Report and Index of

Underway Marine Geophysical Data

SOJOURN EXPEDITION

LEG 2

(SOJN02MV)

R/V MELVILLE

(Issued March 1997)

Ports:

Papeete, Tahiti (28 October 1996)

to

Valparaiso, Chile (10 December 1996)

Chief Scientist:

Rachel Haymon (Univ. of Calif. Santa Barbara)

Resident Marine Technician - Gene Pillard

Computer Technician - Todd Porteous

No Seabeam/UW Processor on board

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

Data Collection and Processing Funded by
NSF OCE94-00707

GDC CRUISE I.D.# 269

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 if 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, California 92093-0223.
Phone: (619)534-2752, FAX: (619)534-6500, Internet email: ssmith@ucsd.edu

1. Files on Exabyte or DAT:
   a) Separate time series ASCII files of navigation, single beam depth, gravity and magnetics.
   b) These same data in a merged ASCII file in the MGD77 Exchange Format.
   c) SeaBeam depth data (binary, Sun byte order) in SIO Swath Bathymetry Format. (*)
   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) Echosounder records - 3.5 kHz frequency.
   d) Magnetometer records.
   e) Seismic reflection profiler records.

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

4. Plots:
   a) Copies of archived track plots.
   b) Copies of archived SeaBeam contour plots.
   c) Custom plots in Mercator projection:
      1) Track plots.
      2) SeaBeam depth contour plots.
      3) Depth, magnetic or gravity values printed or profiled along track.

(*) R/V Revelle Seabeam 2100 data available in SB2100 vendor format only, as of October 1996

rev10/96

SIO SEABEAM 2000 DATA INFORMATION

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

1) Hardcopy of realtime contour swath records and records with vertical beam and sidescan grayscale display are available for inspection at the data center.

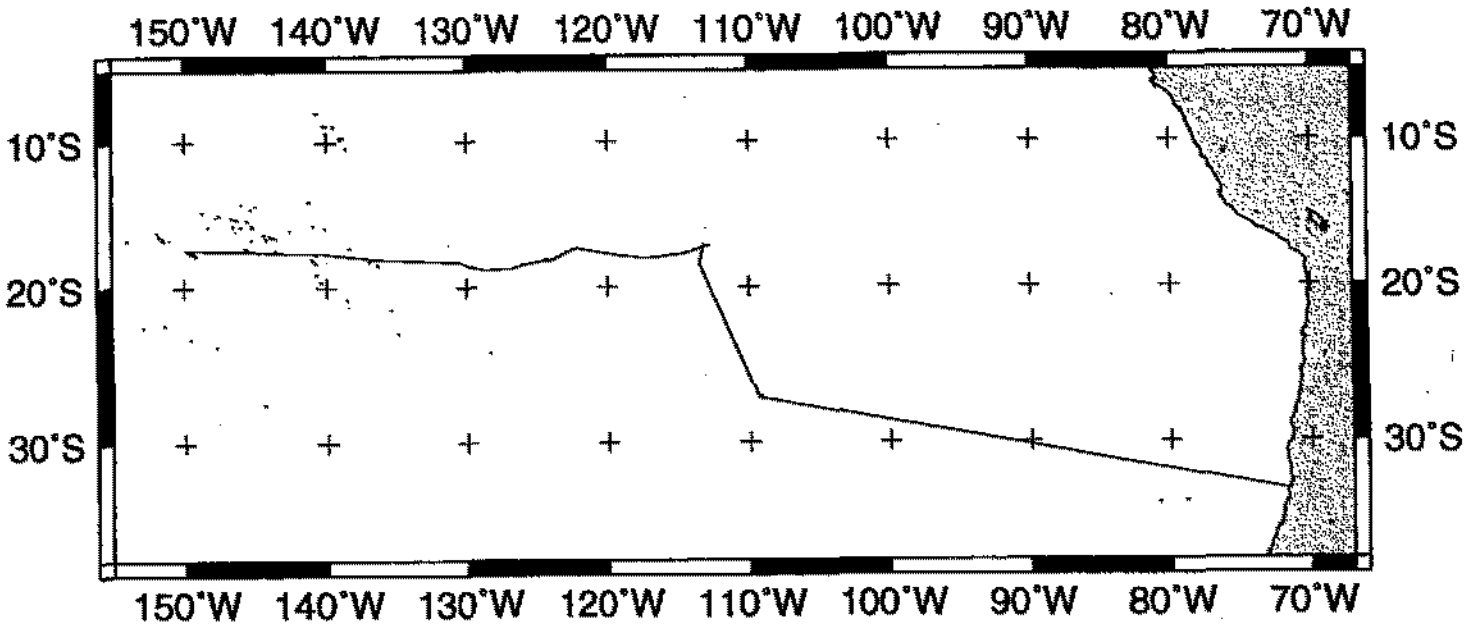
2) Microfilm (35 mm flowfilm) of vertical beam/sidescan records.

3) SeaBeam merged tapes - SeaBeam data merged with GPS-based navigation. (Navigation is edited to the extent that DR courses and speeds are edited and poor fixes are removed after inspection of speeds and drift vectors between fix pairs. No editing is done on the basis of adjusting to overlapping SeaBeam swaths.)

4) Archive contour plots - 8 inches/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.

5) Custom generated plots of SeaBeam 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 September 1995



SOJOURN EXPEDITION LEG 2

CHIEF SCIENTIST: Rachael Haymon, Univ. of Cal. Santa Barbara

PORTS: Papeete, Tahiti - Valparaiso, Chile

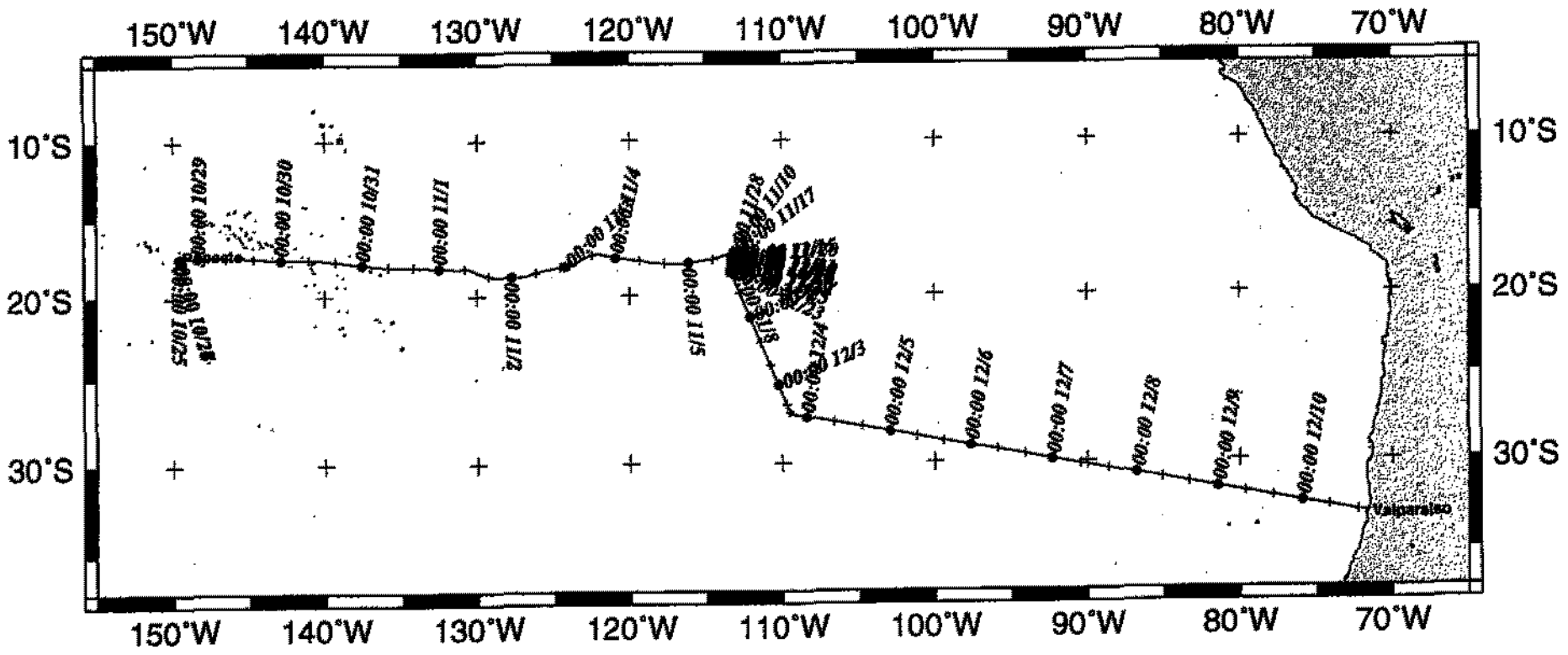
DATES: 28 October - 10 December 1996

SHIP: R/V Melville

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

Cruise - 5669 miles	**Magnetics - 1146 miles**
Bathymetry - 1445 miles	**Seismic Reflection - none collected**
Sea Beam - 1445 miles	**Gravity - 5189 miles**

R/V Melville Sojourn Expedition Leg 02



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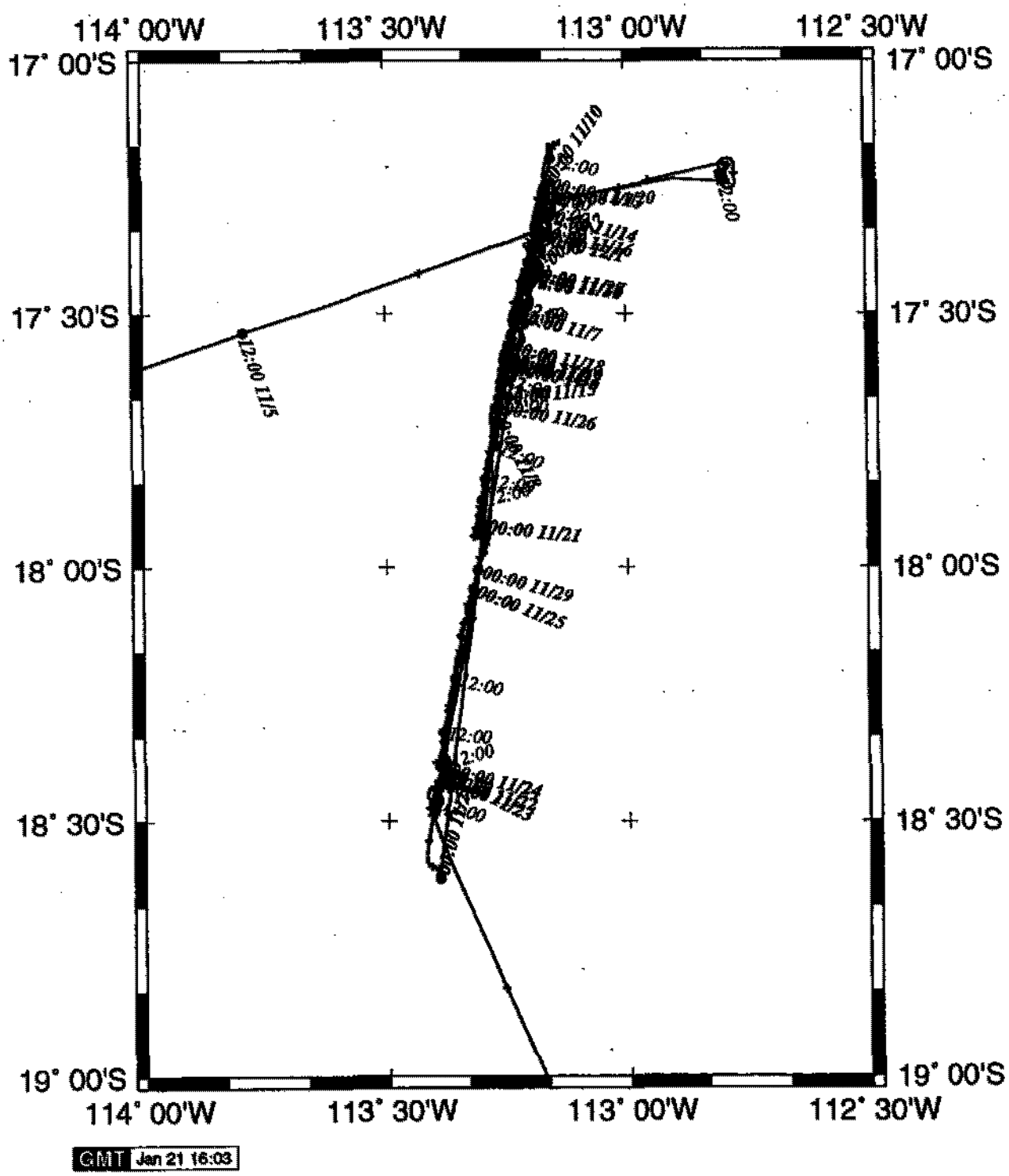

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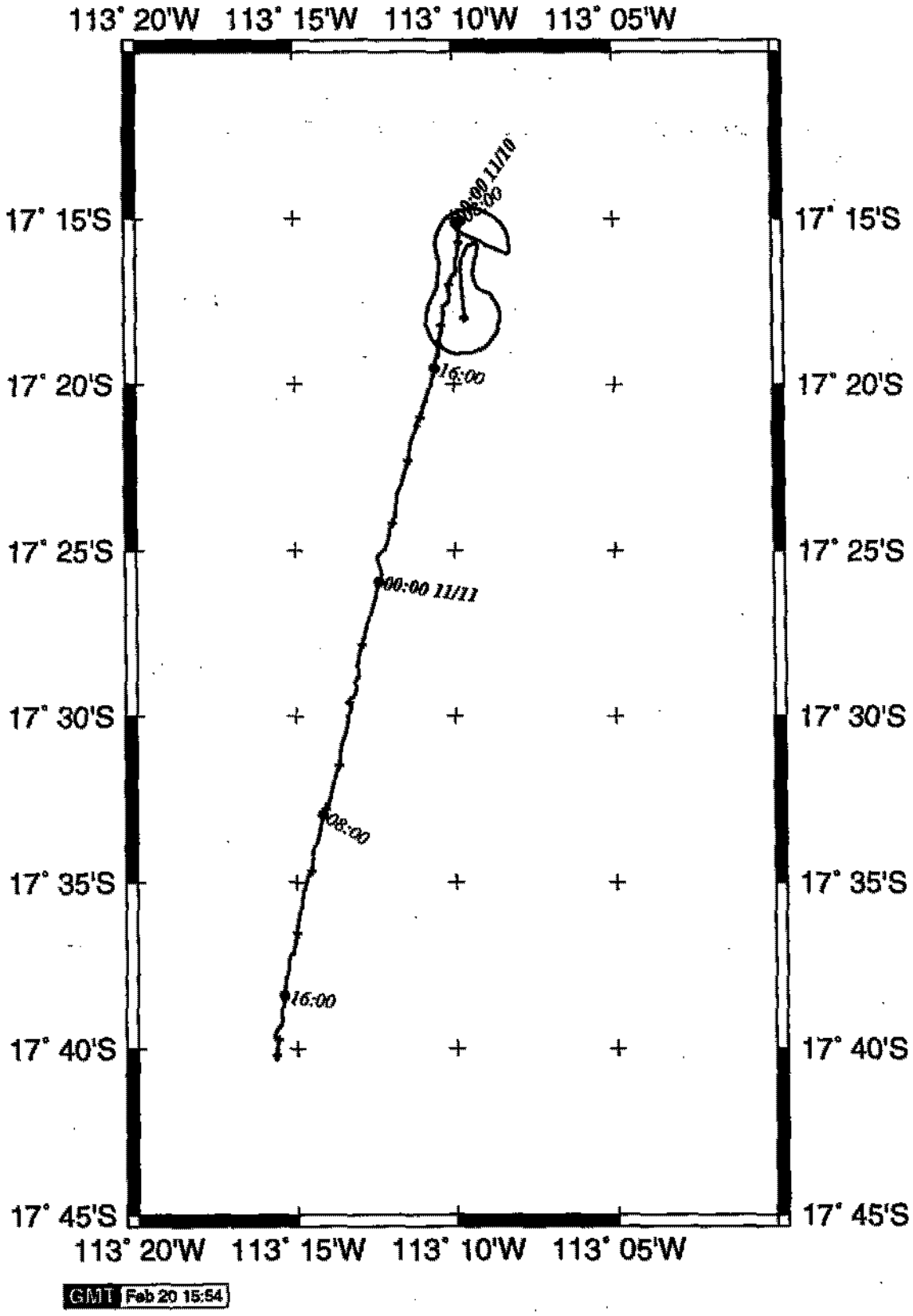

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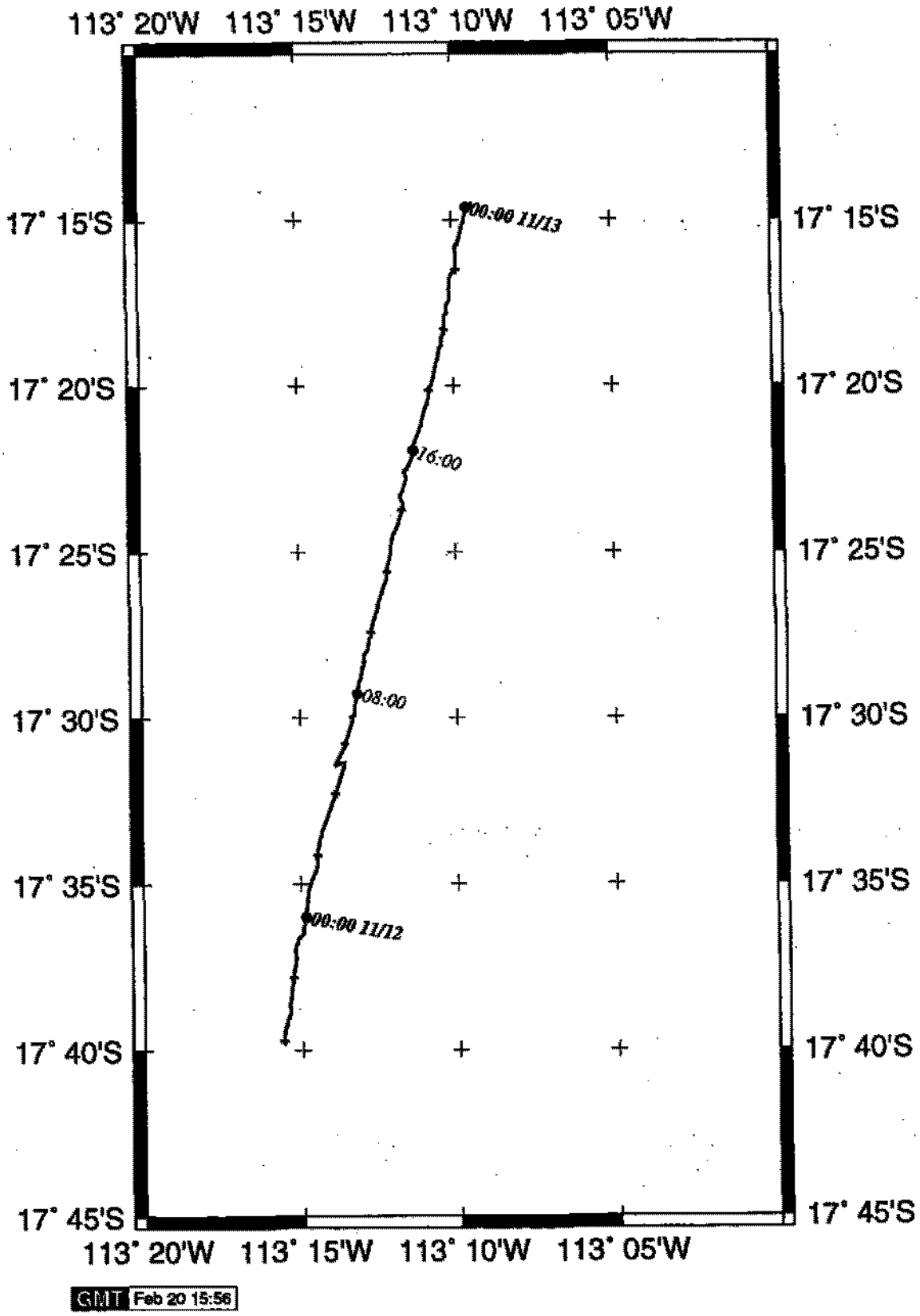

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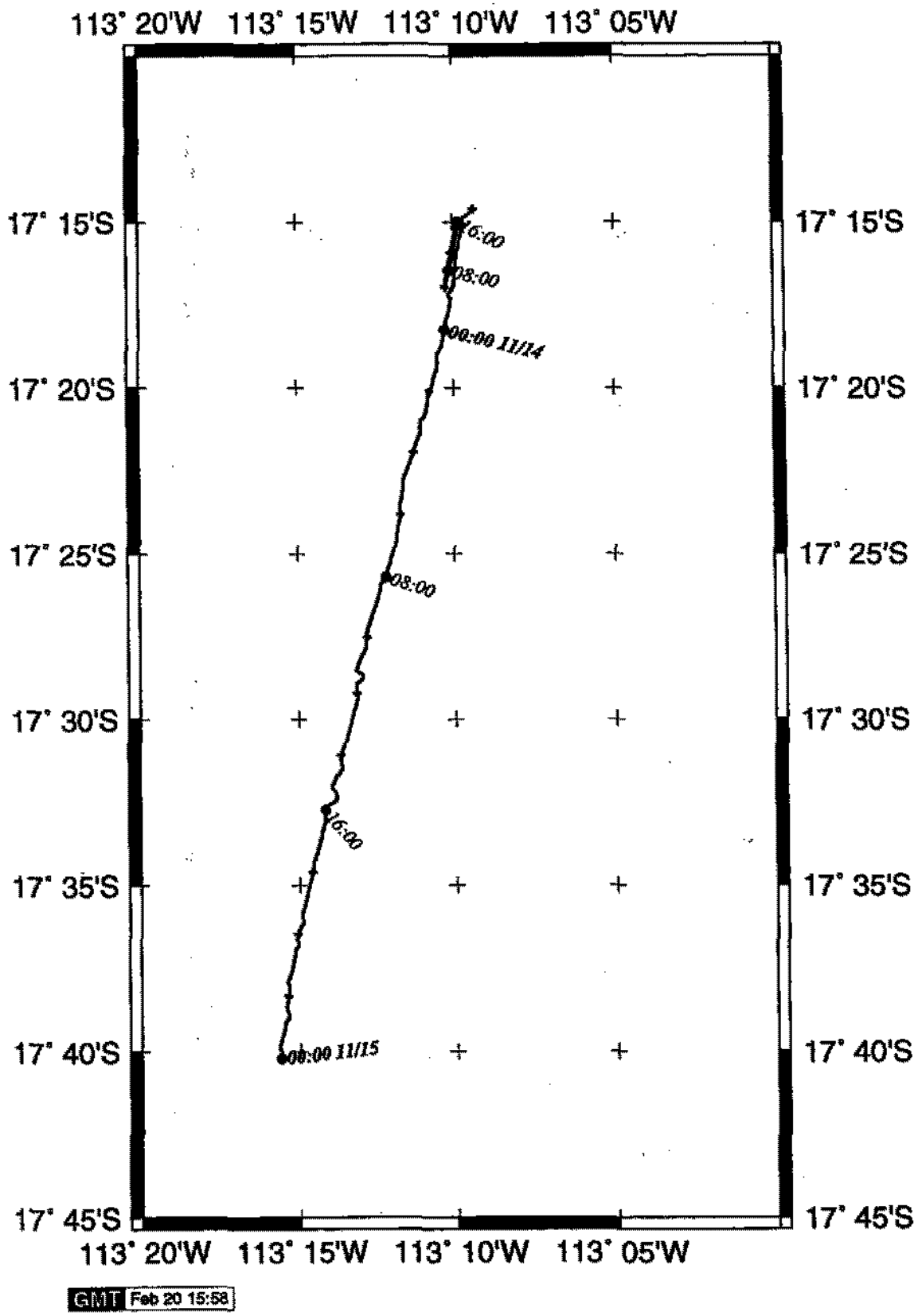

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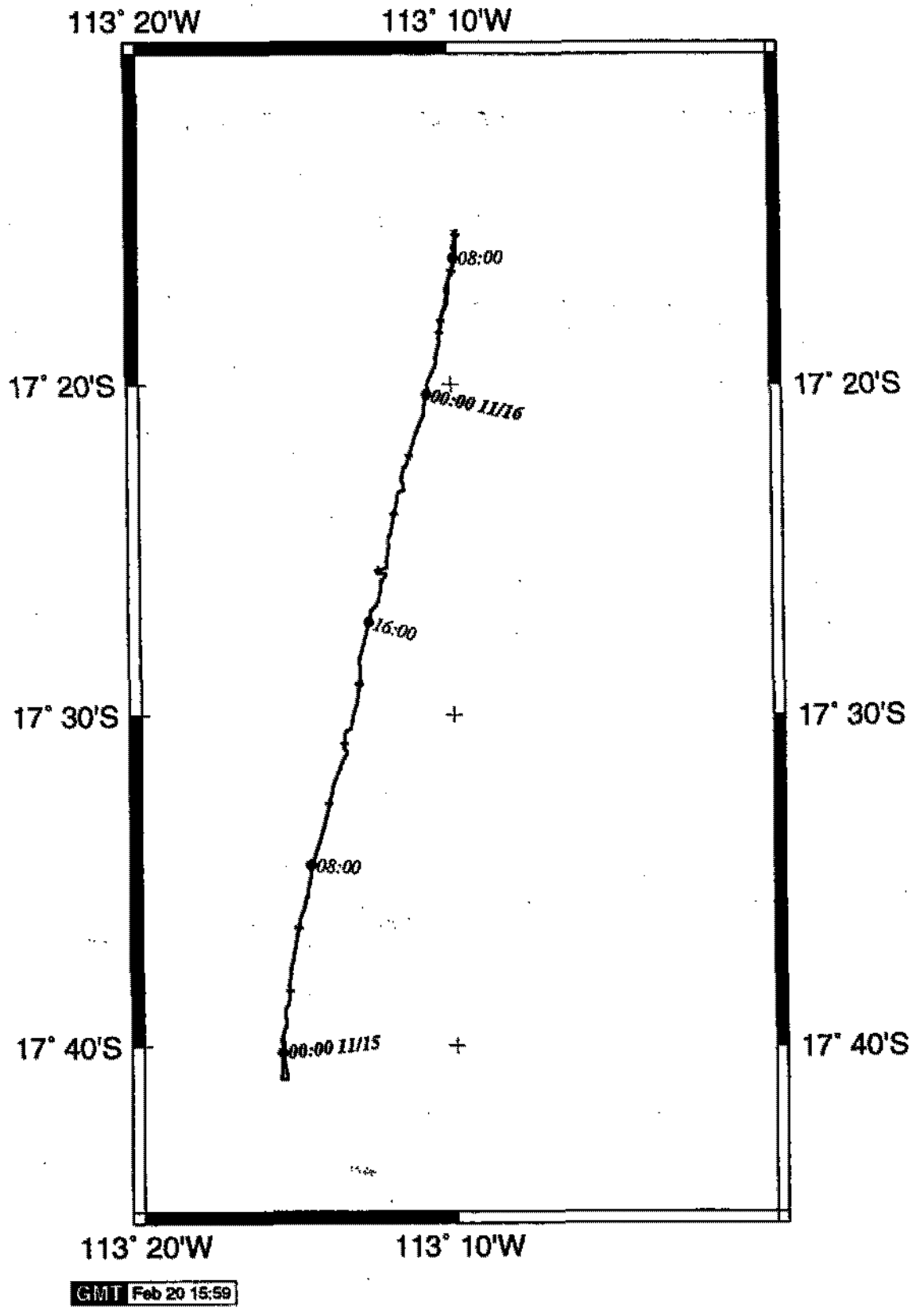

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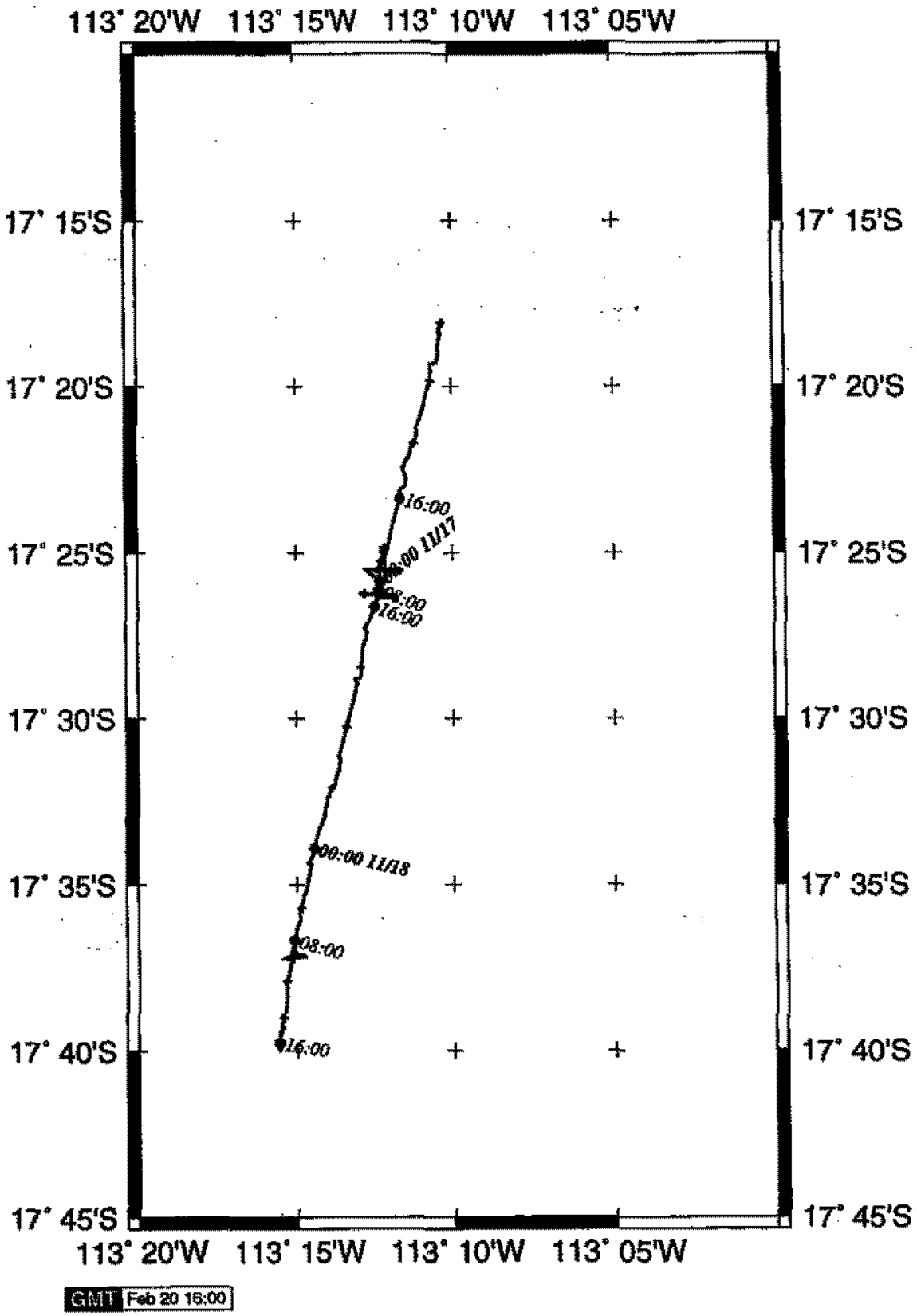

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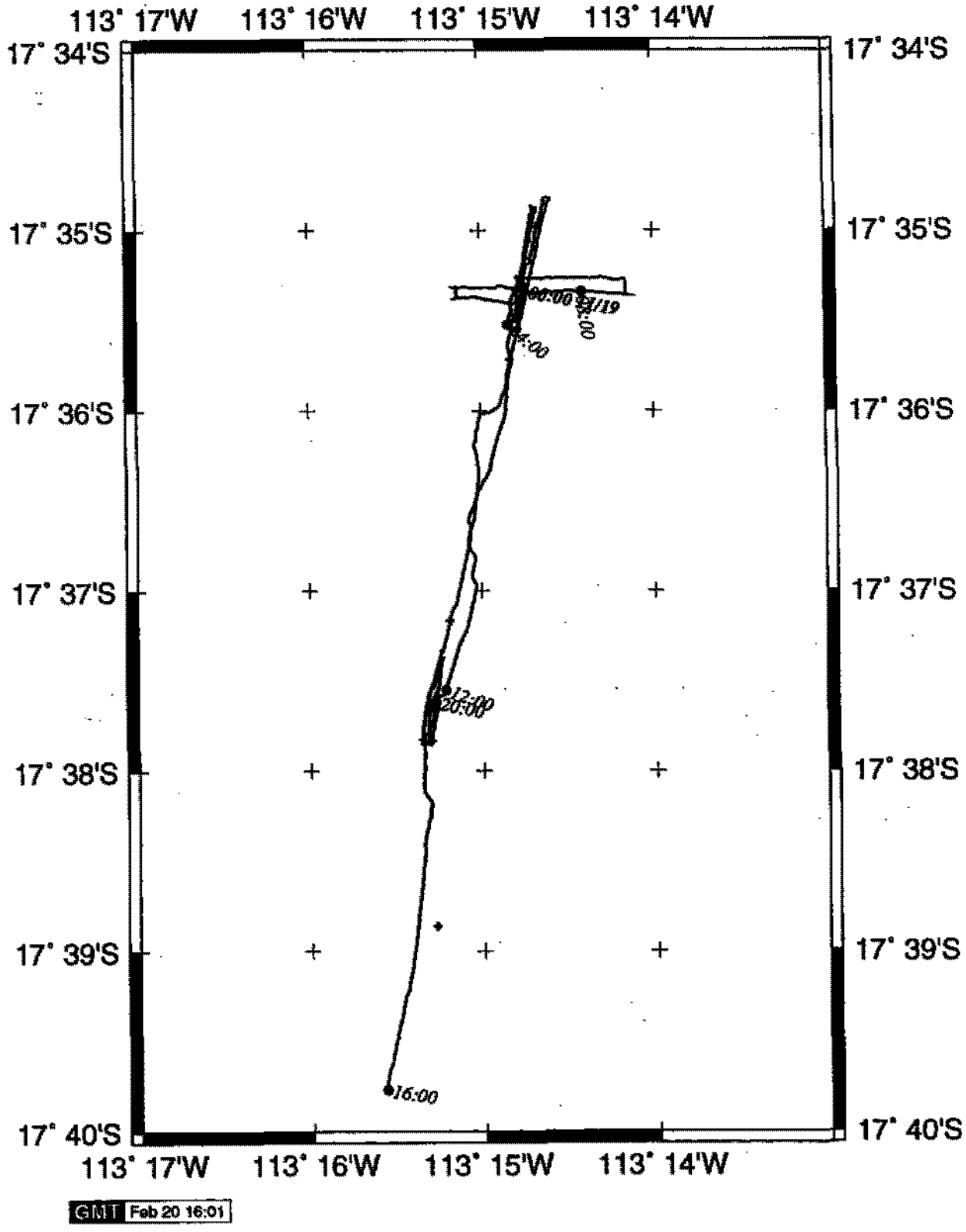

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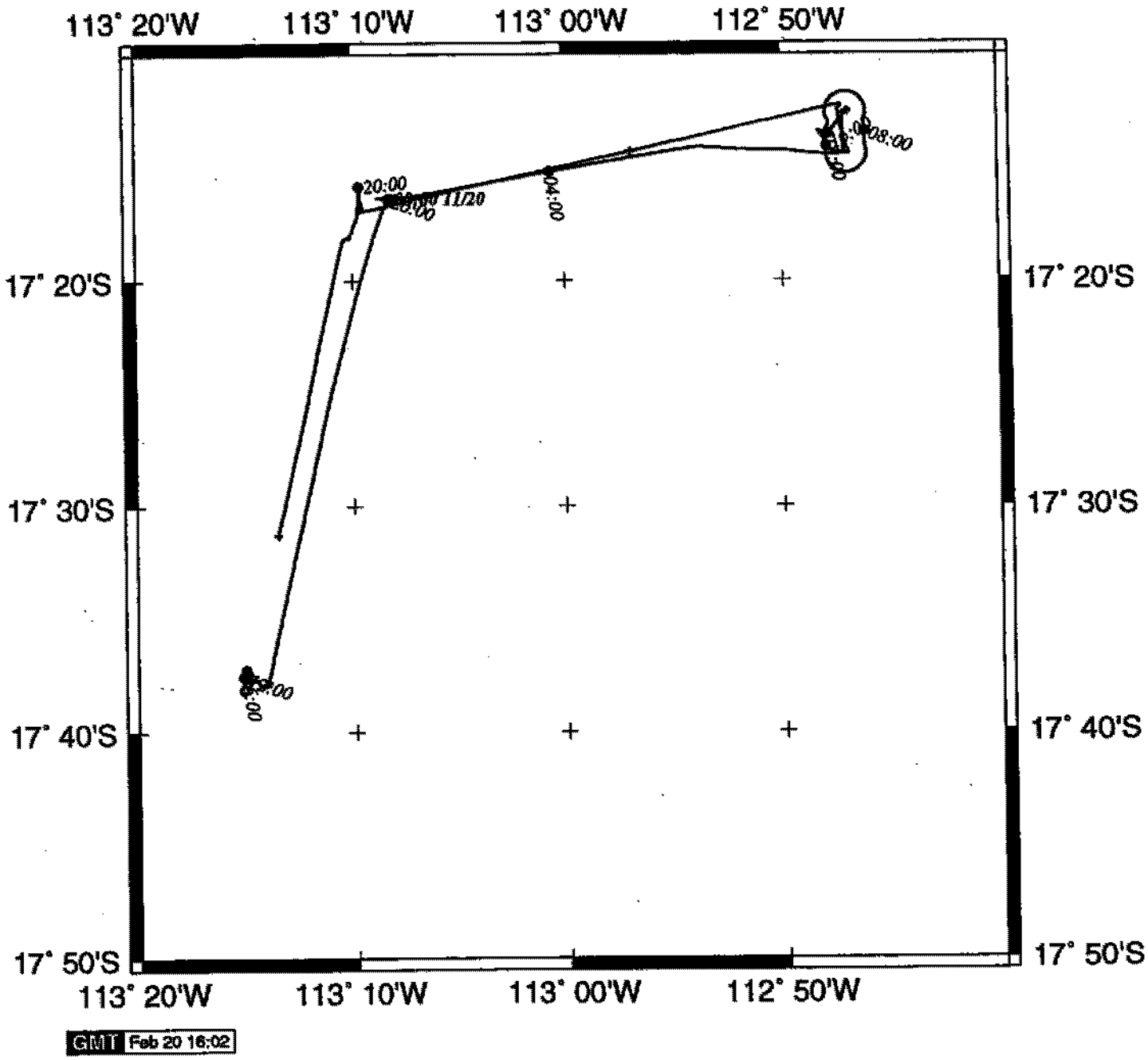

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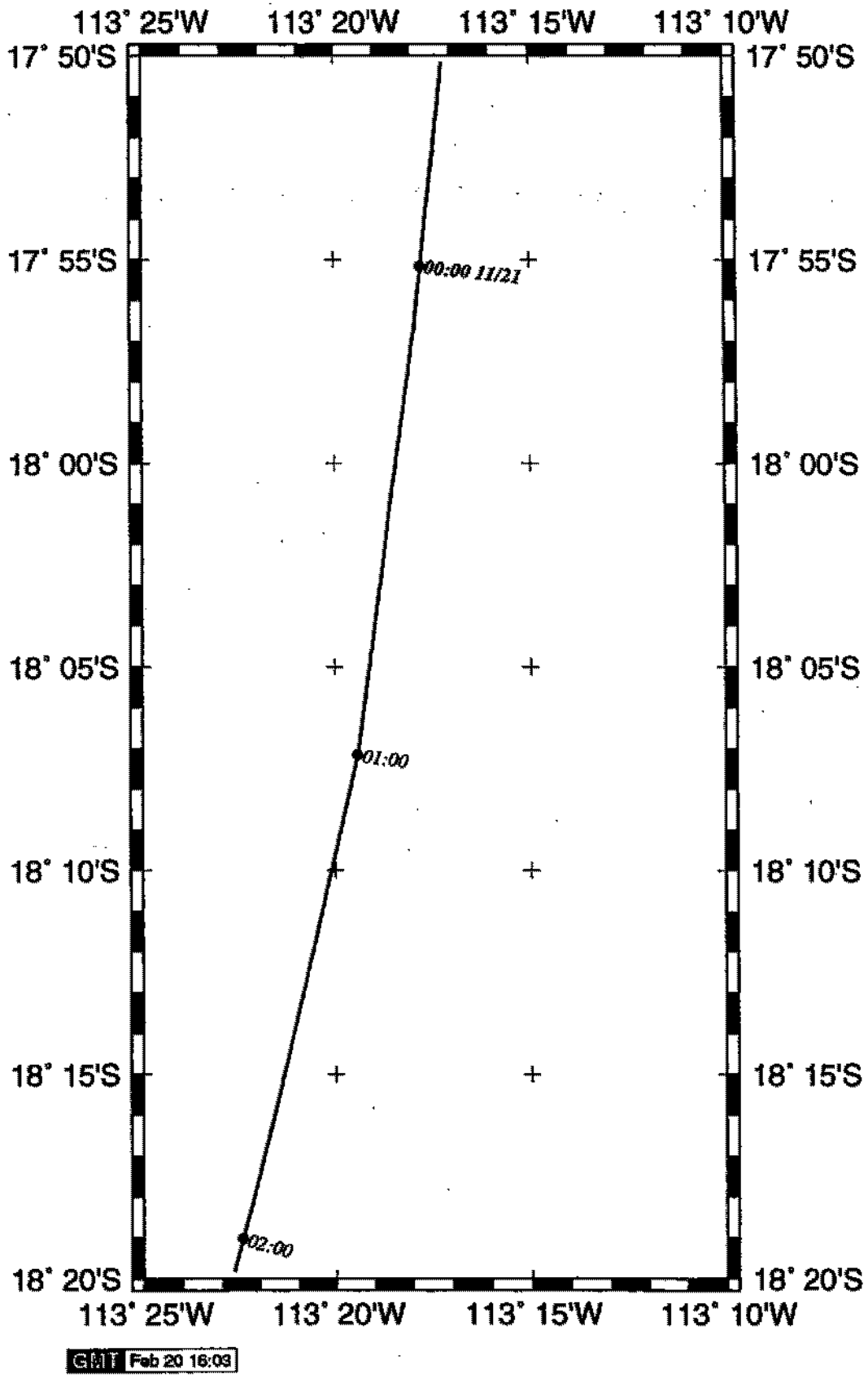

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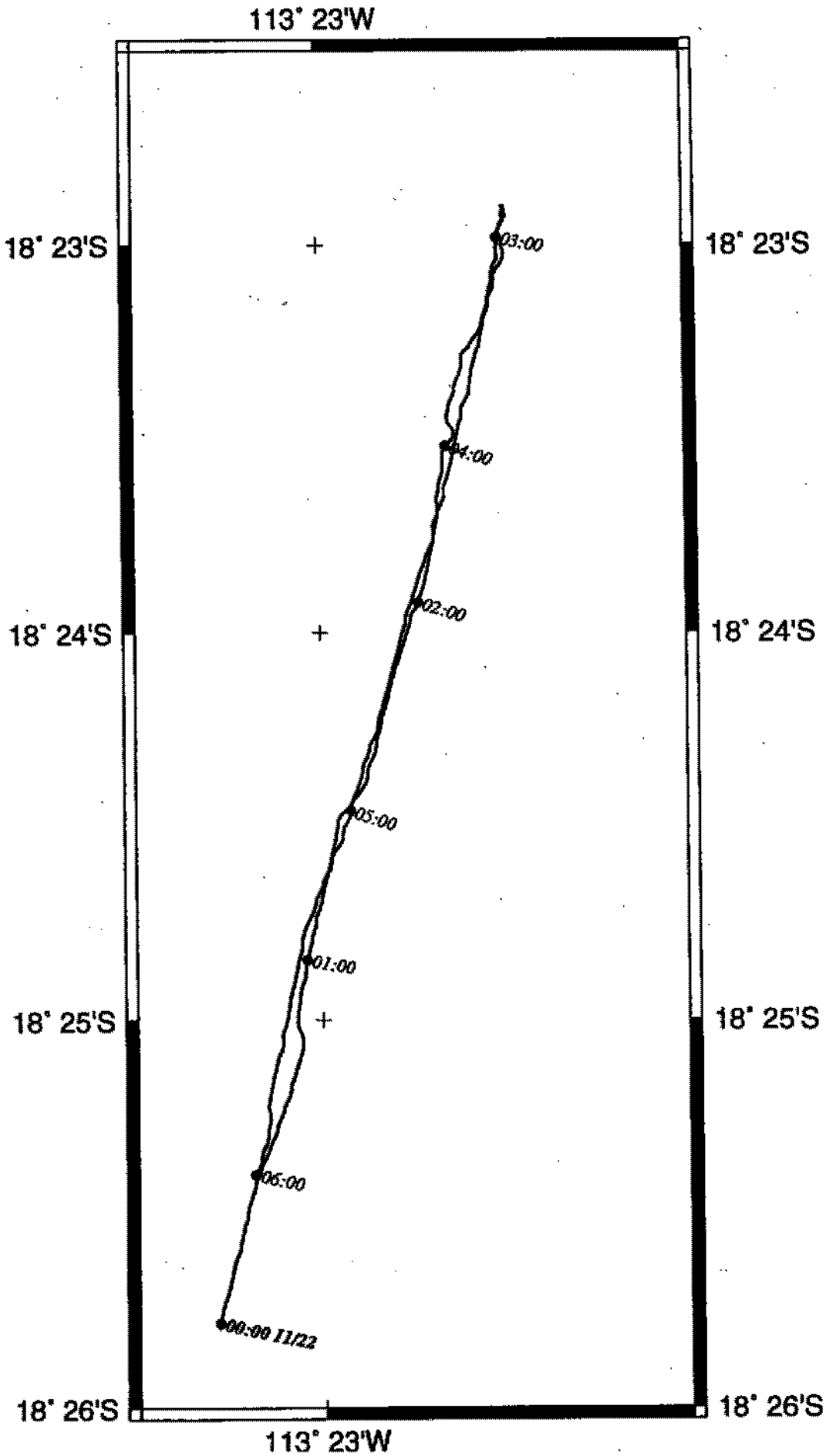

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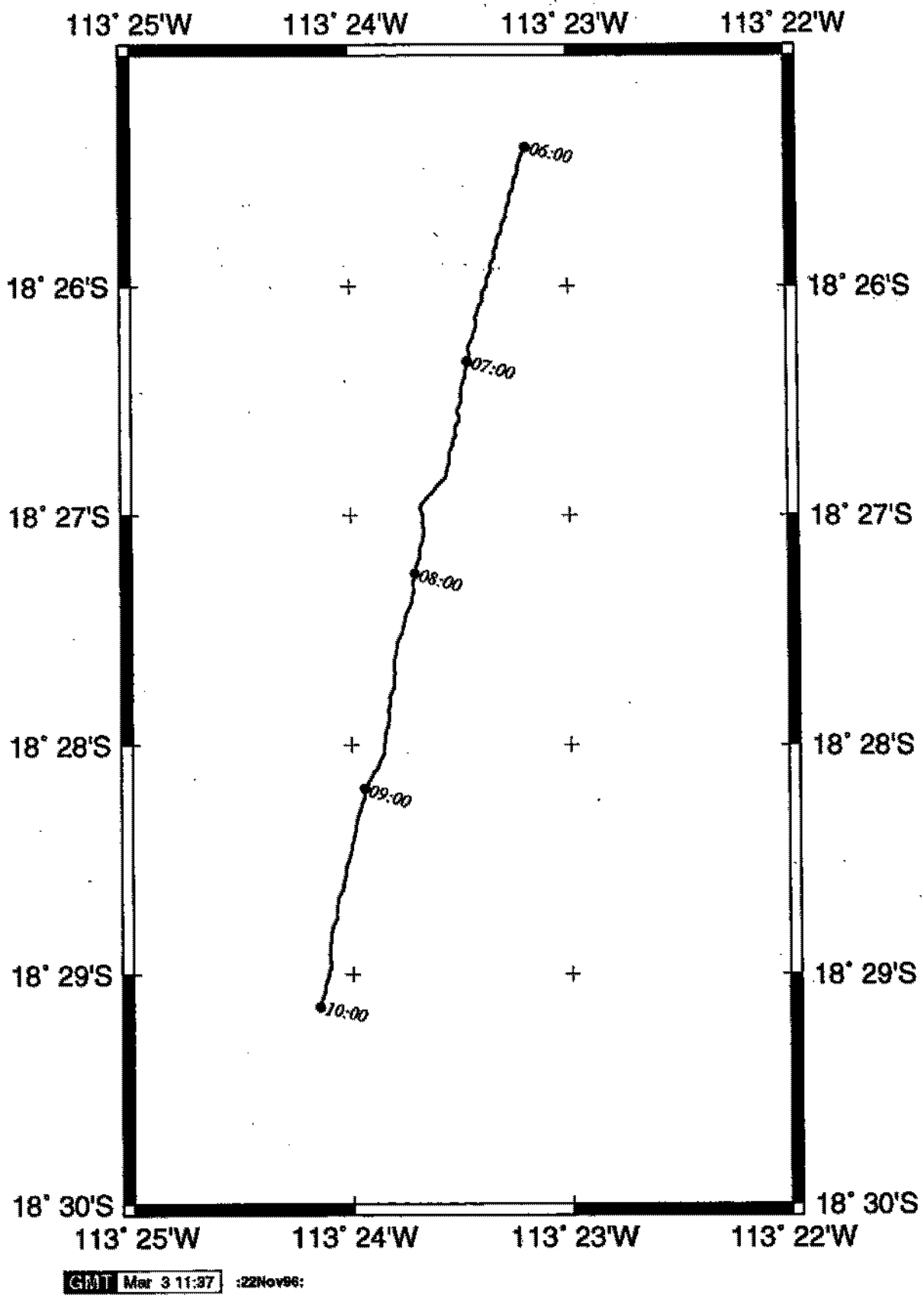

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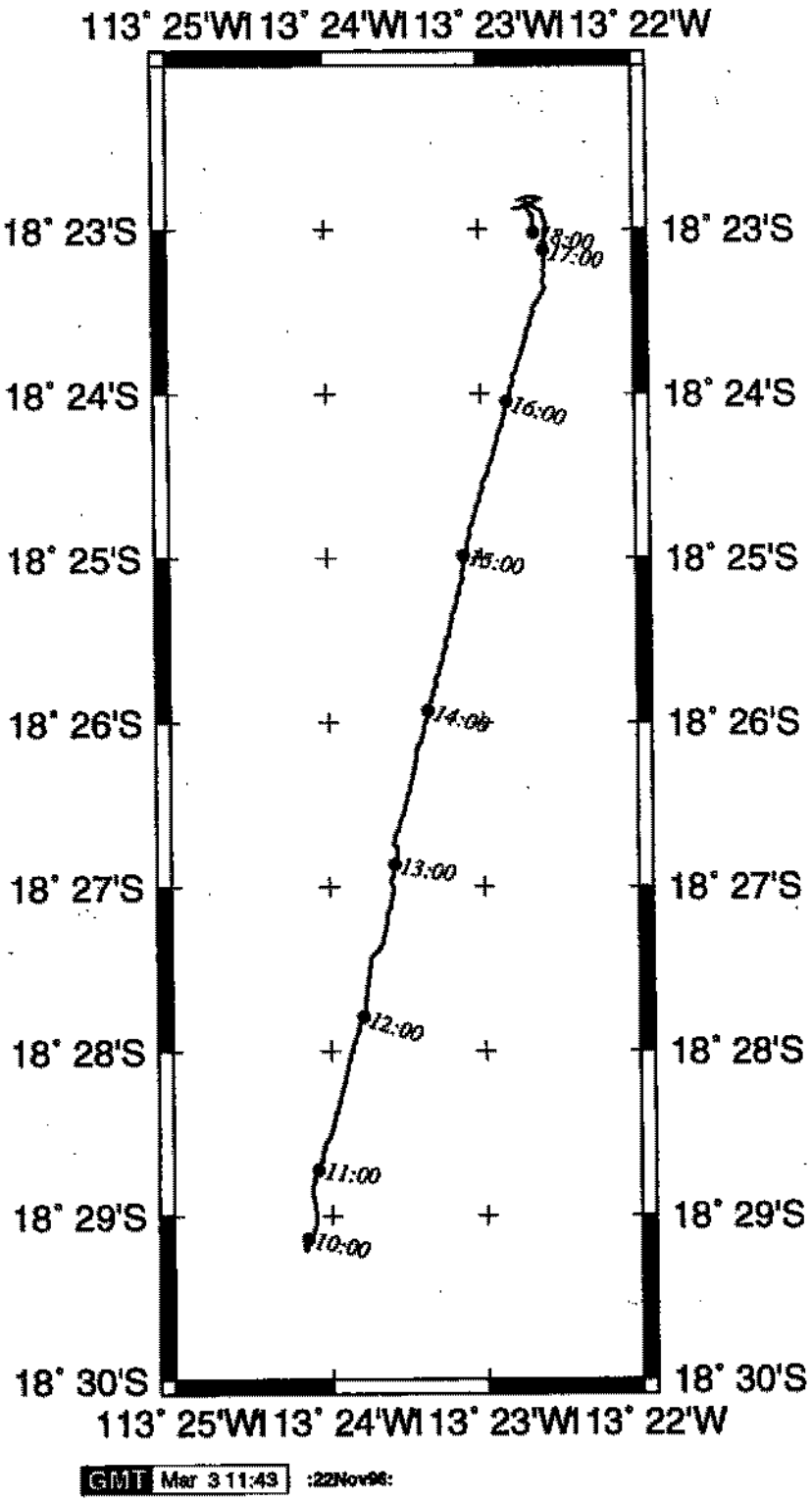

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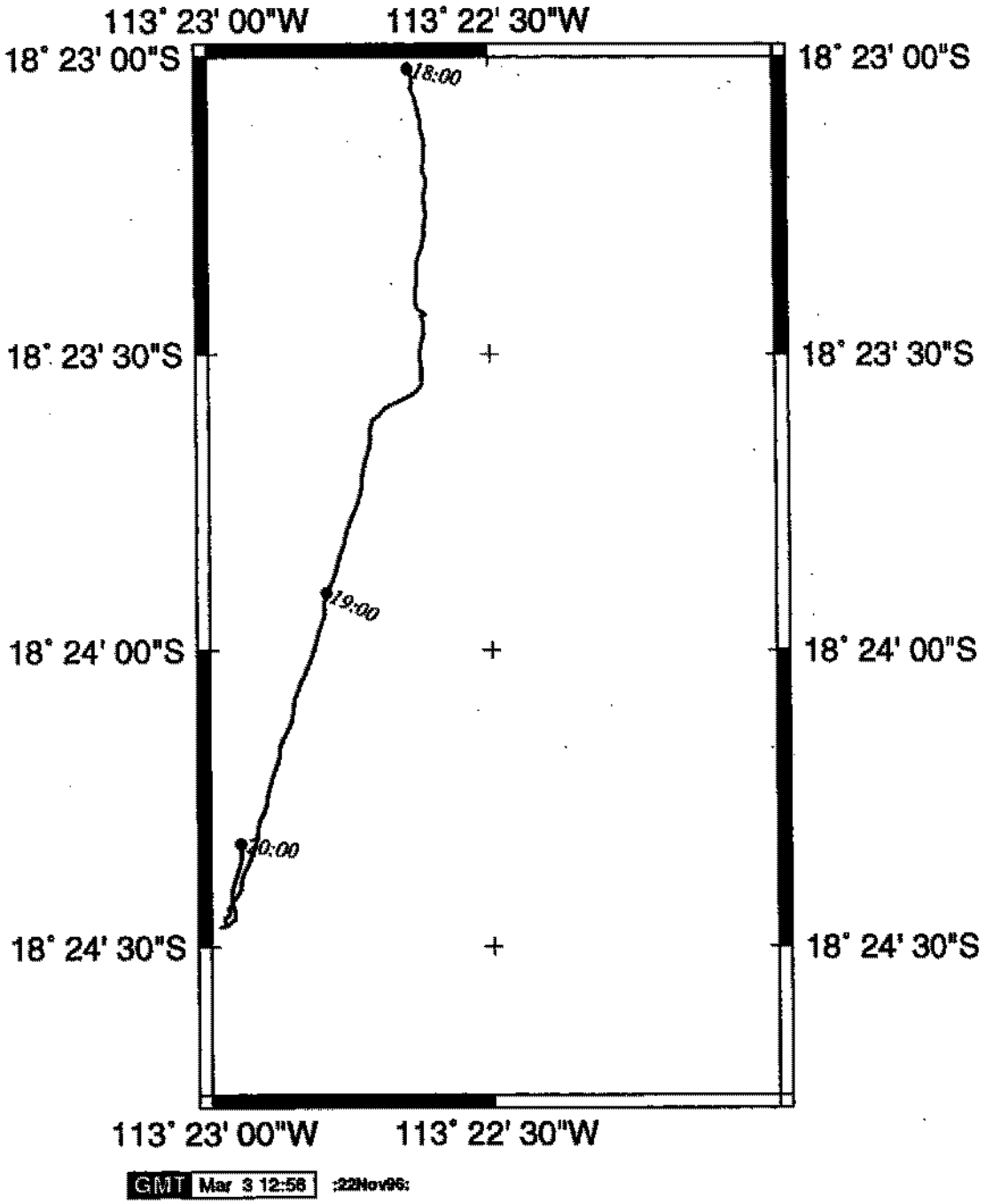

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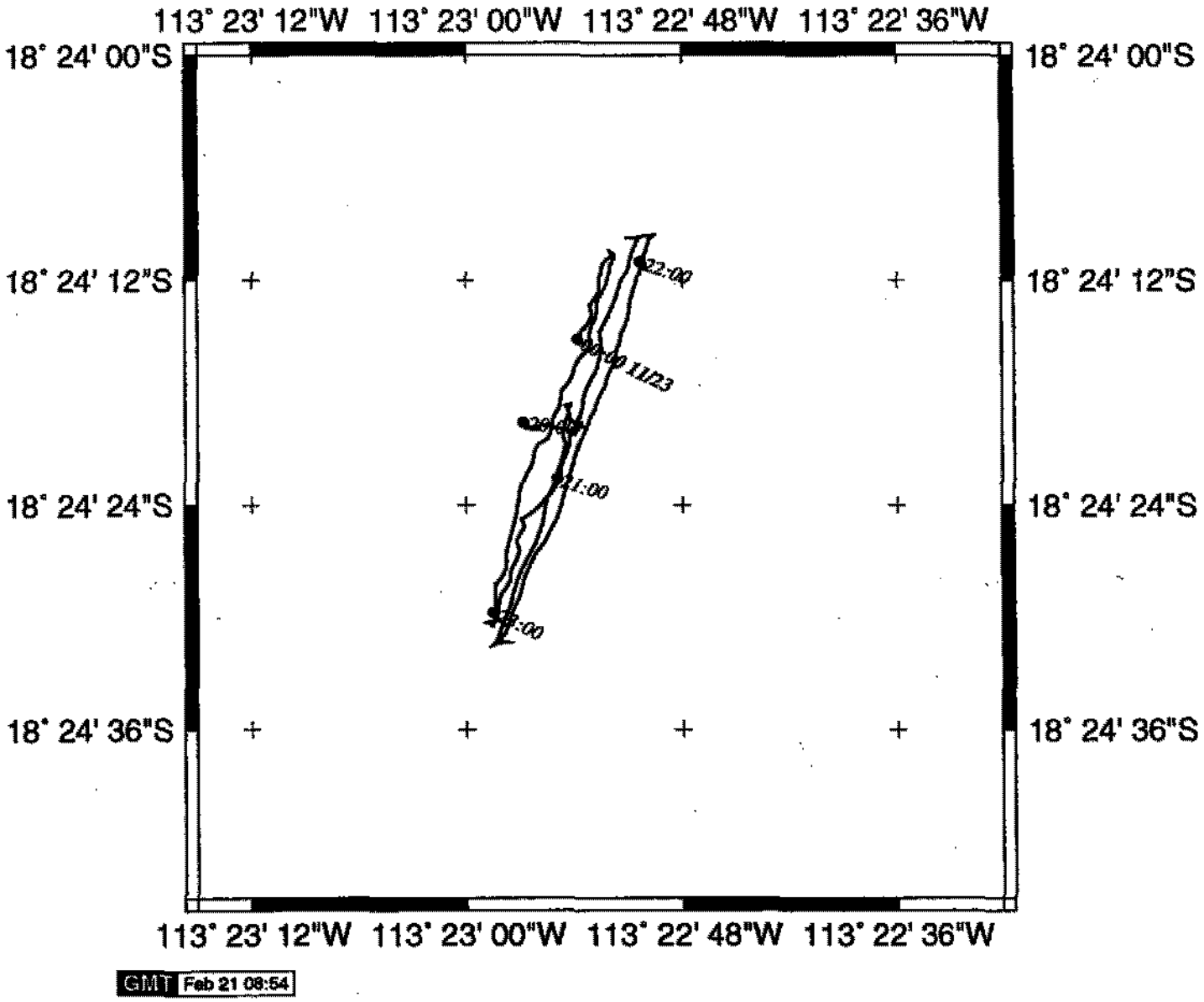

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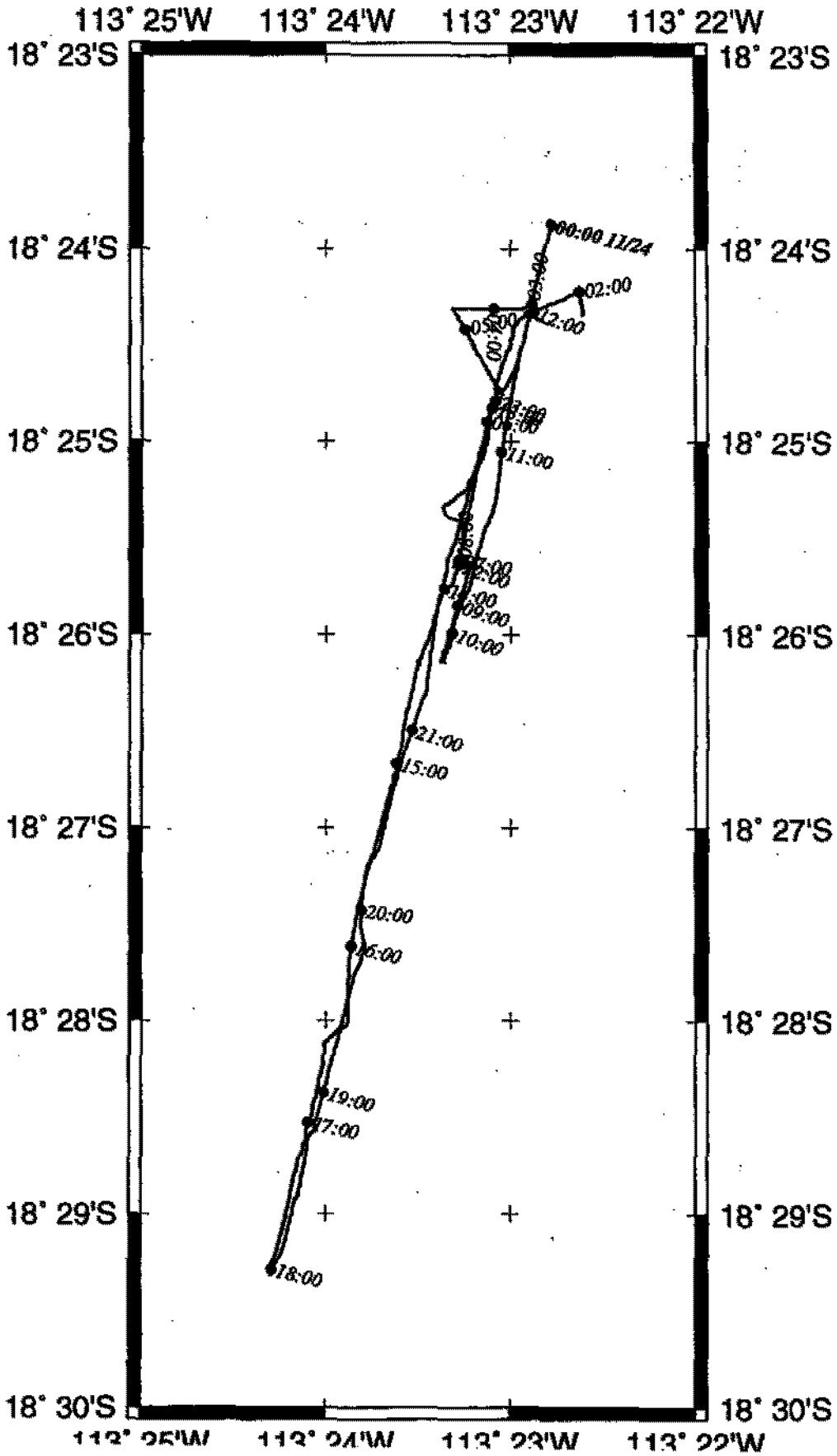

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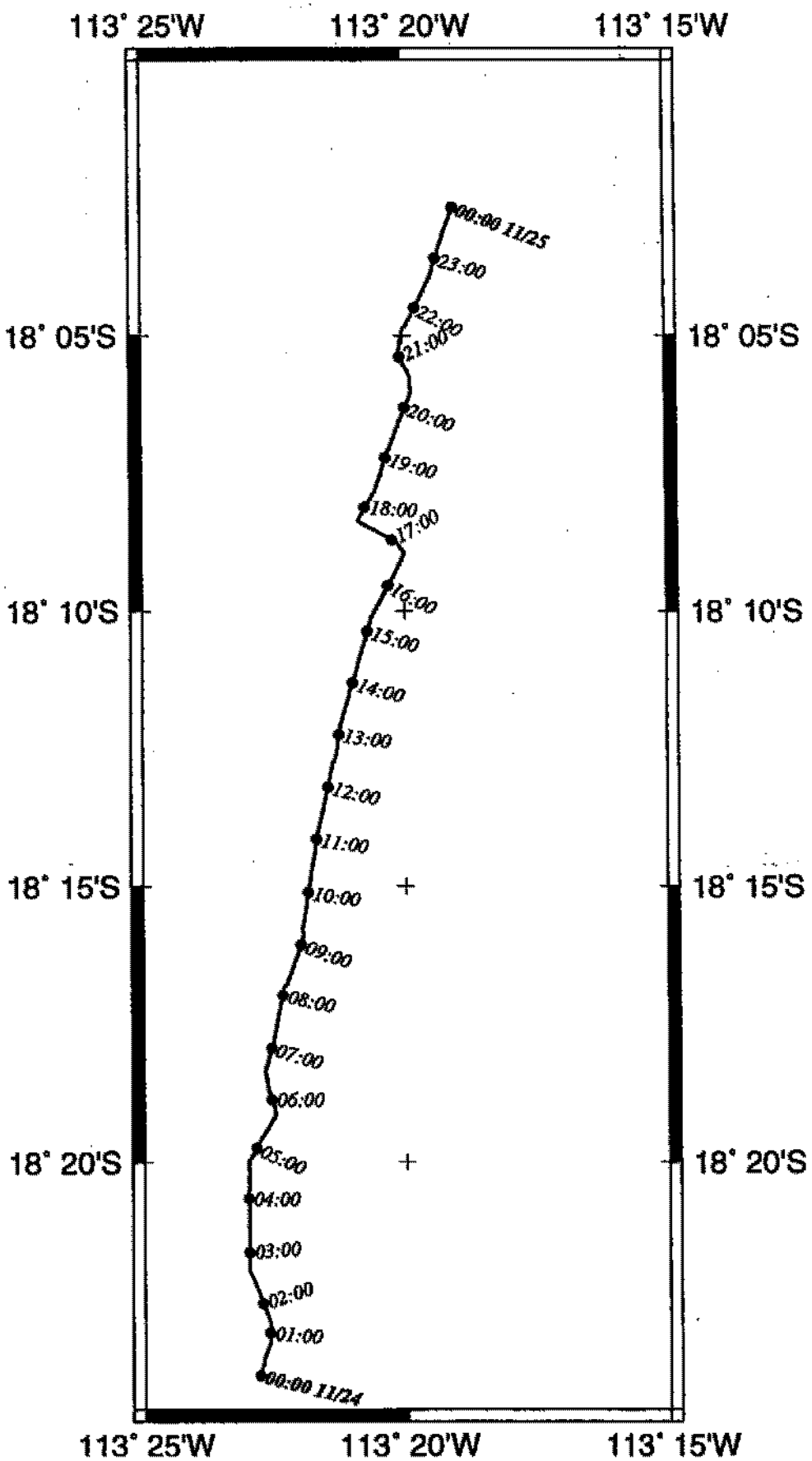

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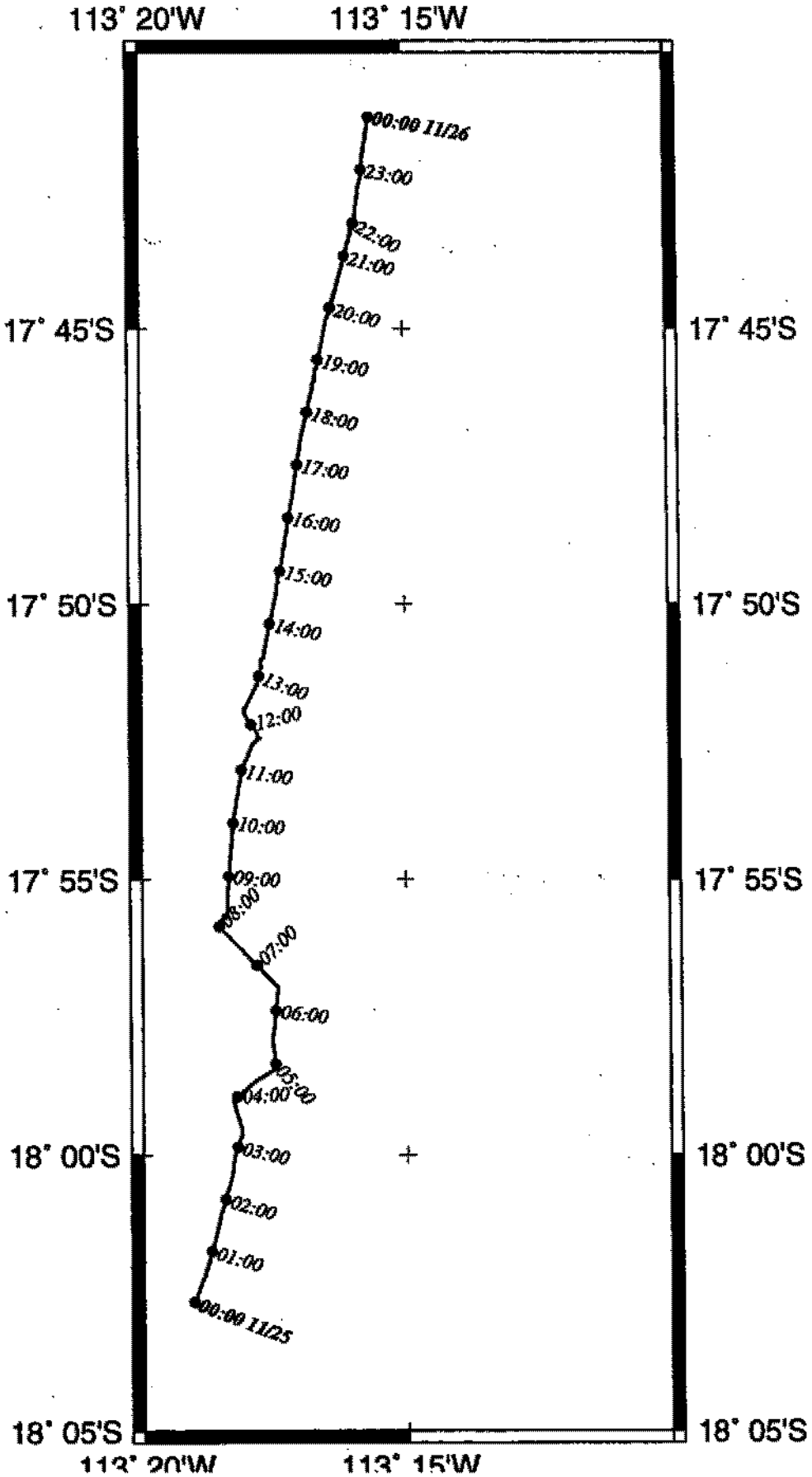

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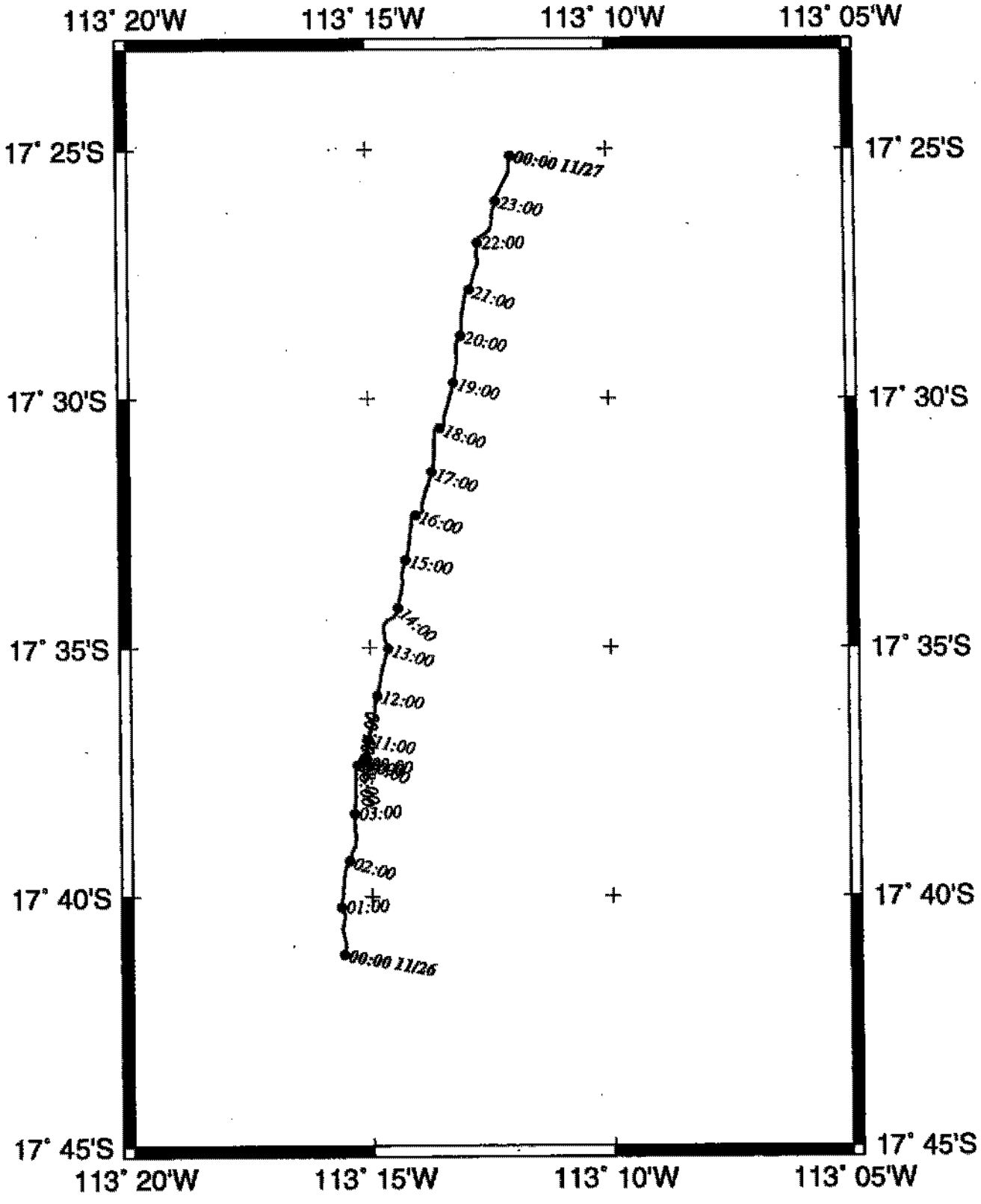

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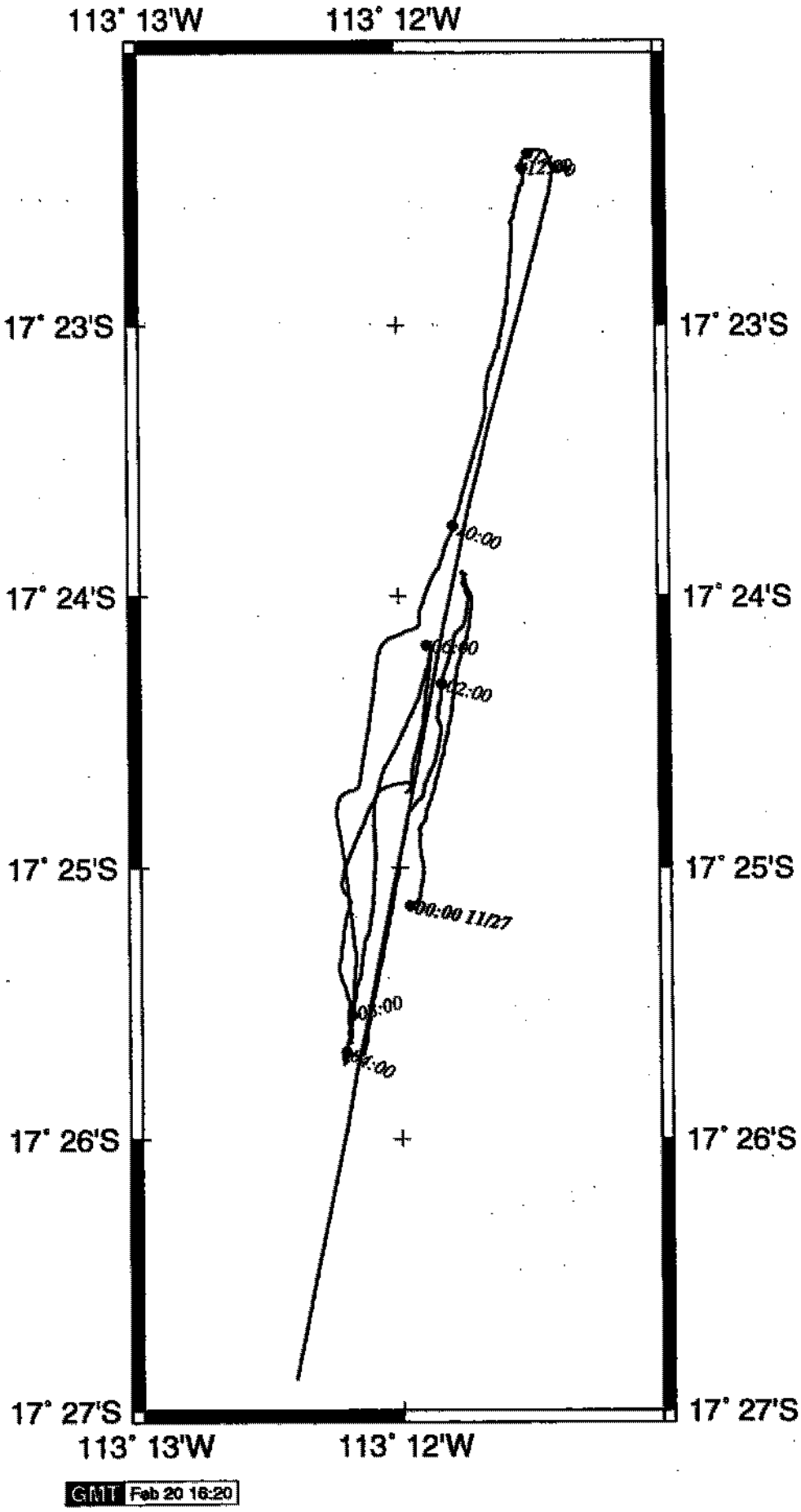

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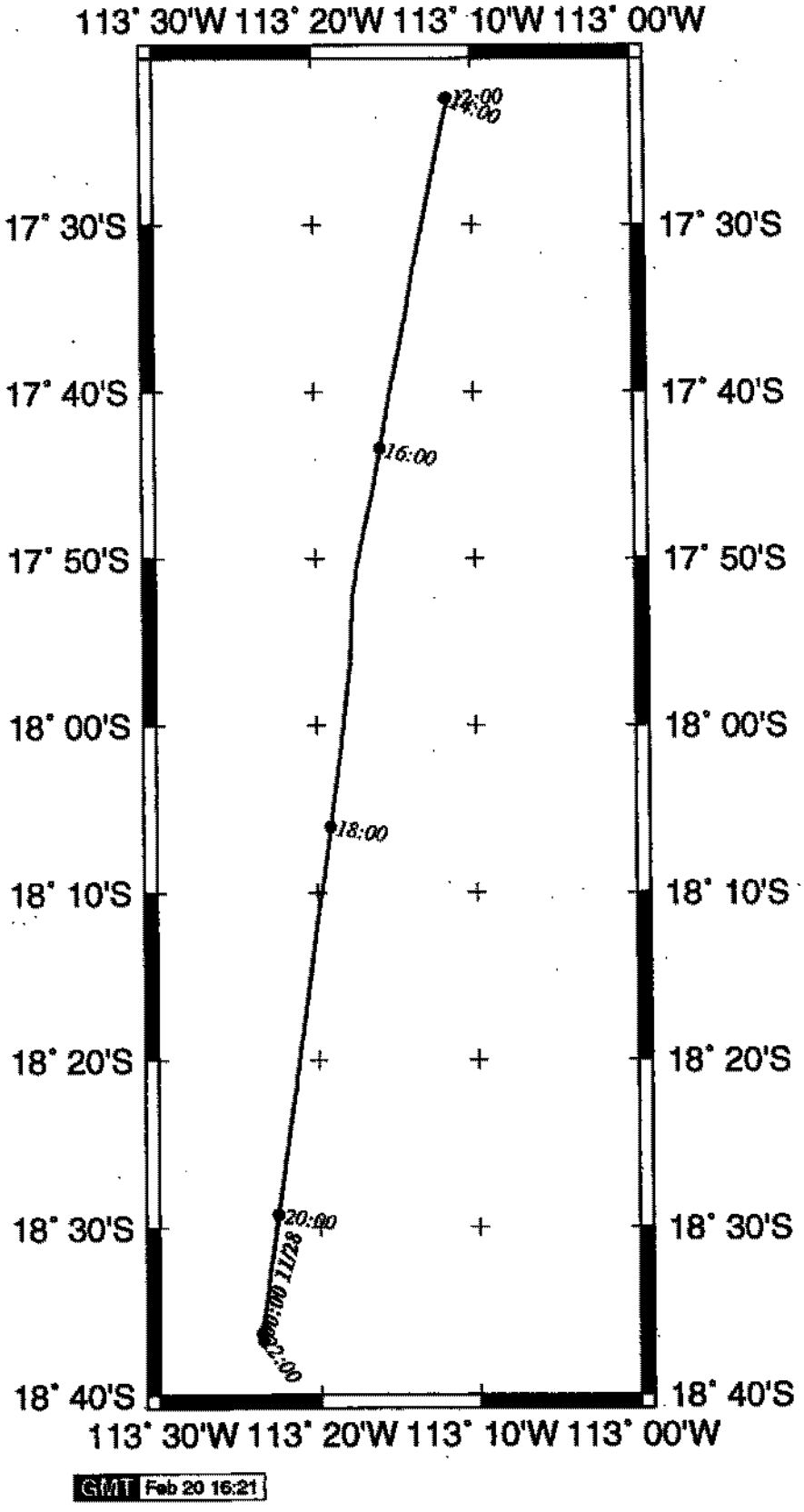

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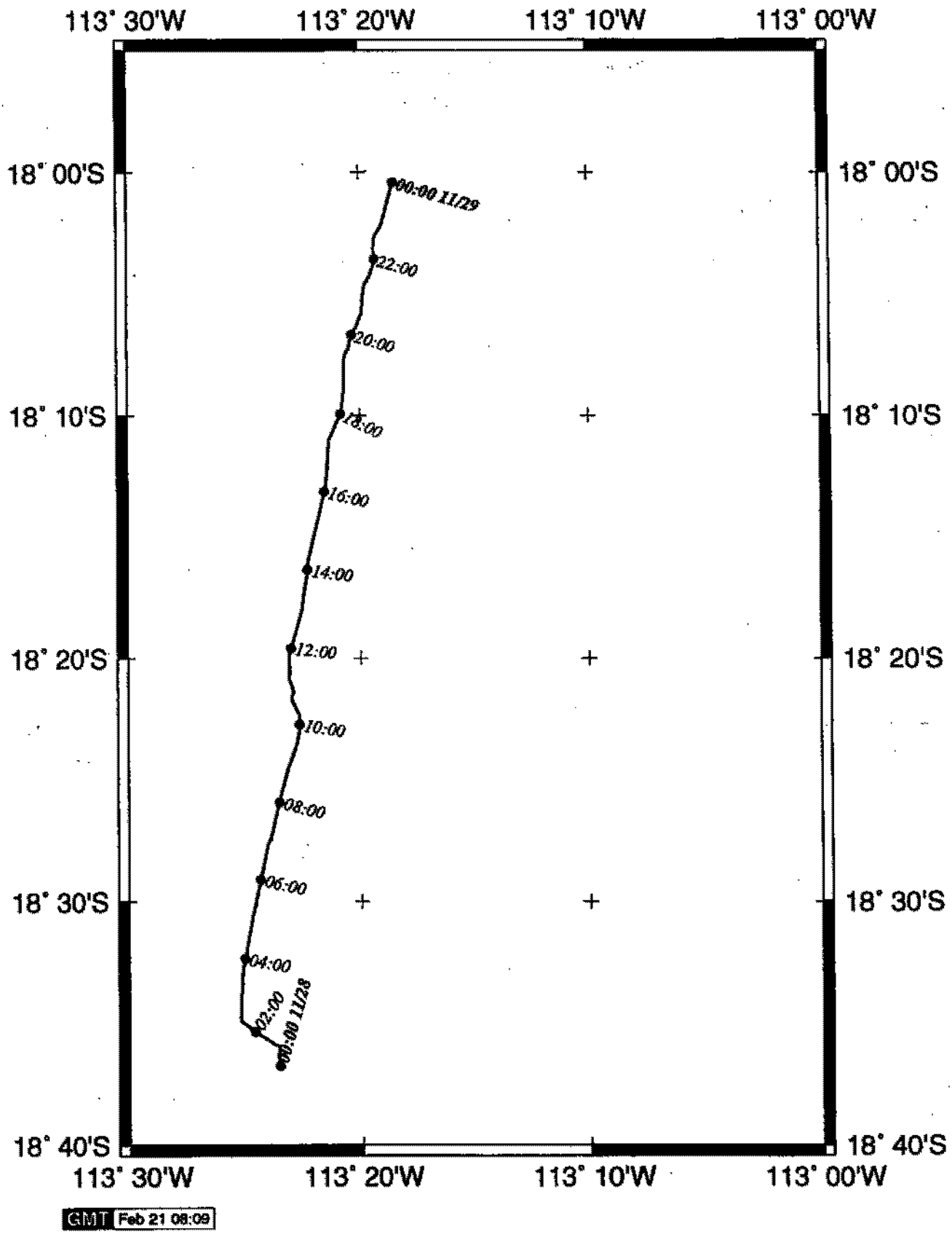

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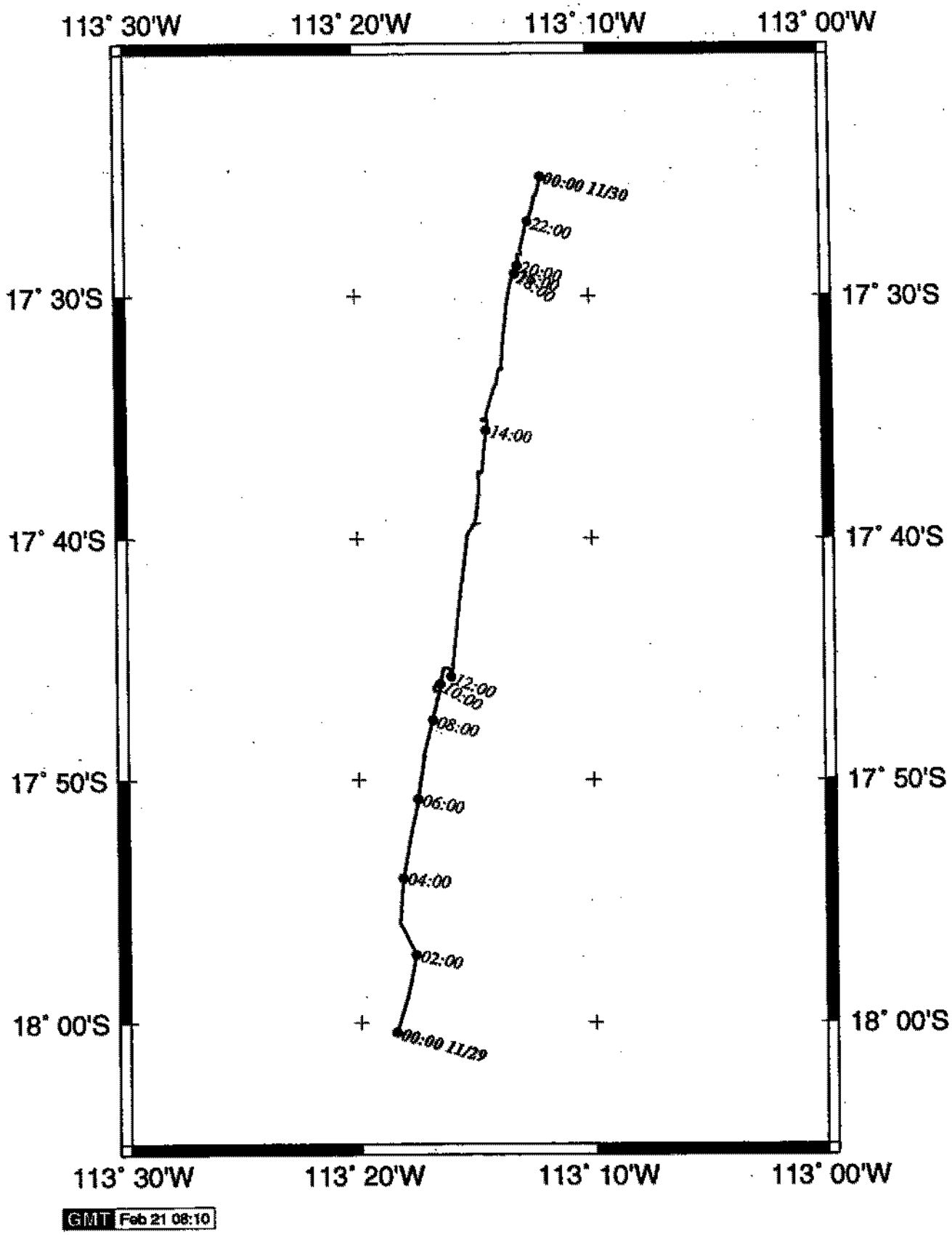

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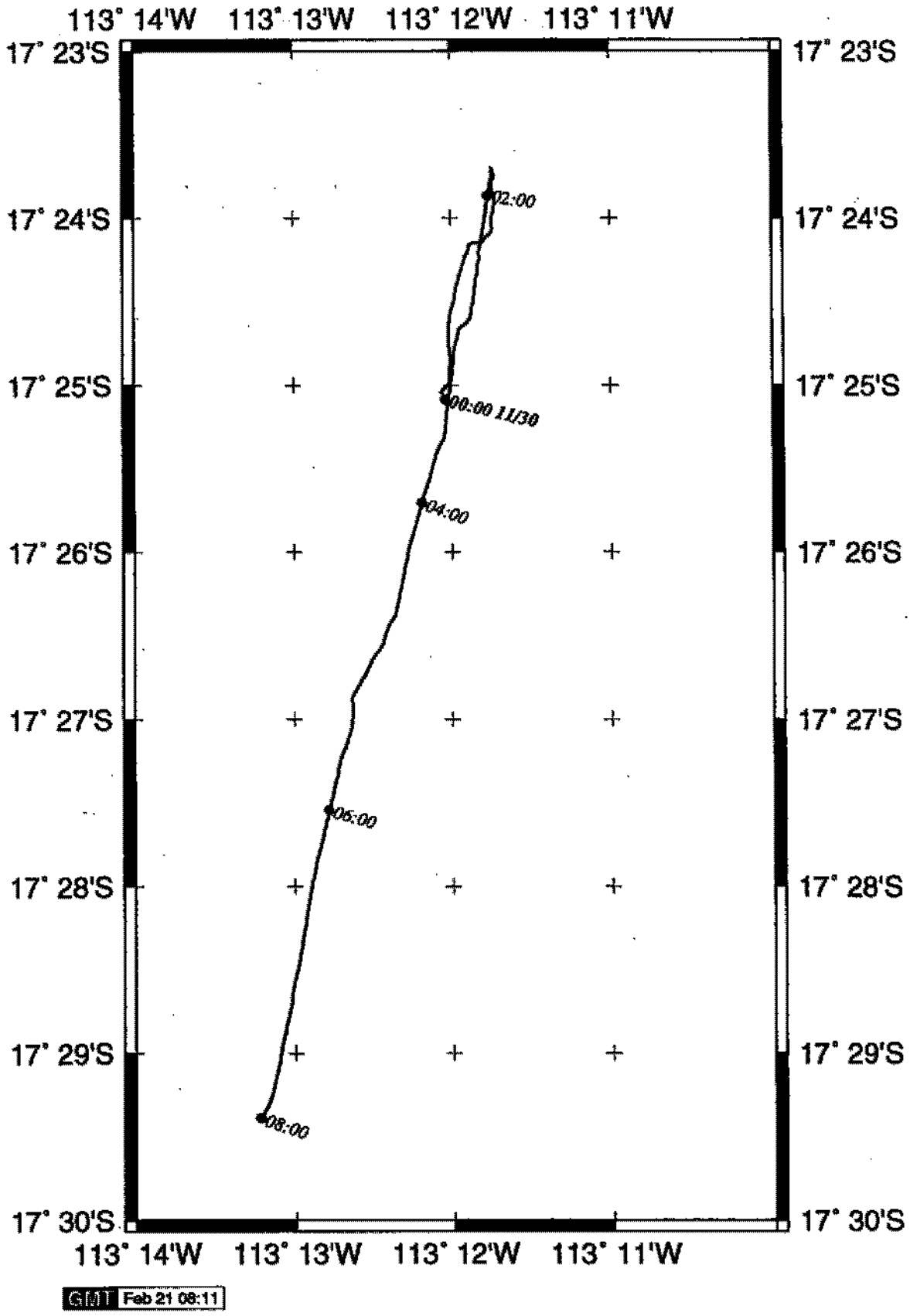

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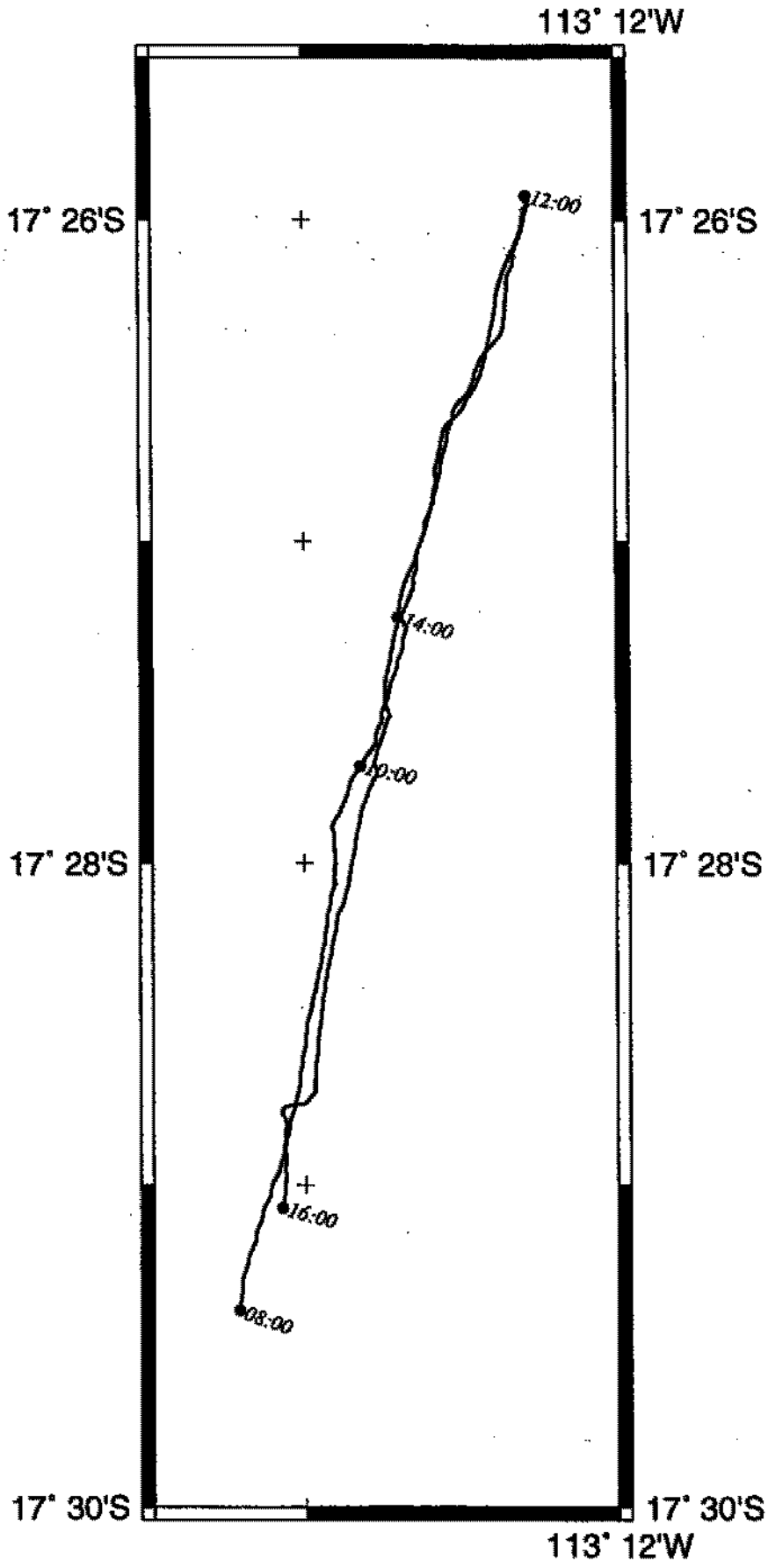

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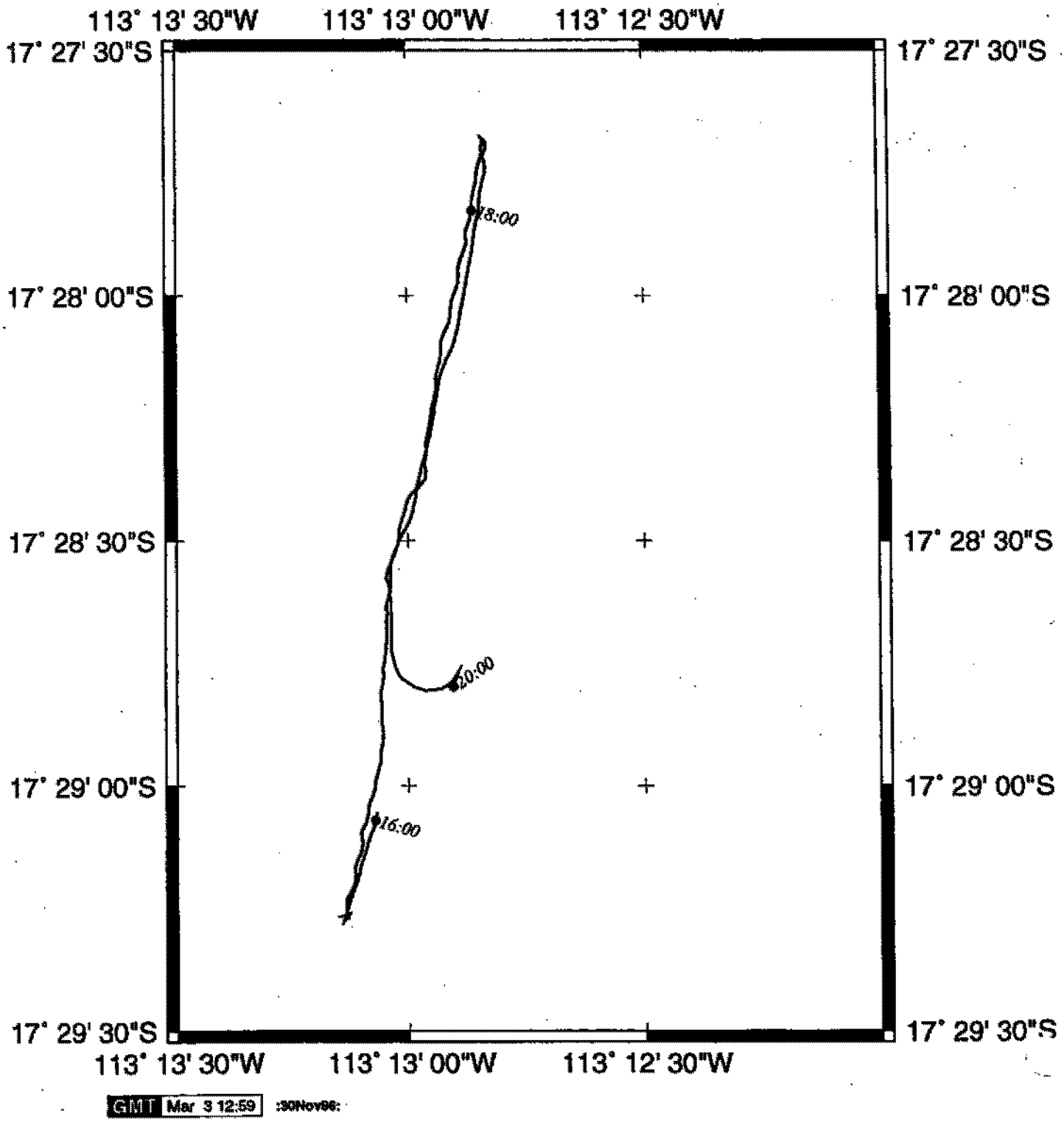

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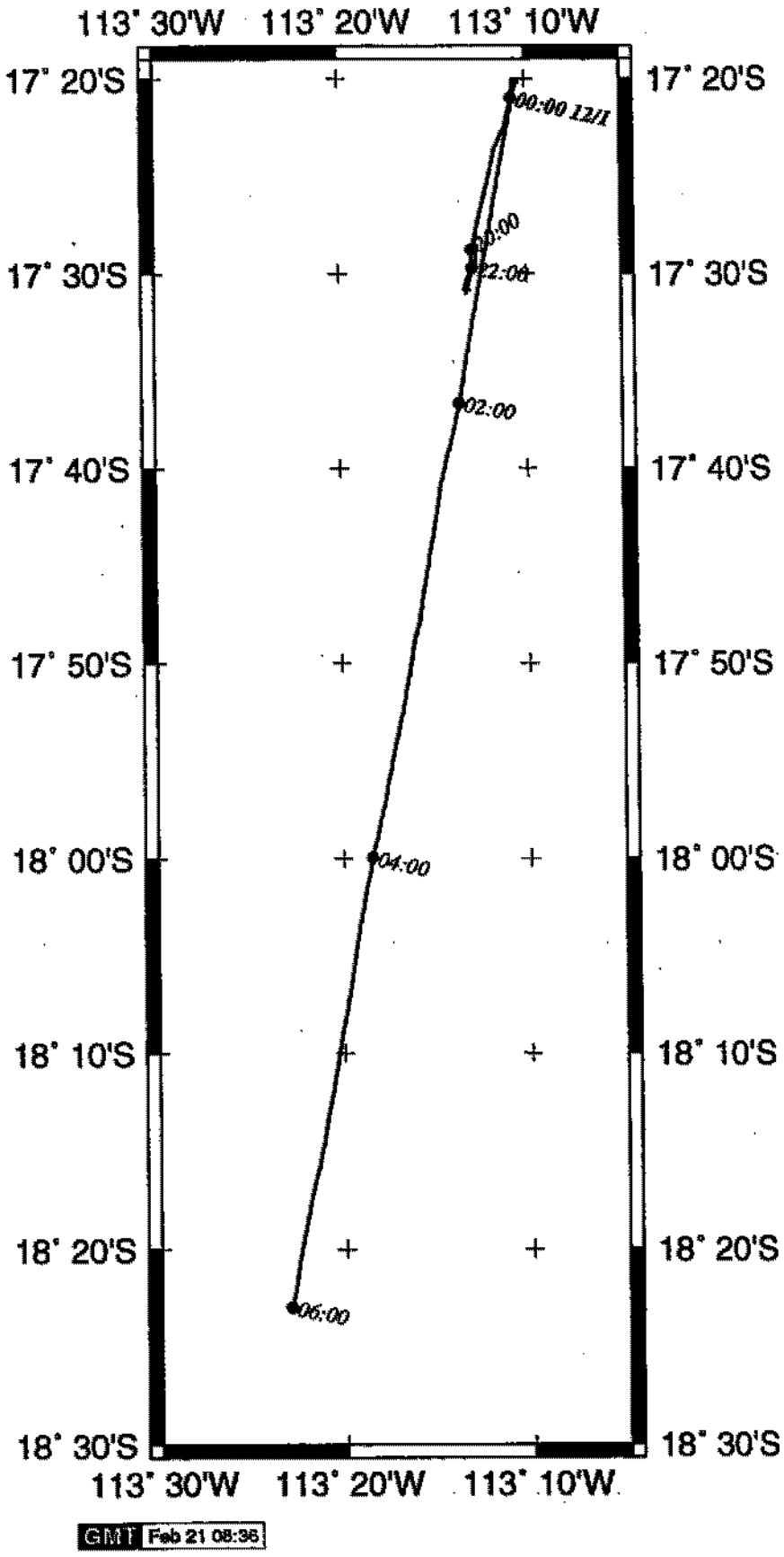

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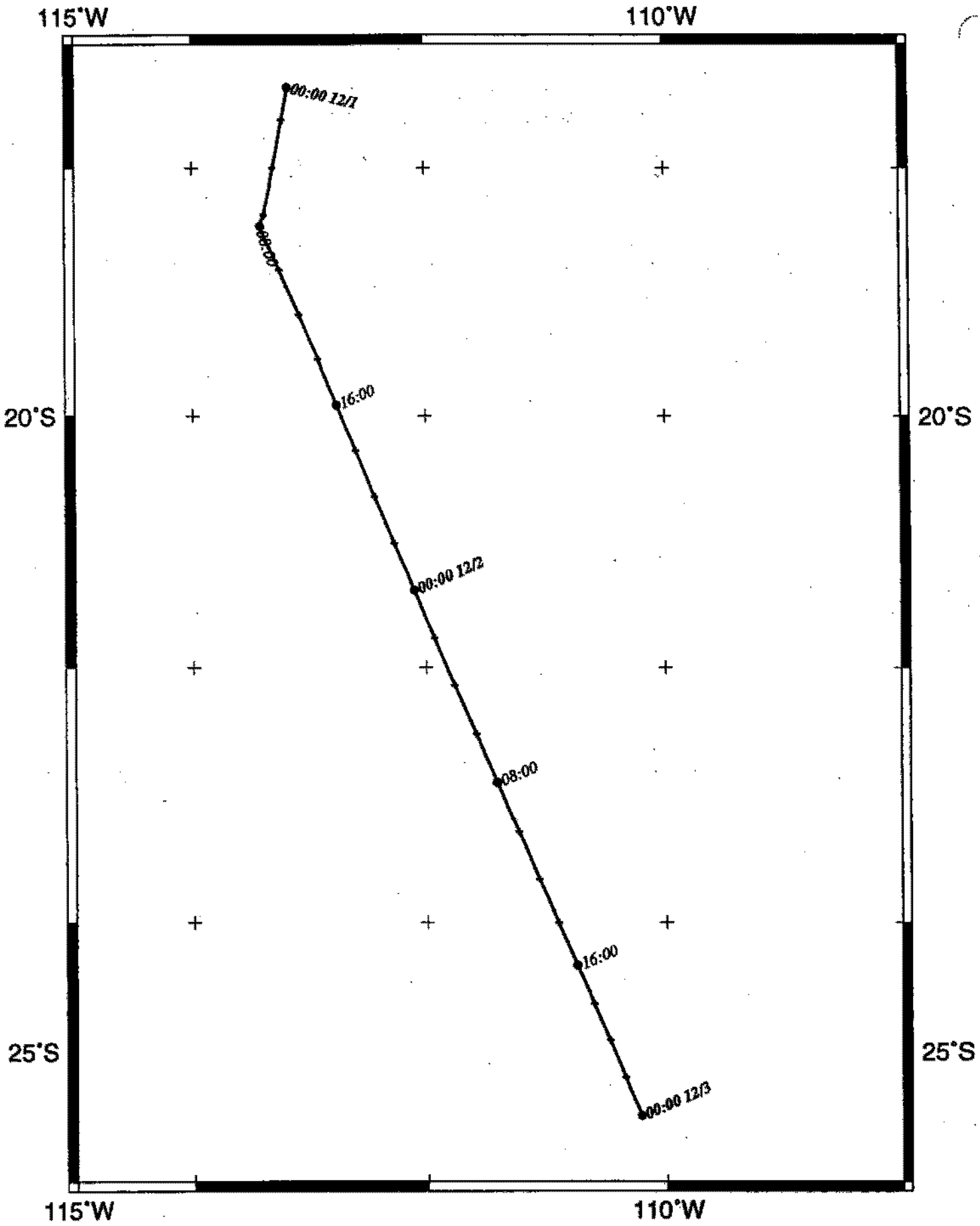

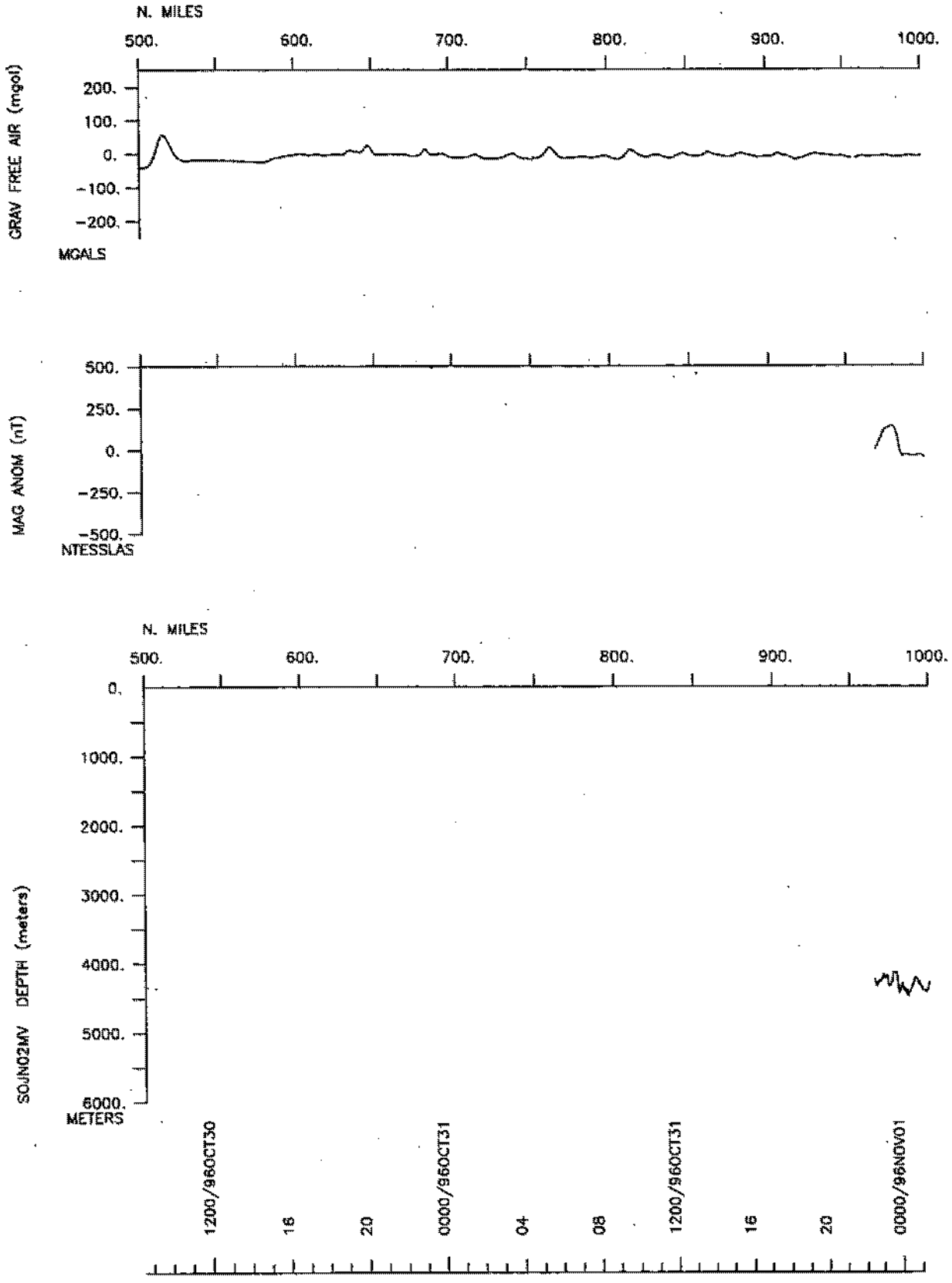
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MGALS
MAG ANOM (nT)
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-500.
NTESSLAS
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800.
900.
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08
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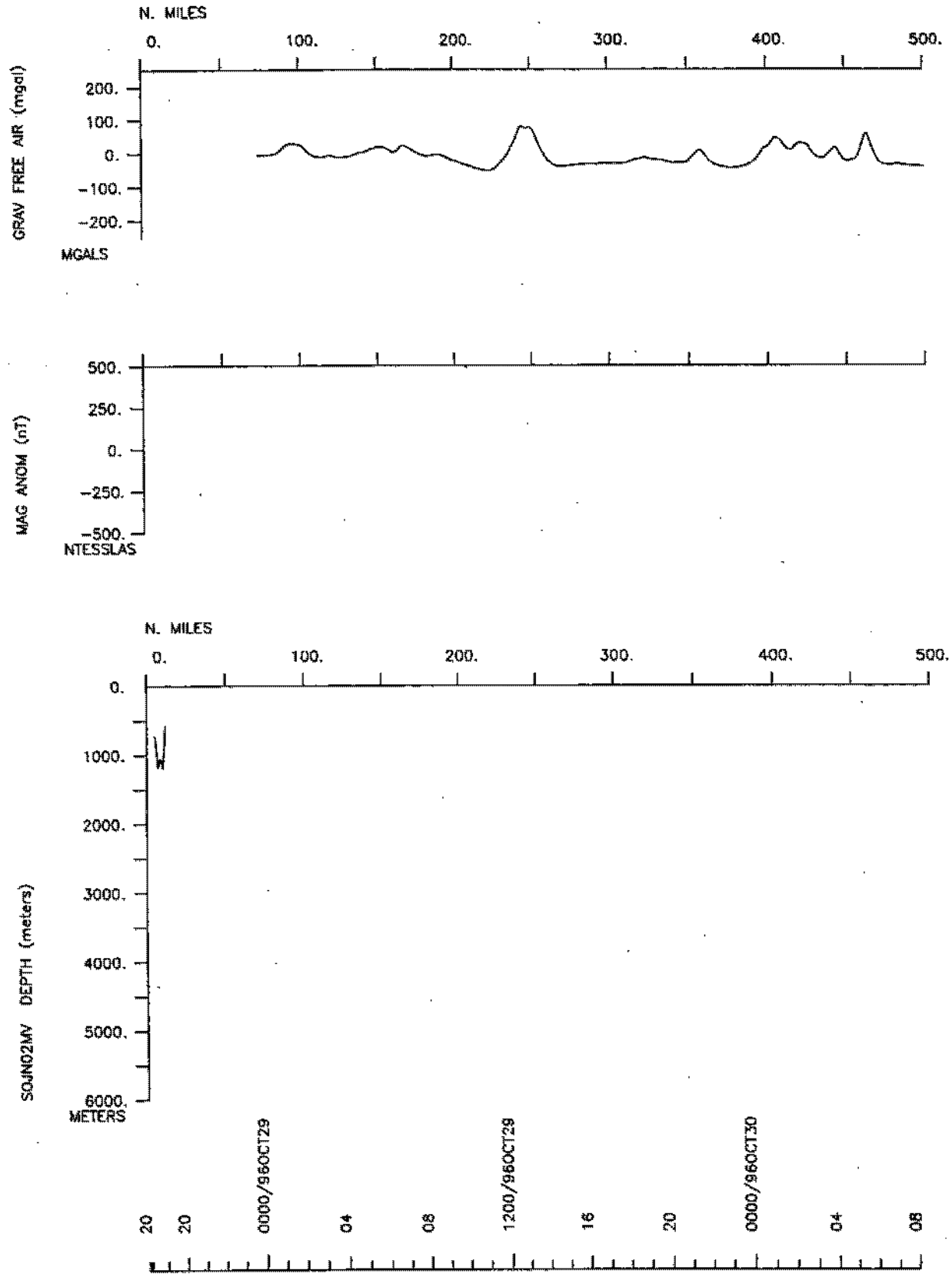
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-200.
MGALS
MAG ANOM (nT)
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250.
0.
-250.
-500.
NTESSLAS
N. MILES
0.
100.
200.
300.
400.
500.
SOJN02MV DEPTH (meters)
0.
1000.
2000.
3000.
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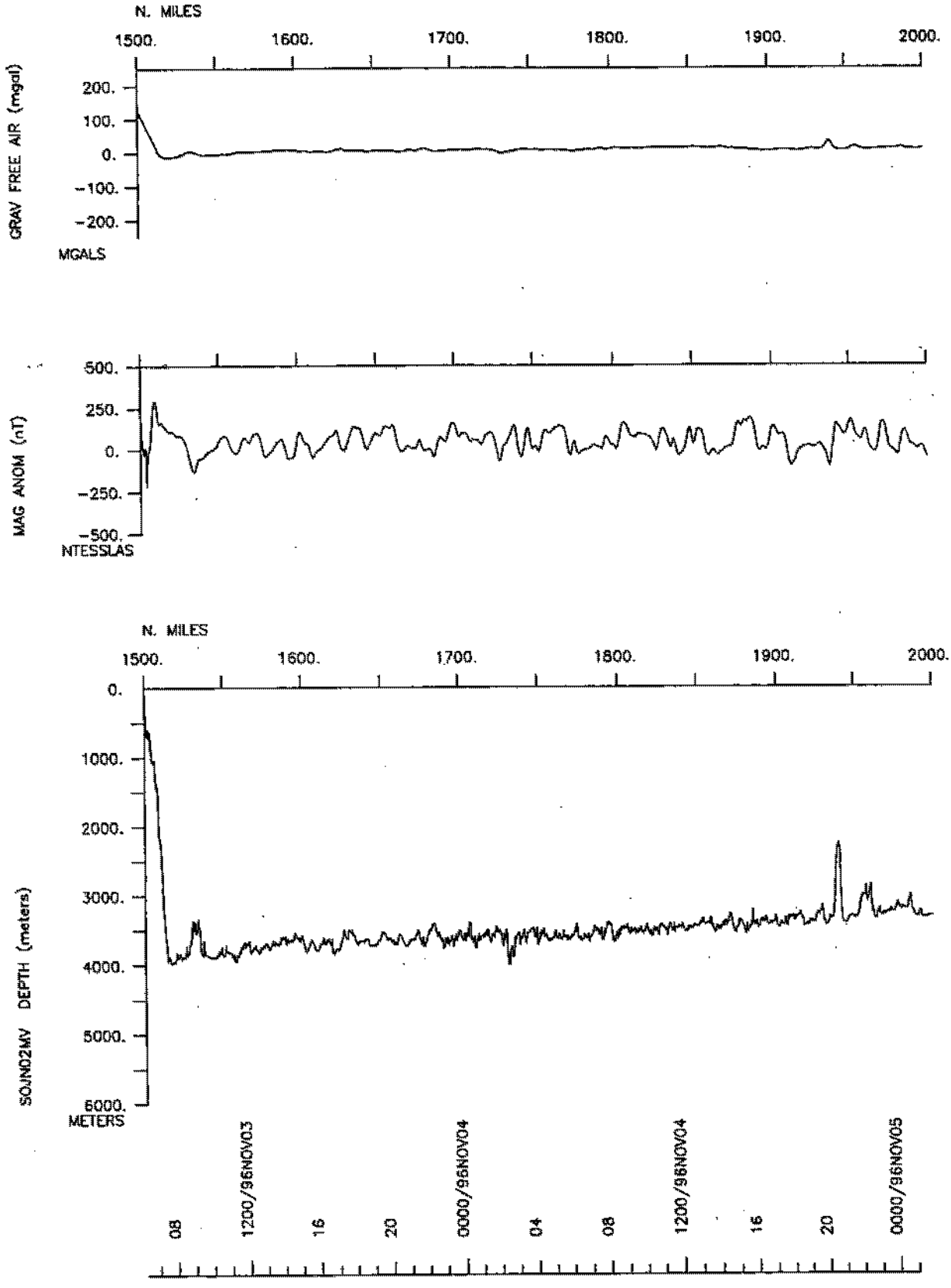
0000/96OCT30
04
08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MGALS
MAG ANOM (nT)
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NTESSLAS
N. MILES
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1600.
1700.
1800.
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2000.
SOJN02MV DEPTH (meters)
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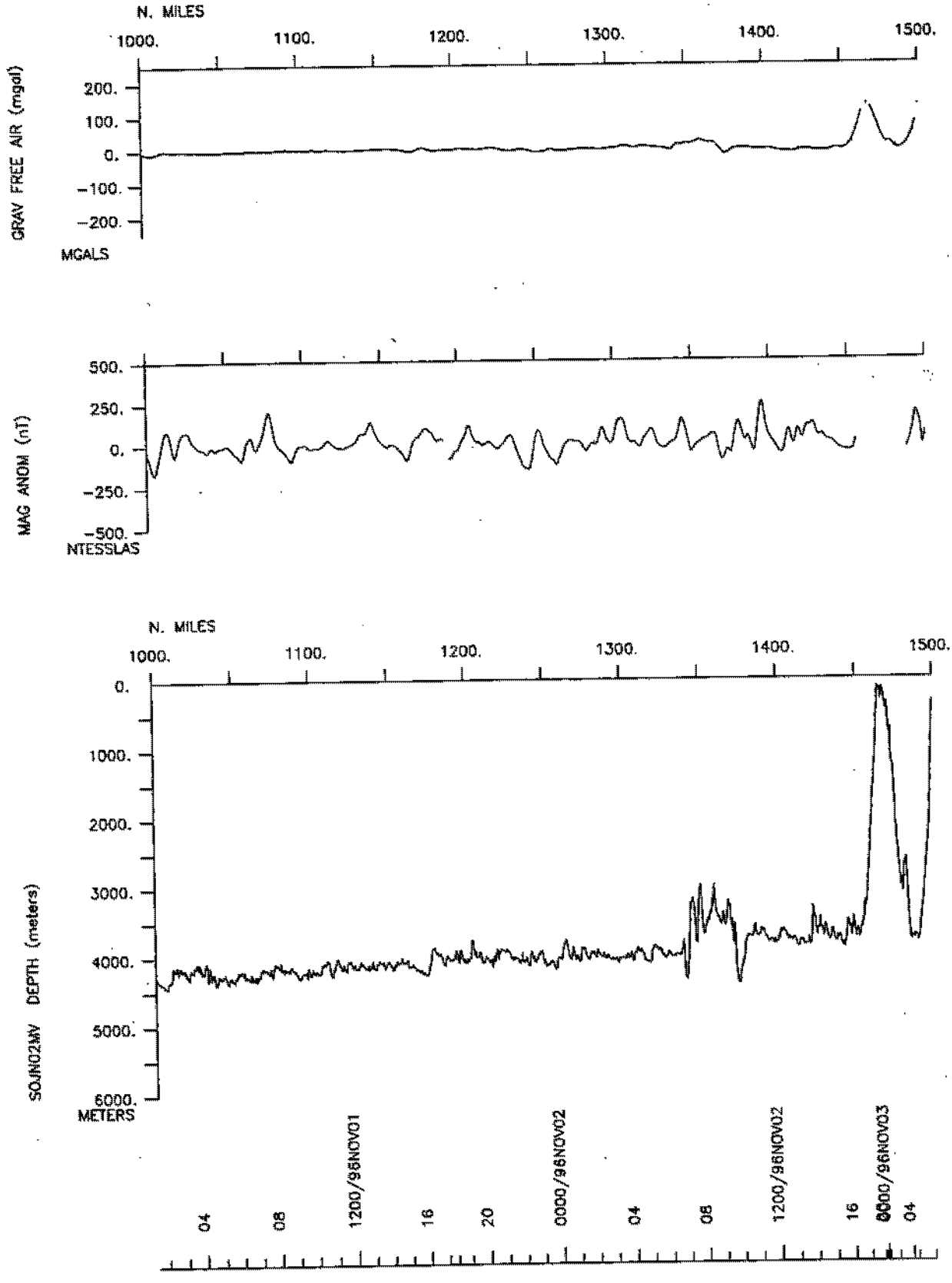
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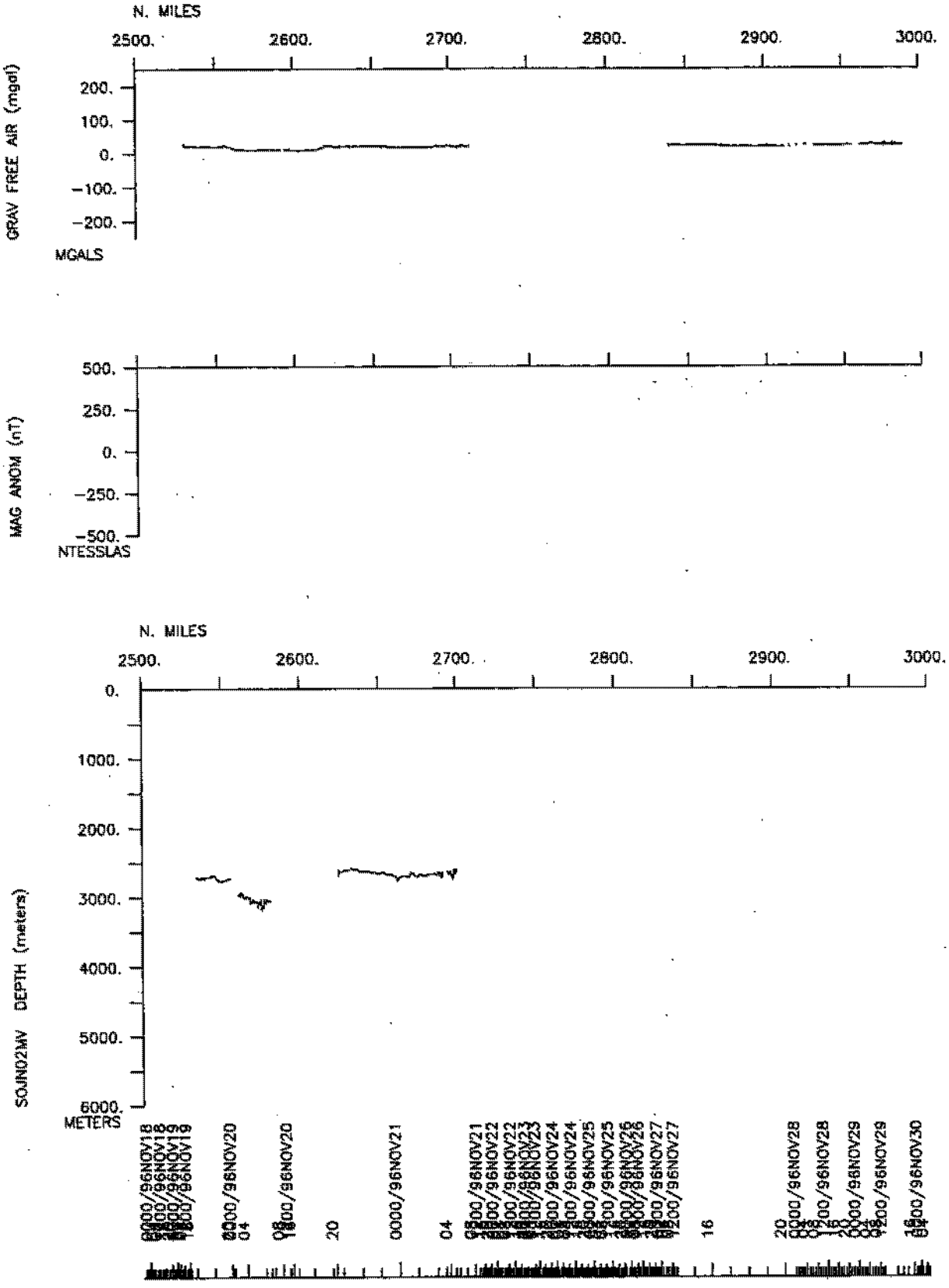
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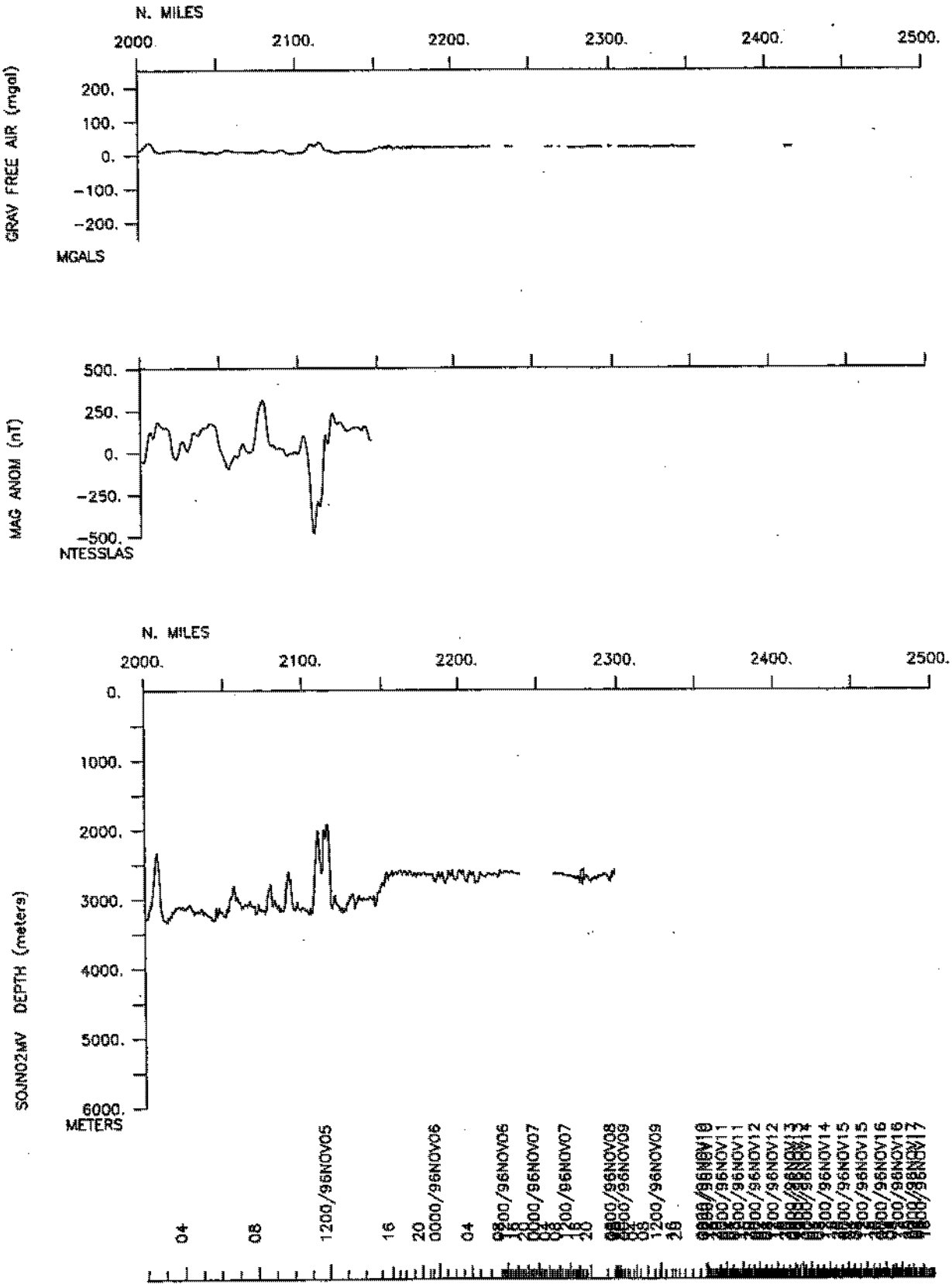
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2200.
2300.
2400.
2500.
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4000.
5000.
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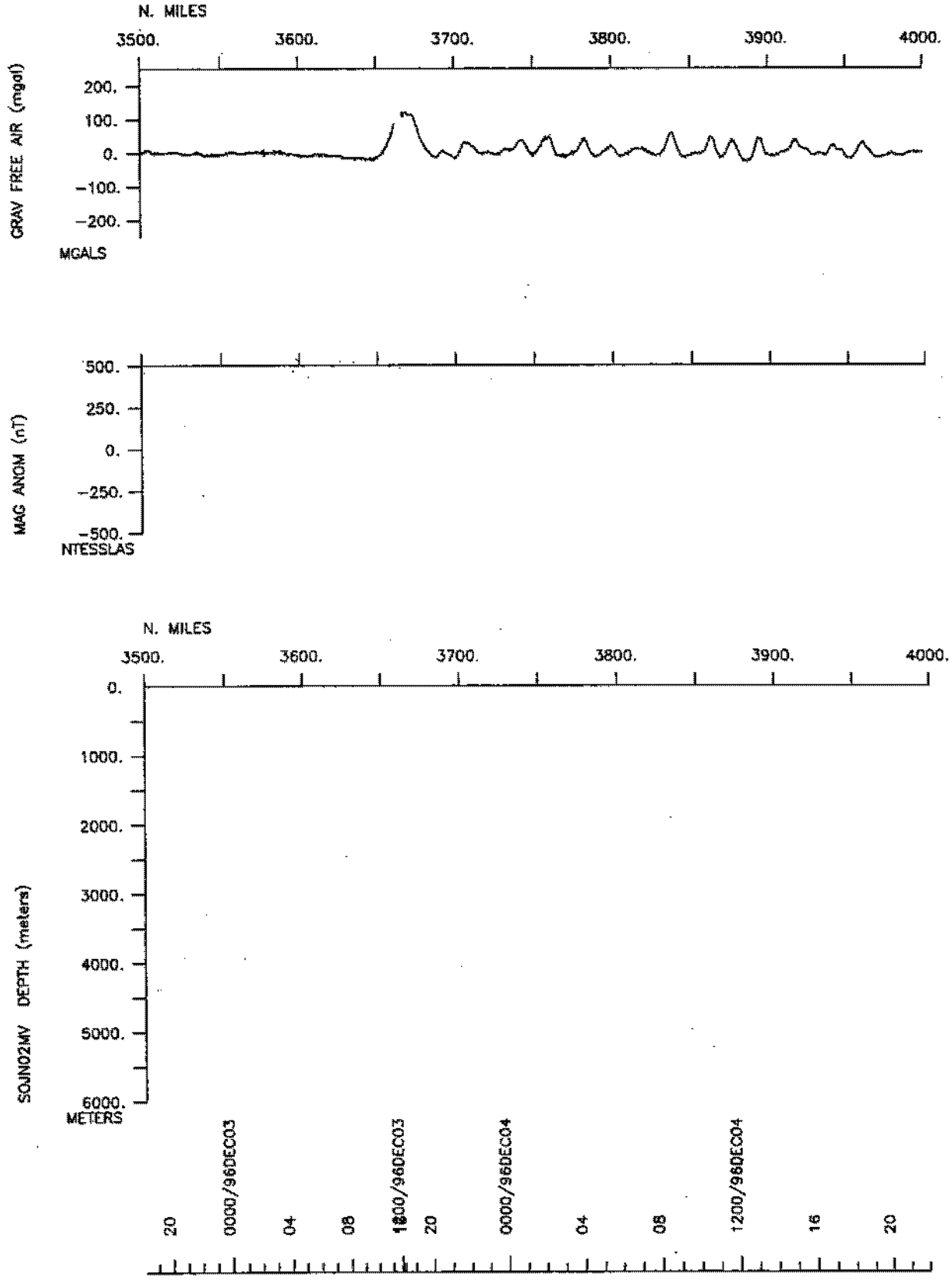
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-200.
MGALS
MAG ANOM (nT)
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250.
0.
-250.
-500.
NTESSLAS
N. MILES
3500.
3600.
3700.
3800.
3900.
4000.
SOJN02MV DEPTH (meters)
0.
1000.
2000.
3000.
4000.
5000.
6000.
METERS
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04
08
1200/960EC03
20
0000/960EC04
04
08
1200/960EC04
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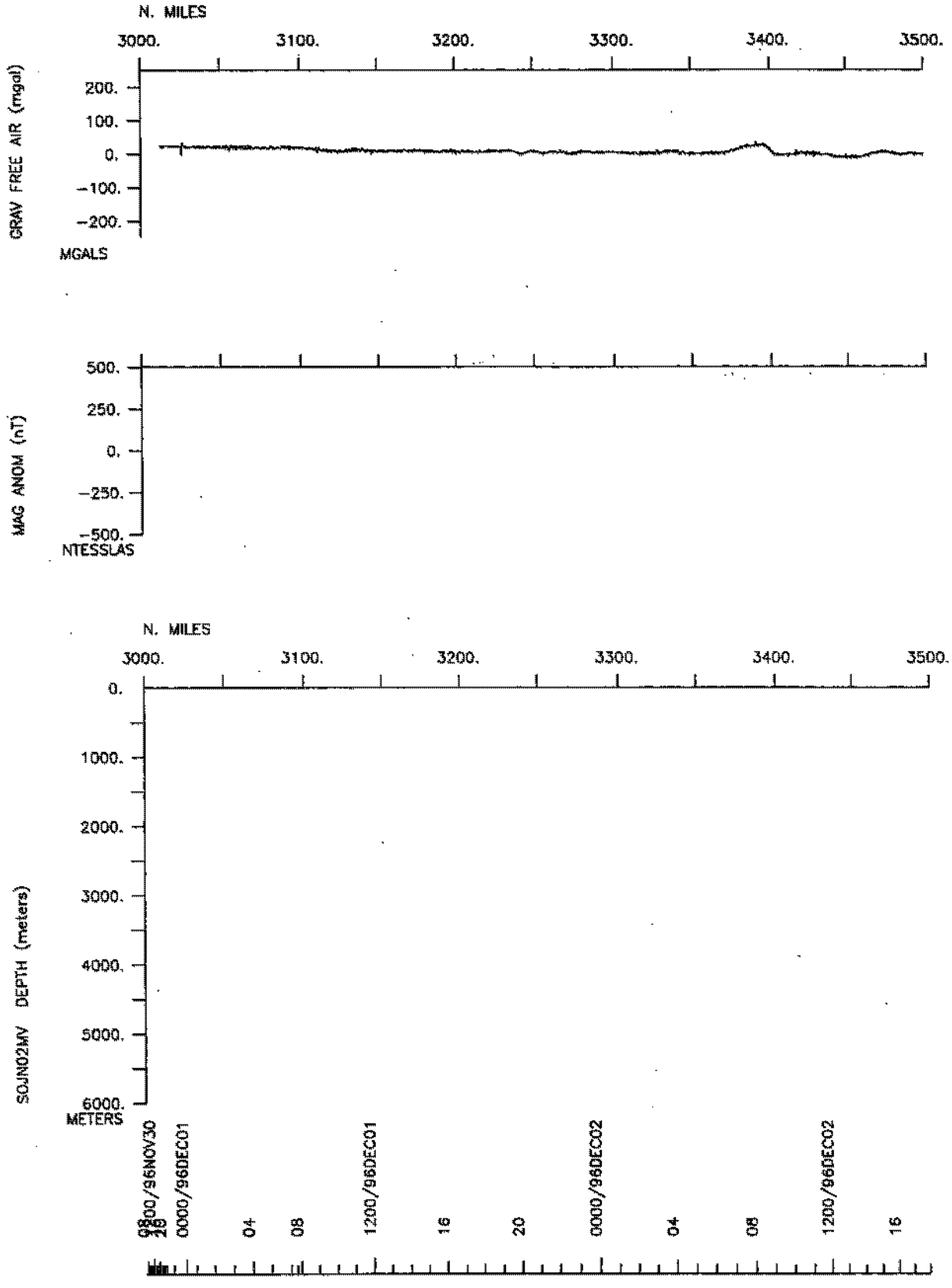
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3200.
3300.
3400.
3500.
GRAV FREE AIR (mgal)
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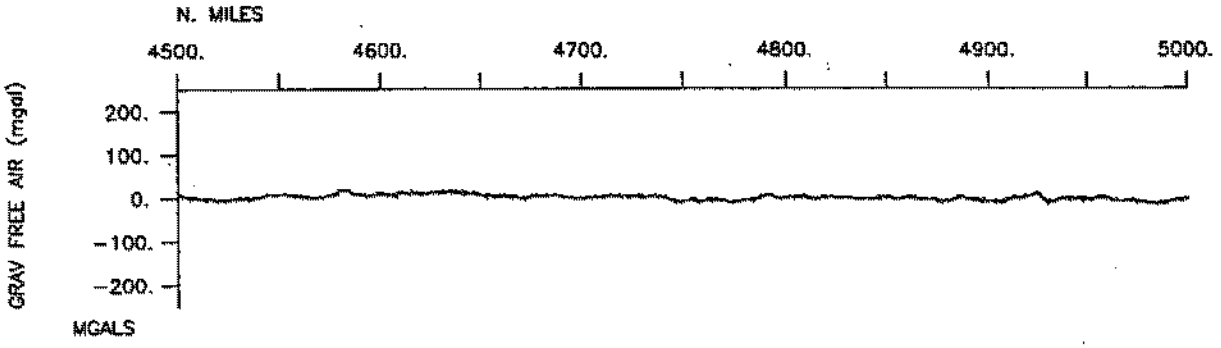
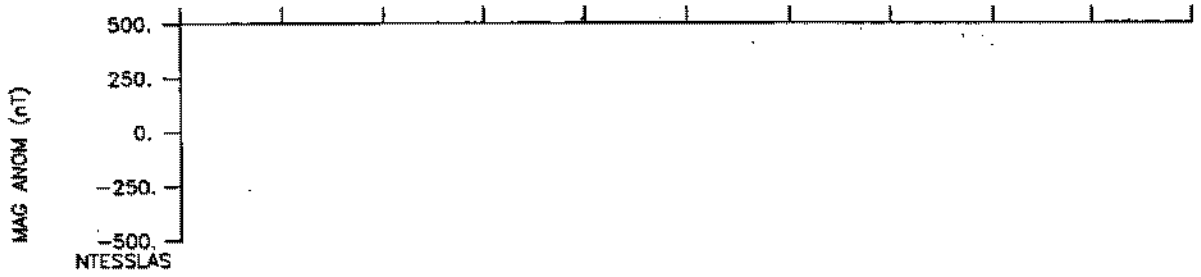
100.
0.
-100.
-200.
MGALS
MAG ANOM (nT)
500.
250.
0.
-250.
-500.
NTESSLAS
N. MILES
3000.
3100.
3200.
3300.
3400.
3500.
SOJN02MV DEPTH (meters)
0.
1000.
2000.
3000.
4000.
5000.
6000.
METERS
1200/96NOV30
0000/96DEC01
04
08
1200/96DEC01
16
20
0000/96DEC02
04
08
1200/96DEC02
16


N. MILES
4500.
4600.
4700.
4800.
4900.
5000.
GRAV FREE AIR (mgal)
200.
100.
0.
-100.
-200.
MGALS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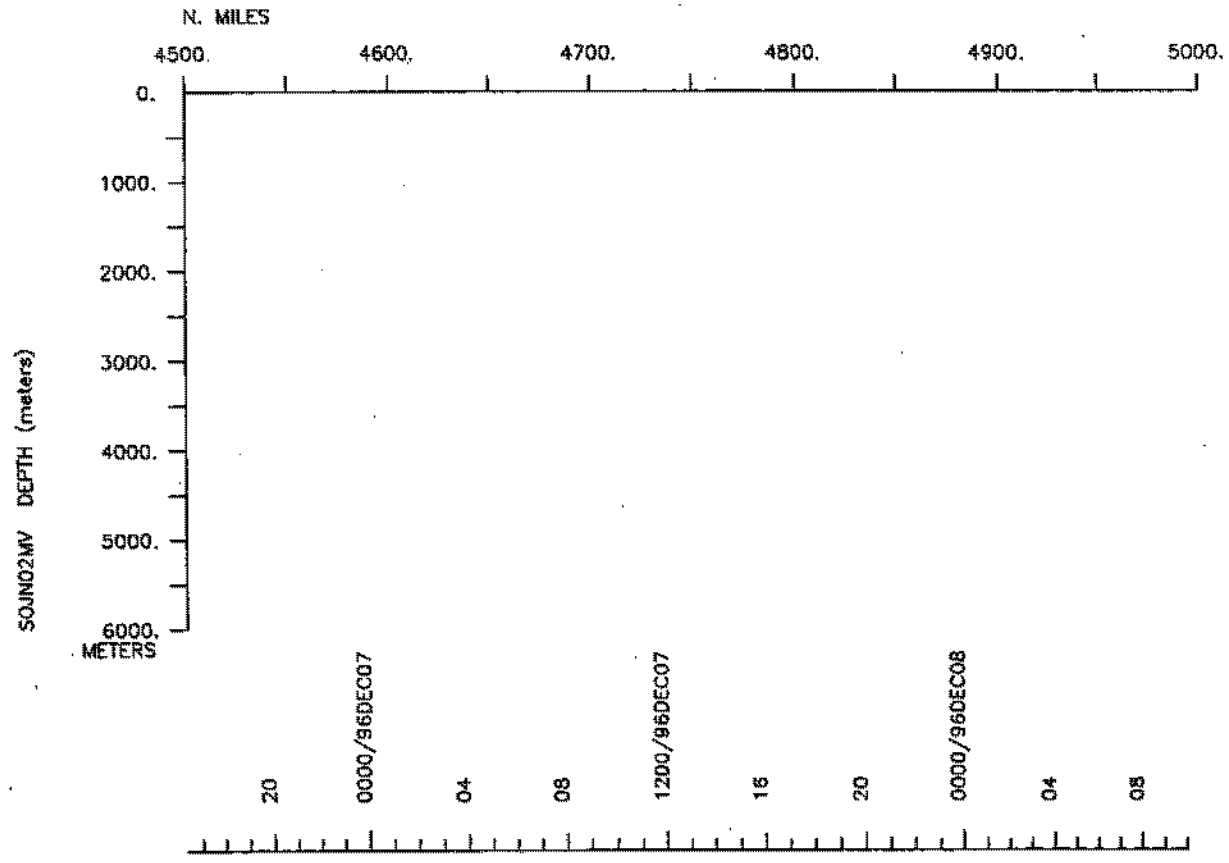
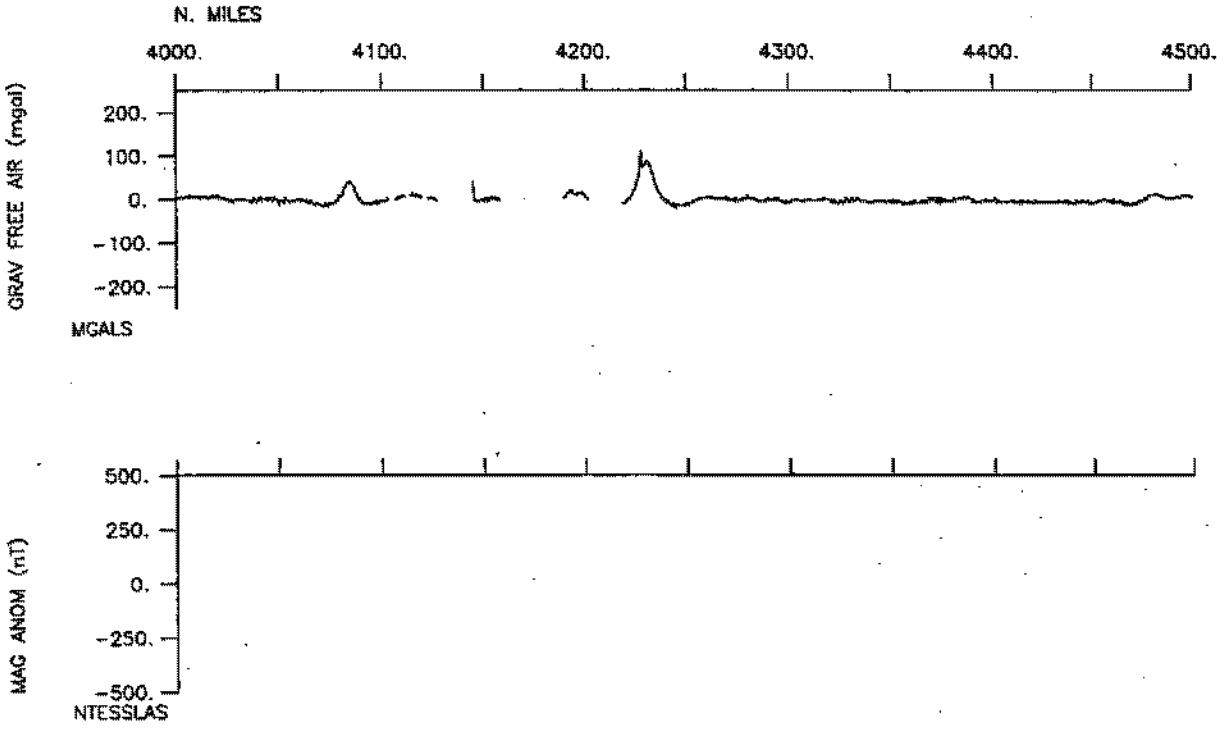
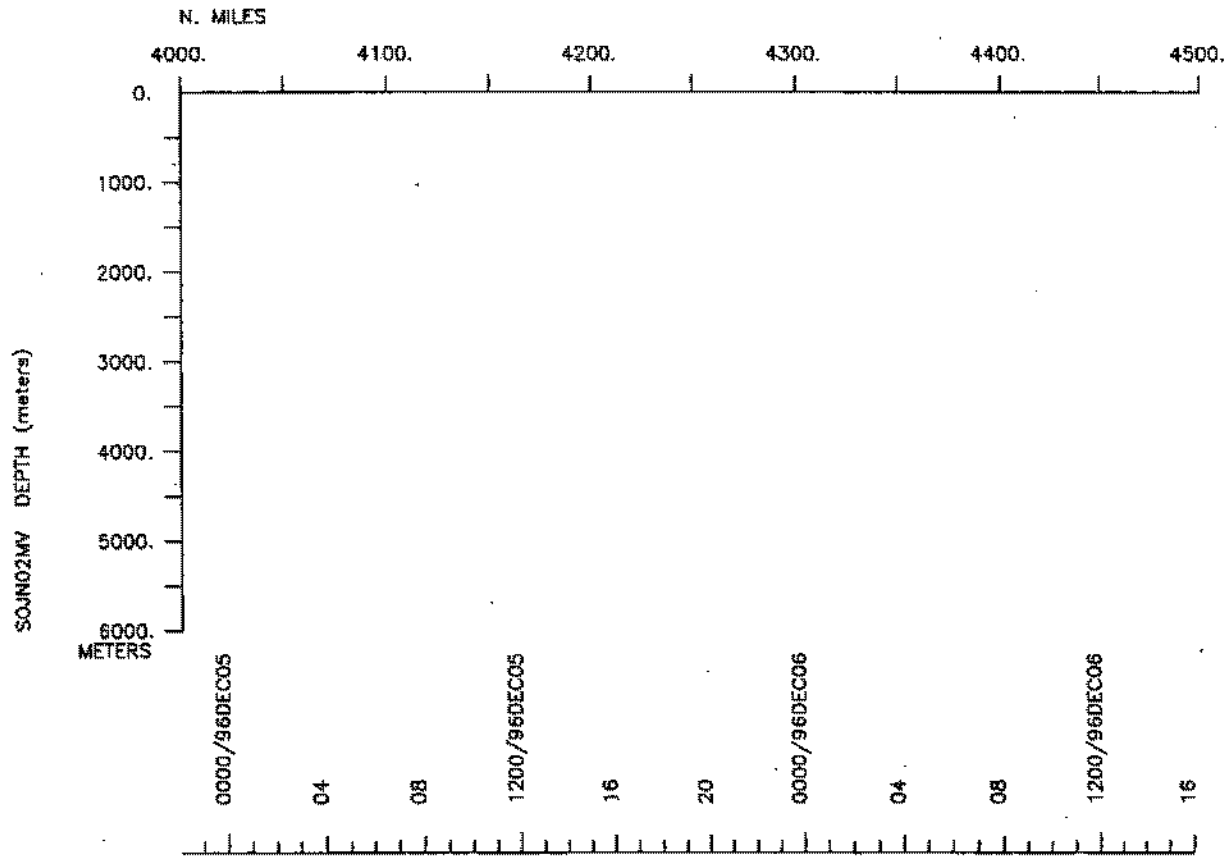
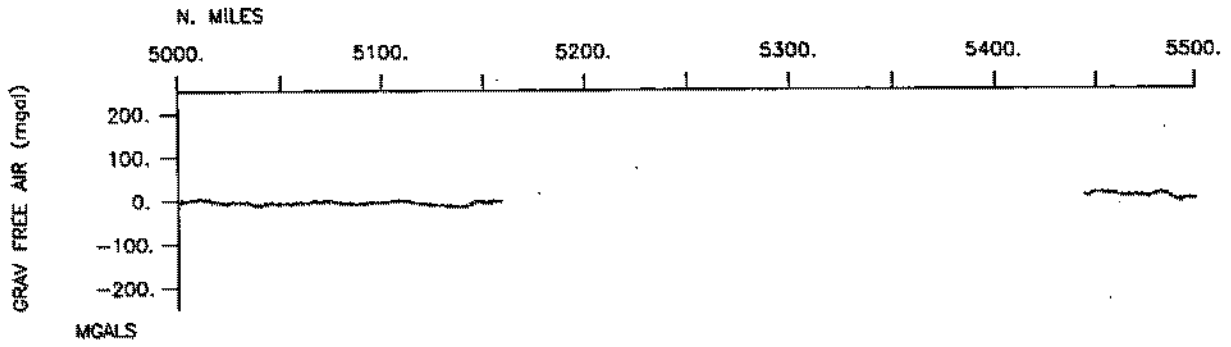
0.
-250.
-500.
NTESSLAS


N. MILES
4500.
4600.
4700.
4800.
4900.
5000.
SOJN02MV DEPTH (meters)
0.
1000.
2000.
3000.
4000.
5000.
6000.
METERS
20
0000/96DEC07
04
08
1200/96DEC07
16
20
0000/96DEC08
04
08


N. MILES
4000.
4100.
4200.
4300.
4400.
4500.
GRAV FREE AIR (mgal)
200.
100.
0.
-100.
-200.
MGALS
MAG ANOM (nT)
500.
250.
0.
-250.
-500.
NTESSLAS


N. MILES
4000.
4100.
4200.
4300.
4400.
4500.
SOJN02MV DEPTH (meters)
0.
1000.
2000.
3000.
4000.
5000.
6000.
METERS
0000/96DEC05
04
08
1200/96DEC05
16
20
0000/96DEC06
04
08
1200/96DEC06
16


N. MILES
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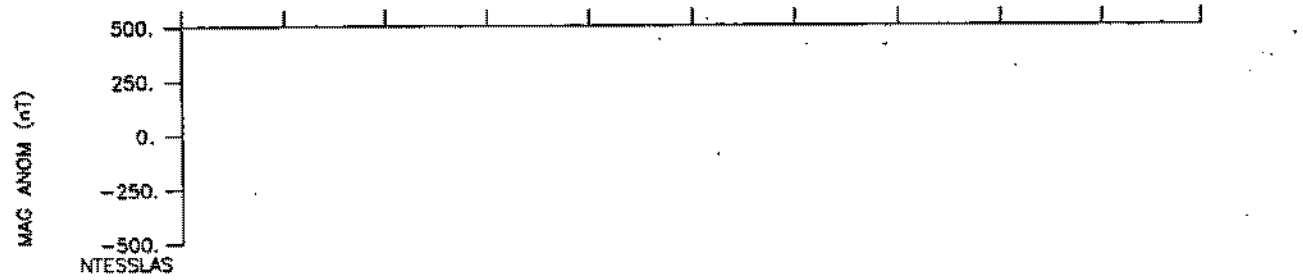
5100.
5200.
5300.
5400.
5500.
GRAV FREE AIR (mgal)
200.
100.
0.
-100.
-200.
MGALS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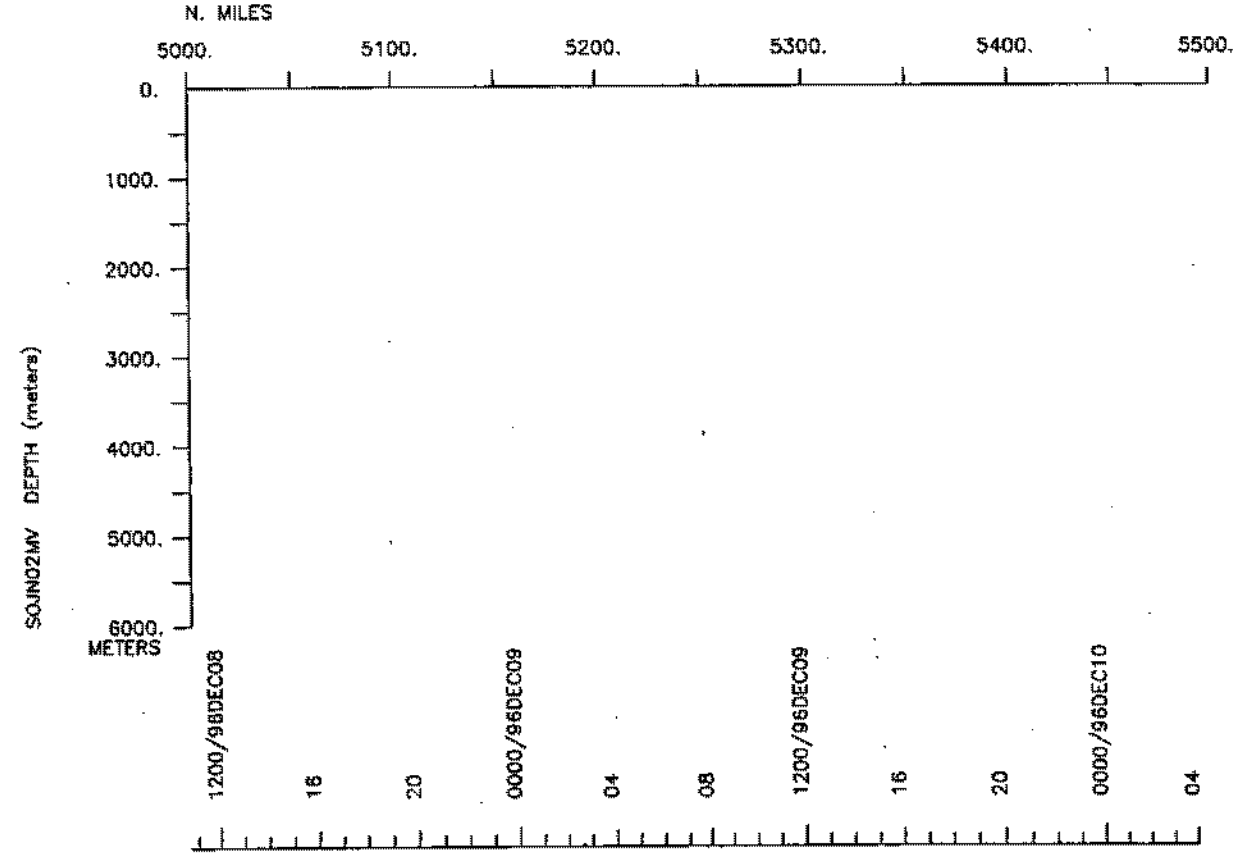
NTESSLAS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5200.
5300.
5400.
5500.
SOJNO2MV DEPTH (meters)
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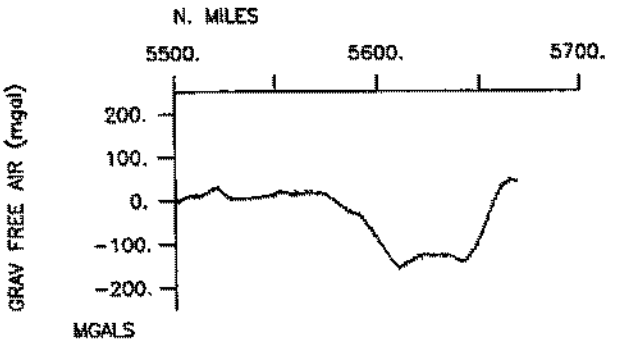
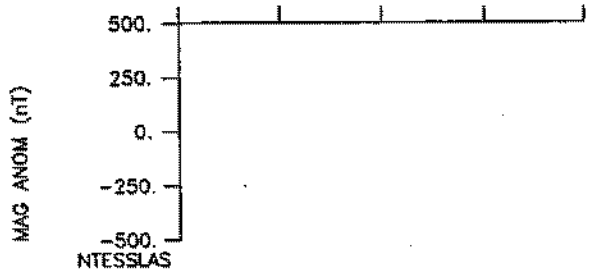
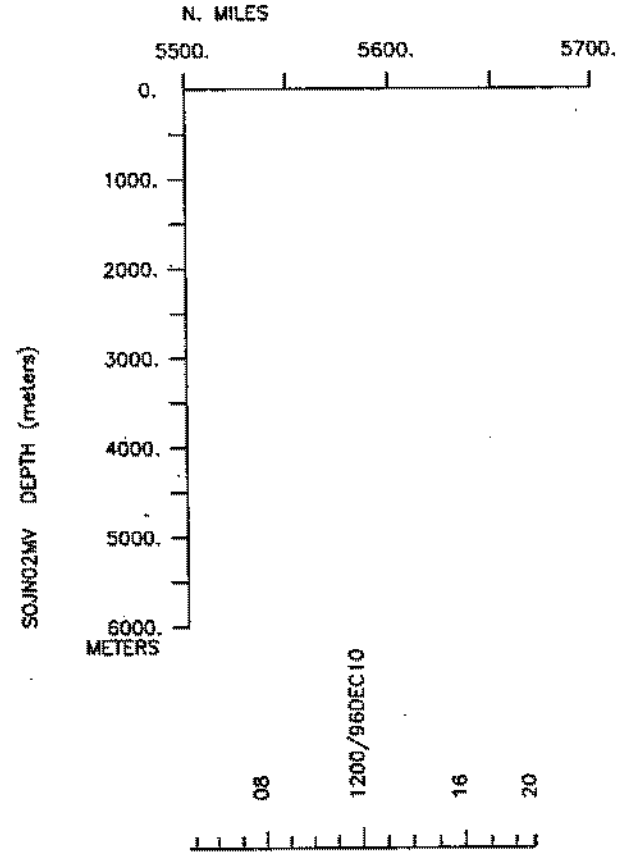
1000.
2000.
3000.
4000.
5000.
6000.
METERS
1200/98DEC08
16
20
0000/96DEC09
04
08
1200/96DEC09
16
20
0000/96DEC10
04


N. MILES
5500.
5600.
5700.
GRAV FREE AIR (mgal)
200.
100.
0.
-100.
-200.
MGALS


MAG ANOM (nT)
500.
250.
0.
-250.
-500.
NTESSLAS


N. MILES
5500.
5600.
5700.
SOJN02MV DEPTH (meters)
0.
1000.
2000.
3000.
4000.
5000.
6000.
METERS
08
1200/96DEC10
16
20

S.I.O. SAMPLE INDEX

SOJOURN EXPEDITION

LEG 2

(SOJN02MV)

R/V Melville

(Issued March 1997)

Ports:

Papeete, Tahiti (28 October 1996)
to
Valparaiso, Chile (10 December 1996)

Chief Scientist:

Rachel Haymon (Univ. Of Calif. Santa Barbara)

The Sample Index is a first level interdisciplinary listing of time, position, sample identification and disposition of all samples, records and measurements collected on this cruise leg. The index data are encoded at sea by the resident marine technician and processed on shore by the S.I.O. Geological Data Center shortly after the completion of the cruise leg.

Positions are interpolated on the basis of sample time by comparison to a single, edited navigation file. Samples beginning at one time and position and ending at another are entered on two consecutive lines. Disposition and sample type are represented by three and four character codes to permit future computer searches on these parameters. (Listings defining these cods are available from the Geological Data Center.)

GDC CRUISE I.D.# 269

```
#*** Ports ***

1800 281096 10 LGPT B Papeete, Tahiti       GDC  17-32.00S 149-34.00W f SOJN02MV
1800 101296  3 LGPT E Valapariso, Chile     GDC  33-02.00S  71-37.00W f SOJN02MV


#*** Personnel ***
#         ********NAME******** ******TITLE******  *****AFFILIATION**** **CRID**
#--- ---- -------------------- ------------------ -------------------- --------

PESP UCSB Haymon,Dr.R.         Chief Scientist    U.C. Santa Barbara   SOJN02MV
PEST UCSB Baron,S.             Grad. Student      U.C. Santa Barbara   SOJN02MV
PEVL UCSB Bezy,B.              Volunteer          U.C. Santa Barbara   SOJN02MV
PEVL UCSB Birk,E.              Volunteer          U.C. Santa Barbara   SOJN02MV
PESP WHO  Crook,T.             Technician         Woods Hole           SOJN02MV
PEST UCSB Crowder,L.           Grad. Student      U.C. Santa Barbara   SOJN02MV
PESP WHO  Elder, B.            Technician         Woods Hole           SOJN02MV
PESP WHO  Feldman, K.          Technician         Woods Hole           SOJN02MV
PESP WHO  Gleason, D.          Technician         Woods Hole           SOJN02MV
PEST UCSB Hobson,J.            Grad. Student      U.C. Santa Barbara   SOJN02MV
PEVL SIX  Gyongyver,L.         Volunteer          Rutgers Univ.        SOJN02MV
PESP WHO  Lemmond,P.           Technician         Woods Hole           SOJN02MV
PESP UCSB MacDonald,K.         Co-Chief Sci.      U.C. Santa Barbara   SOJN02MV
PEST MIT  Madge,L.             Grad Student       Mass. Inst. of Tech. SOJN02MV
PESP WHO  Olds, D.             Technician         Woods Hole           SOJN02MV
PERT STS  Pillard,E.           Resident tech      Scripps Institution  SOJN02MV
PECT STS  Porteous,T.          Computer Engineer  Scripps Institution  SOJN02MV
PECS UCSB Scheirer,Dr.D.       Scientist          Brown University     SOJN02MV
PESP WHO  Sellers, W.          Technician         Woods Hole           SOJN02MV
PEST UCSB Sharfstein,P.        Grad. Student      U.C. Santa Barbara   SOJN02MV
PESP SIX  Sudarakov,S.         Scientist          Russia               SOJN02MV
PEST UCSB Terra,F.             Undergrad.student  U.C. Santa Barbara   SOJN02MV
PESP SIX  van Dover,C.         Scientist          Univ. of Alaska      SOJN02MV
PESP UCSB White,S.             Undergrad.student  U.C. Santa Barbara   SOJN02MV
PESP OSU  Wright,D.            Scientist          Oregon State Univ.   SOJN02MV

#*** 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    SAMP B SAMPLE                DISP                          p CRUISE
#TIME DATE  TZ CODE E IDENTIFIER            CODE LATITUDE  LONGITUDE      c LEG-SHIP
#---------- -- ---- - ------------------------ ---- --------- ---------- - --------

#*** Underway Data Curator - S. M. Smith  ext. 42752 ***

#*** Log Books ***

1800 281096  0 LBUW B Underway Watch Log   GDC  17-32.39S 149-34.84W g SOJN02MV
2043 061196  0 LBUW E Underway Watch Log   GDC  17-24.94S 113-12.22W g SOJN02MV

1800 281096  0 LBSC B Science Log Book 1   UCSB 17-32.39S 149-34.84W g SOJN02MV
1703 201196  0 LBSC E Science Log Book 1   UCSB 17-12.45S 112-47.31W g SOJN02MV

0231 211196  0 LBSC B Science Log Book 2   UCSB 18-23.57S 113-23.36W g SOJN02MV
2141 301196  0 LBSC E Science Log Book 2   UCSB 17-28.63S 113-12.64W g SOJN02MV


#*** Sea Beam Records (vertical beam and side scan) ***

2200 311096  0 MBSR B v.beam&sscan r-01    GDC  18-13.59S 132-54.72W g SOJN02MV
2011 061196  0 MBSR E v.beam&sscan r-01    GDC  17-24.07S 113-12.04W g SOJN02MV
```

#GMT DDMMYY #TIME DATE	TZ	SAMP CODE	B E	SAMPLE IDENTIFIER	DISP CODE	LATITUDE	LONGITUDE	p c	CRUISE LEG-SHIP
#*** Magnetics (Earth Total Field) Records ***									
2240 311096	0	MGRA	B	Magnetic Analog r-01	GDC	18-13.88S	132-47.49W	g	SOJN02MV
1616 011196	0	MGRA	E	Magnetic Analog r-01	GDC	18-45.31S	129-11.74W	g	SOJN02MV
1625 011196	0	MGRA	B	Magnetic Analog r-02	GDC	18-45.80S	129-09.91W	g	SOJN02MV
1415 051196	0	MGRA	E	Magnetic Analog r-02	GDC	17-24.38S	113-22.98W	g	SOJN02MV
#*** Continuous Recorded Gravity ***									
1800 281096	0	GVCR	B	Gravity-digital	GDC	17-32.39S	149-34.84W	g	SOJN02MV
1800 101296	0	GVCR	E	Gravity-digital	GDC	32-57.71S	71-45.08W	g	SOJN02MV
#*** Intergrated Meteorological Acquisition System ***									
1800 281096	0	IMET	B	Weather Measurements	GDC	17-32.39S	149-34.84W	g	SOJN02MV
1800 101296	0	IMET	E	Computer logged	GDC	32-57.71S	71-45.08W	g	SOJN02MV
#*** Acoustic Doppler Current Profiler ***									
2300 281096	0	ADCP	B	Accoustic Doppler	GDC	17-28.95S	148-34.76W	g	SOJN02MV
1800 101296	0	ADCP	E	Current Profiler	GDC	32-57.71S	71-45.08W	g	SOJN02MV
#*** Camera ***									
1955 021196	0	CAXX	B	ARGO II, video	UCSB	18-10.40S	124-15.18W	g	SOJN02MV
2342 021196	0	CAXX	E	mag, ctd, s.scan	UCSB	18-10.08S	124-15.85W	g	SOJN02MV
0128 081196	0	CAXX	B	ARGO II, video	UCSB	17-41.30S	113-16.08W	g	SOJN02MV
0821 081196	0	CAXX	E	mag, ctd, s.scan	UCSB	17-40.96S	113-15.50W	g	SOJN02MV
1617 091196	0	CAXX	B	ARGO II, video	UCSB	17-19.71S	113-10.67W	g	SOJN02MV
1748 091196	0	CAXX	E	ctd, ss sonar	UCSB	17-19.71S	113-10.67W	g	SOJN02MV
0421 101196	0	CAXX	B	ARGO II, video	UCSB	17-15.08S	113-09.77W	g	SOJN02MV
0215 131196	0	CAXX	E	ctd, ss sonar	UCSB	17-14.60S	113-09.34W	g	SOJN02MV
1700 131196	0	CAXX	B	ARGO II, video	UCSB	17-15.00S	113-09.86W	g	SOJN02MV
1634 191196	0	CAXX	E	ctd, ss sonar	UCSB	17-37.24S	113-15.07W	g	SOJN02MV
2232 191196	0	CAXX	B	Medea, video	UCSB	17-16.38S	113-08.22W	g	SOJN02MV
0247 201196	0	CAXX	E	Medea	UCSB	17-16.26S	113-07.81W	g	SOJN02MV
0947 201196	0	CAXX	B	Medea, video	UCSB	17-13.55S	112-47.87W	g	SOJN02MV
1508 201196	0	CAXX	E	Medea	UCSB	17-13.57S	112-47.73W	g	SOJN02MV
1032 211196	0	CAXX	B	ARGO II, video	UCSB	18-23.20S	113-22.80W	g	SOJN02MV
1323 271196	0	CAXX	E	ctd, ss sonar	UCSB	17-22.42S	113-11.51W	g	SOJN02MV
1654 291196	0	CAXX	B	ARGO II, video	UCSB	17-29.09S	113-13.16W	g	SOJN02MV
2141 301196	0	CAXX	E	ctd, ss sonar	UCSB	17-28.63S	113-12.64W	g	SOJN02MV

#GMT DDMMYY #TIME DATE	TZ	SAMP CODE	B E	SAMPLE IDENTIFIER	DISP CODE	LATITUDE	LONGITUDE	p c	CRUISE LEG-SHIP
#*** Cores ***									
0030 031196	0	CORG	B	Wax Core #1	UCSB	18-10.41S	124-15.18W	g	SOJN02MV
0040 031196	0	CORG	E	Wax Core #1	UCSB	18-10.41S	124-15.18W	g	SOJN02MV
0105 031196	0	CORG	B	Wax Core #2	UCSB	18-10.41S	124-15.17W	g	SOJN02MV
0115 031196	0	CORG	E	Wax Core #2	UCSB	18-10.39S	124-15.17W	g	SOJN02MV
#*** Navigation Transponders ***									
1709 051196	0	NVXX	B	Transponder H	UCSB	17-24.56S	113-11.51W	g	SOJN02MV
1800 101296	0	NVXX	C	Xmit-11.00, Rec-9.0	UCSB	32-57.71S	71-45.08W	g	SOJN02MV
1752 051196	0	NVXX	B	Transponder G	UCSB	17-26.60S	113-11.79W	g	SOJN02MV
1800 101296	0	NVXX	C	Xmit-10.50, Rec-9.0	UCSB	32-57.71S	71-45.08W	g	SOJN02MV
0350 211196	0	NVXX	B	Transponder S	UCSB	18-25.15S	113-23.49W	g	SOJN02MV
1800 101296	0	NVXX	C	Xmit-11.50, Rec-9.0	UCSB	32-57.71S	71-45.08W	g	SOJN02MV
#*** Conductivity, Temperature, Depth ***									
0748 061196	0	TDXX	B	AMS 120 , mag	UCSB	17-10.02S	113-08.82W	g	SOJN02MV
1946 071196	0	TDXX	E	ctd, ss sonar	UCSB	17-56.78S	113-17.09W	g	SOJN02MV
1350 081196	0	TDXX	B	CTD Tow-Yo	UCSB	17-41.00S	113-15.66W	g	SOJN02MV
0223 091196	0	TDXX	E	CTD Tow-Yo	UCSB	17-35.03S	113-14.88W	g	SOJN02MV
0418 131196	0	TDXX	B	CTD Tow-Yo	UCSB	17-14.95S	113-09.78W	g	SOJN02MV
0930 131196	0	TDXX	E	CTD Tow-Yo	UCSB	17-16.99S	113-10.23W	g	SOJN02MV
2228 271196	0	TDXX	B	AMS-120, ss sonar	UCSB	18-36.11S	113-23.66W	g	SOJN02MV
1136 291196	0	TDXX	E	AMD-120, ss sonar	UCSB	17-45.62S	113-16.00W	g	SOJN02MV
#*** Expendable Bathythermographs ***									
1109 021196	0	BTXP		sojourn xbt 8-14	GDC	18-25.24S	125-32.42W	g	SOJN02MV
1230 021196	0	BTXP		sojourn xbt 8-14	GDC	18-22.21S	125-16.14W	g	SOJN02MV
#*** Ocean Bottom Seismometers ***									
1800 281096	0	SBOB	C	Dorman OBS recovered	SIO	17-32.39S	149-34.84W	g	SOJN02MV
0307 201196	0	SBOB	E	Dorman OBS recovered	SIO	17-16.46S	113-08.37W	g	SOJN02MV
1800 281096	0	SBOB	C	WHOI OBS recovered	WHOI	17-32.39S	149-34.84W	g	SOJN02MV
1530 201196	0	SBOB	E	WHOI OBS recovered	WHOI	17-13.55S	112-48.19W	g	SOJN02MV
#				End Sample Index					SOJN02MV