INFORMAL REPORT AND INDEX OF

NAVIGATION, DEPTH, MAGNETIC AND SUBBOTTOM PROFILER DATA

(Issued March 1988)

TORTUGA EXPEDITION

LEG 2

Puerto Quetzal, Guatemala (9 November 1987)
to
Academy Bay, Galapagos (1 December 1987)

R/V Washington

Chief Scientist - J. Phipps-Morgan
(Massachusetts Institute of Technology)

Resident Marine Technician - E. Pillard

Post-Cruise Processing and Report Preparation
by Geological Data Center, Scripps Institution of Oceanography

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

GDC Cruise I.D.# 232

INFORMAL REPORT AND INDEX OF NAVIGATION AND UNDERWAY GEOPHYSICAL DATA

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 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.

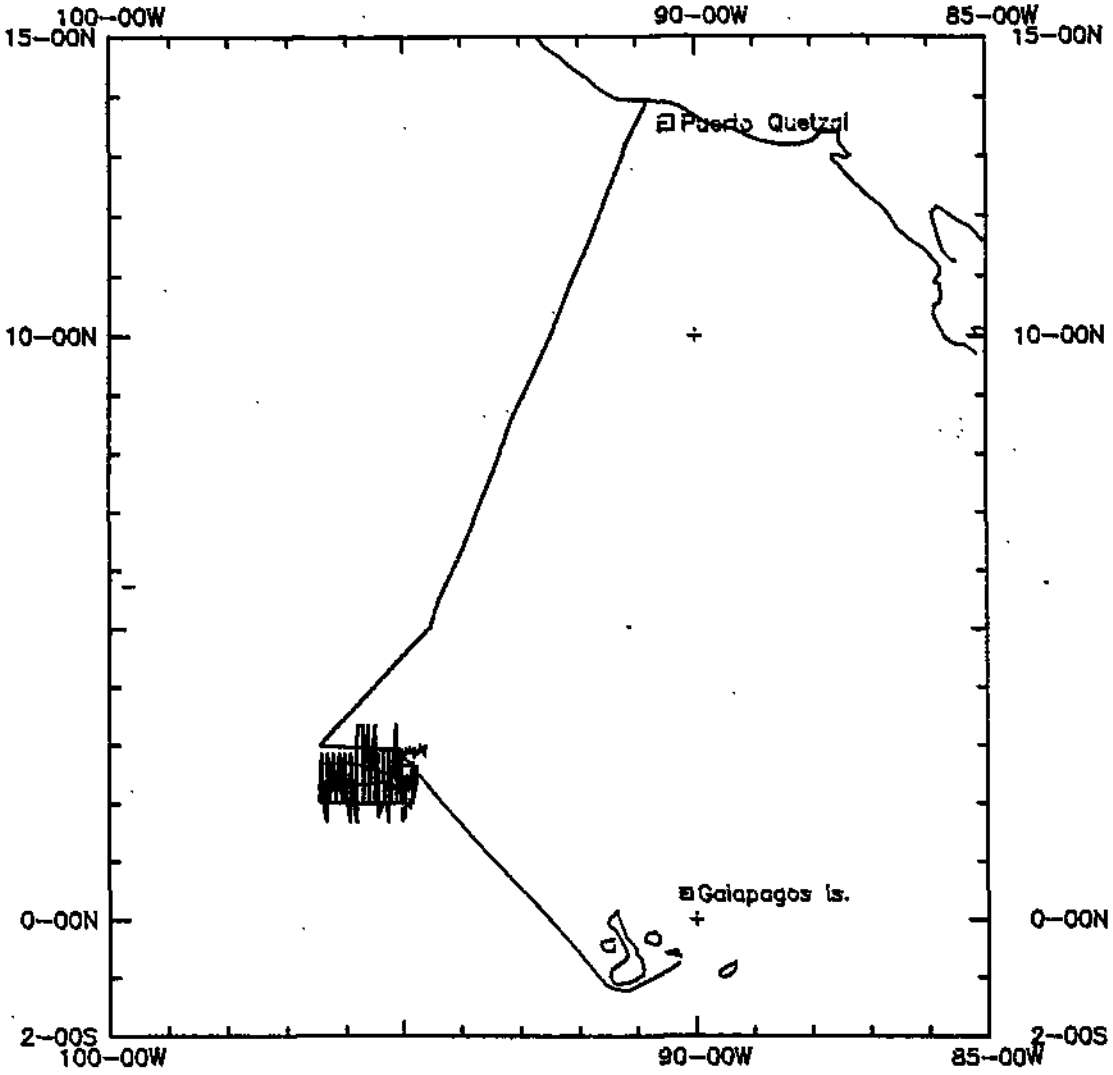
Sample Index - list of beginning and end times and positions of all underway records as well as all other samples and measurements (geology, biology, physical oceanography, etc.) collected on the cruise leg.

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. Phone (619)534-2752.

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&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. Gravity records
   e. Underway data log book

Revised September 1987

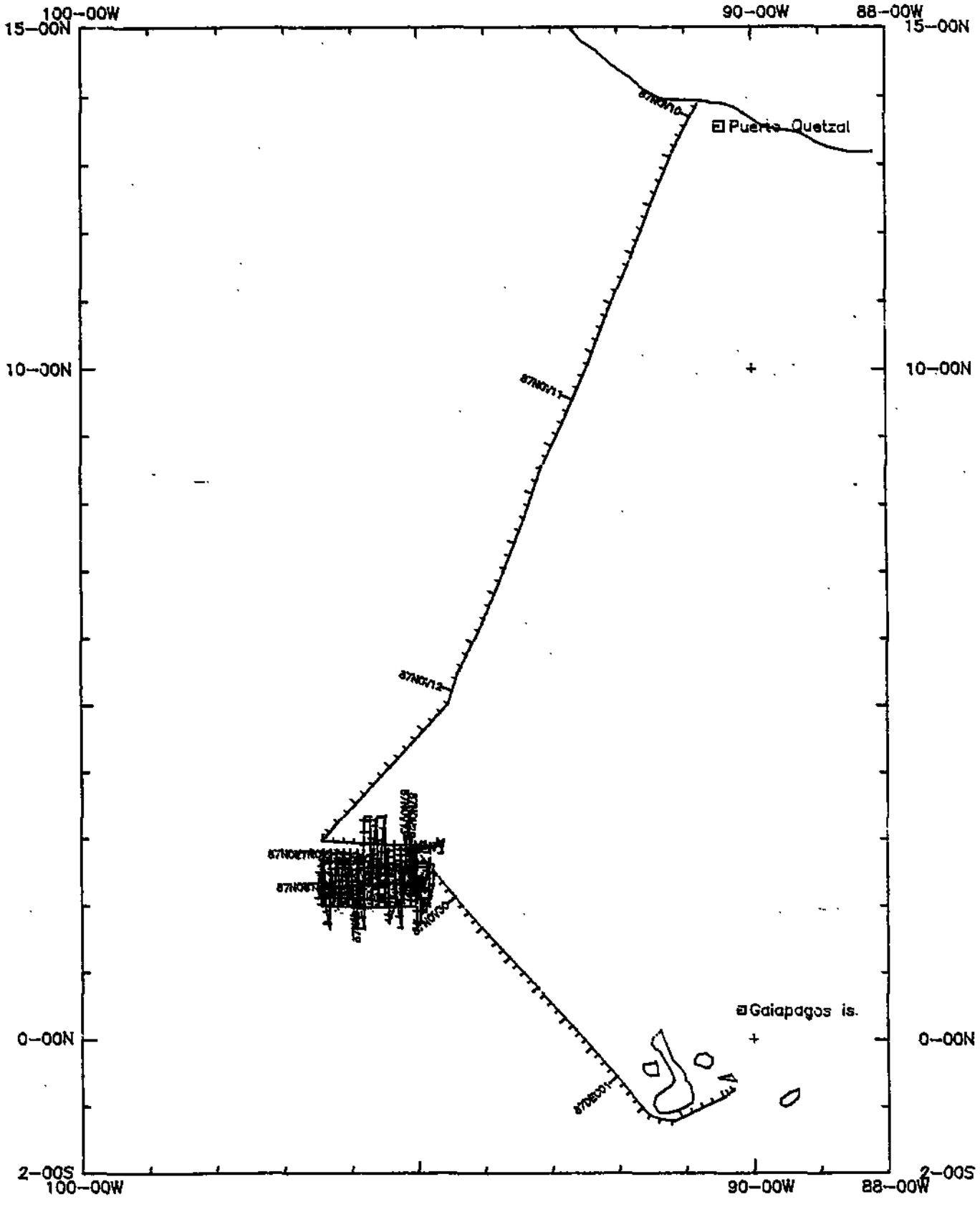


TORTUGA LEG 2 (TUGA02WT)
Track at .312in/deg

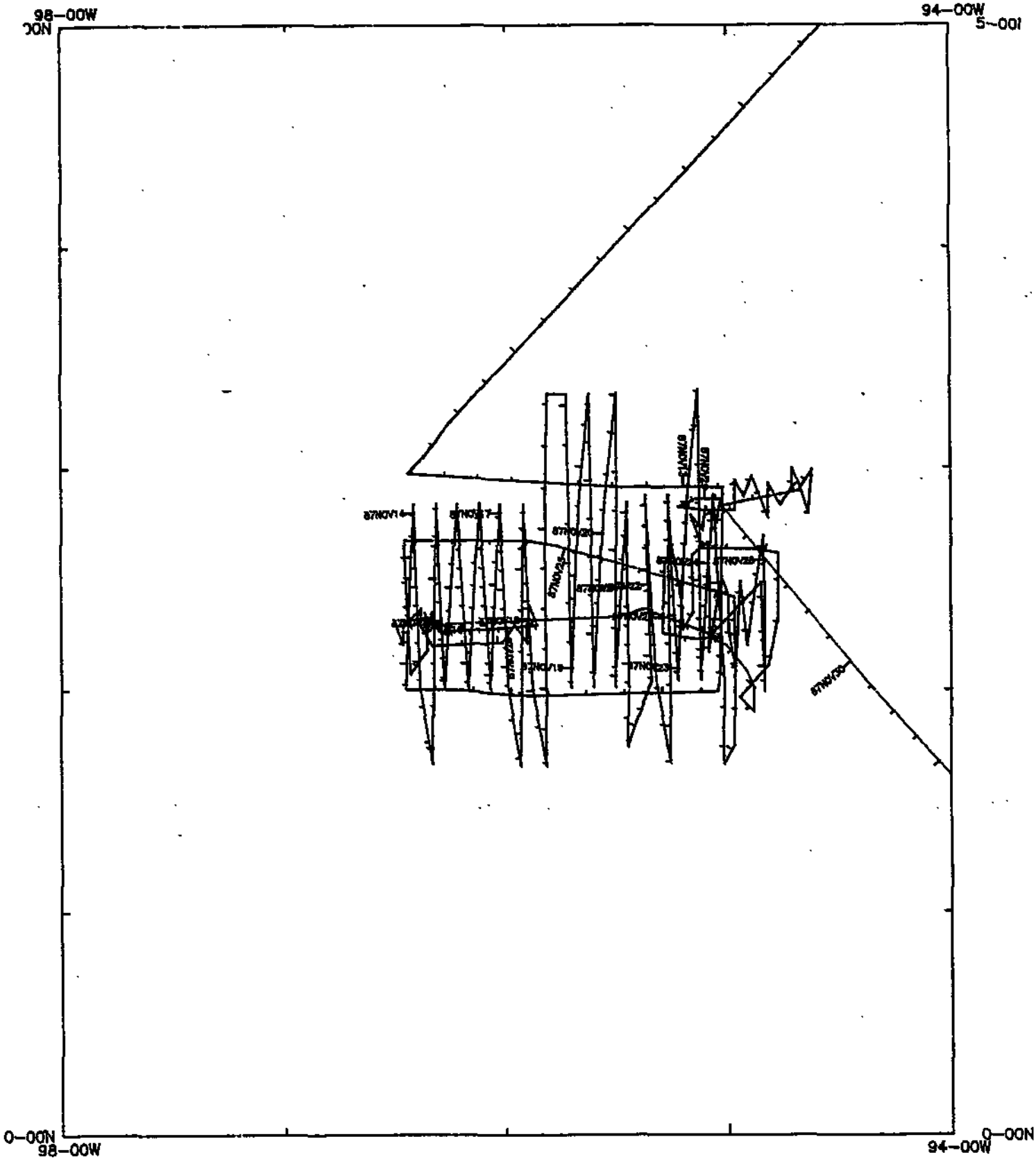
TORTUGA EXPEDITION LEG 2

CHIEF SCIENTIST: J. Phipps-Morgan (MIT)
PORTS: Puerto Quetzal, Guatemala - Academy Bay, Galapagos
DATES: 9 November - 1 December 1987
SHIP: R/V T. Washington

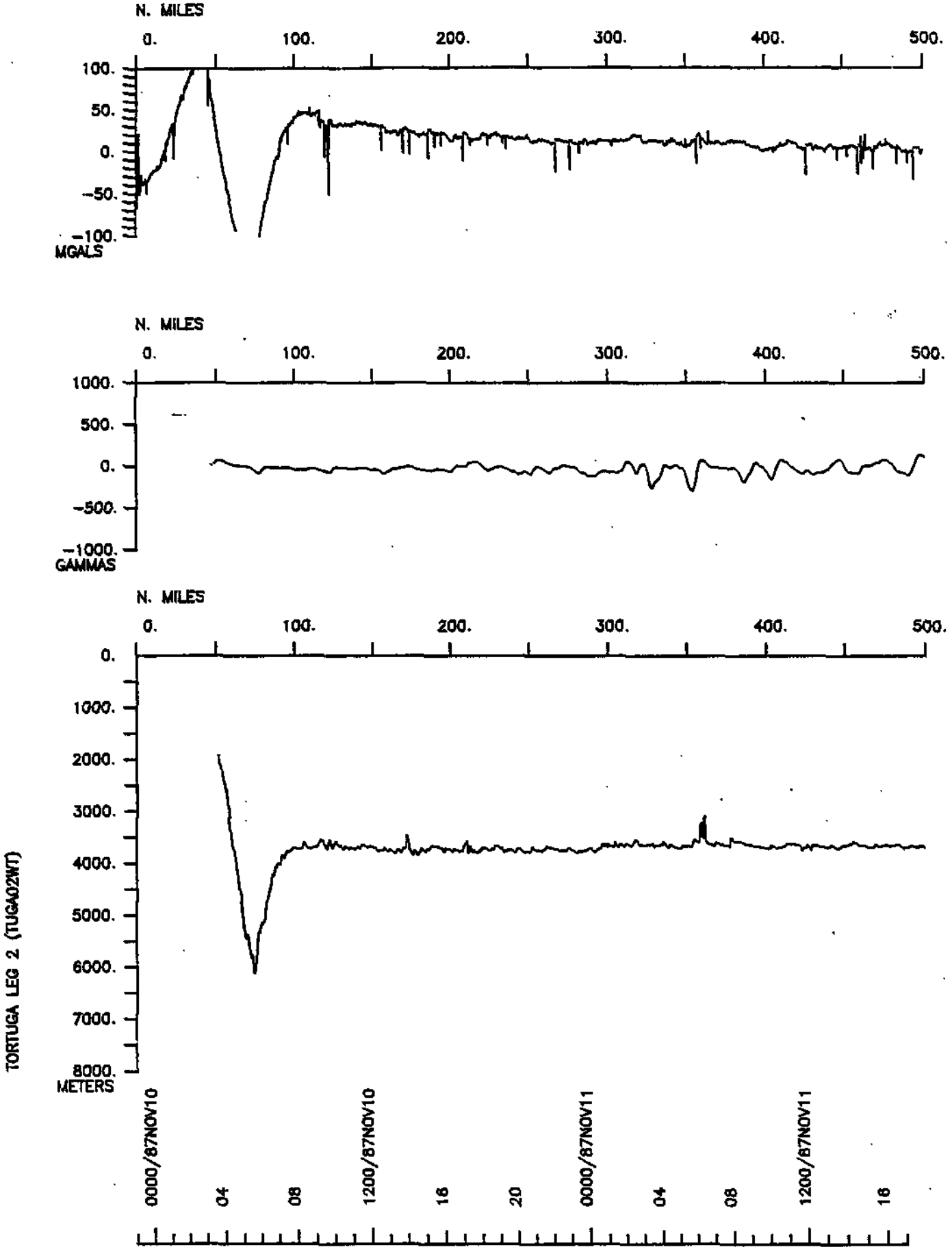
TOTAL MILEAGE OF UNDERWAY DATA COLLECTED
1) Cruise - 5632 miles
2) Bathymetry - 5570 miles
3) Magnetics - 5522 miles
4) Seismic Reflection - none collected
5) Gravity - 5632 miles
6) Sea Beam - 5570 miles



TORTUGA LEG 2 (TUGA02WT)
Track at .312in/deg



TORTUGA LEG 2 (TUGA02WT) **SURVEY AREA**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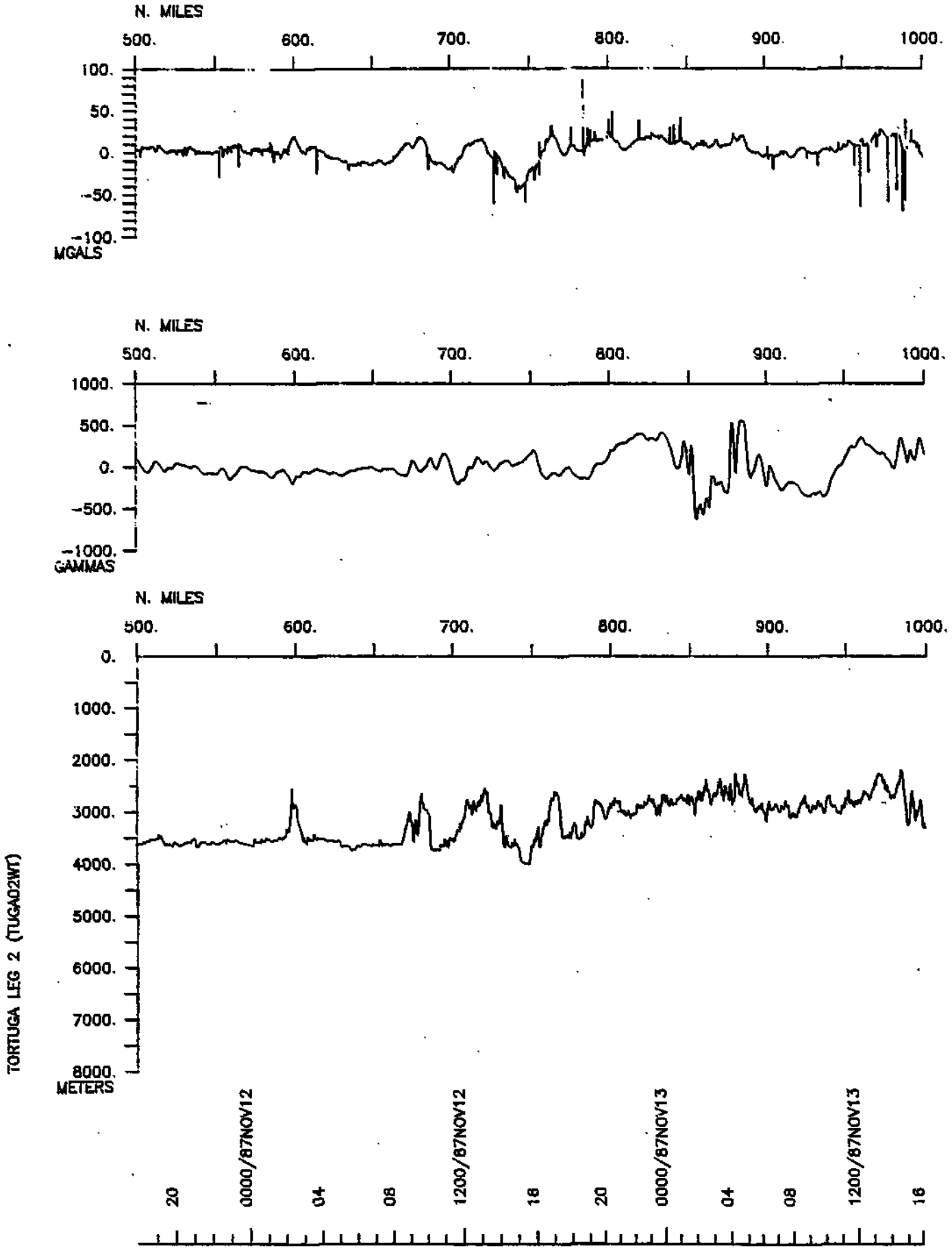
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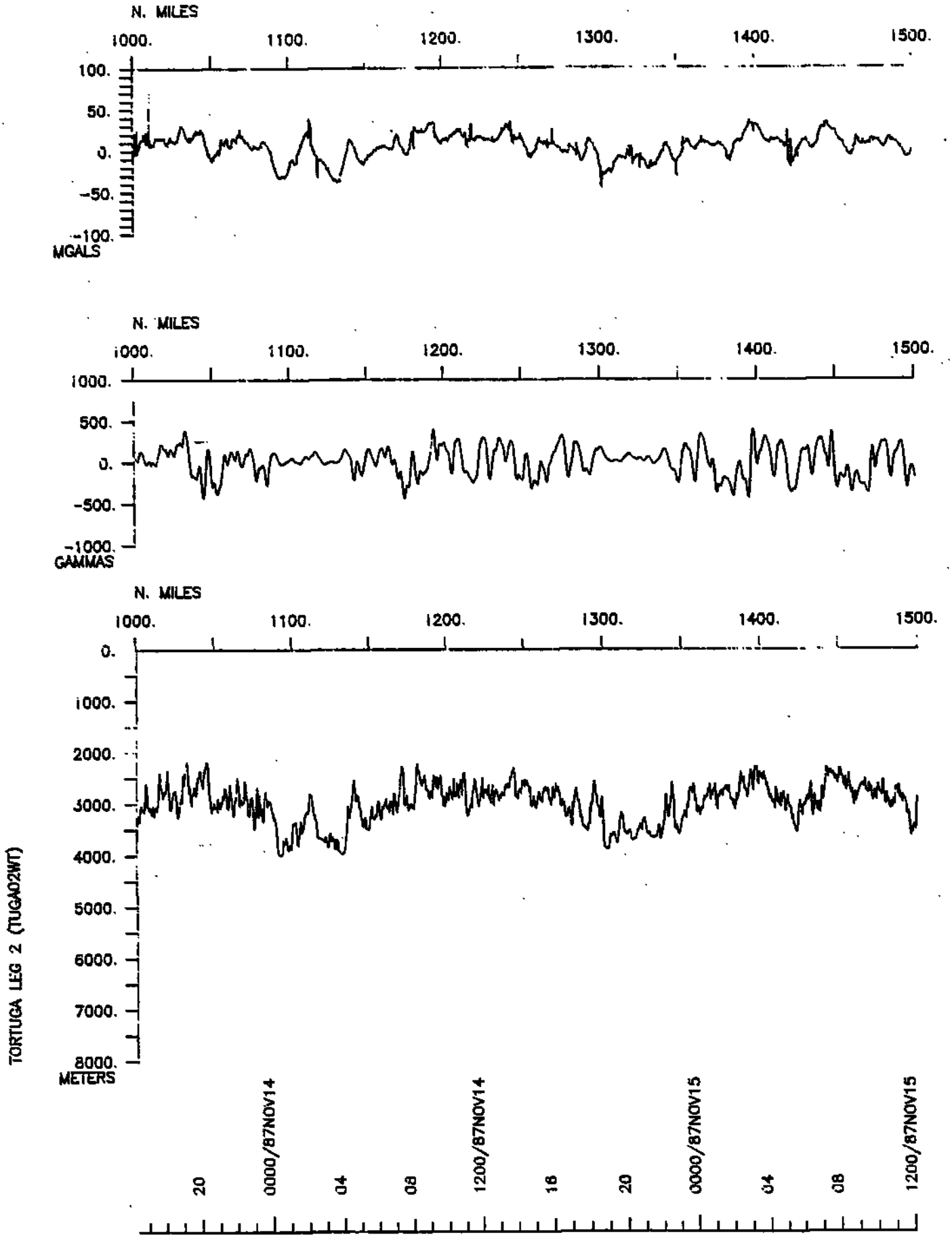
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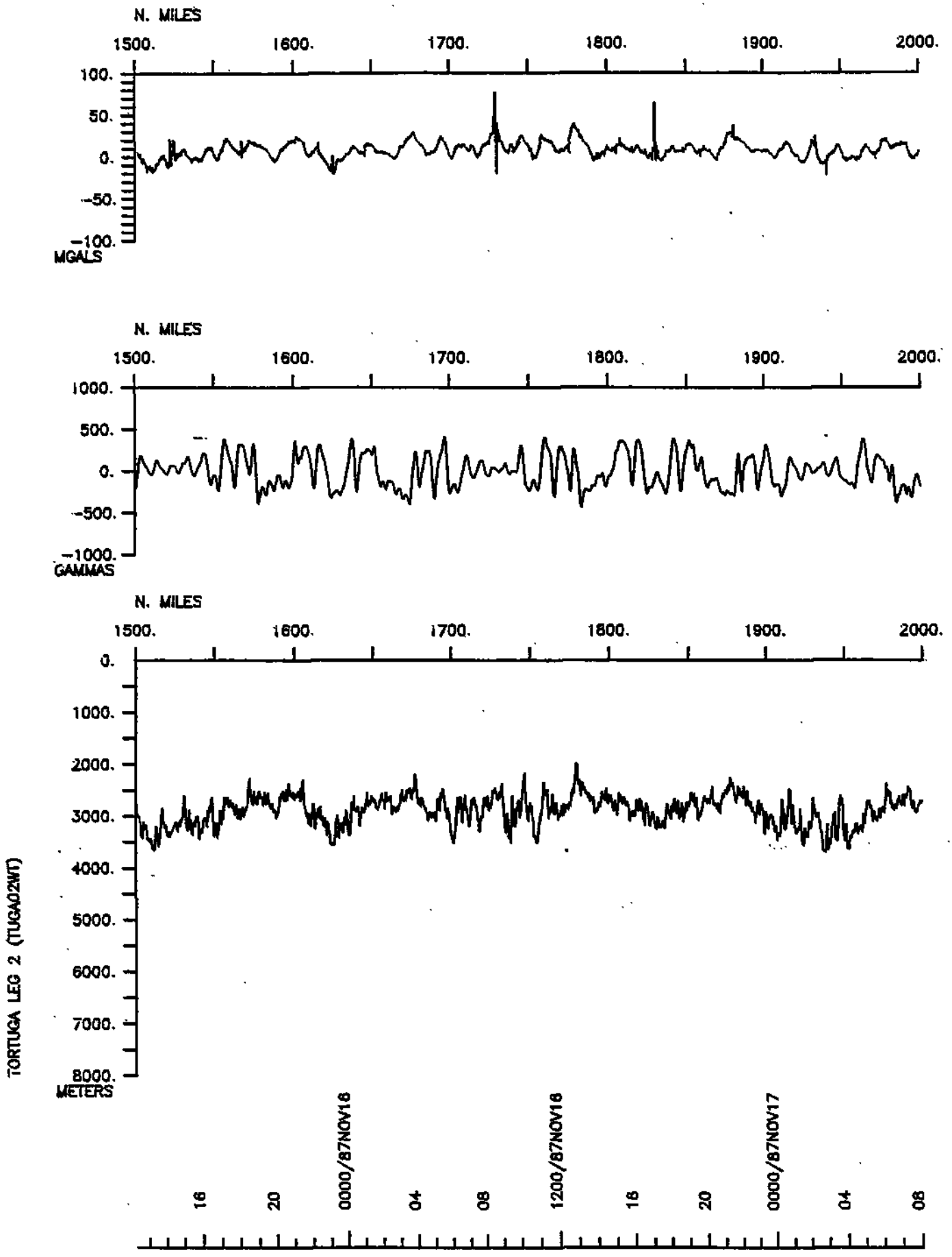
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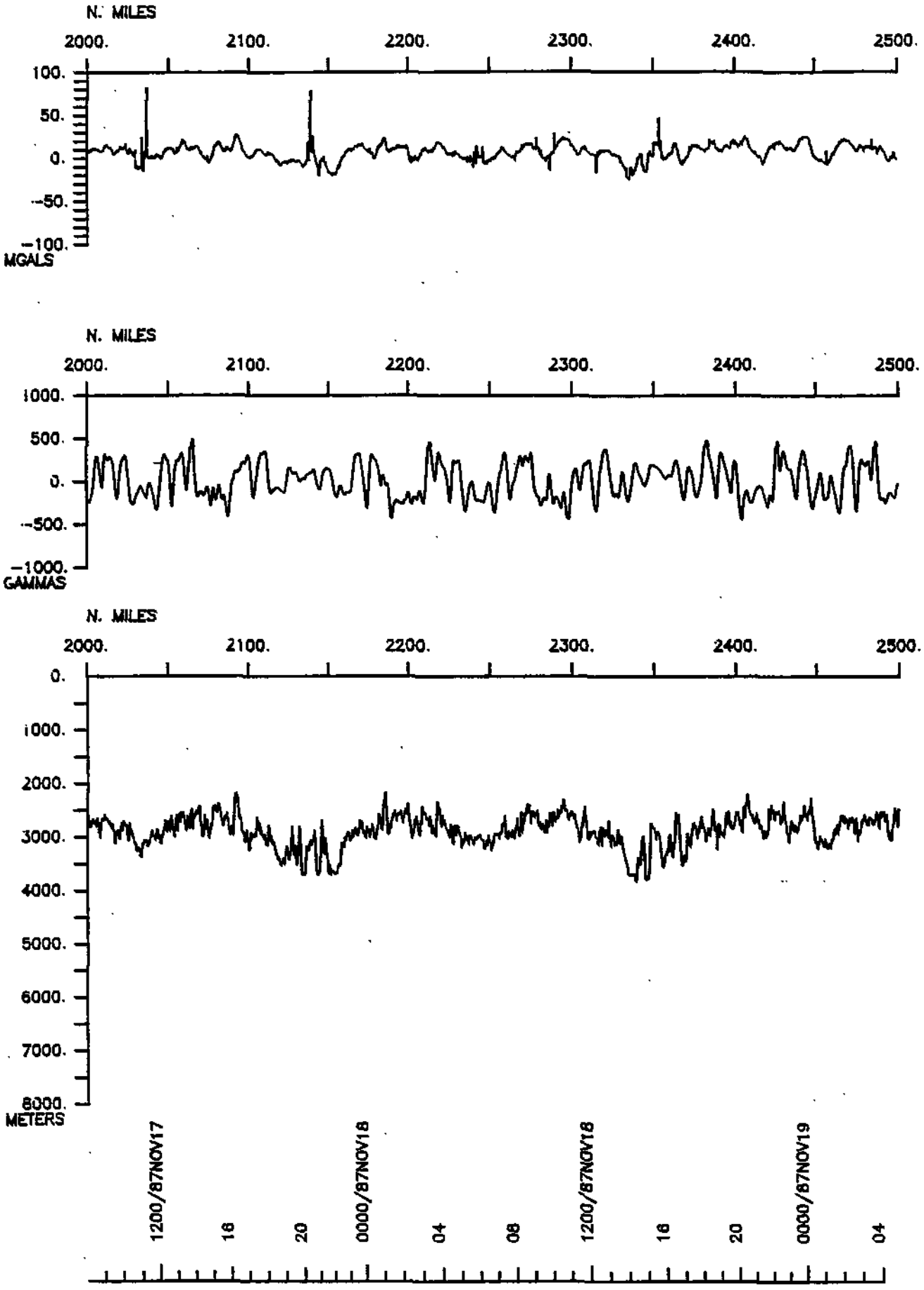
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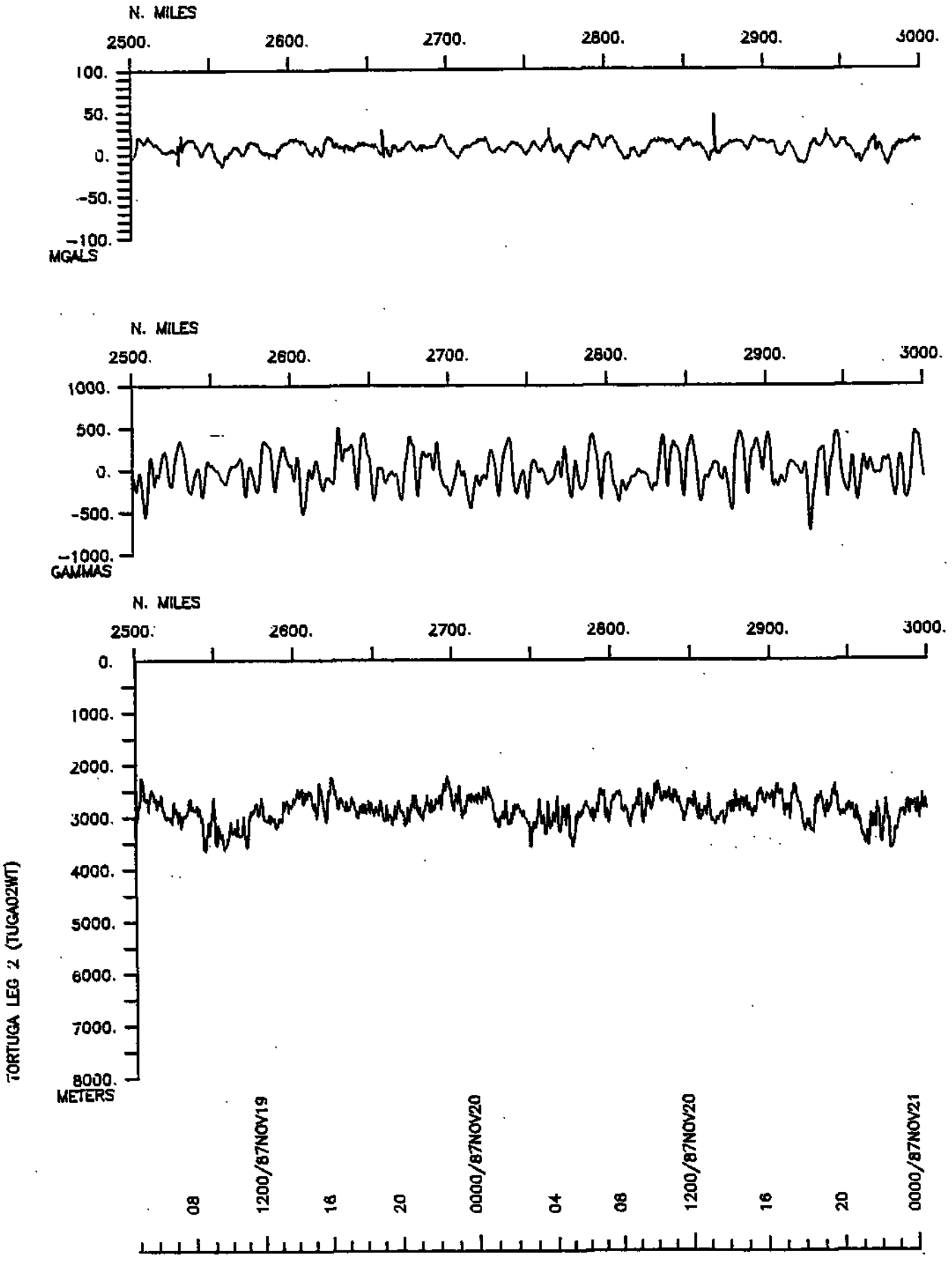
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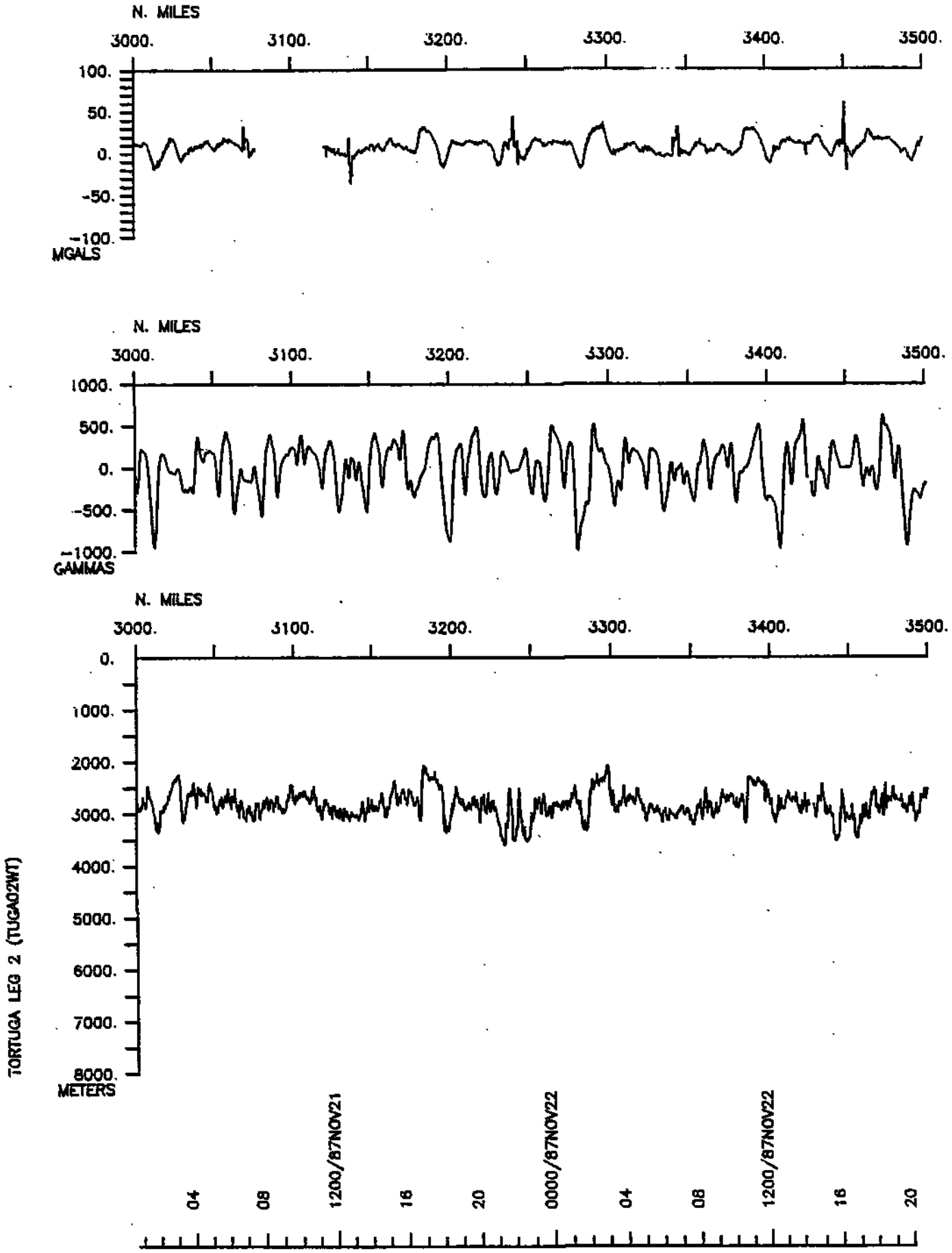
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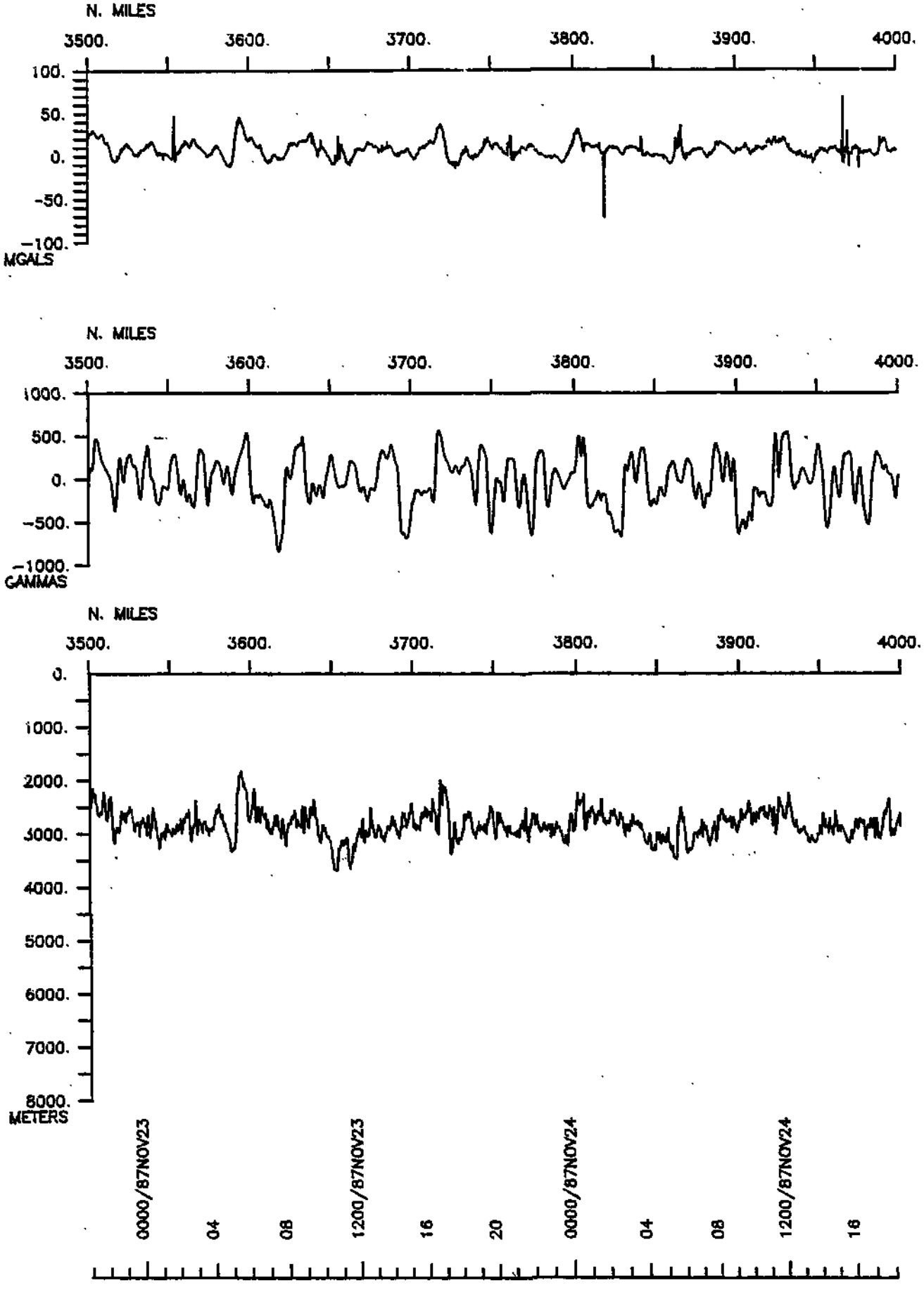
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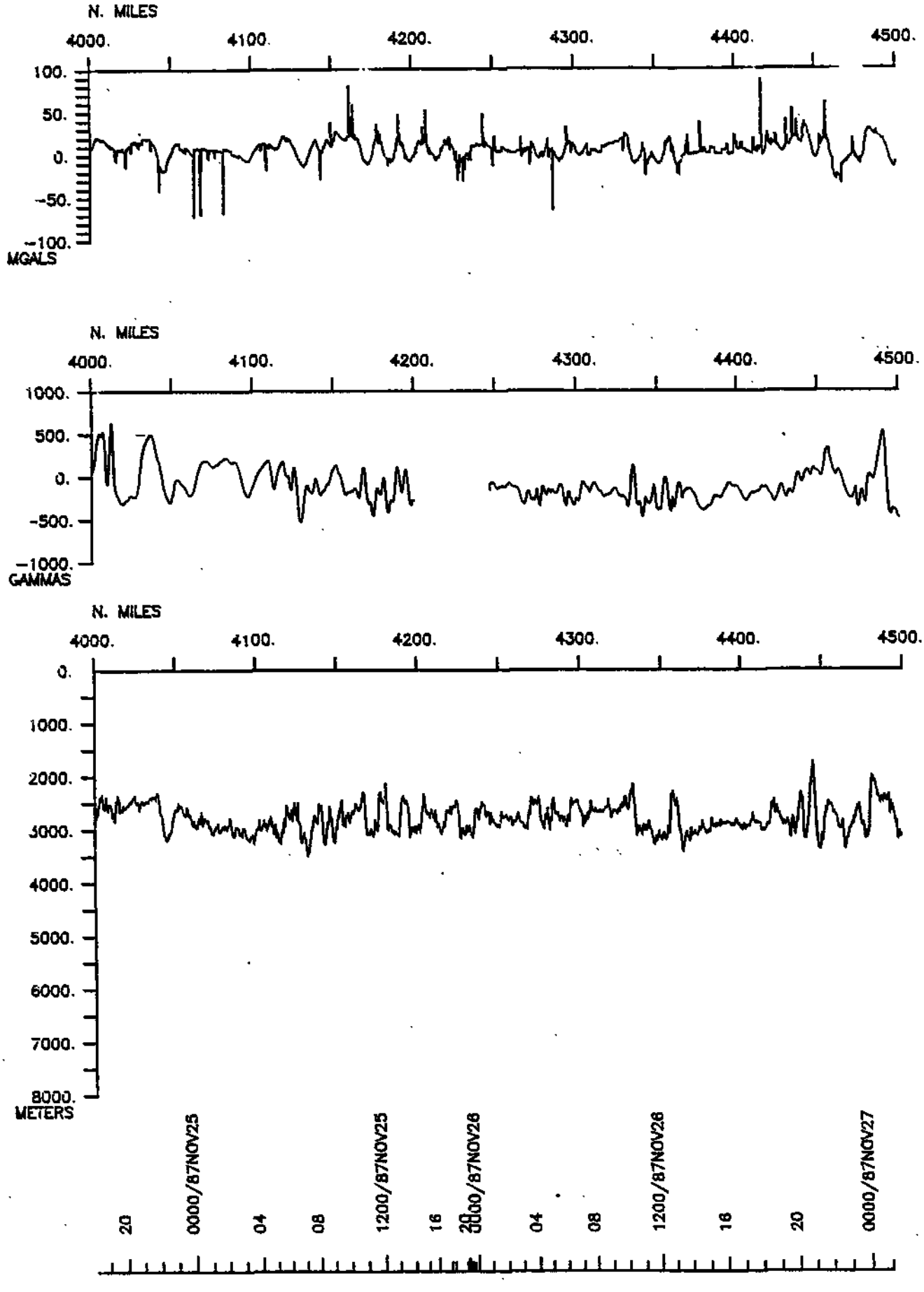
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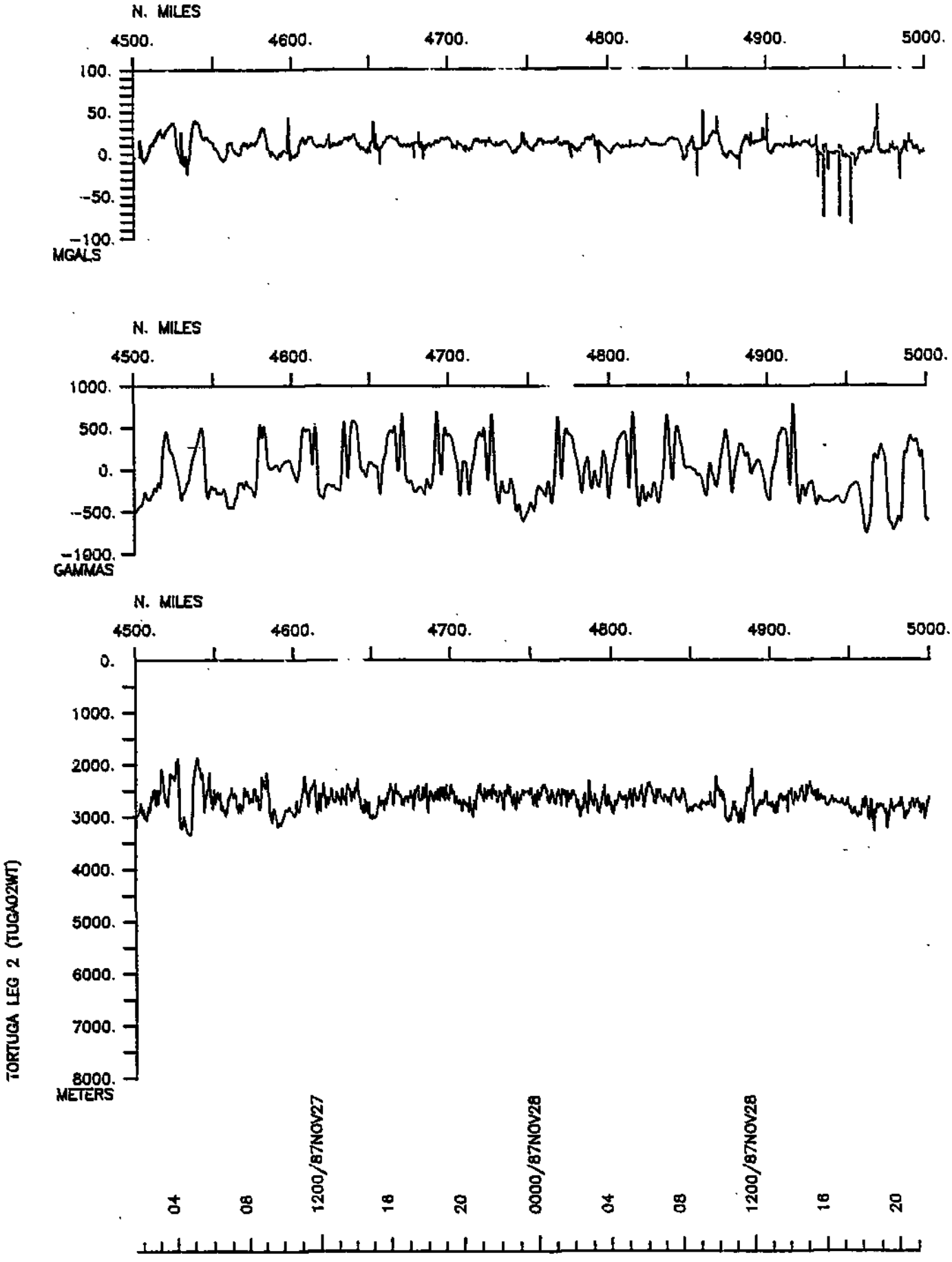
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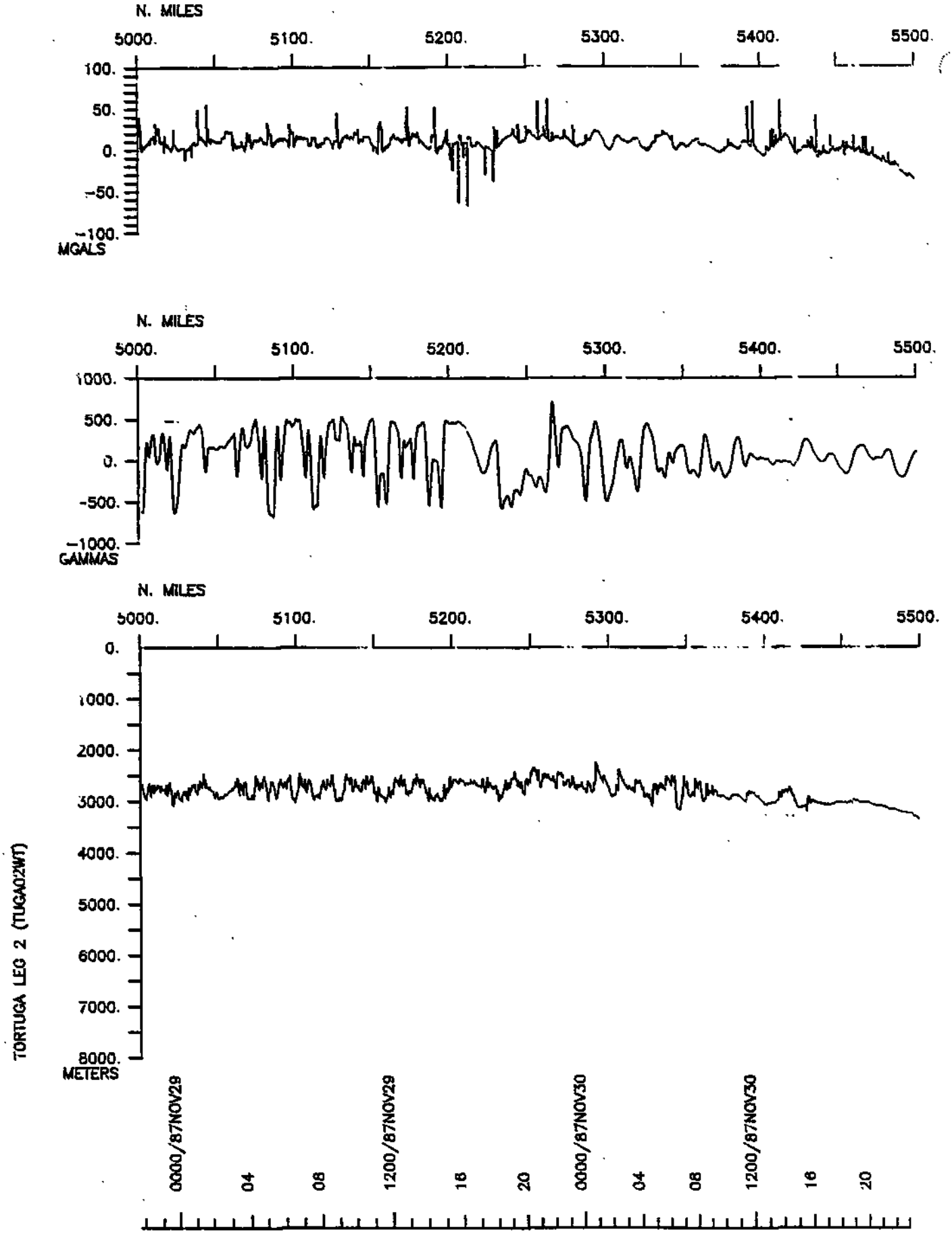
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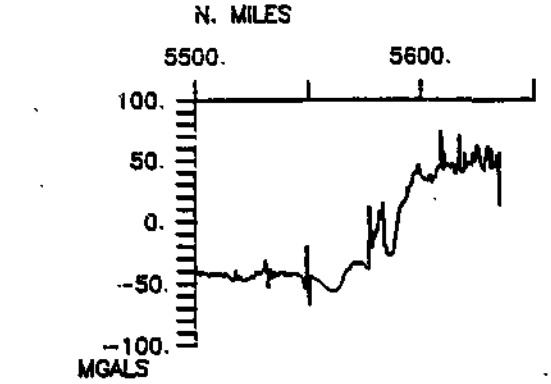
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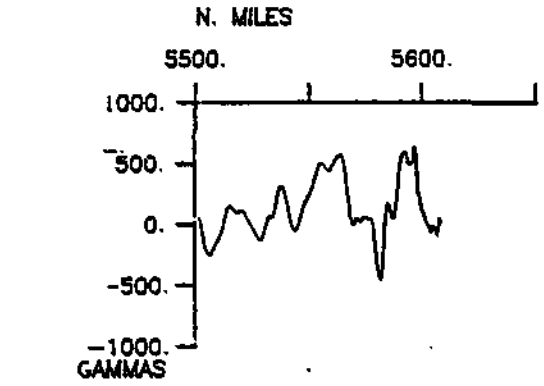
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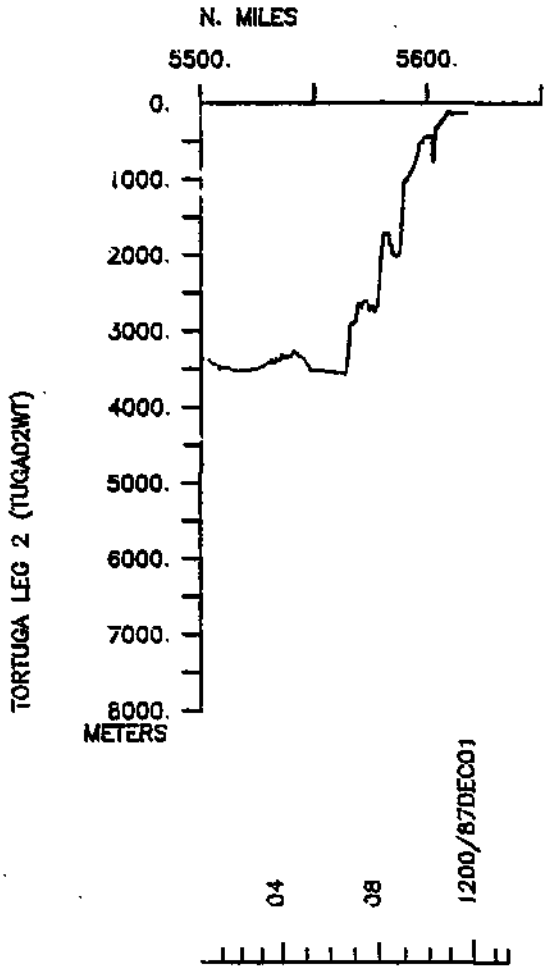
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TORTUGA LEG 2 (TUGA02WT)
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1200/87DEC01

S.I.O. SAMPLE INDEX

(Issued April 1987)

TORTUGA EXPEDITION

Leg 2

Puerto Quetzal, Guatemala (9 November 1987)
to
Academy Bay, Galapagos (1 December 1987)

R/V T. Washington

Chief Scientist - J. Phipps-Morgan (MIT)

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.)

GDC Cruise I.D.# 232

#***PORTS***

1650	091187	LGPT B	PUERTO QUETZAL,GUATEMALA	13-555N	90-472W sTUGAO2WT
1400	011287	LGPT E	ACADEMY BAY, GALAPAGOS	0-450S	90-181W sTUGAO2WT

#***PERSONNEL***

	NAME	***TITLE***	***AFFILIATION***	**CRID**
PECS MIT	PHIPPS-MORGAN,J.	CHIEF SCIENTIST	MASS.INST. TECHNOLOGY	TUGAO2WT
PEVL SIX	BRUNO,A.E.	VOLUNTEER	NON-SCRIPPS EMPLOYEE	TUGAO2WT
PEST GRD	CARESS,D.	GRAD STUDENT	SCRIPPS INSTITUTION	TUGAO2WT
PEST UCS	CARESS,M.	GRAD STUDENT	UNIV.CAL.SANTA BARBARA	TUGAO2WT
PEST IGP	GENRICK,J.	GRAD STUDENT	SCRIPPS INSTITUTION	TUGAO2WT
PESP IGP	HOLLINSHEAD,C.	ELECT. TECH.	SCRIPPS INSTITUTION	TUGAO2WT
PESP IGP	MINISTER,B.	VISITING PROF.	SCRIPPS INSTITUTION	TUGAO2WT
PECT STS	MOORE,M.	COMPUTER TECH.	SCRIPPS INSTITUTION	TUGAO2WT
PESP BRN	PARMENTIER,M.	ASSOC. PROFESSOR	BROWN UNIV.,RHODE IS.	TUGAO2WT
PEBE STS	PHILLIPS,J.	SEABEAM ENGINEER	SCRIPPS INSTITUTION	TUGAO2WT
PERT STS	PILLARD,E.	RESIDENT TECH.	SCRIPPS INSTITUTION	TUGAO2WT
PEBO STS	SMITH,S.	SEABEAM OPERATOR	SCRIPPS INSTITUTION	TUGAO2WT

#***NOTES***
N '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 #TIME DATE TIME Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
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#***LOG BOOKS***						
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1147 011287	LBUW E	UNDERWAY WATCH LOG	GDC	0-535S	90-290W	sTUGA02WT
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0027 121187	MBRM B	SEABEAM MONITOR R-02	GDC	5-083N	94-307W	sTUGA02WT
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1617 121187	MBTL E	SEABEAM TRANSIT L-01	GDC	2-553N	96-299W	sTUGA02WT
2106 291187	MBTL B	SEABEAM TRANSIT L-02	GDC	2-279N	94-451W	sTUGA02WT
1147 011287	MBTL E	SEABEAM TRANSIT L-02	GDC	0-535S	90-290W	sTUGA02WT

SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP	NG.	CRUISE LEG-SHIP
Y ***							
MBSV B	SEABEAM SURVEY 01	GDC	2-553N	96-299W	sTUGA02WT	243W	sTUGA02WT
MBSV E	SEABEAM SURVEY 01	GDC	2-279N	94-451W	sTUGA02WT	465W	sTUGA02WT
						142W	sTUGA02WT
						410W	sTUGA02WT
TH TOTAL FIELD) RECORDS ***						099W	sTUGA02WT
						328W	sTUGA02WT
						009W	sTUGA02WT
MGRA B	MAGNETICS R-01	GDC	13-150N	91-082W	sTUGA02WT	286W	sTUGA02WT
MGRA E	MAGNETICS R-01	GDC	2-423N	95-220W	sTUGA02WT	090W	sTUGA02WT
						573W	sTUGA02WT
MGRA B	MAGNETICS R-02	GDC	2-435N	95-220W	sTUGA02WT	104W	sTUGA02WT
MGRA E	MAGNETICS R-02	GDC	0-583S	90-368W	sTUGA02WT	002W	sTUGA02WT
						246W	sTUGA02WT
						245W	sTUGA02WT
BOOKS ***						189W	sTUGA02WT
						162W	sTUGA02WT
MBSB B	SEABEAM ARCHIVE	GDC	13-163N	91-072W	sTUGA02WT	129W	sTUGA02WT
MBSB E	SWATH BOOK -01	GDC	5-563N	94-105W	sTUGA02WT	066W	sTUGA02WT
						036W	sTUGA02WT
MBSB B	SEABEAM ARCHIVE	GDC	5-563N	94-105W	sTUGA02WT	014W	sTUGA02WT
MBSB E	SWATH BOOK -02	GDC	1-575N	96-249W	sTUGA02WT	587W	sTUGA02WT
						550W	sTUGA02WT
MBSB B	SEABEAM ARCHIVE	GDC	1-575N	96-249W	sTUGA02WT	549W	sTUGA02WT
MBSB E	SWATH BOOK -03	GDC	3-076N	96-126W	sTUGA02WT	551W	sTUGA02WT
						518W	sTUGA02WT
MBSB B	SEABEAM ARCHIVE	GDC	3-087N	96-126W	sTUGA02WT	507W	sTUGA02WT
MBSB E	SWATH BOOK -04	GDC	1-549N	95-547W	sTUGA02WT	461W	sTUGA02WT
						422W	sTUGA02WT
MBSB B	SEABEAM ARCHIVE	GDC	1-559N	95-546W	sTUGA02WT	421W	sTUGA02WT
MBSB E	SWATH BOOK -05	GDC	3-093N	95-361W	sTUGA02WT	398W	sTUGA02WT
						365W	sTUGA02WT
MBSB B	SEABEAM ARCHIVE	GDC	3-093N	95-361W	sTUGA02WT	360W	sTUGA02WT
MBSB E	SWATH BOOK -06	GDC	2-287N	95-250W	sTUGA02WT	331W	sTUGA02WT
						296W	sTUGA02WT
MBSB B	SEABEAM ARCHIVE	GDC	2-287N	95-250W	sTUGA02WT	302W	sTUGA02WT
MBSB E	SWATH BOOK -07	GDC	2-090N	95-136W	sTUGA02WT	302W	sTUGA02WT
						270W	sTUGA02WT
						239W	sTUGA02WT
						268W	sTUGA02WT

#GMT DDMMYY LOC T #TIME DATE TIME Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
2251 221187	MBSB B	SEABEAM ARCHIVE	GDC	2-090N	95-136W	sTUGA02WT
2033 241187	MBSB E	SWATH BOOK -08	GDC	2-279N	95-083W	sTUGA02WT
2033 241187	MBSB B	SEABEAM ARCHIVE	GDC	2-279N	95-083W	sTUGA02WT
0011 271187	MBSB E	SWATH BOOK -09	GDC	2-217N	95-171W	sTUGA02WT
0013 271187	MBSB B	SEABEAM ARCHIVE	GDC	2-221N	95-170W	sTUGA02WT
1958 281187	MBSB E	SWATH BOOK -10	GDC	2-431N	95-062W	sTUGA02WT
1958 281187	MBSB B	SEABEAM ARCHIVE	GDC	2-431N	95-062W	sTUGA02WT
2034 301287	MBSB E	SWATH BOOK -11	GDC	0-450S	90-182W	sTUGA02WT
2034 301187	MBSB B	SEABEAM ARCHIVE	GDC	0-116S	92-219W	sTUGA02WT
1147 011287	MBSB E	SWATH BOOK -12	GDC	0-535S	90-290W	sTUGA02WT
#*** THERMOGRAPH RECORDINGS ***						
1650 091187	TCRC B	THERMOGRAPHS 1-12	GDC	13-555N	90-472W	sTUGA02WT
1400 011287	TCRC E	THERMOGRAPHS 1-12	GDC	0-450S	90-181W	sTUGA02WT
#*** GRAVIMETER ***						
1650 091187	GVCS B	GRAVITY DATA	GDC	13-555N	90-472W	sTUGA02WT
1400 011287	GVCS E	COMPUTER STORED	GDC	0-450S	90-181W	sTUGA02WT
#*** ROCK DREDGE ***						
1925 251187	DRRO B	ROCK DREDGE -01	MIT	2-184N	96-208W	sTUGA02WT
2223 251187	DRRO E	25 LBS HAUL 2928M	MIT	2-168N	96-197W	sTUGA02WT

#GMT TIME	DDMMYY DATE	LOC T TIME Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
#*** EXPENDABLE BATHYTHERMOGRAPHS ***								
0552	101187		BTXP	XBT 0001 PROBE T-4	GDC	12-474N	91-243W	sTUGA02WT
1157	101187		BTXP	XBT 0002 PROBE T-4	GDC	11-422N	91-465W	sTUGA02WT
1754	101187		BTXP	XBT 0003 PROBE T-4	GDC	10-371N	92-142W	sTUGA02WT
2350	101187		BTXP	XBT 0004 PROBE T-4	GDC	9-353N	92-410W	sTUGA02WT
0601	111187		BTXP	XBT 0005 PROBE T-4	GDC	8-313N	93-099W	sTUGA02WT
1156	111187		BTXP	XBT 0006 PROBE T-4	GDC	7-263N	93-328W	sTUGA02WT
1806	111187		BTXP	XBT 0007 PROBE T-4	GDC	6-168N	94-009W	sTUGA02WT
2354	111187		BTXP	XBT 0008 PROBE T-4	GDC	5-144N	94-286W	sTUGA02WT
0545	121187		BTXP	XBT 0009 PROBE T-4	GDC	4-230N	95-090W	sTUGA02WT
1201	121187		BTXP	XBT 0010 PROBE T-4	GDC	3-319N	95-573W	sTUGA02WT
1802	121187		BTXP	XBT 0011 PROBE T-4	GDC	2-549N	96-104W	sTUGA02WT
0154	131187		BTXP	XBT 0012 PROBE T-4	GDC	2-475N	95-002W	sTUGA02WT
1430	131187		BTXP	XBT 0013 PROBE T-4	GDC	2-001N	96-246W	sTUGA02WT
0157	141187		BTXP	XBT 0014 PROBE T-4	GDC	3-186N	96-245W	sTUGA02WT
1528	141187		BTXP	XBT 0015 PROBE T-4	GDC	2-236N	96-189W	sTUGA02WT
53	151187		BTXP	XBT 0016 PROBE T-4	GDC	2-205N	96-162W	sTUGA02WT
1410	151187		BTXP	XBT 0017 PROBE T-4	GDC	3-189N	96-129W	sTUGA02WT
0148	161187		BTXP	XBT 0018 PROBE T-4	GDC	2-075N	96-066W	sTUGA02WT
1405	161187		BTXP	XBT 0019 PROBE T-4	GDC	2-155N	96-036W	sTUGA02WT
2355	161187		BTXP	XBT 0020 PROBE T-4	GDC	2-541N	96-014W	sTUGA02WT
0600	171187		BTXP	XBT 0021 PROBE T-4	GDC	2-379N	95-587W	sTUGA02WT
1209	171187		BTXP	XBT 0022 PROBE T-4	GDC	1-494N	95-550W	sTUGA02WT
1217	171187		BTXP	XBT 0023 PROBE T-4	GDC	1-509N	95-549W	sTUGA02WT
1757	171187		BTXP	XBT 0024 PROBE T-4	GDC	2-542N	95-551W	sTUGA02WT
2354	171187		BTXP	XBT 0025 PROBE T-4	GDC	2-477N	95-518W	sTUGA02WT
0555	181187		BTXP	XBT 0026 PROBE T-4	GDC	1-394N	95-507W	sTUGA02WT
1201	181187		BTXP	XBT 0027 PROBE T-4	GDC	2-443N	95-461W	sTUGA02WT
1800	181187		BTXP	XBT 0028 PROBE T-4	GDC	2-558N	95-422W	sTUGA02WT
0002	191187		BTXP	XBT 0029 PROBE T-4	GDC	1-511N	95-421W	sTUGA02WT
0600	191187		BTXP	XBT 0030 PROBE T-4	GDC	2-368N	95-398W	sTUGA02WT
1208	191187		BTXP	XBT 0031 PROBE T-4	GDC	2-563N	95-365W	sTUGA02WT
1802	191187		BTXP	XBT 0032 PROBE T-4	GDC	1-538N	95-360W	sTUGA02WT
0000	201187		BTXP	XBT 0033 PROBE T-4	GDC	2-339N	95-331W	sTUGA02WT
0555	201187		BTXP	XBT 0034 PROBE T-4	GDC	3-007N	95-296W	sTUGA02WT
1223	201187		BTXP	XBT 0035 PROBE T-4	GDC	1-511N	95-302W	sTUGA02WT
1235	201187		BTXP	XBT 0036 PROBE T-4	GDC	1-489N	95-302W	sTUGA02WT
1803	201187		BTXP	XBT 0037 PROBE T-4	GDC	2-334N	95-270W	sTUGA02WT
0000	211187		BTXP	XBT 0038 PROBE T-4	GDC	2-584N	95-239W	sTUGA02WT
0601	211187		BTXP	XBT 0039 PROBE T-4	GDC	1-521N	95-268W	sTUGA02WT

#GMT DDMMYY LOC T #TIME DATE TIME Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1200 211187	BTXP	XBT 0040 PROBE T-4	GDC	1-498N	95-200W	sTUGA02WT
1801 211187	BTXP	XBT 0041 PROBE T-4	GDC	2-361N	95-220W	sTUGA02WT
2354 211187	BTXP	XBT 0042 PROBE T-4	GDC	2-590N	95-188W	sTUGA02WT
0558 221187	BTXP	XBT 0043 PROBE T-4	GDC	1-494N	95-185W	sTUGA02WT
1159 221187	BTXP	XBT 0044 PROBE T-4	GDC	2-345N	95-159W	sTUGA02WT
1805 221187	BTXP	XBT 0045 PROBE T-4	GDC	3-014N	95-131W	sTUGA02WT
0601 231187	BTXP	XBT 0046 PROBE T-4	GDC	2-263N	95-102W	sTUGA02WT
1200 231187	BTXP	XBT 0047 PROBE T-4	GDC	3-121N	95-070W	sTUGA02WT
1804 231187	BTXP	XBT 0048 PROBE T-4	GDC	2-081N	95-071W	sTUGA02WT
2358 231187	BTXP	XBT 0049 PROBE T-4	GDC	2-149N	95-041W	sTUGA02WT
0558 241187	BTXP	XBT 0050 PROBE T-4	GDC	3-196N	95-012W	sTUGA02WT
1201 241187	BTXP	XBT 0051 PROBE T-4	GDC	2-160N	95-012W	sTUGA02WT
1803 241187	BTXP	XBT 0052 PROBE T-4	GDC	2-075N	94-580W	sTUGA02WT
0153 251187	BTXP	XBT 0053 PROBE T-4	GDC	2-404N	96-032W	sTUGA02WT
0603 251187	BTXP	XBT 0054 PROBE T-4	GDC	2-273N	96-303W	sTUGA02WT
1207 251187	BTXP	XBT 0055 PROBE T-4	GDC	2-247N	96-206W	sTUGA02WT
0006 261187	BTXP	XBT 0056 PROBE T-4	GDC	2-138N	96-199W	sTUGA02WT
0633 261187	BTXP	XBT 0057 PROBE T-4	GDC	2-221N	95-585W	sTUGA02WT
1803 261187	BTXP	XBT 0058 PROBE T-4	GDC	2-176N	95-412W	sTUGA02WT
0031 271187	BTXP	XBT 0059 PROBE T-4	GDC	2-259N	95-168W	sTUGA02WT
0601 271187	BTXP	XBT 0060 PROBE T-4	GDC	2-304N	95-093W	sTUGA02WT
1202 271187	BTXP	XBT 0061 PROBE T-4	GDC	2-256N	95-021W	sTUGA02WT
1842 271187	BTXP	XBT 0062 PROBE T-4	GDC	2-209N	94-545W	sTUGA02WT
0054 281187	BTXP	XBT 0063 PROBE T-4	GDC	2-251N	94-496W	sTUGA02WT
0104 281187	BTXP	XBT 0064 PROBE T-4	GDC	2-233N	94-495W	sTUGA02WT
0125 281187	BTXP	XBT 0065 PROBE T-4	GDC	2-194N	94-493W	sTUGA02WT
0601 281187	BTXP	XBT 0066 PROBE T-4	GDC	2-304N	94-481W	sTUGA02WT
1159 281187	BTXP	XBT 0067 PROBE T-4	GDC	2-039N	94-566W	sTUGA02WT
1759 281187	BTXP	XBT 0068 PROBE T-4	GDC	2-387N	95-104W	sTUGA02WT
0007 291187	BTXP	XBT 0069 PROBE T-4	GDC	2-478N	95-015W	sTUGA02WT
0603 291187	BTXP	XBT 0070 PROBE T-4	GDC	2-532N	94-535W	sTUGA02WT
1302 291187	BTXP	XBT 0071 PROBE T-4	GDC	2-474N	94-382W	sTUGA02WT
1312 291187	BTXP	XBT 0072 PROBE T-4	GDC	2-482N	94-370W	sTUGA02WT
1848 291187	BTXP	XBT 0073 PROBE T-4	GDC	2-435N	94-590W	sTUGA02WT
0151 301187	BTXP	XBT 0074 PROBE T-4	GDC	1-551N	94-159W	sTUGA02WT
0202 301187	BTXP	XBT 0075 PROBE T-4	GDC	1-539N	94-148W	sTUGA02WT
0558 301187	BTXP	XBT 0076 PROBE T-4	GDC	1-269N	93-514W	sTUGA02WT
1157 301187	BTXP	XBT 0077 PROBE T-4	GDC	0-471N	93-146W	sTUGA02WT
1803 301187	BTXP	XBT 0078 PROBE T-4	GDC	0-054N	92-361W	sTUGA02WT
2349 301187	BTXP	XBT 0079 PROBE T-4	GDC	0-317S	92-033W	sTUGA02WT
0556 011287	BTXP	XBT 0080 PROBE T-4	GDC	1-115S	91-252W	sTUGA02WT

#**** END SAMPLE INDEX