REPORT AND INDEX OF

UNDERWAY MARINE GEOPHYSICAL DATA

PANORAMA EXPEDITION

LEG 5

(PANR05MV)

(R/V Melville)

(Issued June 1998)

Ports:

Easter Island (5 March 1998)

to

Papeete, Tahiti (13 April 1998)

Chief Scientist:

Richard Hey (University of Hawaii)

Jim Charters, Computer Engineer

Bob Wilson, Resident Marine Technician

Post-Cruise Processing and Report Preparation by the
Geological Data Center, Scripps Institution of Oceanography
La Jolla, California 92093-0223

GDC Cruise I.D.# 278

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 and gravity free air anomaly vs. distance. (Sections of track with seismic reflection data have a wide black line along the bottom of the profile.)

Sample Index - list of begin/end times and positions of all underway records as well as samples and measurements from other disciplines collected on the leg.

NOTE: One or more of the underway data types may not be collected on a given 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 92093-0223. Phone: (619)534-2752, FAX: (619)534-6500, Internet email: ssmith@ucsd.edu

1. Files via ftp or on 8mm (Exabyte) and 4mm (DAT) magnetic tape:
   a) Separate time series ASCII files of navigation, single beam depth, gravity and magnetics.
   b) Above data in a single merged ASCII file in the MGD77 Exchange Format.
   c) SeaBeam depth data (binary, Sun byte order)
   d) SeaBeam Sidescan data.

2. Microfilm (35 mm flowfilm) or hard copies of:
   a) Underway watch log book.
   b) SeaBeam vertical beam profile/Sidescan records.
   c) 3.5 kHz and 12 kHz echosounder records.
   d) Seismic reflection profiler records.

3. Navigation listing with times and positions of fixes and course and speed changes.

4. Custom plots in Mercator projection:
   a) Track plots.
   b) SeaBeam depth contour plots.
   c) Depth, magnetic or gravity values printed or profiled along track.

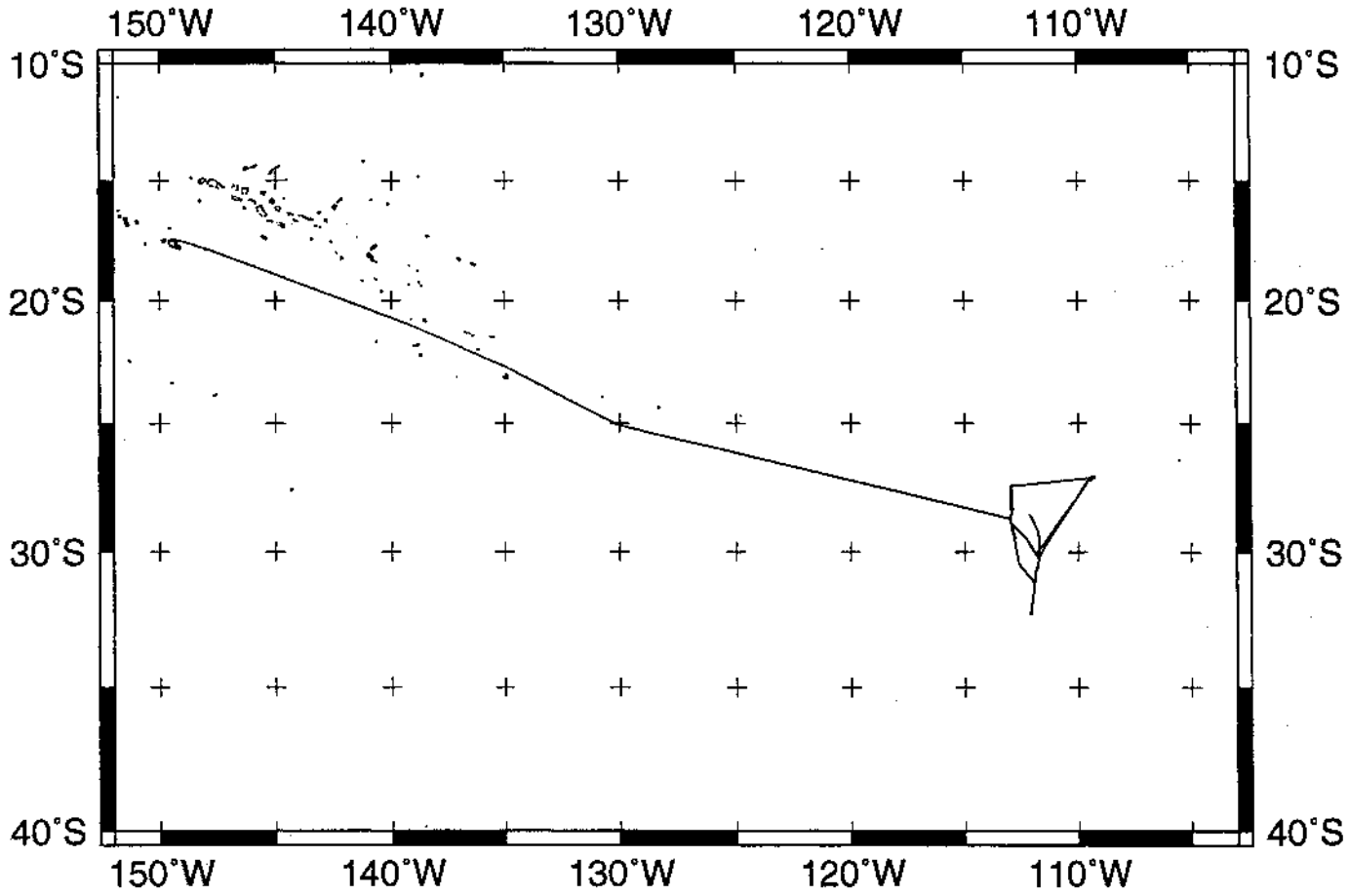
rev 4/98

Sea Beam Data Collected in Ancillary Mode

In the absence of funding for collecting multi-beam data on this leg, Sea Beam data were collected by SIO/STS in ancillary mode. In this mode of operation, no Hardware Technician or SB/Underway Processor were on board and the types of realtime records and post-processed data products are reduced from those available under the fully funded mode.

The Sea Beam data remain proprietary to the SIO Shipboard Technical Support Group, not the chief scientist.

May 1998



PANORAMA EXPEDITION LEG 5

CHIEF SCIENTIST: Richard Hey, University of Hawaii

PORTS: Easter Island - Papeete, Tahiti

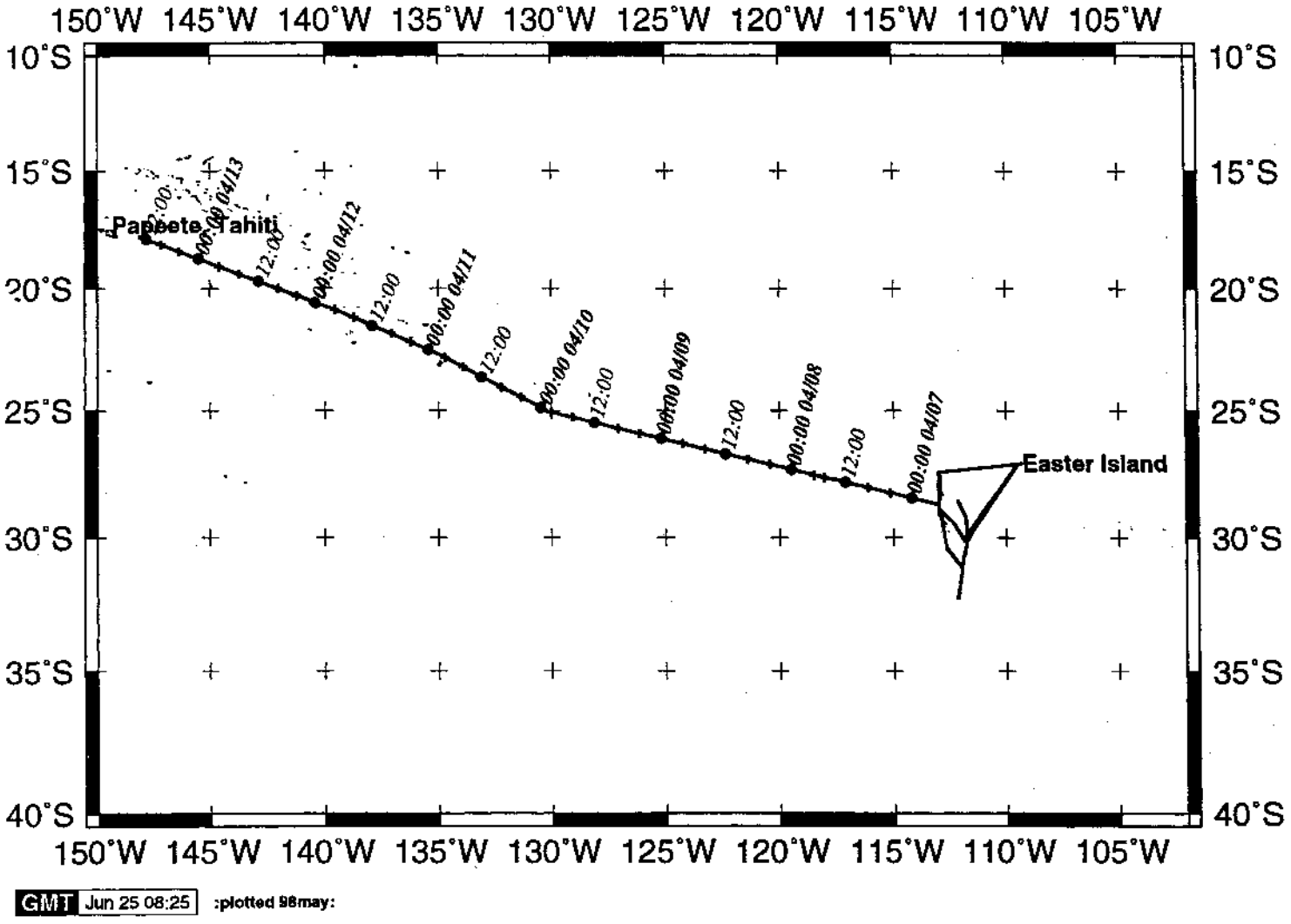
DATES: 05 March - 13 April 1998

SHIP: R/V Melville

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

Cruise - 4500 miles	**Magnetics - 645 miles**
Bathymetry - 4437 miles	**Seismic Reflection - none collected**
Sea Beam - 4437 miles	**Gravity - 4425 miles**

PANR05MV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40°S
Papeete, Tahiti
00:00 04/13
12:00
00:00 04/12
12:00
00:00 04/11
12:00
00:00 04/10
12:00
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12:00
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Easter Island
GMT Jun 25 08:25 :plotted 98may:

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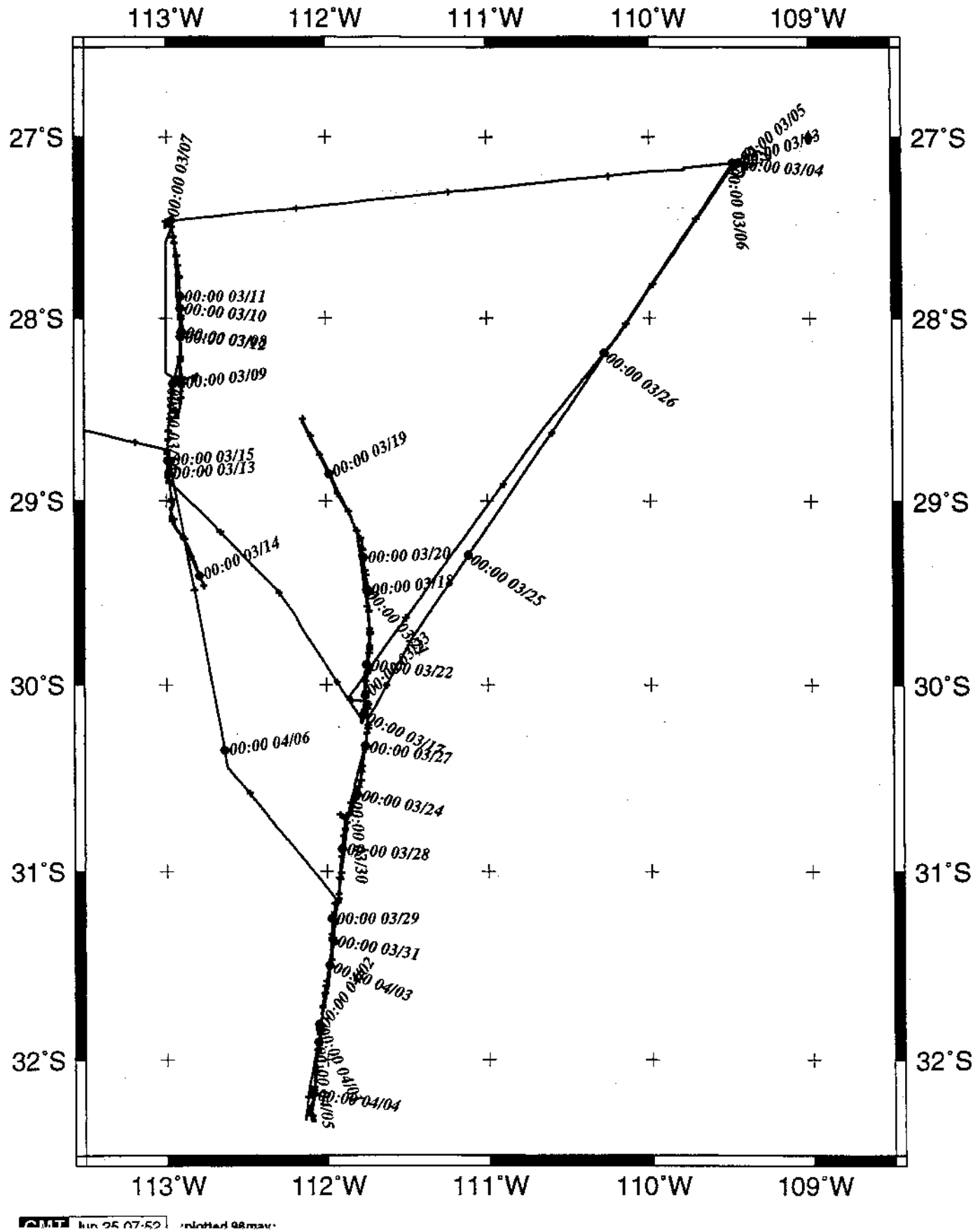

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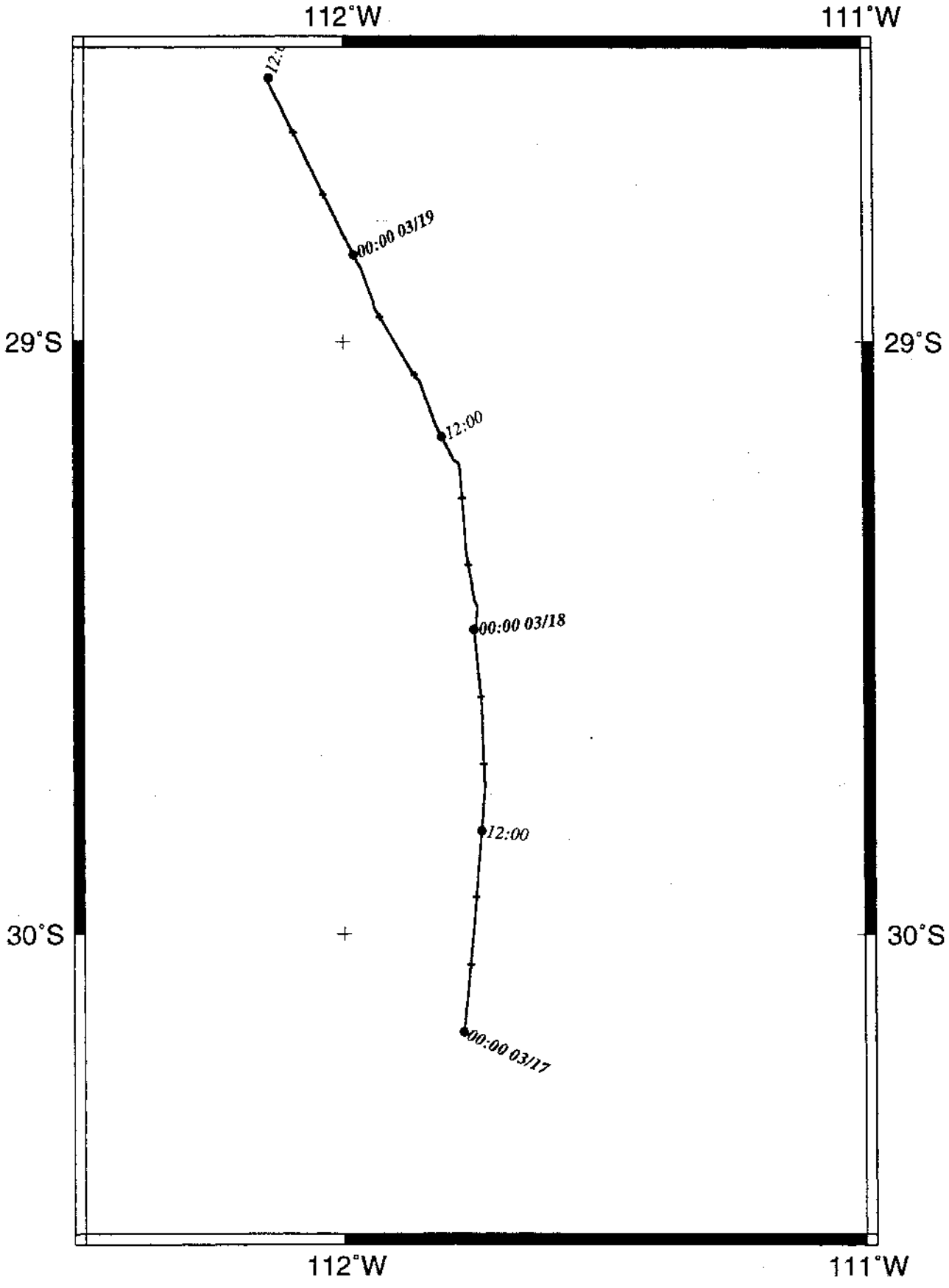

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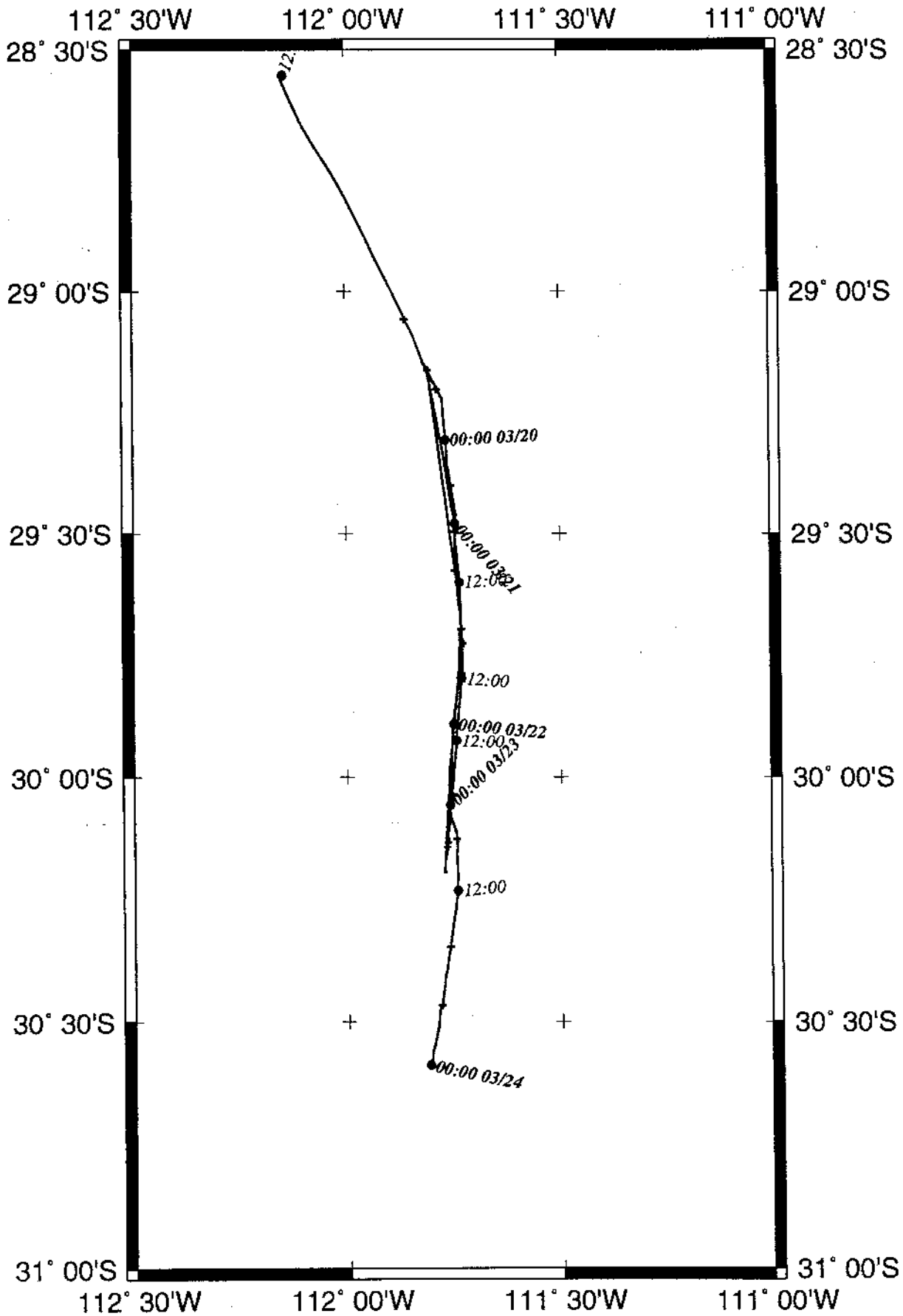

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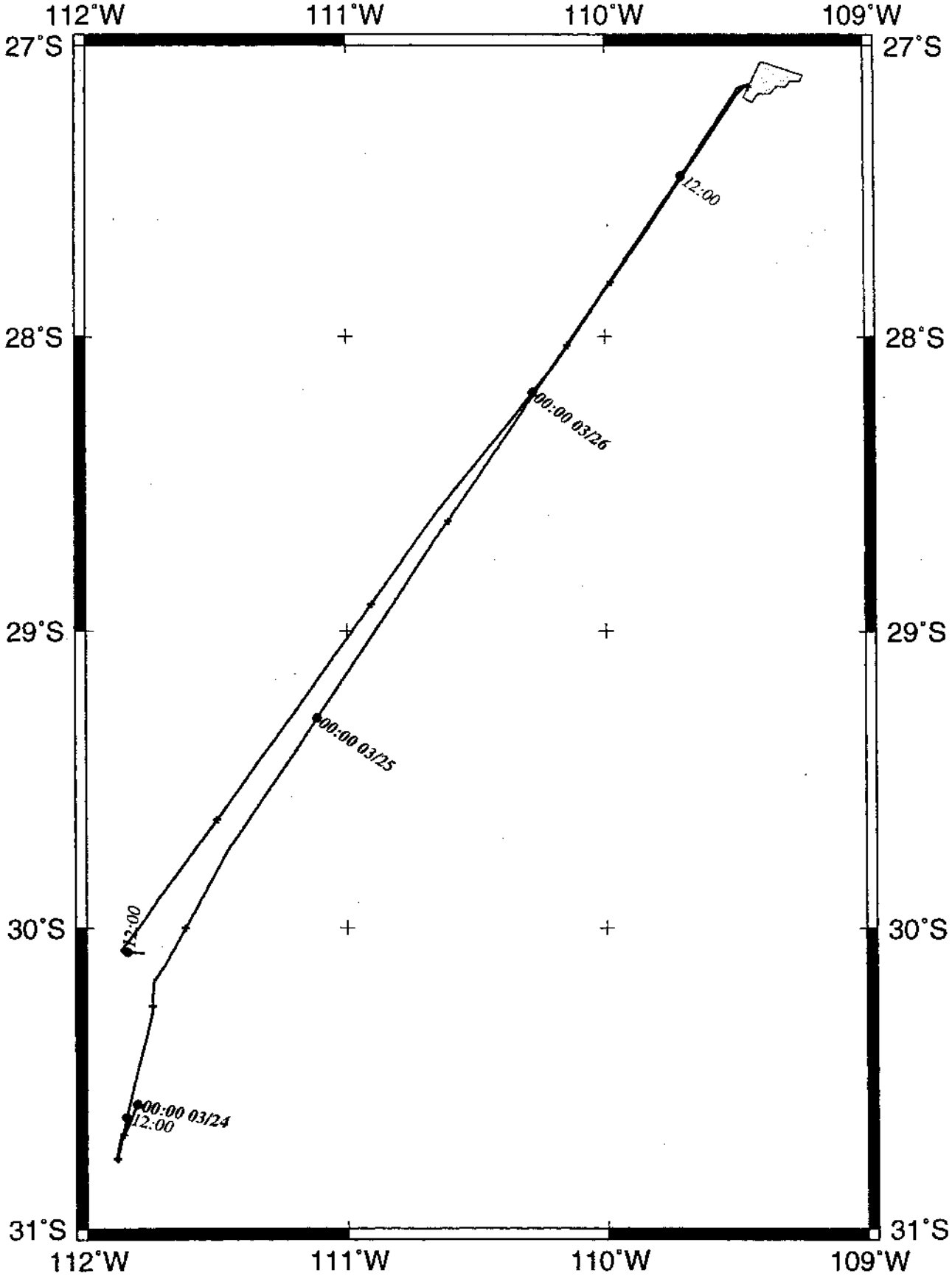

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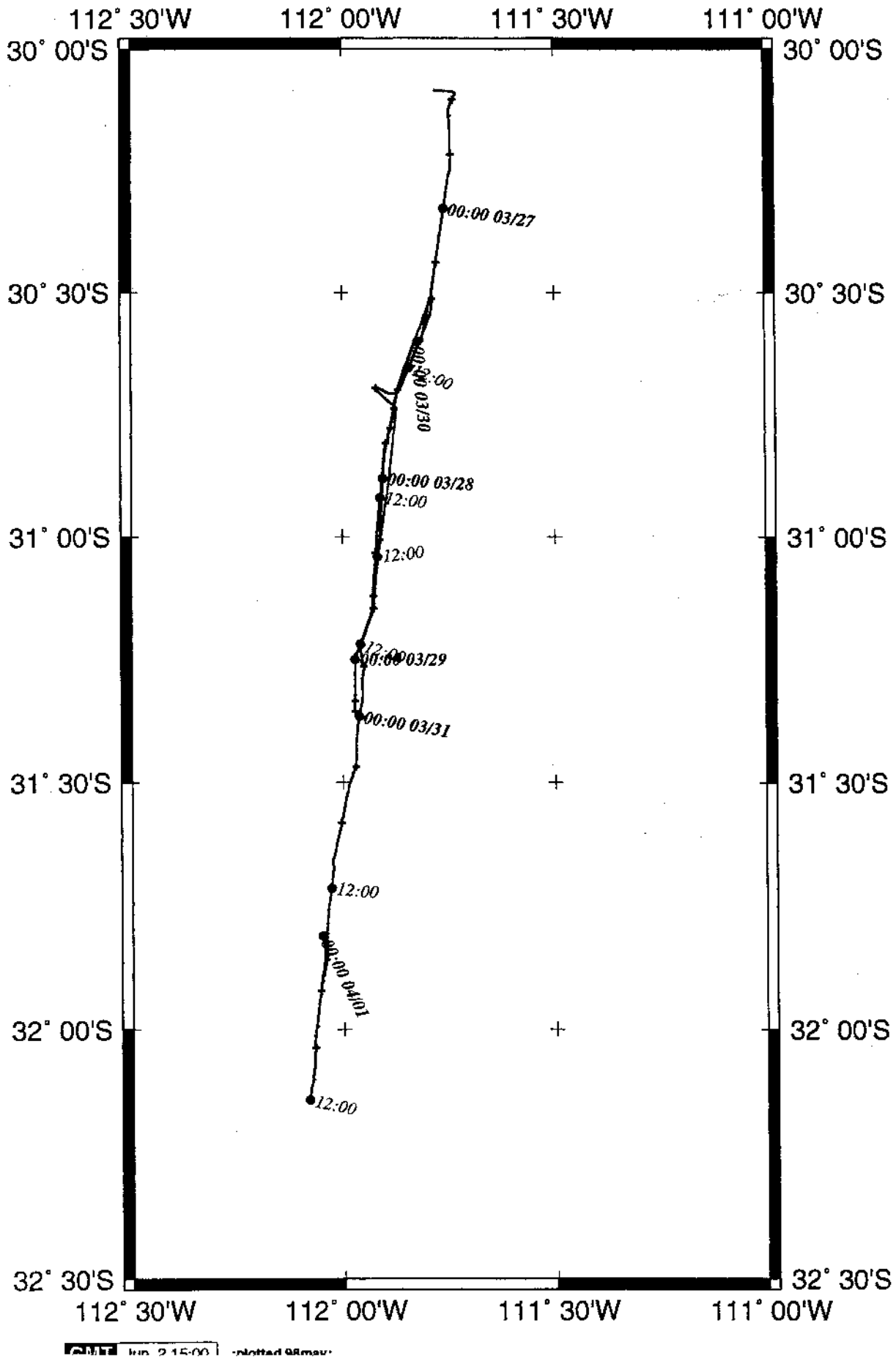

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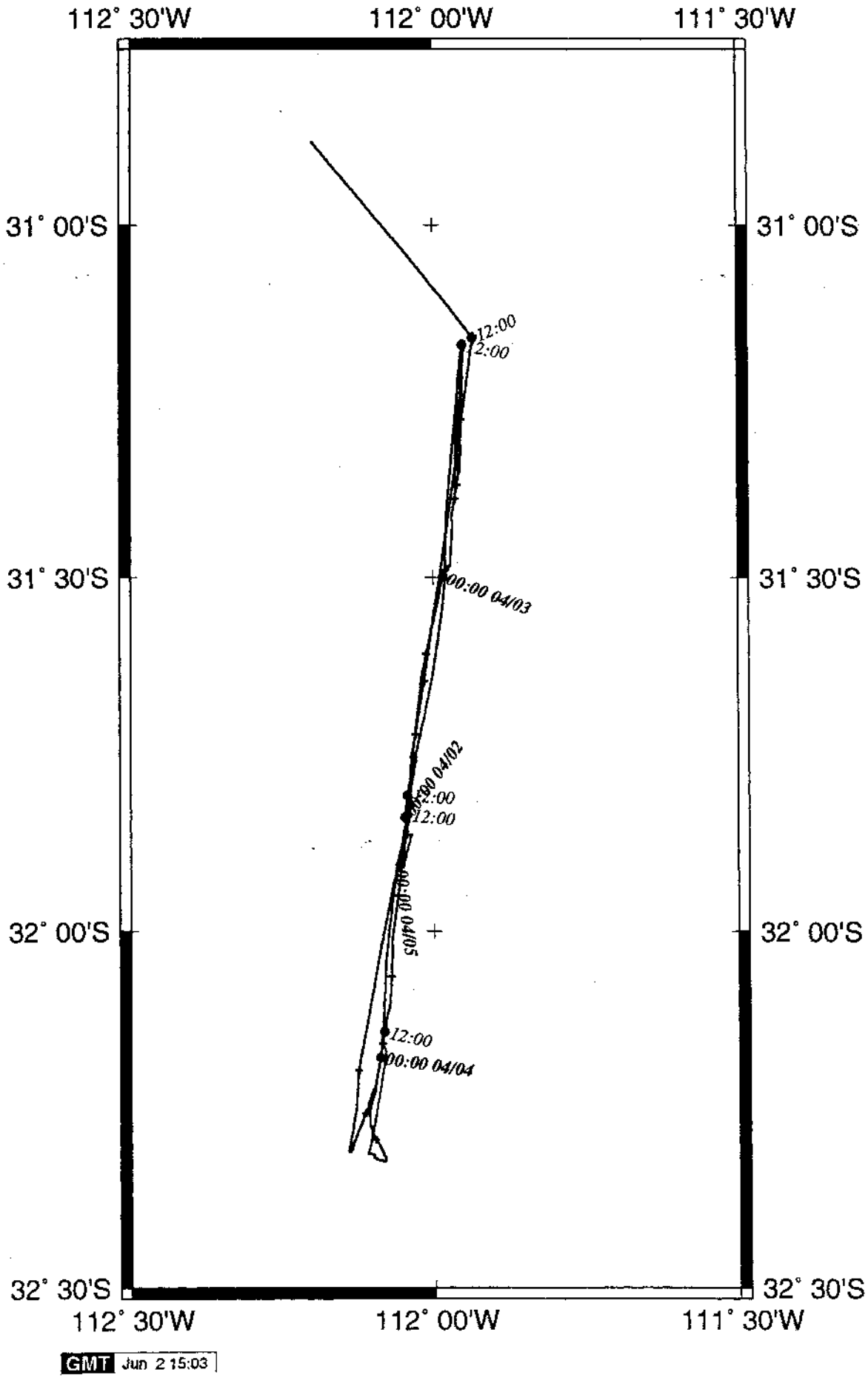

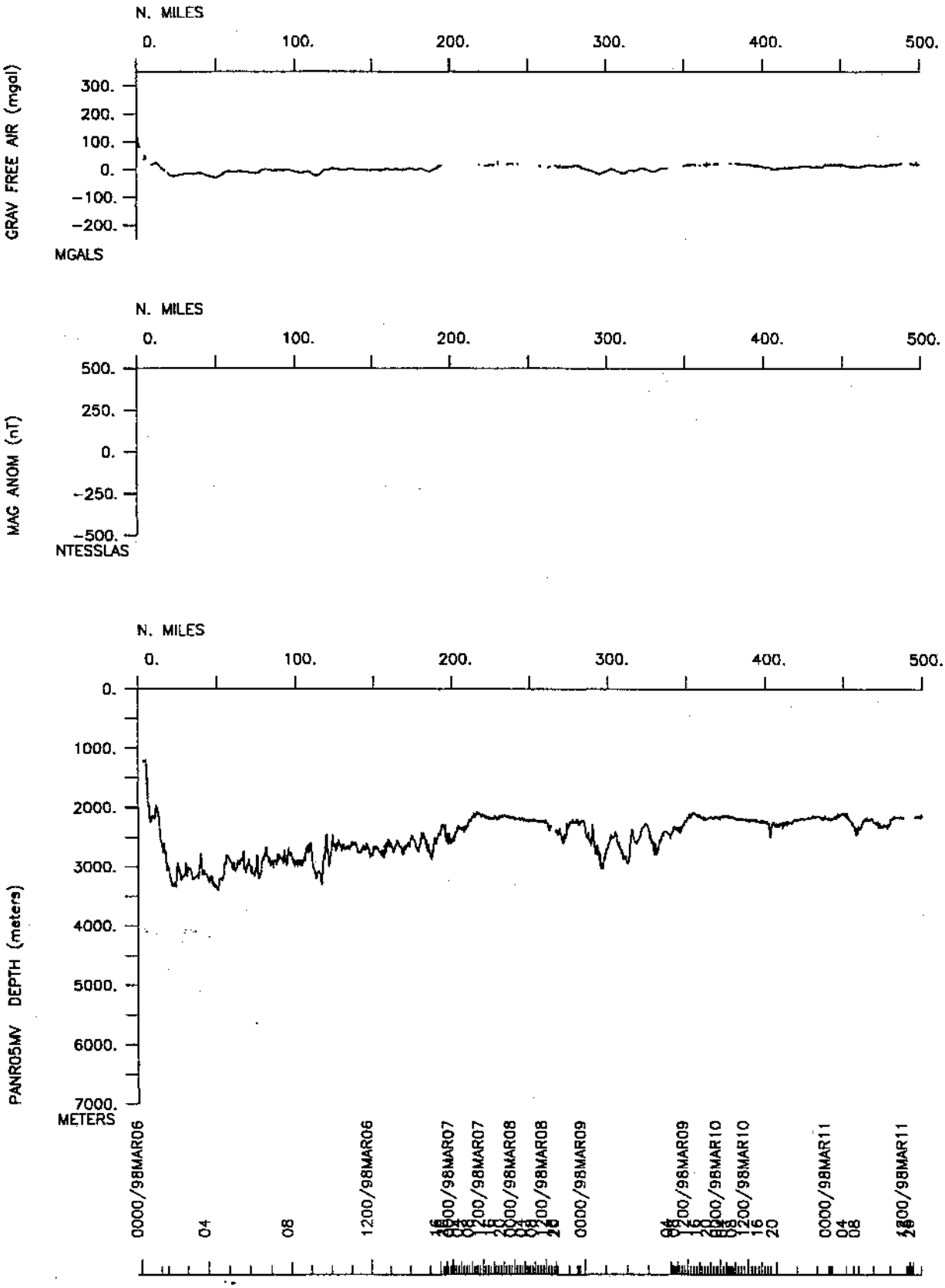
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300.
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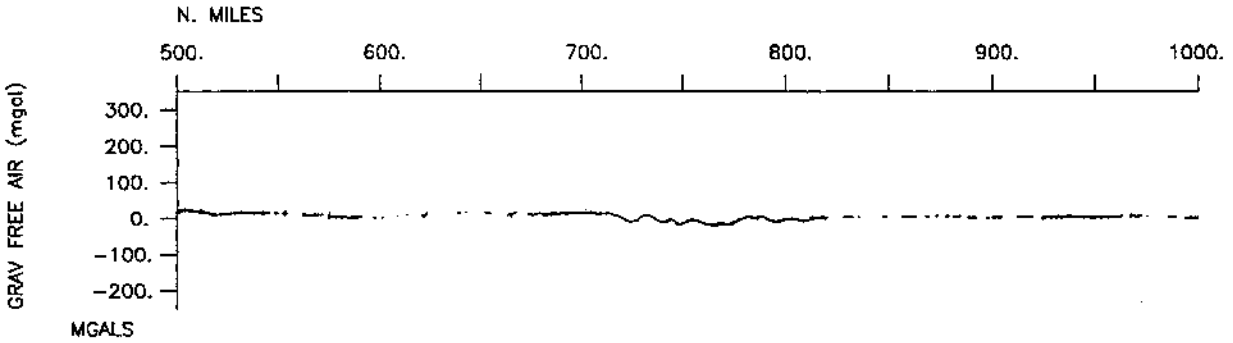
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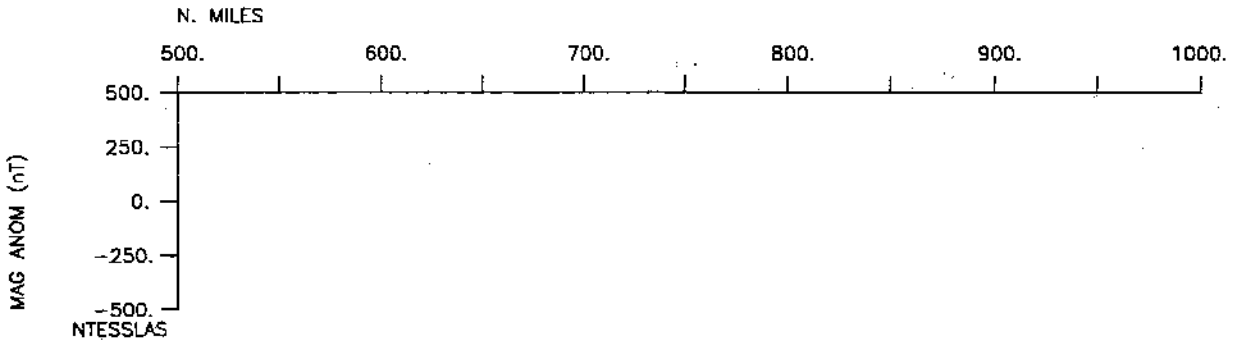
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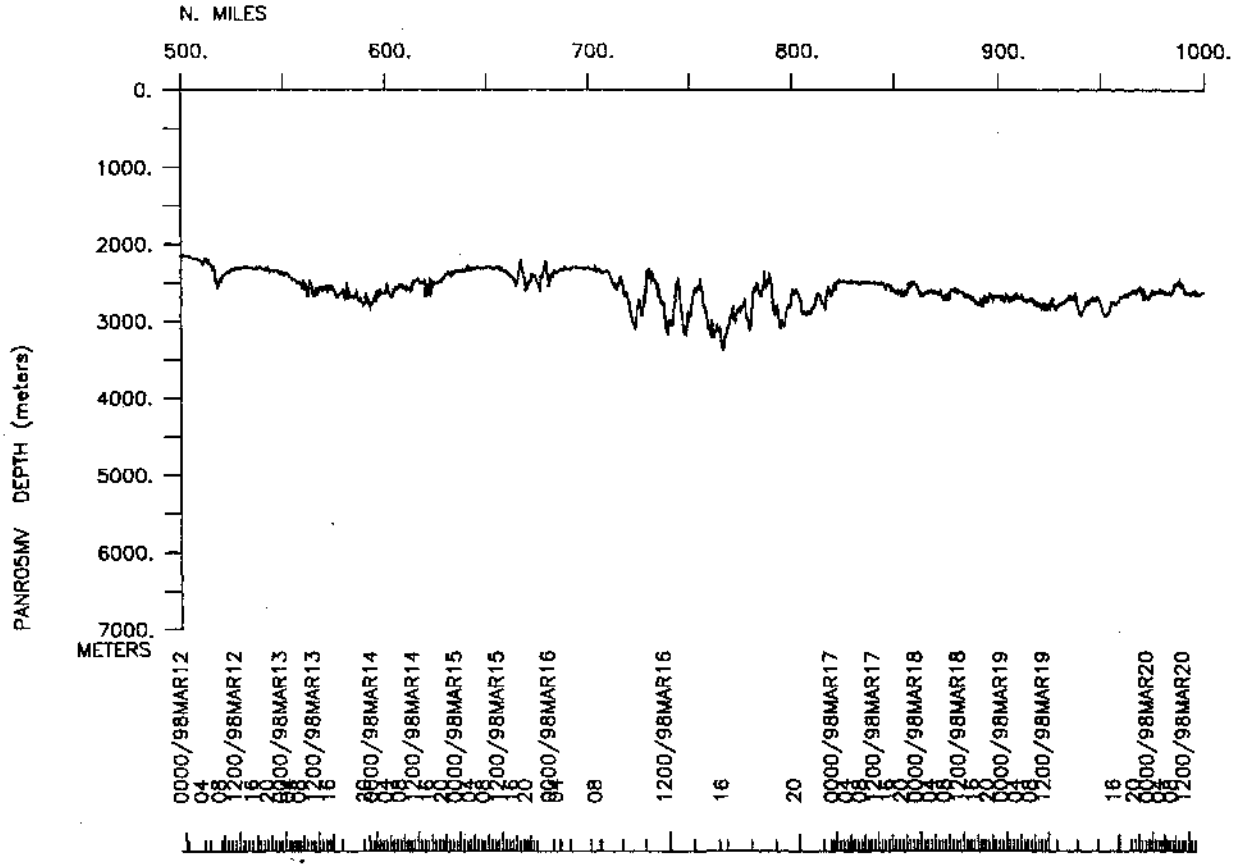
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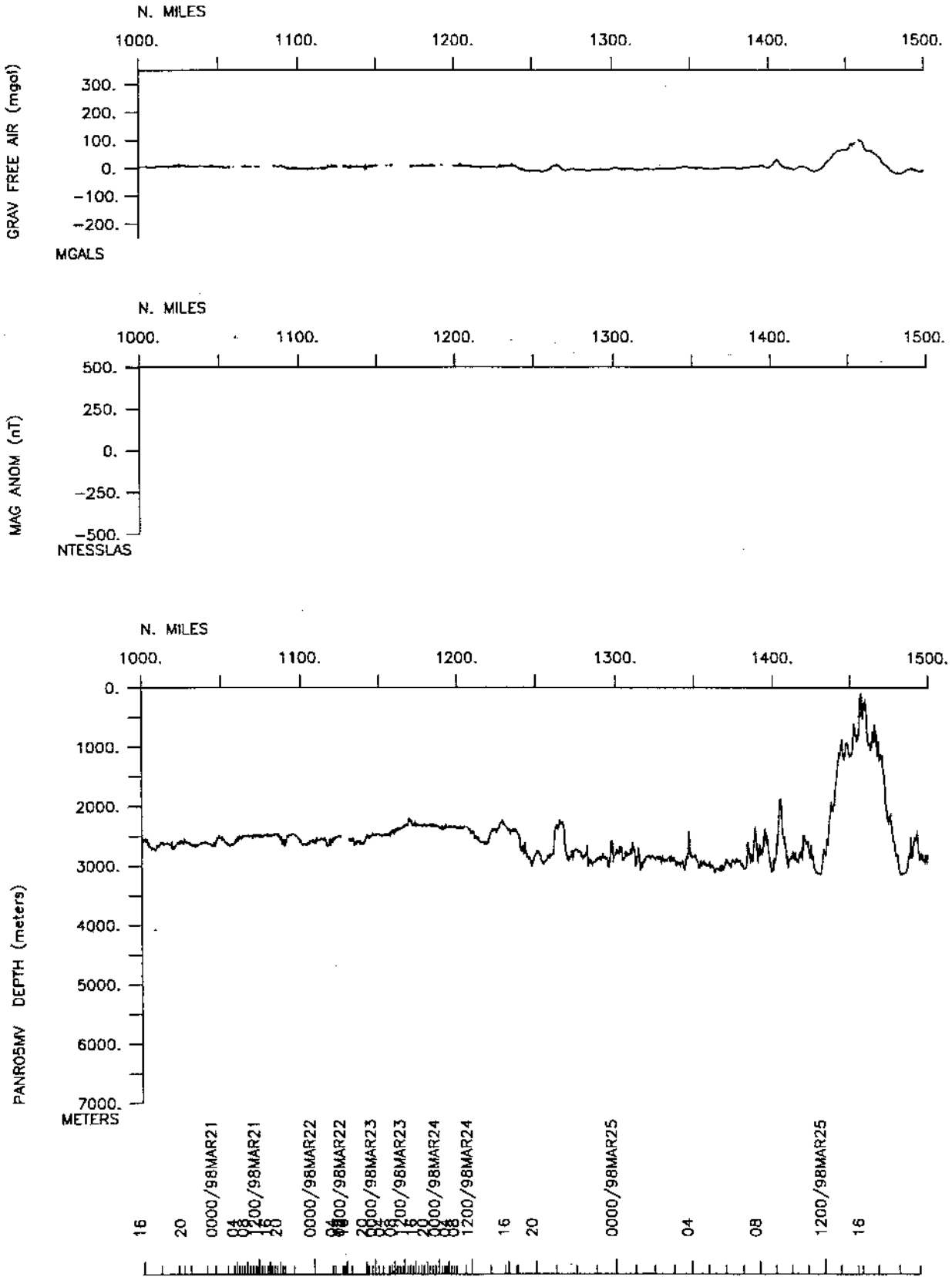
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4000.
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6000.
7000.
METERS
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20
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04
08
1200/98MAR21
16
20
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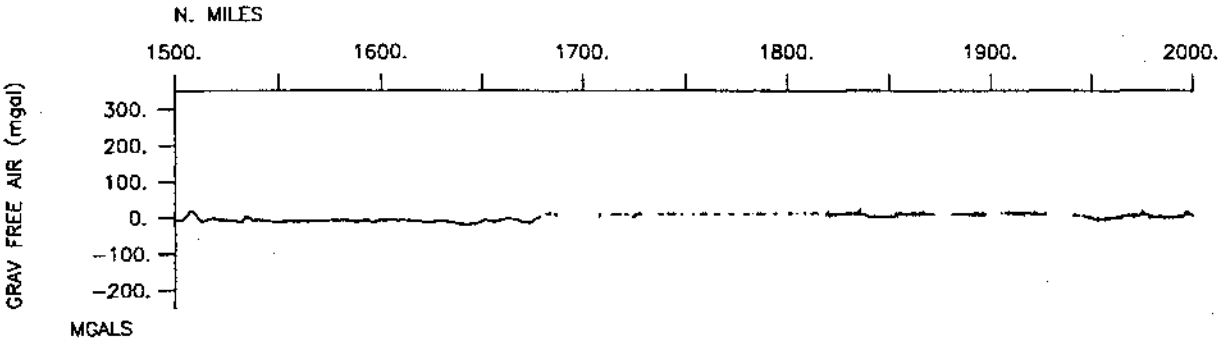
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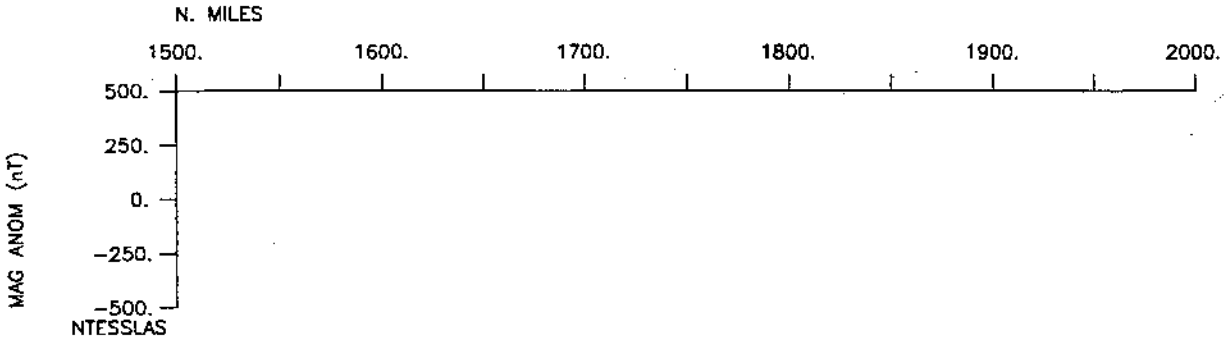
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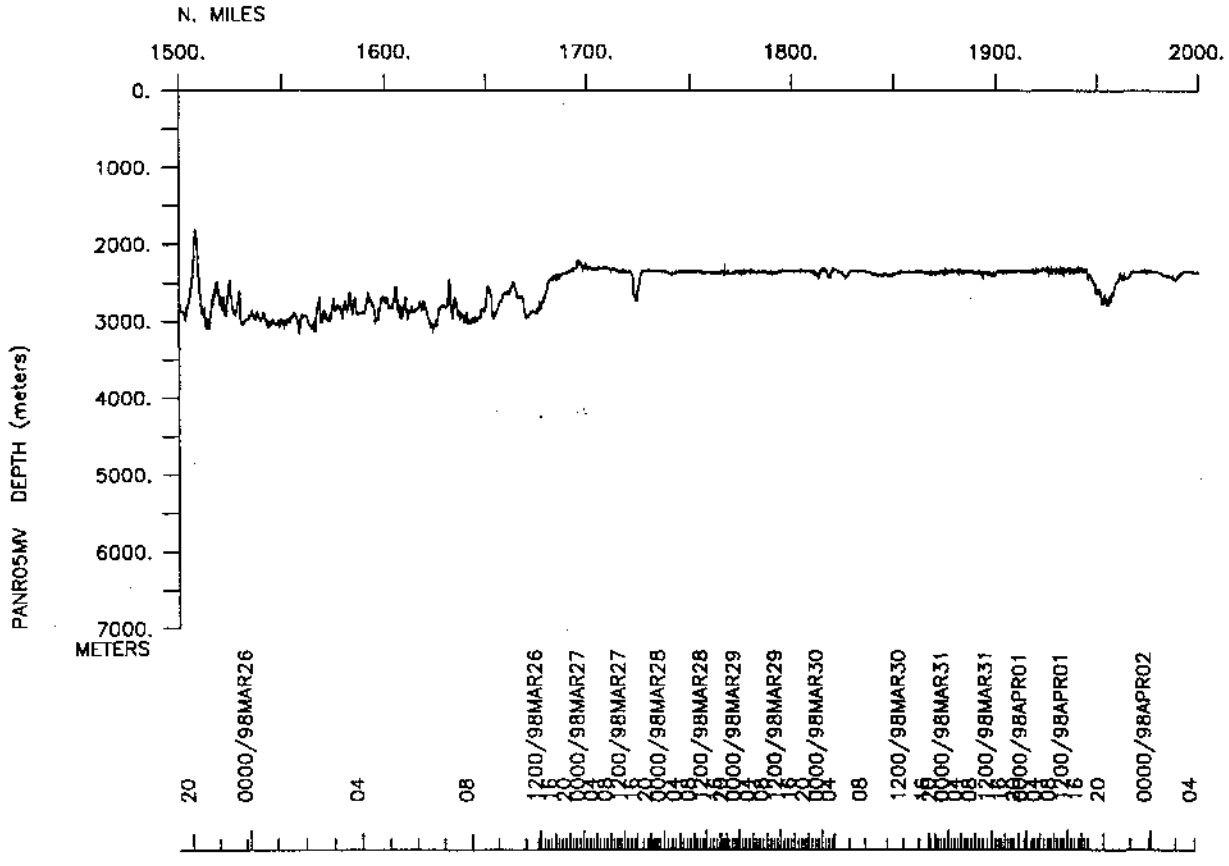
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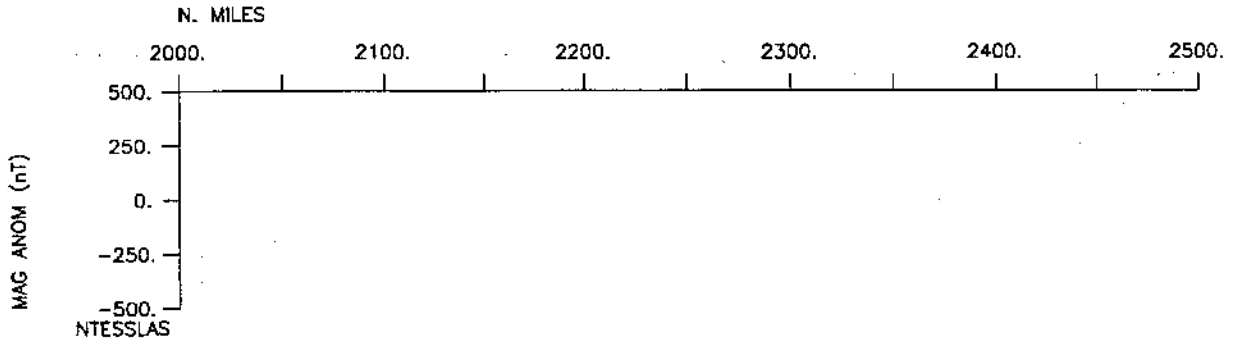
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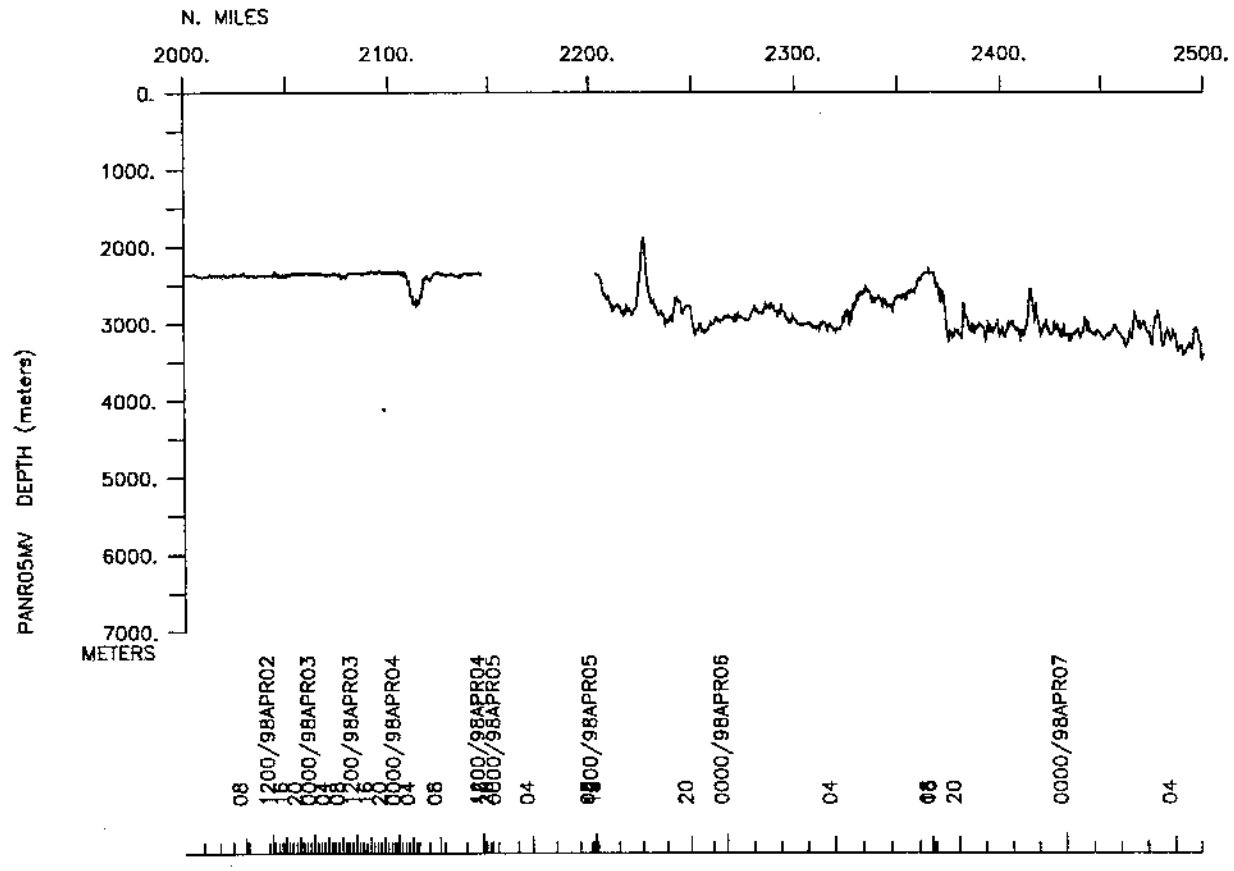
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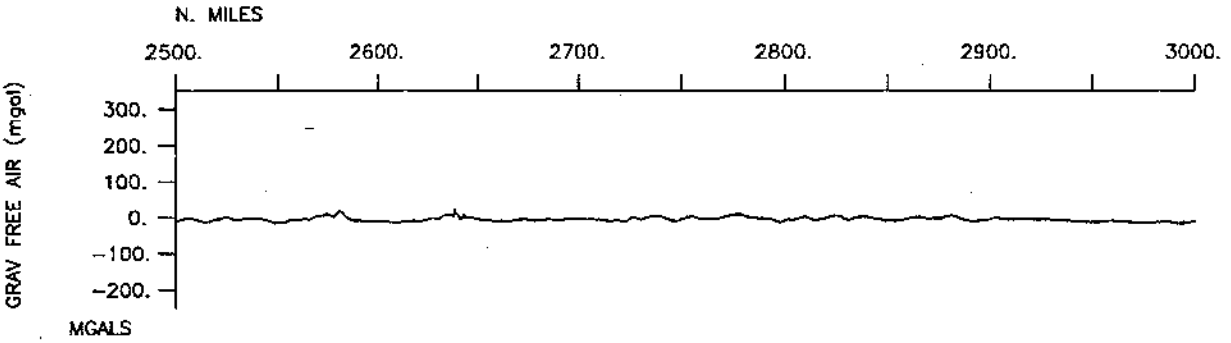
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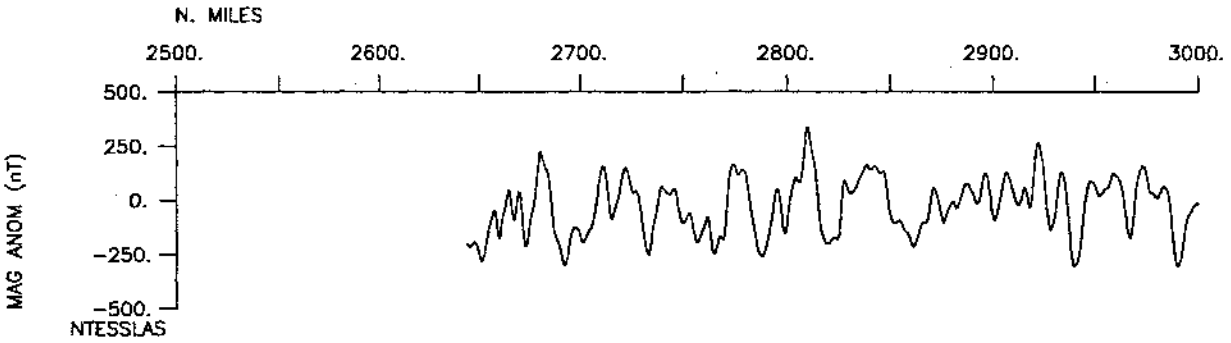
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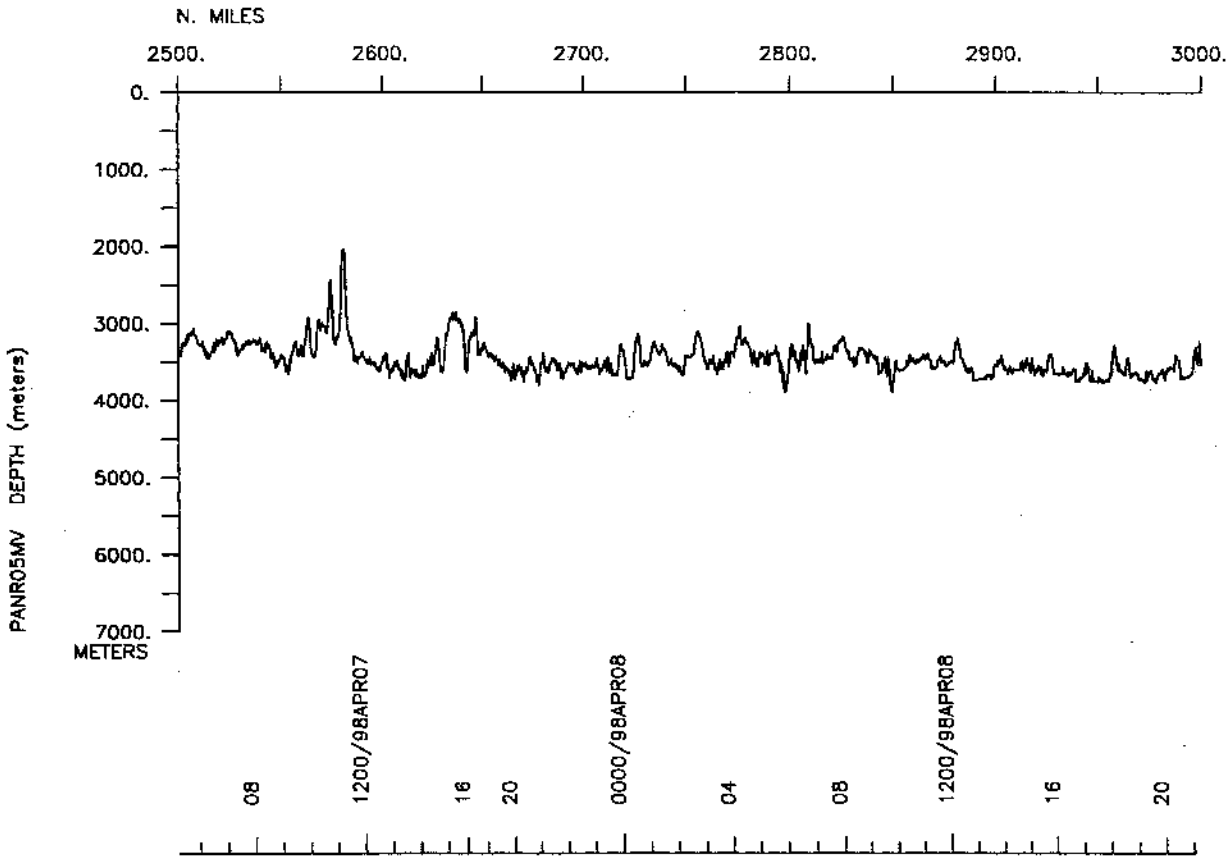
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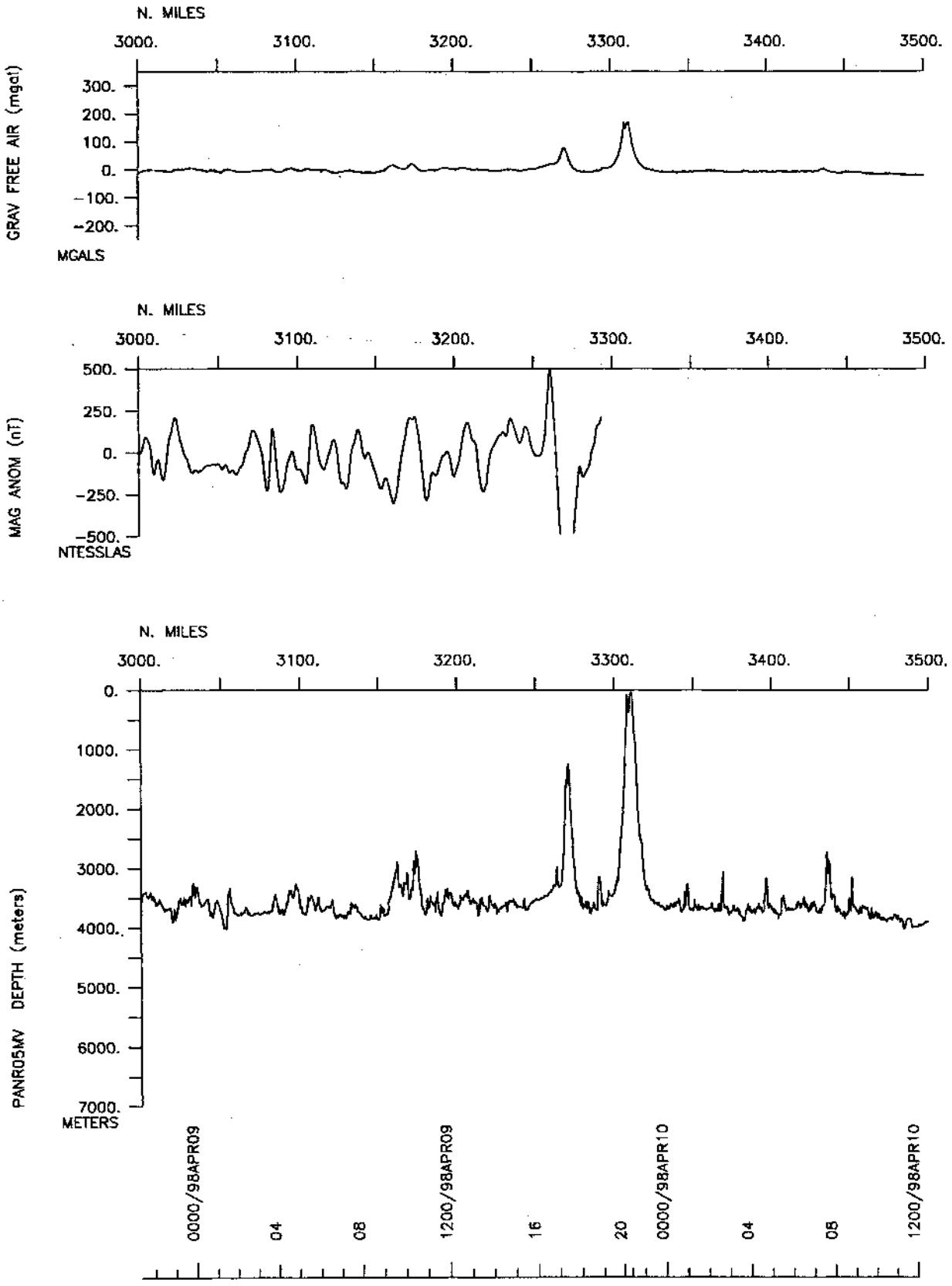
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3400.
3500.
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3200.
3300.
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3500.
PANR05MV DEPTH (meters)
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2000.
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5000.
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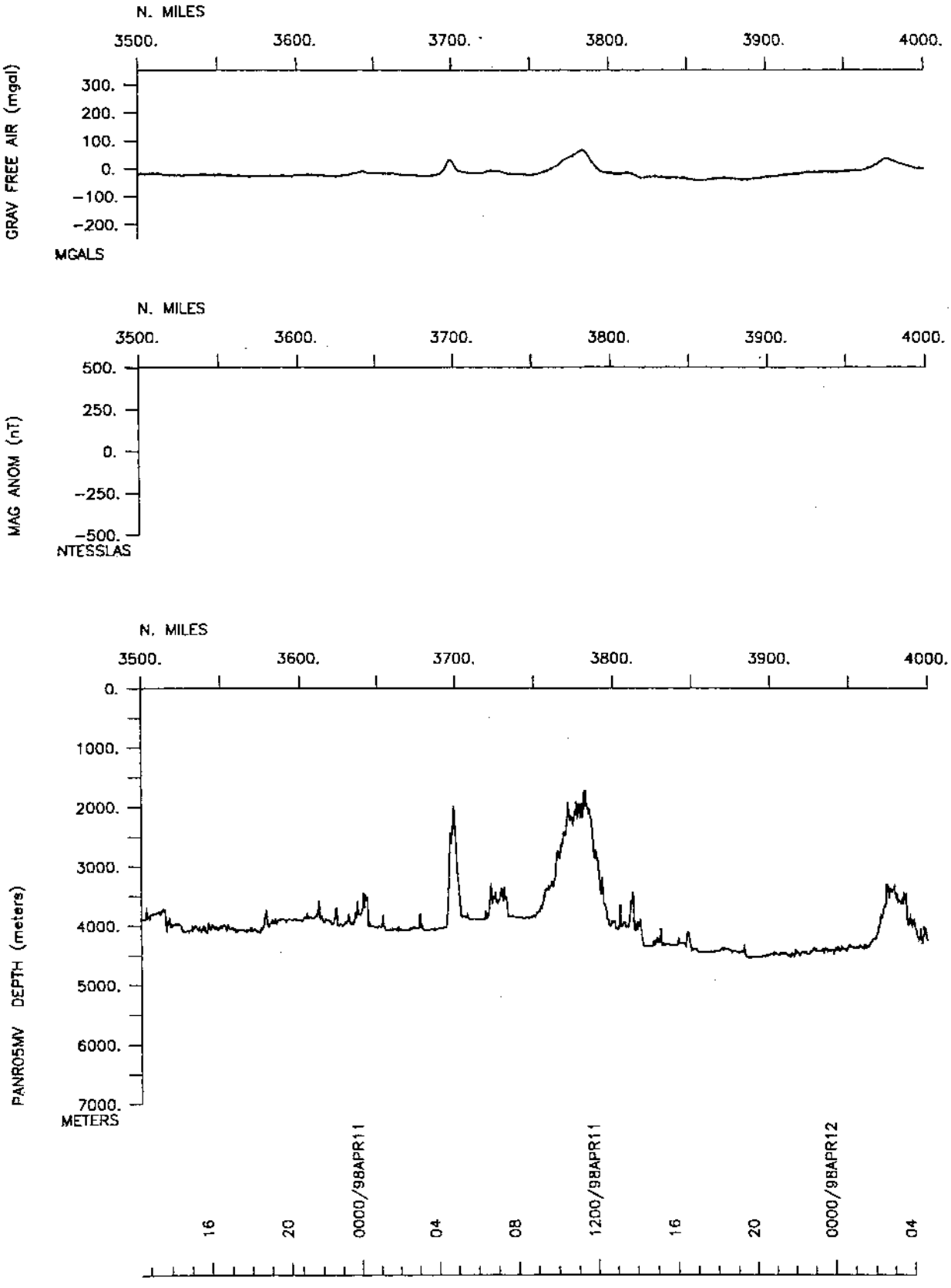
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MGALS
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NTESSLAS
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2000.
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METERS
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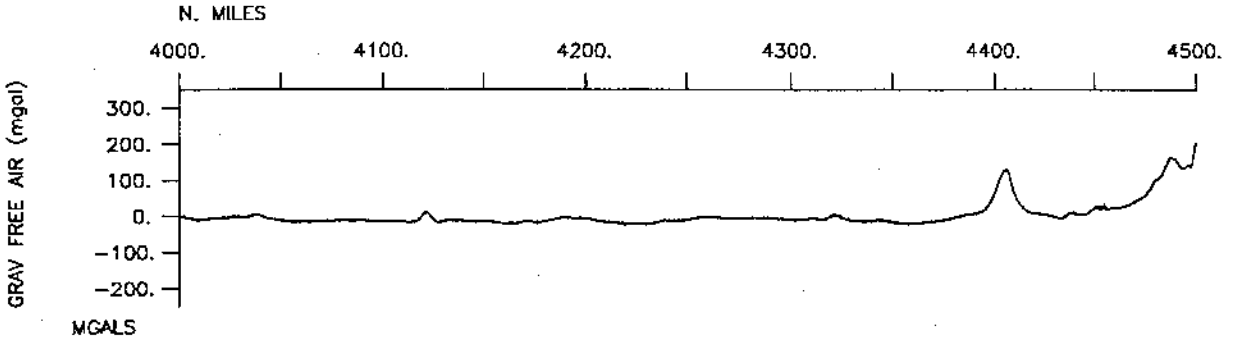
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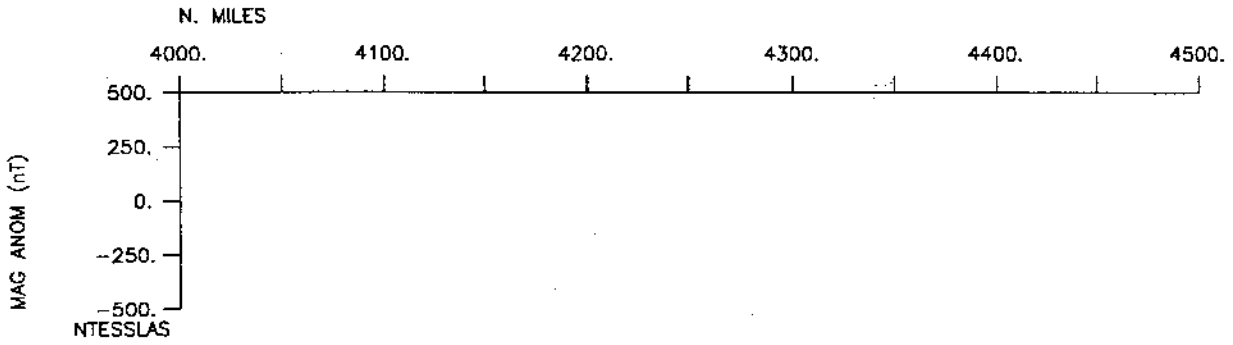
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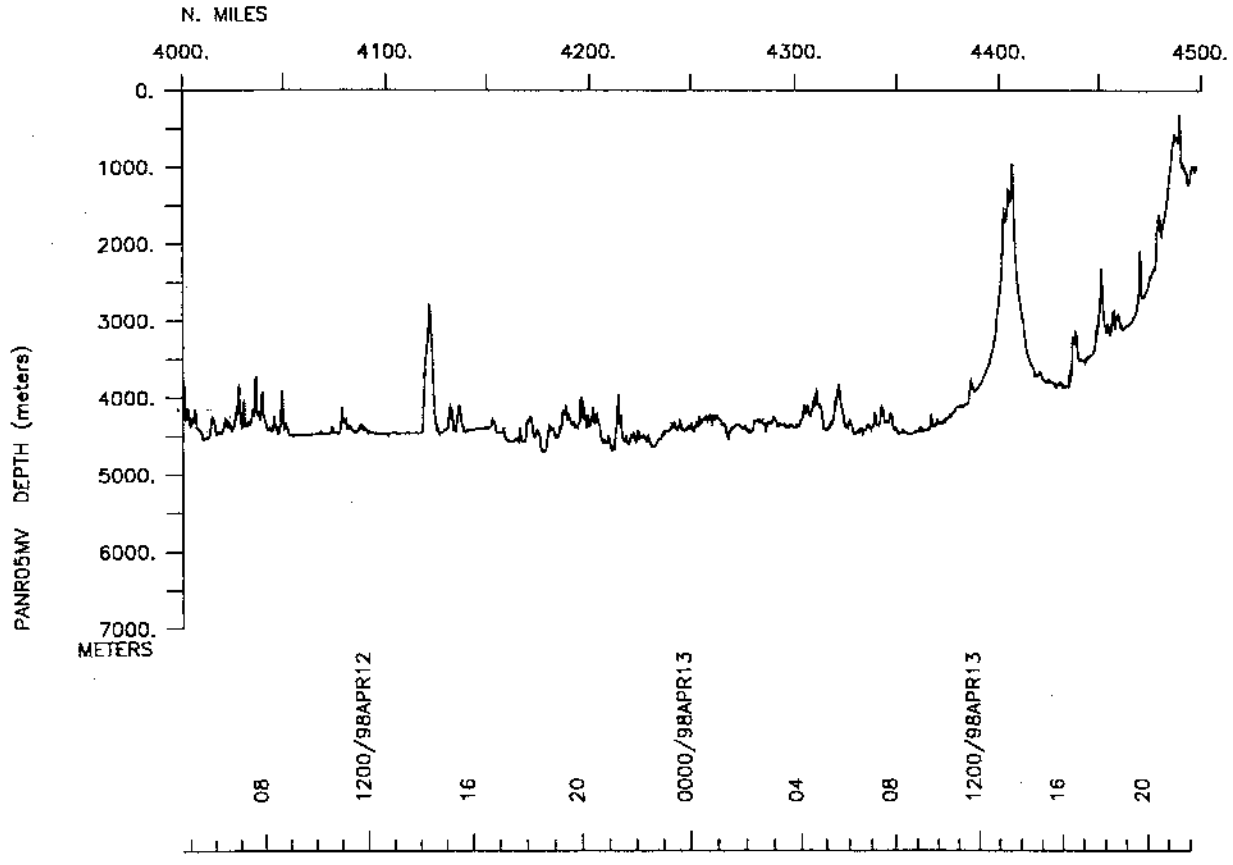
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3000.
4000.
5000.
6000.
7000.
METERS
08
1200/98APR12
16
20
0000/98APR13
04
08
1200/98APR13
16
20

S.I.O. SAMPLE INDEX

PANORAMA EXPEDITION

LEG 5

(PANR05MV)

R/V Melville

(Issued June 1998)

PORTS:

Easter Island (5 March 1998)

to

Papeete, Tahiti (13 April 1998)

Chief Scientist:

Richard Hey (University of Hawaii)

The Sample Index is a first level interdisiplinary listing of time, position, samplè 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.# 278

#*** Ports ***

2352	050398	LGPT	B	Easter Island, Chile	27-09.00S	109-27.00W	f PANR05MV
2200	130498	LGPT	E	Papeete, Tahiti	17-32.00S	149-34.00W	f PANR05MV
1837	090498	LGSS	B	Pitcairn Island	25-04.00S	130-05.00W	f PANR05MV
2224	090498	LGSS	E	Pitcairn Island	25-04.00S	130-05.00W	f PANR05MV

#*** Personnel ***

#	********NAME********	******TITLE******	*****AFFILIATION****	**CRID**
PECS UHI	Hey, R.	Chief Scientist	Univ. of Hawaii	PANR05MV
PECT STS	Charters, J.	Computer tech	Scripps Institution	PANR05MV
PERT STS	Wilson, R.	Resident tech	Scripps Institution	PANR05MV
PESP NOAA	Baker, E.	Scientist	NOAA	PANR05MV
PEST SIX	Bohnenstiehl, D.	Student	Vanderbuilt	PANR05MV
PESP WHOI	Crook, T.	Technician	Woods Hole	PANR05MV
PEST SIX	Davis, M.	Student	U. of South Florida	PANR05MV
PESP NOAA	Freely, R.	Scientist	NOAA	PANR05MV
PESP WHOI	Gegg, S.	Technician	Woods Hole	PANR05MV
PESP NOAA	Gendron, J.	Scientist	NOAA	PANR05MV
PEST UHI	Gharib, J.	Student	Univ. of Hawaii	PANR05MV
PESP WHOI	Gleason, D.	Technician	Woods Hole	PANR05MV
PESP SIX	Kleinrock, M.	Scientist	Vanderbuilt	PANR05MV
PESP UWA	Lebon, G.	Technician	Univ. of Washington	PANR05MV
PESP NOAA	Maenner, S.	Scientist	NOAA	PANR05MV
PESP NOAA	Massoth, G.	Scientist	NOAA	PANR05MV
PESP UHI	Martinez, F.	Scientist	Univ. of Hawaii	PANR05MV
PESP SIX	Naar, D.	Scientist	U. of South Florida	PANR05MV
PESP WHOI	Naiman, M.	Technician	Woods Hole	PANR05MV
PESP WHOI	Norby, E.	Technician	Woods Hole	PANR05MV
PEST UHI	Pardee, D.B.	Student	Univ. of Hawaii	PANR05MV
PEST UHI	Pardee, D.A.	Student	Univ. of Hawaii	PANR05MV
PESP NOAA	Resing, J.	Scientist	NOAA	PANR05MV
PESP CHL	Rodrigo, C.	Scientist	CHILE	PANR05MV
PESP UHI	Sansome, F.	Scientist	Univ. of Hawaii	PANR05MV
PESP NOAA	Tennant, D.	Scientist	NOAA	PANR05MV
PESP WHOI	Varnum, J.	Technician	Woods Hole	PANR05MV
PESP NOAA	Walker, S.	Technician	NOAA	PANR05MV

#*** 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 DDMMYY #TIME DATE TZ	SAMP CODE	B E	SAMPLE IDENTIFIER	DISP CODE	LATITUDE	LONGITUDE	p c	CRUISE LEG-SHIP
#*** Underway Data Curator - S. M. Smith ext. 42752 ***								
#*** Log Books ***								
0100 060398 0	LBUW	B	Underway log book	GDC	27-09.77S	109-42.70W	g	PANR05MV
0224 040498 0	LBUW	E	Underway log book	GDC	32-14.68S	112-06.30W	g	PANR05MV
0343 100398 0	LBSC	B	NOAA Log Book	NOAA	27-59.74S	112-54.44W	g	PANR05MV
1653 070498 0	LBSC	E	NOAA Log Book	NOAA	27-38.93S	118-02.79W	g	PANR05MV
1545 060398 0	LBSC	B	WHOI Nav Log	WHO	27-27.93S	113-00.07W	g	PANR05MV
1900 070498 0	LBSC	E	WHOI Nav Log	WHO	27-36.73S	118-13.40W	g	PANR05MV
1530 060398 0	LBSC	B	Watch Leader's Log	UHI	27-28.01S	112-59.97W	g	PANR05MV
1900 070498 0	LBSC	E	Watch Leader's Log	UHI	27-36.73S	118-13.40W	g	PANR05MV
#*** Sea Beam Records (vertical beam and side scan) ***								
2352 050398 0	MBSR	B	v.beam&sscan DIGITAL	GDC	27-08.37S	109-26.82W	g	PANR05MV
2200 130498 0	MBSR	E	v.beam&sscan	GDC	17-28.73S	149-31.84W	g	PANR05MV
#*** Digital Magnetics (Earth Total Field) ***								
1830 070498 0	MGDR	B	Magnetics	GDC	27-38.24S	118-05.94W	g	PANR05MV
1900 090498 0	MGDR	E	Magnetics	GDC	25-06.63S	129-48.48W	g	PANR05MV
#*** Digital Gravity ***								
1830 070498 0	GVDR	B	Gravity	GDC	27-38.24S	118-05.94W	g	PANR05MV
2200 130498 0	GVDR	E	Gravity	GDC	17-28.73S	149-31.84W	g	PANR05MV
#*** Towed Bottom Camera ***								
1130 110398 0	CATB	B	Towed Camera	WHO	28-05.20S	112-54.15W	g	PANR05MV
1955 110398 0	CATB	E	Towed Camera	WHO	28-04.75S	112-54.97W	g	PANR05MV
0945 220398 0	CATB	B	Towed Camera	WHO	29-47.63S	111-43.70W	g	PANR05MV
1810 220398 0	CATB	E	Towed Camera	WHO	29-47.30S	111-43.87W	g	PANR05MV
1231 040498 0	CATB	B	Towed Camera	WHO	31-48.54S	112-02.60W	g	PANR05MV
2100 040498 0	CATB	E	Towed Camera	WHO	31-51.91S	112-02.08W	g	PANR05MV
0706 050498 0	CATB	B	Towed Camera	WHO	31-09.75S	111-55.99W	g	PANR05MV
1540 050498 0	CATB	E	Towed Camera	WHO	31-09.42S	111-55.90W	g	PANR05MV
0753 060498 0	CATB	B	Towed Camera	WHO	28-43.40S	112-59.49W	g	PANR05MV
1900 060498 0	CATB	E	Towed Camera	WHO	28-43.42S	112-59.49W	g	PANR05MV

#GMT DDMMYY #TIME DATE	TZ	SAMP CODE	B E	SAMPLE IDENTIFIER	DISP CODE	LATITUDE	LONGITUDE	p c	CRUISE LEG-SHIP
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#*** Deep Tow Survey employing MAPR **									
1813 060398	0	DTWS	B	DSL/MAPR 120 W3	WHO	27-29.91S	113-00.22W	g	PANR05MV
1653 080398	0	DTWS	E	DSL/MAPR 120 W3	WHO	28-30.52S	112-56.62W	g	PANR05MV
1930 130398	0	DTWS	B	DSL/MAPR120 45W4A/B	WHO	29-27.84S	112-45.92W	g	PANR05MV
2150 150398	0	DTWS	E	DSL/MAPR120 45W4A/B	WHO	28-18.47S	112-48.00W	g	PANR05MV
2156 160398	0	DTWS	B	DSL/MAPR 120 46 E1	WHO	30-11.79S	111-46.32W	g	PANR05MV
1215 190398	0	DTWS	E	DSL/MAPR 120 46 E1	WHO	28-33.38S	112-08.78W	g	PANR05MV
1131 260398	0	DTWS	B	DSL/MAPR 120 47 E2	WHO	30-04.80S	111-51.35W	g	PANR05MV
1615 270398	0	DTWS	E	DSL/MAPR 120 47 E2	WHO	30-41.74S	111-55.17W	g	PANR05MV
1922 280398	0	DTWS	B	DSL/MAPR 120 48 E3	WHO	31-21.79S	111-58.19W	g	PANR05MV
0408 300398	0	DTWS	E	DSL/MAPR 120 48 E3	WHO	30-30.69S	111-47.12W	g	PANR05MV
1149 020498	0	DTWS	B	DSL/MAPR 120 49 E4	WHO	31-10.08S	111-56.98W	g	PANR05MV
0614 040498	0	DTWS	E	DSL/MAPR 120 49 E4	WHO	32-18.89S	112-05.96W	g	PANR05MV
#*** Temperature, Conductivity, Depth ***									
1910 080398	0	TDCT		V98A-01 Test cast	NOAA	28-30.51S	112-56.64W	g	PANR05MV
0411 090398	0	TDCT	B	T98A-02	NOAA	27-29.21S	112-57.65W	g	PANR05MV
2257 090398	0	TDCT	E	TSONIC Q W	NOAA	27-58.18S	112-54.73W	g	PANR05MV
0018 100398	0	TDCT	B	T98A-03	NOAA	27-56.67S	112-54.71W	g	PANR05MV
1853 100398	0	TDCT	E	TSONIC Q W	NOAA	28-28.37S	112-54.51W	g	PANR05MV
2334 100398	0	TDCT		V98A-02	NOAA	27-52.78S	112-54.72W	g	PANR05MV
0246 110398	0	TDCT		V98A-03	NOAA	27-42.48S	112-55.58W	g	PANR05MV
0613 110398	0	TDCT		V98A-04	NOAA	27-35.00S	112-56.89W	g	PANR05MV
2142 110398	0	TDCT		V98A-05	NOAA	28-00.80S	112-54.30W	g	PANR05MV
0052 120398	0	TDCT		V98A-06	NOAA	28-05.00S	112-54.40W	g	PANR05MV
0406 120398	0	TDCT		V98A-07	NOAA	28-13.46S	112-54.49W	g	PANR05MV
0647 120398	0	TDCT	B	T98A-04	NOAA	28-20.31S	112-57.00W	g	PANR05MV
0110 130398	0	TDCT	E	TSONIC Q W	NOAA	28-53.08S	112-58.81W	g	PANR05MV
0309 130398	0	TDCT	B	T98A-05	NOAA	28-53.98S	112-58.68W	g	PANR05MV
1700 130398	0	TDCT	E	TSONIC Q W	NOAA	29-12.50S	112-53.32W	g	PANR05MV
2348 150398	0	TDCT		V98A-08	NOAA	28-21.68S	112-57.29W	g	PANR05MV
0300 160398	0	TDCT		V98A-09	NOAA	28-24.69S	112-57.99W	g	PANR05MV
0731 160398	0	TDCT		V98A-10	NOAA	28-43.45S	112-59.45W	g	PANR05MV
1525 160398	0	TDCT		V98A-11	NOAA	29-30.00S	112-18.00W	g	PANR05MV
1709 190398	0	TDCT	B	T98A-06	NOAA	29-08.79S	111-48.99W	g	PANR06MV
1452 200398	0	TDCT	E	TSONIC Q W	NOAA	29-39.84S	111-43.76W	g	PANR05MV
1920 200398	0	TDCT		V98A-12	NOAA	29-09.81S	111-48.30W	g	PANR05MV
2344 200398	0	TDCT		V98A-13	NOAA	29-28.80S	111-44.50W	g	PANR05MV
0223 210398	0	TDCT	B	T98A-07	NOAA	29-39.89S	111-43.83W	g	PANR05MV
2220 210398	0	TDCT	E	TSONIC Q W	NOAA	30-11.71S	111-46.13W	g	PANR05MV
0243 220398	0	TDCT		V98A-14	NOAA	29-43.29S	111-43.56W	g	PANR05MV
0536 220398	0	TDCT		V98A-15	NOAA	29-47.69S	111-43.70W	g	PANR05MV
2107 220398	0	TDCT		V98A-16	NOAA	30-00.20S	111-45.05W	g	PANR05MV
0009 230398	0	TDCT		V98A-17	NOAA	30-03.50S	111-45.40W	g	PANR05MV
0323 230398	0	TDCT		V98A-18	NOAA	30-08.10S	111-45.85W	g	PANR05MV

#GMT TIME	DDMMYY DATE	TZ	SAMP CODE	B E	SAMPLE IDENTIFIER	DISP CODE	LATITUDE	LONGITUDE	p c	CRUISE LEG-SHIP
0453	230398	0	TDCT	B	T98A-08	NOAA	30-04.68S	111-45.51W	g	PANR05MV
0758	240398	0	TDCT	E	TSONIC Q W	NOAA	30-46.16S	111-53.00W	g	PANR05MV
1028	240398	0	TDCT		V98A-19	NOAA	30-41.50S	111-51.80W	g	PANR05MV
1437	240398	0	TDCT		V98A-20	NOAA	30-17.30S	111-45.00W	g	PANR05MV
1740	240398	0	TDCT		V98A-21	NOAA	30-10.49S	111-44.51W	g	PANR05MV
1754	270398	0	TDCT	B	T98A-09	NOAA	30-44.01S	111-52.44W	g	PANR05MV
1611	280398	0	TDCT	E	TSONIC Q W	NOAA	31-20.41S	111-58.28W	g	PANR05MV
0646	300398	0	TDCT		V98A-22	NOAA	30-44.30S	111-52.50W	g	PANR05MV
1034	300398	0	TDCT		V98A-23	NOAA	31-02.11S	111-54.95W	g	PANR05MV
1337	300398	0	TDCT		V98A-24	NOAA	31-09.35S	111-55.80W	g	PANR05MV
1634	300398	0	TDCT		V98A-25	NOAA	31-13.18S	111-57.45W	g	PANR05MV
1945	300398	0	TDCT	B	T98A-10	NOAA	31-15.64S	111-57.06W	g	PANR05MV
1904	310398	0	TDCT	E	TSONIC Q W	NOAA	31-53.50S	112-02.94W	g	PANR05MV
2151	310398	0	TDCT		V98A-26	NOAA	31-48.45S	112-02.40W	g	PANR05MV
0057	010498	0	TDCT	B	T98A-11	NOAA	31-51.42S	112-02.69W	g	PANR05MV
1910	010498	0	TDCT	E	TSONIC Q W	NOAA	32-18.65S	112-08.28W	g	PANR05MV
2237	010498	0	TDCT		V98A-27	NOAA	31-50.50S	112-02.60W	g	PANR05MV
0244	020498	0	TDCT		V98A-28	NOAA	31-29.19S	111-58.68W	g	PANR05MV
0833	020498	0	TDCT		V98A-29	NOAA	31-22.15S	111-57.60W	g	PANR05MV
0827	040498	0	TDCT		V98A-30	NOAA	32-09.45S	112-05.10W	g	PANR05MV
2240	040498	0	TDCT		V98A-31	NOAA	31-54.40S	112-03.10W	g	PANR05MV
0200	050498	0	TDCT		V98A-32	NOAA	31-45.26S	112-01.99W	g	PANR05MV
2208	050498	0	TDCT		V98A-33	NOAA	30-27.00S	112-36.99W	g	PANR05MV
1653	070498	0	TDCT		V98A-34	NOAA	27-38.93S	118-02.79W	g	PANR05MV
#*** Sonobouy Sea Quake Survey ***										
2245	100398	0	SQSV	B	Sonobouy-8 samples	UHI	27-52.78S	112-54.72W	g	PANR05MV
2311	130398	0	SQSV	E	Sonobouy-8 samples	UHI	29-25.55S	112-47.21W	g	PANR05MV
#					End Sample Index					PANR05MV