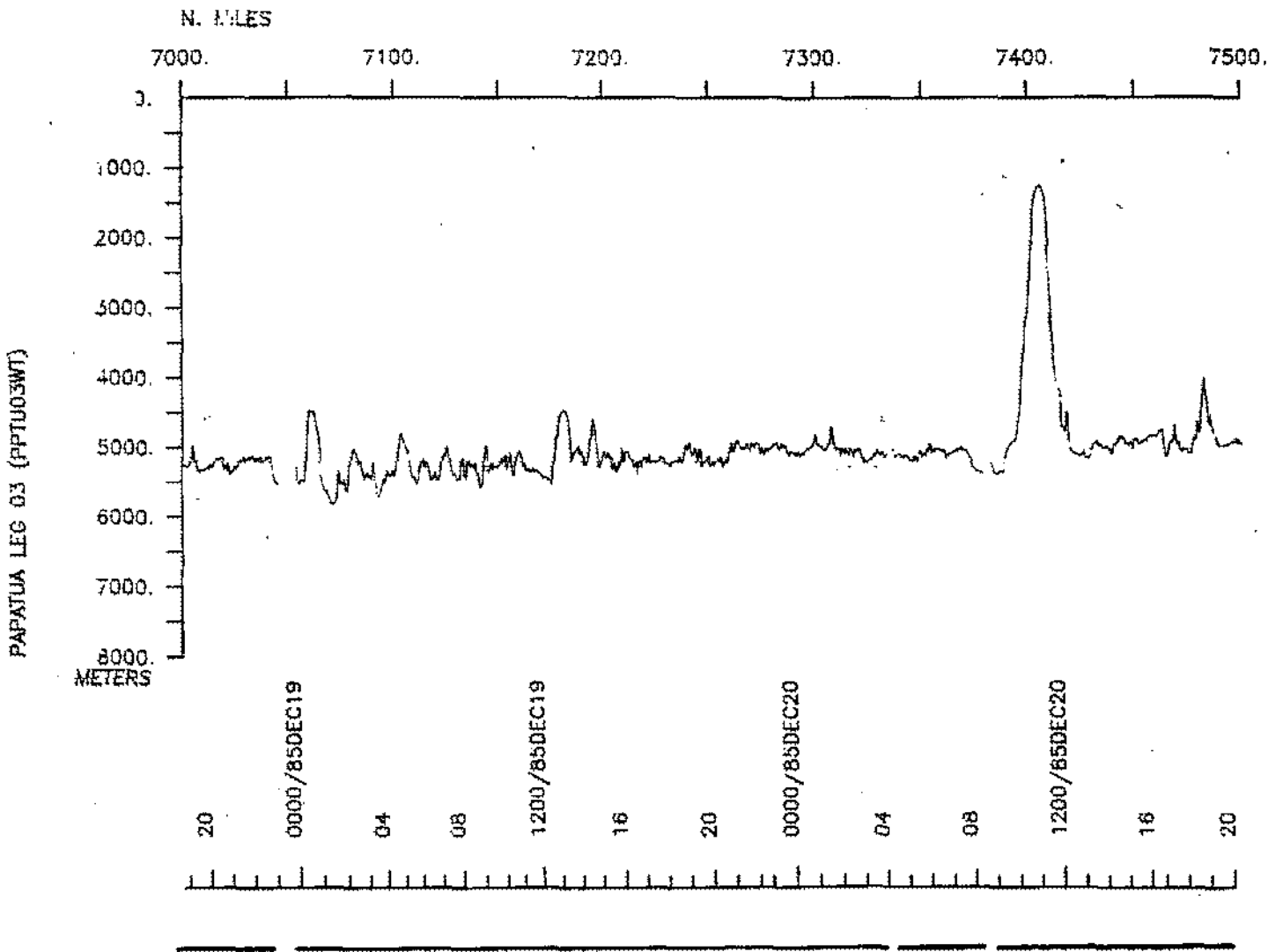
PAPATUA LEG 03 (PPTU03WT)



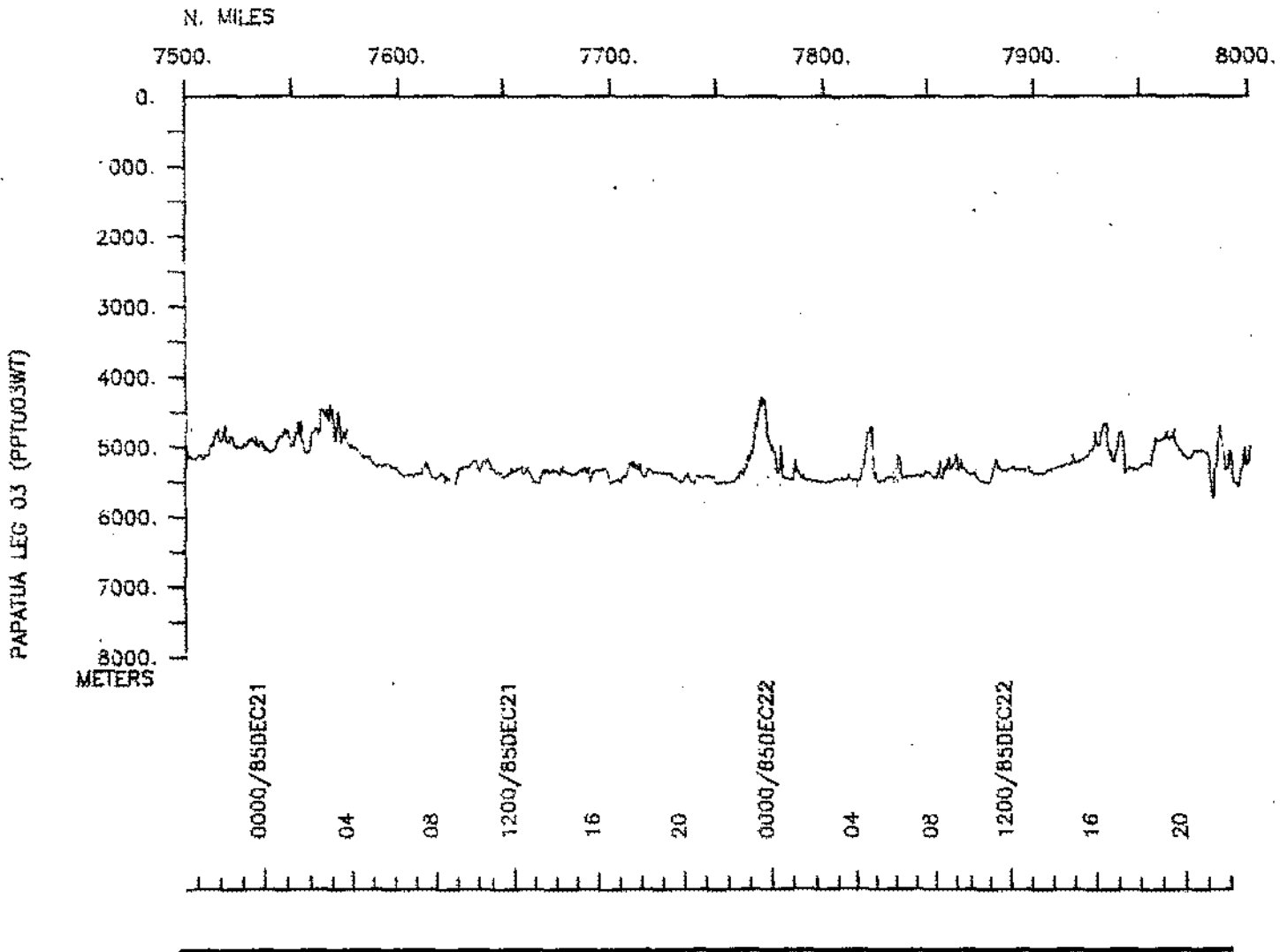
1500.  
GAMMAS



-1000.  
GAMMAS

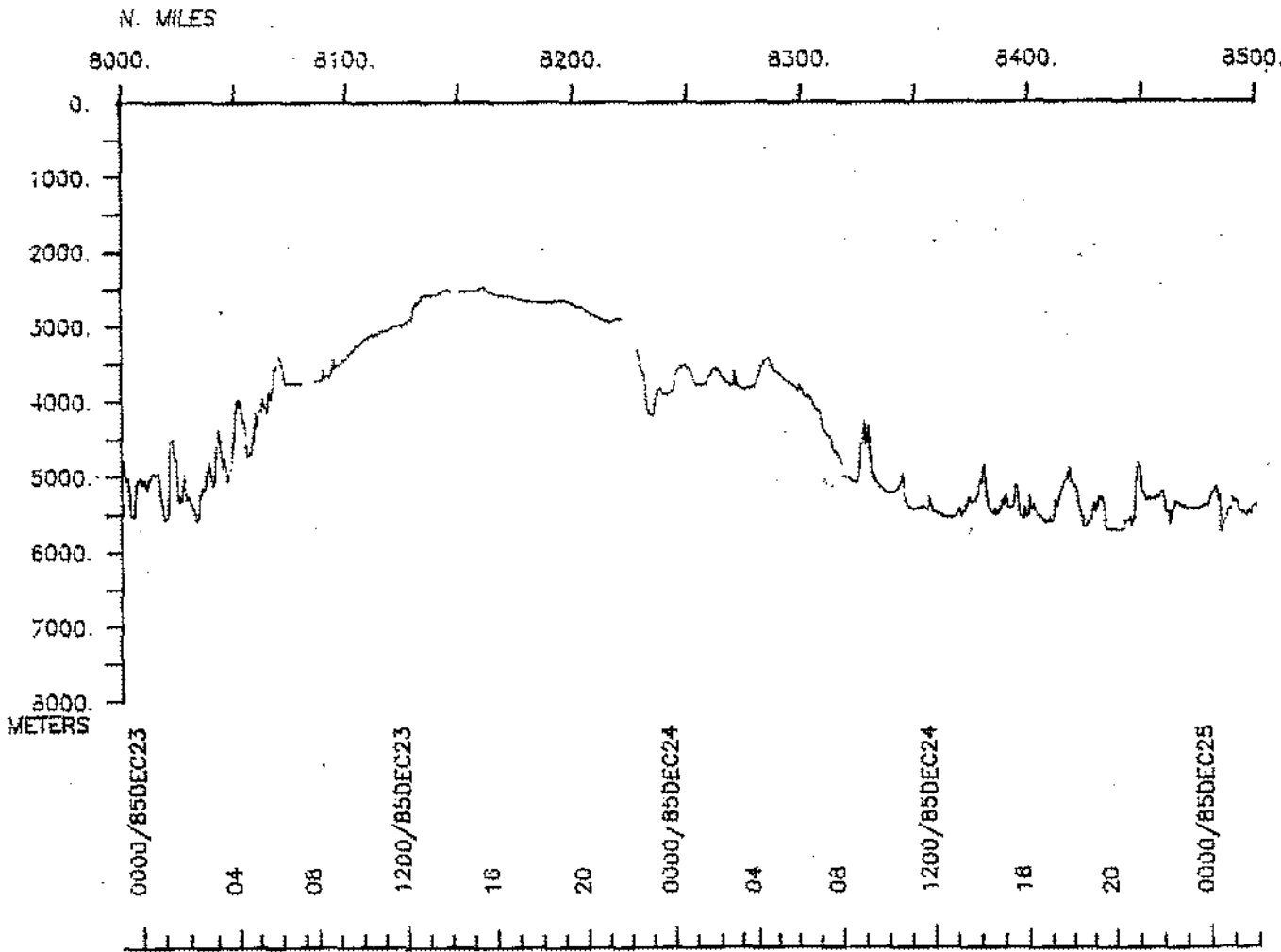


JAMMAS

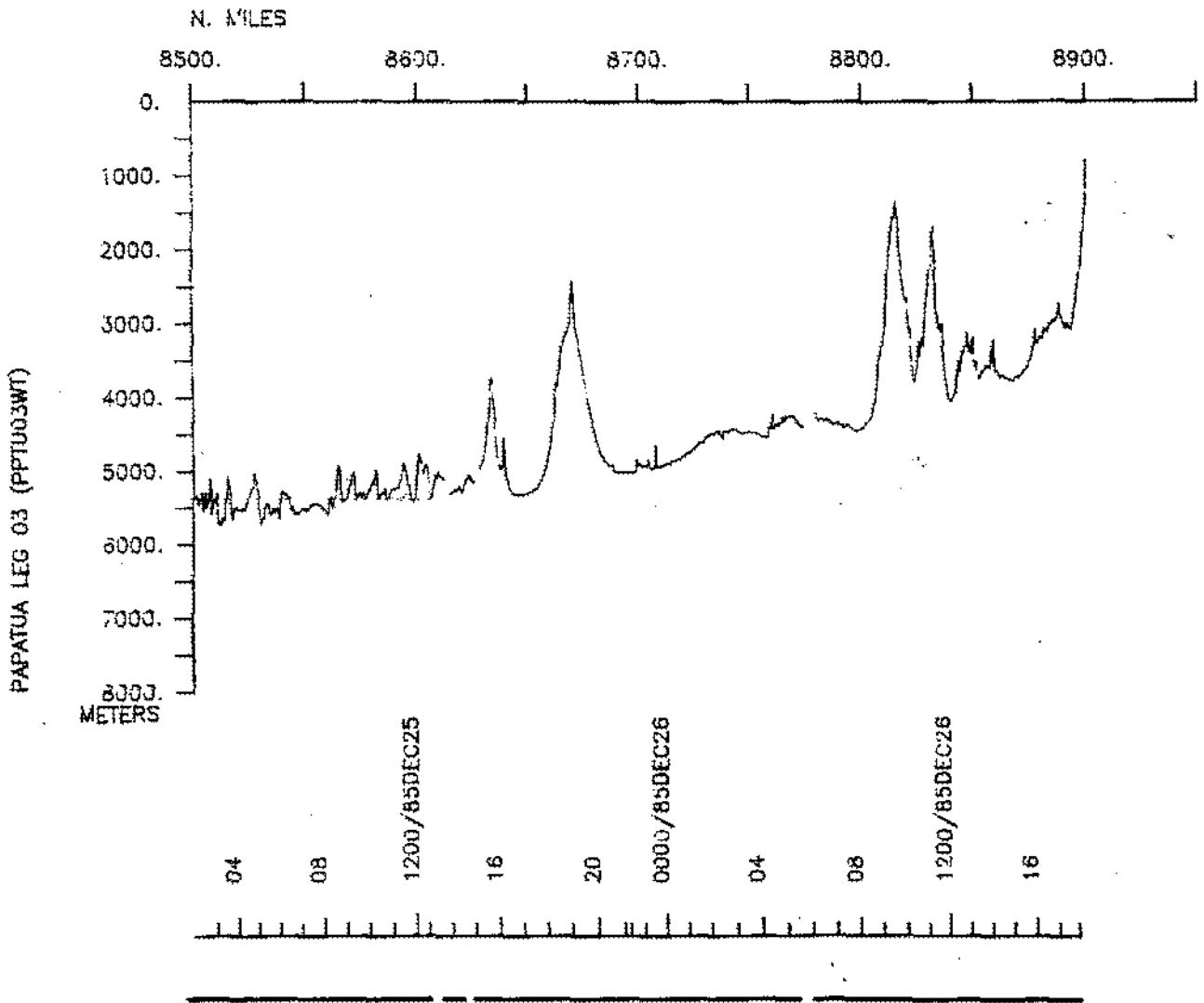




PAPATUA LEG 03 (PPTU03MT)



GAMMAS



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

2155 211185	LGPT B MANZANILLO, MEXICO	19-03 N 104-20 W	EPPTU03WT
1930 261285	LGPT E PAGO PAGO, SAMOA	14-17 S 170-40 W	EPPTU03WT

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

#	***NAME***	***TITLE***	***AFFILIATION***	**CRID**
PECS GRD	MAMMERICKX, J.	CHIEF SCIENTIST	SCRIPPS INSTITUTE	PPTU03WT
PEBO MTG	ALBRIGHT, U.	SEABEAM OPERATOR	SCRIPPS INSTITUTE	PPTU03WT
PECT MTG	CHARTERS, J.	COMPUTER TECH	SCRIPPS INSTITUTE	PPTU03WT
PESP MPL	DE MOUSTIER, C.	POST GRAD. RES.	SCRIPPS INSTITUTE	PPTU03WT
PEST GRD	GUTHRIE, L.	STUDENT GRADUATE	SCRIPPS INSTITUTE	PPTU03WT
PERT MTG	HARGREAVES, G.	RES. TECH	SCRIPPS INSTITUTE	PPTU03WT
PESP GRD	NAAR DAN	LAB ASSISTANT	SCRIPPS INSTITUTE	PPTU03WT
PEST GRD	NAAR DAVID	GRAD. STUDENT	SCRIPPS INSTITUTE	PPTU03WT
PEBE MTG	PHILLIPS, J.	SEA BEAM TECH	SCRIPPS INSTITUTE	PPTU03WT
PESP SIX	RICHMOND, R.	ASST. PROFESSOR	UNIV. OF GUAM	PPTU03WT

\*\*\*\*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	DDMMYY	LOC	T	SAMP	SAMPLE	DISP	CRUISE
#	TIME	DATE	TIME	Z	CODE	IDENTIFIER	CODE	LEG-SHIP
#	-----							

\*\*\*UNDERWAY DATA CURATOR - S. M. SMITH EXT.2752

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

2155 211185	LBUW B UNDERWAY WATCH LOG	GDC 19-036N 104-186W	sPPTU03WT
1932 261285	LBUW E UNDERWAY WATCH LOG	GDC 14-186S 170-406W	sPPTU03WT

\*\*\*MAGNETICS\*\*\*

2240 211185	MGRA B MAGNETICS R-01	GDC 19-004N 104-237W	sPPTU03WT
1700 291185	MGRA E MAGNETICS R-01	GDC 16-279N 109-032W	sPPTU03WT
1710 291185	MGRA B MAGNETICS R-02	GDC 16-285N 109-052W	sPPTU03WT
0637 161285	MGRA E MAGNETICS R-02	GDC 5-272S 136-388W	sPPTU03WT
0646 161285	MGRA B MAGNETICS R-03	GDC 5-276S 136-405W	sPPTU03WT
1732 261285	MGRA E MAGNETICS R-03	GDC 14-268S 170-382W	sPPTU03WT

#GMT	DDMMYY	LOC	T	SAMP	SAMPLE	DISP			CRUISE
#TIME	DATE	TIME	Z	CODE	IDENTIFIER	CODE	LAT.	LONG.	LEG-SHIP

\*\*\*THERMOGRAPHS\*\*\*

0932	171185			TGRC B	THERMOGRAPHS 1-27	GDC	19-034N	104-187W	sPPTU03WT
2159	261285			TGRC E	THERMOGRAPHS 1-27	GDC	14-186S	170-406W	sPPTU03WT

\*\*\*SEABEAM MONITOR\*\*\*

2304	211185			MBMR B	SB MONITOR R-01	GDC	18-571N	104-273W	sPPTU03WT
0235	241185			MBMR E	SB MONITOR R-01	GDC	17-156N	106-581W	sPPTU03WT
0303	241185			MBMR B	SB MONITOR R-02	GDC	17-156N	106-520W	sPPTU03WT
2155	271185			MBMR E	SB MONITOR R-02	GDC	15-244N	106-226W	sPPTU03WT
2201	271185			MBMR B	SB MONITOR R-03	GDC	15-244N	106-214W	sPPTU03WT
1331	011285			MBMR E	SB MONITOR R-03	GDC	17-512N	110-545W	sPPTU03WT
1337	011285			MBMR B	SB MONITOR R-04	GDC	17-512N	110-533W	sPPTU03WT
1222	051285			MBMR E	SB MONITOR R-04	GDC	15-005N	111-084W	sPPTU03WT
1238	051285			MBMR B	SB MONITOR R-05	GDC	15-022N	111-112W	sPPTU03WT
0736	091285			MBMR E	SB MONITOR R-05	GDC	7-582N	112-553W	sPPTU03WT
0744	091285			MBMR B	SB MONITOR R-06	GDC	7-571N	112-560W	sPPTU03WT
0431	131285			MBMR E	SB MONITOR R-06	GDC	2-333S	122-508W	sPPTU03WT
0439	131285			MBMR B	SB MONITOR R-07	GDC	2-336S	122-524W	sPPTU03WT
2345	161285			MBMR E	SB MONITOR R-07	GDC	6-111S	139-294W	sPPTU03WT
2352	161285			MBMR B	SB MONITOR R-08	GDC	6-114S	139-307W	sPPTU03WT
2002	201285			MBMR E	SB MONITOR R-08	GDC	8-501S	152-350W	sPPTU03WT
2017	201285			MBMR B	SB MONITOR R-09	GDC	8-509S	152-375W	sPPTU03WT
1845	241285			MBMR E	SB MONITOR R-09	GDC	13-193S	165-148W	sPPTU03WT
1853	241285			MBMR B	SB MONITOR R-10	GDC	13-182S	165-143W	sPPTU03WT
1825	261285			MBMR E	SB MONITOR R-10	GDC	14-205S	170-412W	sPPTU03WT

\*\*\*DEPTH RECORDER\*\*\*

0404	161285			DPR3 B	EPC 3.5Khz R-01	GDC	5-197S	136-126W	sPPTU03WT
2247	191285			DPR3 E	EPC 3.5Khz R-01	GDC	8-039S	149-019W	sPPTU03WT
2301	191285			DPR3 B	EPC 3.5Khz R-02	GDC	8-046S	149-044W	sPPTU03WT
1654	231285			DPR3 E	EPC 3.5Khz R-02	GDC	11-212S	162-268W	sPPTU03WT
1704	231285			DPR3 B	EPC 3.5Khz R-03	GDC	11-217S	162-284W	sPPTU03WT
1826	231285			DPR3 E	EPC 3.5Khz R-03	GDC	11-263S	162-416W	sPPTU03WT

\*\*\*SEABEAM SWATH BOOKS\*\*\*

2304	211185			MBSB B	SB SWATH BOOK 01	GDC	18-571N	104-273W	sPPTU03WT
1533	231185			MBSB E	SB ARCH.SW.BK 01	GDC	18-119N	106-233W	sPPTU03WT
1535	231185			MBSB B	SB SWATH BOOK 02	GDC	18-115N	106-233W	sPPTU03WT
0706	251185			MBSB E	SB ARCH.SW.BK. 02	GDC	16-481N	106-391W	sPPTU03WT
0706	251185			MBSB B	SB SWATH BOOK 03	GDC	16-481N	106-391W	sPPTU03WT
1427	271185			MBSB E	SB ARCH.SW.BK. 03	GDC	15-388N	107-314W	sPPTU03WT
1428	271185			MBSB B	SB SWATH BOOK 04	GDC	15-387N	107-315W	sPPTU03WT
0647	291185			MBSB E	SB ARCH.SW.BK. 04	GDC	16-333N	108-196W	sPPTU03WT
0652	291185			MBSB B	SB SWATH BOOK 05	GDC	16-343N	108-196W	sPPTU03WT
2139	301185			MBSB E	SB ARCH.SW.BK. 05	GDC	17-251N	110-393W	sPPTU03WT

#	GMT #TIME	DDMMYY DATE	LOC TIME	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
2139	301185				MBSB B SB	SWATH BOOK 06	GDC	17-251N	110-393W	sPPTU03WT
1653	021285				MBSB E SB	ARCH.SW.BK. 06	GDC	17-098N	110-570W	sPPTU03WT
1654	021285				MBSB B SB	SWATH BOOK 07	GDC	17-098N	110-572W	sPPTU03WT
0942	041285				MBSB E SB	ARCH.SW.BK. 07	GDC	12-251N	107-218W	sPPTU03WT
0945	041285				MBSB B SB	SWATH BOOK 08	GDC	12-246N	107-216W	sPPTU03WT
2313	051285				MBSB E SB	ARCH.SW.BK. 08	GDC	15-216N	111-056W	sPPTU03WT
2314	051285				MBSB B SB	SWATH BOOK 09	GDC	15-216N	111-054W	sPPTU03WT
1640	071285				MBSB E SB	ARCH.SW.BK. 09	GDC	13-180N	110-581W	sPPTU03WT
1645	071285				MBSB B SB	SWATH BOOK 10	GDC	13-172N	110-582W	sPPTU03WT
1857	091285				MBSB E SB	ARCH.SW.BK. 10	GDC	6-360N	113-557W	sPPTU03WT
1858	091285				MBSB B SB	SWATH BOOK 11	GDC	6-359N	113-558W	sPPTU03WT
2109	111285				MBSB E SB	ARCH.SW.BK. 11	GDC	0-334N	118-144W	sPPTU03WT
2110	111285				MBSB B SB	SWATH BOOK 12	GDC	0-332N	118-145W	sPPTU03WT
1753	111285				MBSB E SB	ARCH.SW.BK. 12	GDC	1-028N	117-520W	sPPTU03WT
1753	131285				MBSB B SB	SWATH BOOK 13	GDC	3-056S	125-237W	sPPTU03WT
1210	151285				MBSB E SB	ARCH.SW.BK. 13	GDC	4-437S	133-302W	sPPTU03WT
1212	151285				MBSB B SB	SWATH BOOK 14	GDC	4-438S	133-306W	sPPTU03WT
0341	171285				MBSB E SB	ARCH.SW.BK. 14	GDC	6-206S	140-065W	sPPTU03WT
0342	171285				MBSB B SB	SWATH BOOK 15	GDC	6-207S	140-067W	sPPTU03WT
0100	191285				MBSB E SB	ARCH.SW.BK. 15	GDC	8-003S	147-484W	sPPTU03WT
0100	191285				MBSB B SB	SWATH BOOK 16	GDC	8-003S	147-484W	sPPTU03WT
2230	201285				MBSB E SB	ARCH.SW.BK. 16	GDC	8-570S	153-002W	sPPTU03WT
2230	201285				MBSB B SB	SWATH BOOK 17	GDC	8-570S	153-002W	sPPTU03WT
2029	221285				MBSB E SB	ARCH.SW.BK. 17	GDC	10-275S	159-462W	sPPTU03WT
2030	221285				MBSB B SB	SWATH BOOK 18	GDC	10-276S	159-463W	sPPTU03WT
1808	241285				MBSB E SB	ARCH.SW.BK. 18	GDC	13-244S	165-171W	sPPTU03WT
1810	241285				MBSB B SB	SWATH BOOK 19	GDC	13-242S	165-170W	sPPTU03WT
1215	261285				MBSB E SB	ARCH.SW.BK. 19	GDC	14-439S	170-324W	sPPTU03WT
1215	261285				MBSB B SB	SWATH BOOK 20	GDC	14-439S	170-324W	sPPTU03WT
1825	261285				MBSB E SB	ARCH.SW.BK. 20	GDC	14-205S	170-412W	sPPTU03WT

\*\*\*\*SEABEAM SURVEYS\*\*\*\*

0300	221185				MBSV B SB	SURVEY EPR	GDC	18-275N	105-019W	sPPTU03WT
0600	231185				MBSV E SB	SURVEY EPR	GDC	18-218N	106-338W	sPPTU03WT
0600	231185				MBSV B SB	SUR.MOCTEZUMA TR	GDC	18-218N	106-338W	sPPTU03WT
1700	291185				MBSV E SB	SUR.MOCTEZUMA TR	GDC	16-279N	109-032W	sPPTU03WT
0900	301185				MBSV B SB	SUR.MATHEMA.RDG.	GDC	16-597N	110-276W	sPPTU03WT
1100	031285				MBSV E SB	SUR.MATHEMA.RDG.	GDC	15-369N	110-056W	sPPTU03WT
0600	051285				MBSV B SB	SUR.MATHEMA.RDG.	GDC	14-175N	110-039W	sPPTU03WT
1200	071285				MBSV E SB	SUR.MATHEMA.RDG.	GDC	14-061N	110-514W	sPPTU03WT

#GMT	DDMMYY	LOC T	SAMP	SAMPLE	DISP		CRUISE	
#TIME	DATE	TIME Z	CODE	IDENTIFIER	CODE	LAT.	LONG.	LEG-SHIP

## \*\*\*DREDGES\*\*\*

0044	271185		DRRO B	ROCK DREDGE 01	GCR 16-056N	107-162W	sPPTU03WT
0317	271185		DRRO E	ROCK DREDGE 01	GCR 16-074N	107-138W	sPPTU03WT
0756	271185		DRRO B	ROCK DREDGE 02	GCR 16-065N	107-090W	sPPTU03WT
0927	271185		DRRO E	ROCK DREDGE 02	GCR 16-068N	107-081W	sPPTU03WT

## \*\*\*NET TOWS\*\*\*

0112851321+060	ONXX B	75cm OPEN NET P-1	WHO 18-250N	110-454W	sPPTU03WT
0112851348+060	ONXX E	OBLIQUE TOW P-1	WHO 18-252N	110-466W	sPPTU03WT
0712851807+060	ONXX B	75cm OPEN NET P-2	WHO 12-059N	111-095W	sPPTU03WT
0712851827+060	ONXX E	OBLIQUE TOW P-2	WHO 12-068N	111-097W	sPPTU03WT
0812850044+070	ONXX B	75cm OPEN NET P-3	WHO 10-596N	111-188W	sPPTU03WT
0812850104+070	ONXX E	OBLIQUE TOW P-3	WHO 11-001N	111-184W	sPPTU03WT
0812850734+070	ONXX B	75cm OPEN NET P-4	WHO 10-011N	111-301W	sPPTU03WT
0812850749+070	ONXX E	OBLIQUE TOW P-4	WHO 10-014N	111-302W	sPPTU03WT
0812851549+070	ONXX B	75cm OPEN NET P-5	WHO 8-598N	112-128W	sPPTU03WT
0812851550+070	ONXX E	OBLIQUE TOW P-5	WHO 8-597N	112-128W	sPPTU03WT
0812851935+070	ONXX B	75cm OPEN NET P-6	WHO 8-312N	112-335W	sPPTU03WT
0812851944+070	ONXX E	OBLIQUE TOW P-6	WHO 8-311N	112-338W	sPPTU03WT
0912850003+070	ONXX B	75cm OPEN NET P-7	WHO 7-587N	112-553W	sPPTU03WT
0912850023+070	ONXX E	OBLIQUE TOW P-7	WHO 7-588N	112-553W	sPPTU03WT
0912850825+070	ONXX B	75cm OPEN NET P-8	WHO 6-598N	113-376W	sPPTU03WT
0912850846+070	ONXX E	OBLIQUE TOW P-8	WHO 6-590N	113-371W	sPPTU03WT
0912851249+070	ONXX B	75cm OPEN NET P-9	WHO 6-305N	114-005W	sPPTU03WT
0912851309+070	ONXX E	OBLIQUE TOW P-9	WHO 6-301N	114-002W	sPPTU03WT
0912851721+070	ONXX B	75cm OPEN NET P-10	WHO 6-011N	114-222W	sPPTU03WT
0912851741+070	ONXX E	OBLIQUE TOW P-10	WHO 6-007N	114-221W	sPPTU03WT
0912852130+070	ONXX B	75cm OPEN NET P-11	WHO 5-353N	114-416W	sPPTU03WT
0912852150+070	ONXX E	OBLIQUE TOW P-11	WHO 5-352N	114-412W	sPPTU03WT
1012850223+070	ONXX B	75cm OPEN NET P-12	WHO 5-064N	115-010W	sPPTU03WT
1012850243+070	ONXX E	OBLIQUE TOW P-12	WHO 5-041N	115-025W	sPPTU03WT
1012851116+070	ONXX B	75cm OPEN NET P-13	WHO 4-071N	115-426W	sPPTU03WT
1012851136+070	ONXX E	OBLIQUE TOW P-13	WHO 4-045N	115-441W	sPPTU03WT
1012851957+070	ONXX B	75cm OPEN NET P-14	WHO 3-077N	116-265W	sPPTU03WT
1012852017+070	ONXX E	OBLIQUE TOW P-14	WHO 3-051N	116-281W	sPPTU03WT
1112850311+080	ONXX B	75cm OPEN NET P-15	WHO 1-598N	117-109W	sPPTU03WT
1112850331+080	ONXX E	OBLIQUE TOW P-15	WHO 1-595N	117-115W	sPPTU03WT
1112851646+080	ONXX B	75cm OPEN NET P-16	WHO 0-006N	118-355W	sPPTU03WT
1112851705+080	ONXX E	OBLIQUE TOW P-16	WHO 0-011N	118-355W	sPPTU03WT
1212850558+080	ONXX B	75cm OPEN NET P-17	WHO 2-004S	120-010W	sPPTU03WT
1212850617+080	ONXX E	OBLIQUE TOW P-17	WHO 1-598S	120-008W	sPPTU03WT
1312850720+080	ONXX B	75cm OPEN NET P-18	WHO 3-005S	124-586W	sPPTU03WT
1312850740+080	ONXX E	OBLIQUE TOW P-18	WHO 3-001S	124-582W	sPPTU03WT

#GMT #TIME #	DDMMYY DATE	LOC TIME	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1312852304+080	ONXX	B	75cm OPEN NET P-19	WHO	3-363S	128-007W	sPPTU03WT		
1312852324+080	ONXX	E	OBLIQUE TOW P-19	WHO	3-364S	128-001W	sPPTU03WT		
1412851425+080	ONXX	B	75cm OPEN NET P-20	WHO	4-123S	130-594W	sPPTU03WT		
1412851445+080	ONXX	E	OBLIQUE TOW P-20	WHO	4-124S	130-592W	sPPTU03WT		
1512850606+090	ONXX	B	75cm OPEN NET P-21	WHO	4-482S	134-001W	sPPTU03WT		
1512850626+090	ONXX	E	OBLIQUE TOW P-21	WHO	4-477S	134-001W	sPPTU03WT		
1512852343+090	ONXX	B	75cm OPEN NET P-22	WHO	5-327S	136-597W	sPPTU03WT		
1612850003+090	ONXX	E	OBLIQUE TOW P-22	WHO	5-326S	136-592W	sPPTU03WT		
1612851749+090	ONXX	B	75cm OPEN NET P-23	WHO	6-198S	140-019W	sPPTU03WT		
1612851809+090	ONXX	E	OBLIQUE TOW P-23	WHO	6-194S	140-018W	sPPTU03WT		
1712851125+090	ONXX	B	75cm OPEN NET P-24	WHO	7-066S	143-001W	sPPTU03WT		
1712851145+090	ONXX	E	OBLIQUE TOW P-24	WHO	7-063S	142-597W	sPPTU03WT		
1812850412+100	ONXX	B	75cm OPEN NET P-25	WHO	7-555S	145-589W	sPPTU03WT		
1812850432+100	ONXX	E	OBLIQUE TOW P-25	WHO	7-548S	145-583W	sPPTU03WT		
1912851208+100	ONXX	B	75cm OPEN NET P-26	WHO	8-036S	149-001W	sPPTU03WT		
1912851228+100	ONXX	E	OBLIQUE TOW P-26	WHO	8-034S	148-596W	sPPTU03WT		
2012850609+100	ONXX	B	75cm OPEN NET P-27	WHO	8-427S	152-003W	sPPTU03WT		
2012850629+100	ONXX	E	OBLIQUE TOW P-27	WHO	8-419S	151-599W	sPPTU03WT		
2112850032+100	ONXX	B	75cm OPEN NET P-28	WHO	9-232S	154-599W	sPPTU03WT		
2112850052+100	ONXX	E	OBLIQUE TOW P-28	WHO	9-234S	155-007W	sPPTU03WT		
2112852339+100	ONXX	B	75cm OPEN NET P-29	WHO	10-143S	158-002W	sPPTU03WT		
2112852359+100	ONXX	E	OBLIQUE TOW P-29	WHO	10-135S	158-000W	sPPTU03WT		
2212852026+100	ONXX	B	75cm OPEN NET P-30	WHO	10-514S	160-508W	sPPTU03WT		
2212852046+100	ONXX	E	OBLIQUE TOW P-30	WHO	10-524S	160-540W	sPPTU03WT		
2312851554+100	ONXX	B	75cm OPEN NET P-31	WHO	11-483S	163-519W	sPPTU03WT		
2312851614+100	ONXX	E	OBLIQUE TOW P-31	WHO	11-494S	163-553W	sPPTU03WT		
2512850116+100	ONXX	B	75cm OPEN NET P-32	WHO	14-508S	166-512W	sPPTU03WT		
2512850136+100	ONXX	E	OBLIQUE TOW P-32	WHO	14-502S	166-547W	sPPTU03WT		
2512851006+100	ONXX	B	75cm OPEN NET P-33	WHO	14-375S	168-233W	sPPTU03WT		
2512851026+100	ONXX	E	OBLIQUE TOW P-33	WHO	14-380S	168-274W	sPPTU03WT		

\*\*\*PLANKTON TOWS\*\*\*

2211851500+060	PHXX	B	HIGH SPEED A-1	WHO	18-228N	105-582W	sPPTU03WT
2211851700+060	PHXX	E	PLANKTON SAMP A-1	WHO	18-185N	105-341W	sPPTU03WT
2211851715+060	PHXX	B	HIGH SPEED A-2	WHO	18-180N	105-311W	sPPTU03WT
2211851930+060	PHXX	E	PLANKTON SAMP A-2	WHO	18-167N	105-383W	sPPTU03WT
2211851945+060	PHXX	B	HIGH SPEED A-3	WHO	18-171N	105-414W	sPPTU03WT
2311850715+060	PHXX	E	PLANKTON SAMP A-3	WHO	18-123N	106-497W	sPPTU03WT
2311850715+060	PHXX	B	HIGH SPEED A-4	WHO	18-123N	106-497W	sPPTU03WT
2311851956+060	PHXX	E	PLANKTON SAMP A-4	WHO	17-156N	107-068W	sPPTU03WT
2311852000+060	PHXX	B	HIGH SPEED A-5	WHO	17-157N	107-059W	sPPTU03WT
2411850715+060	PHXX	E	PLANKTON SAMP A-5	WHO	17-089N	106-339W	sPPTU03WT
2411850730+060	PHXX	B	HIGH SPEED A-6	WHO	17-089N	106-307W	sPPTU03WT
2411851749+060	PHXX	E	PLANKTON SAMP A-6	WHO	16-561N	106-536W	sPPTU03WT
2411851800+060	PHXX	B	HIGH SPEED A-7	WHO	16-561N	106-560W	sPPTU03WT
2511850715+060	PHXX	E	PLANKTON SAMP A-7	WHO	16-376N	107-401W	sPPTU03WT
2511850730+060	PHXX	B	HIGH SPEED A-8	WHO	16-377N	107-431W	sPPTU03WT
2511851750+060	PHXX	E	PLANKTON SAMP A-8	WHO	16-298N	107-016W	sPPTU03WT

#	GMT #TIME	DDMMYY DATE	LOC TIME	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
	2511851800+060				PHXX B	HIGH SPEED A-9	WHO	16-293N	107-031W	sPPTU03WT
	2611850715+060				PHXX E	PLANKTON SAMP A-9	WHO	16-243N	107-338W	sPPTU03WT
	2811851800+060				PHXX B	HIGH SPEED A-10	WHO	16-051N	107-553W	sPPTU03WT
	2911850745+060				PHXX E	PLANKTON SAMP A-10	WHO	16-315N	108-324W	sPPTU03WT
	2911850800+060				PHXX B	HIGH SPEED A-11	WHO	16-286N	108-332W	sPPTU03WT
	2911851800+060				PHXX E	PLANKTON SAMP A-11	WHO	17-065N	110-062W	sPPTU03WT
	2911851815+060				PHXX B	HIGH SPEED A-12	WHO	17-094N	110-064W	sPPTU03WT
	3011850800+060				PHXX E	PLANKTON SAMP A-12	WHO	17-333N	111-178W	sPPTU03WT
	3011850815+060				PHXX B	HIGH SPEED A-13	WHO	17-347N	111-205W	sPPTU03WT
	3011851745+060				PHXX E	PLANKTON SAMP A-13	WHO	17-294N	110-580W	sPPTU03WT
	3011851800+060				PHXX B	HIGH SPEED A-14	WHO	17-293N	111-011W	sPPTU03WT
	0112850800+060				PHXX E	PLANKTON SAMP A-14	WHO	17-531N	110-531W	sPPTU03WT
	0112850815+060				PHXX B	HIGH SPEED A-15	WHO	17-551N	110-553W	sPPTU03WT
	0212850800+060				PHXX E	PLANKTON SAMP A-15	WHO	17-171N	111-144W	sPPTU03WT
	0212850815+060				PHXX B	HIGH SPEED A-16	WHO	17-157N	111-145W	sPPTU03WT
	0212851745+060				PHXX E	PLANKTON SAMP A-16	WHO	16-483N	111-585W	sPPTU03WT
	0312850800+060				PHXX B	HIGH SPEED A-17	WHO	15-166N	109-370W	sPPTU03WT
	0312851730+060				PHXX E	PLANKTON SAMP A-17	WHO	14-026N	108-167W	sPPTU03WT
	0312851745+060				PHXX B	HIGH SPEED A-18	WHO	14-002N	108-154W	sPPTU03WT
	0412850830+060				PHXX E	PLANKTON SAMP A-18	WHO	12-534N	108-075W	sPPTU03WT
	0412850845+060				PHXX B	HIGH SPEED A-19	WHO	12-553N	108-102W	sPPTU03WT
	0412851730+060				PHXX E	PLANKTON SAMP A-19	WHO	13-370N	109-025W	sPPTU03WT
	0412851745+060				PHXX B	HIGH SPEED A-20	WHO	13-388N	109-053W	sPPTU03WT
	0512850800+060				PHXX E	PLANKTON SAMP A-20	WHO	15-110N	111-257W	sPPTU03WT
	0512850815+060				PHXX B	HIGH SPEED A-21	WHO	15-127N	111-283W	sPPTU03WT
	0512851730+060				PHXX E	PLANKTON SAMP A-21	WHO	15-216N	111-022W	sPPTU03WT
	0512851745+060				PHXX B	HIGH SPEED A-22	WHO	15-215N	110-593W	sPPTU03WT
	0612850800+060				PHXX E	PLANKTON SAMP A-22	WHO	15-464N	111-246W	sPPTU03WT
	0612850815+060				PHXX B	HIGH SPEED A-23	WHO	15-476N	111-219W	sPPTU03WT
	0612851730+060				PHXX E	PLANKTON SAMP A-23	WHO	15-477N	111-300W	sPPTU03WT
	0612851745+060				PHXX B	HIGH SPEED A-24	WHO	15-447N	111-300W	sPPTU03WT
	0712850800+060				PHXX E	PLANKTON SAMP A-24	WHO	13-456N	110-547W	sPPTU03WT
	1112851730+080				PHXX B	HIGH SPEED A-25	WHO	0-021S	118-376W	sPPTU03WT
	1212851250+080				PHXX E	PLANKTON SAMP A-25	WHO	2-159S	121-188W	sPPTU03WT
	2611851630+060				PHXX B	SURFACE TOW 75cm 01	WHO	16-039N	107-162W	sPPTU03WT
	2611851650+060				PHXX E	PLANKTON SAMPLES 01	WHO	16-040N	107-162W	sPPTU03WT
	2611851730+060				PHXX B	SURFACE TOW 75cm 02	WHO	16-045N	107-162W	sPPTU03WT
	2611851750+060				PHXX E	PLANKTON SAMPLES 02	WHO	16-050N	107-161W	sPPTU03WT
	2611852000+060				PHXX B	SURFACE TOW 75cm 03	WHO	16-067N	107-162W	sPPTU03WT
	2611852030+060				PHXX E	PLANKTON SAMPLES 03	WHO	16-070N	107-153W	sPPTU03WT
	2611852138+060				PHXX B	SURFACE TOW 75cm 04	WHO	16-077N	107-131W	sPPTU03WT
	2611852200+060				PHXX E	PLANKTON SAMPLES 04	WHO	16-080N	107-132W	sPPTU03WT

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END SAMPLE INDEX