Report and Index of

Underway Marine Geophysical Data

Vancouver Expedition

Leg 24

(VANC24MV)

R/V Melville

(Issued Jul 2004)

Ports:
Cairns, Australia (12-Mar-04)
to
Port Moresby, Papua New Guinea (20-Mar-04)

Chief Scientist: Andre Droxler
Rice University
andre@rice.edu

Computer Tech - Dan Jacobson
Resident Tech - Ron Comer

Post-Cruise processing and report preparation by the
Shipboard Technical Support Group,
Scripps Institution of Oceanography
La Jolla, CA 92093-0223

Note: *This is an index of underway geophysical data edited and processed after the completion of the 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 Shipboard Technical Support, Scripps Institution of Oceanography, La Jolla, California 92093-0223*

STS Cruise ID#299

Report and Index of Navigation
and Underway Geophysical Data

Contents:

Index Chart - give track of cruise leg, dates, ports.

Track Charts - annotated with dates and hour ticks.

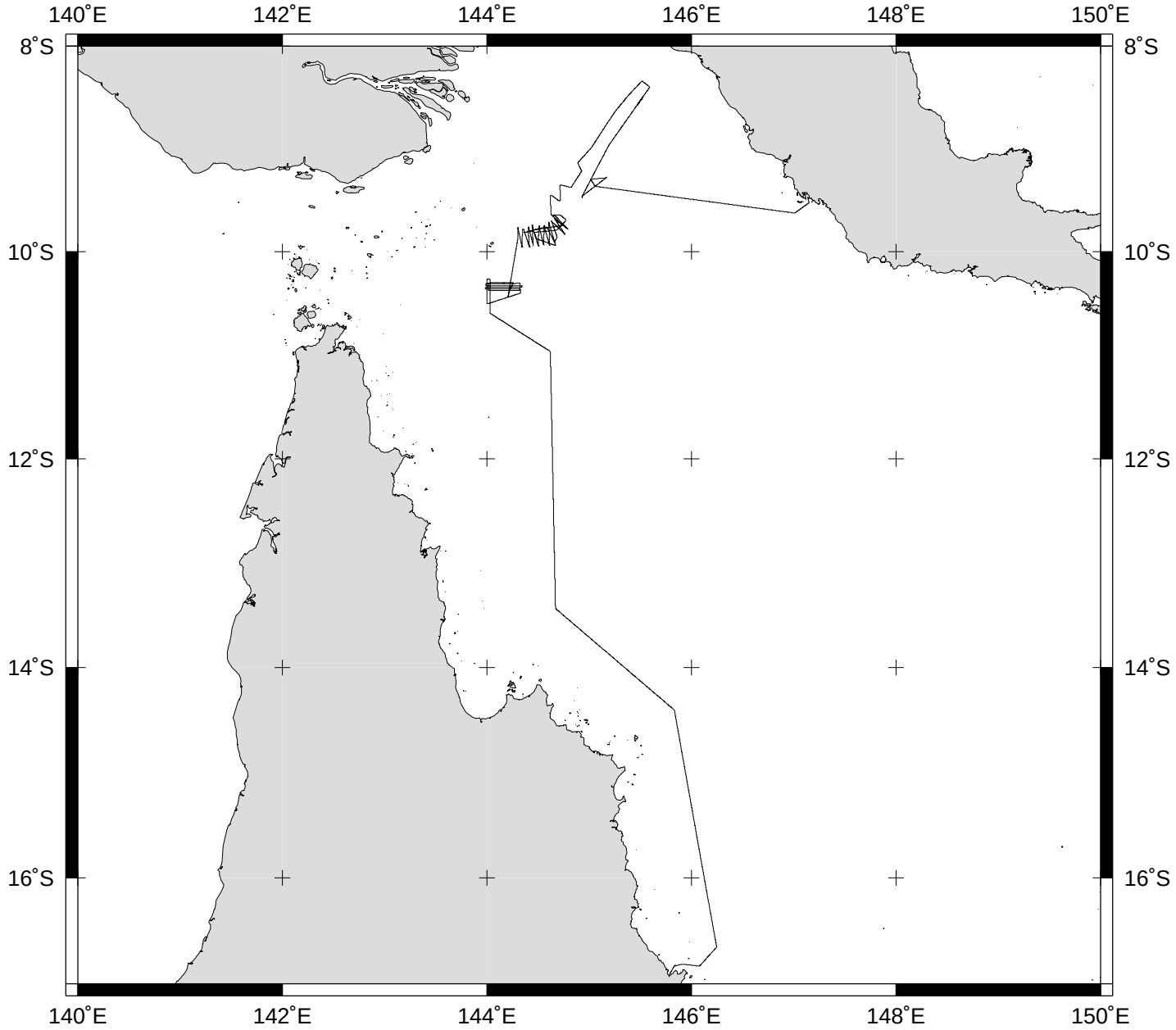
Profiles - depth, magnetic and gravity free air anomaly vs. distance.

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:
For information on the availability of this current digital data as well as archived digital data contact:

Stephen P. Miller
Geological Data Center
Scripps Institution of Oceanography
La Jolla, California 92093-0220
Phone: (858) 534-1898
Internet email: spmiller@ucsd.edu; or his website: http://SIOExplorer@ucsd.edu

Rev 05/2002



VANCOUVER EXPEDITION LEG 24 (VANC24MV)

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CHIEF SCIENTIST: Andre Droxler, Rice University

PORTS: Cairns, Australia - Port Morsby, Papua New Guinea

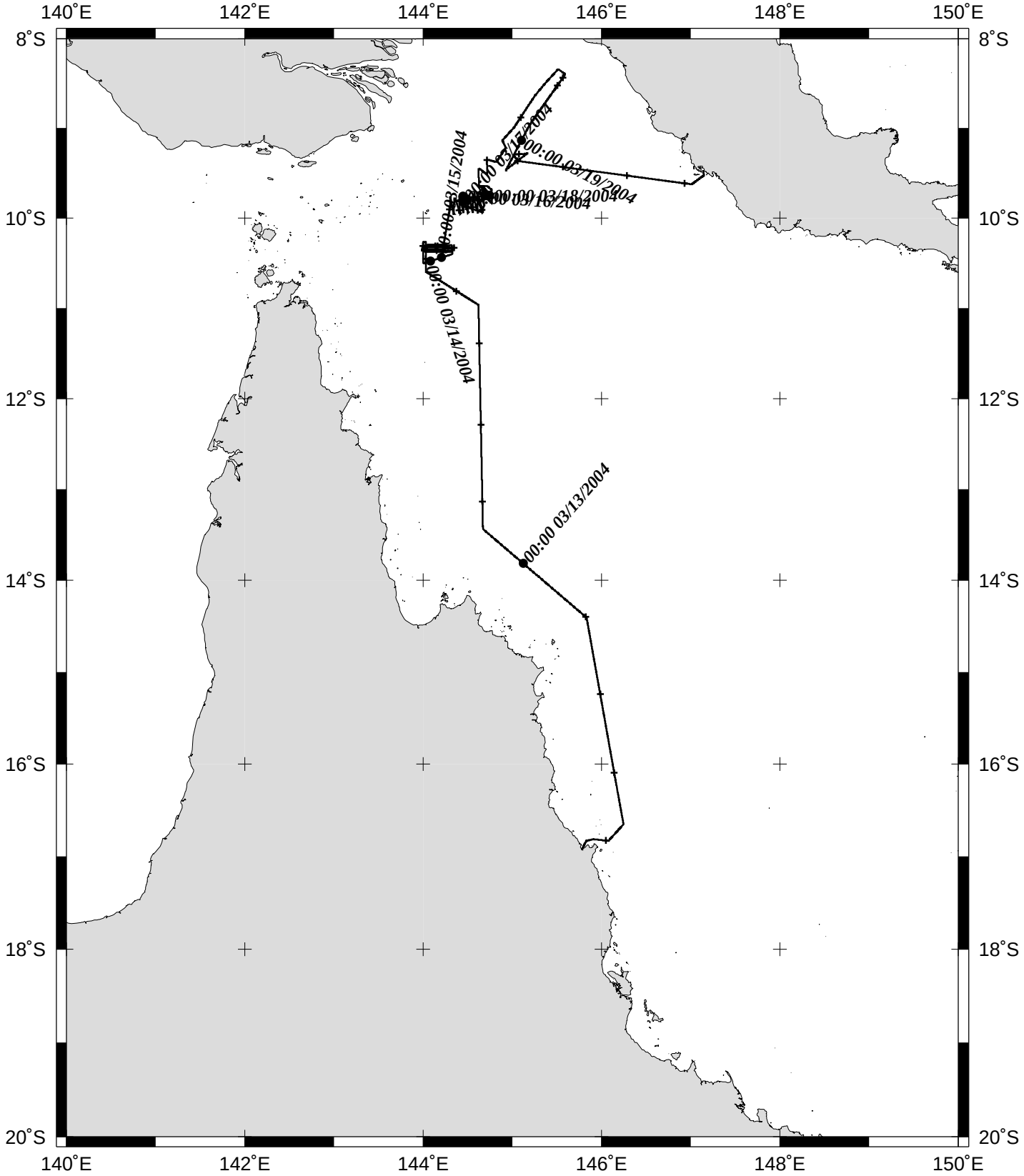
DATES: 12-20 March 2004

SHIP: R/V Melville

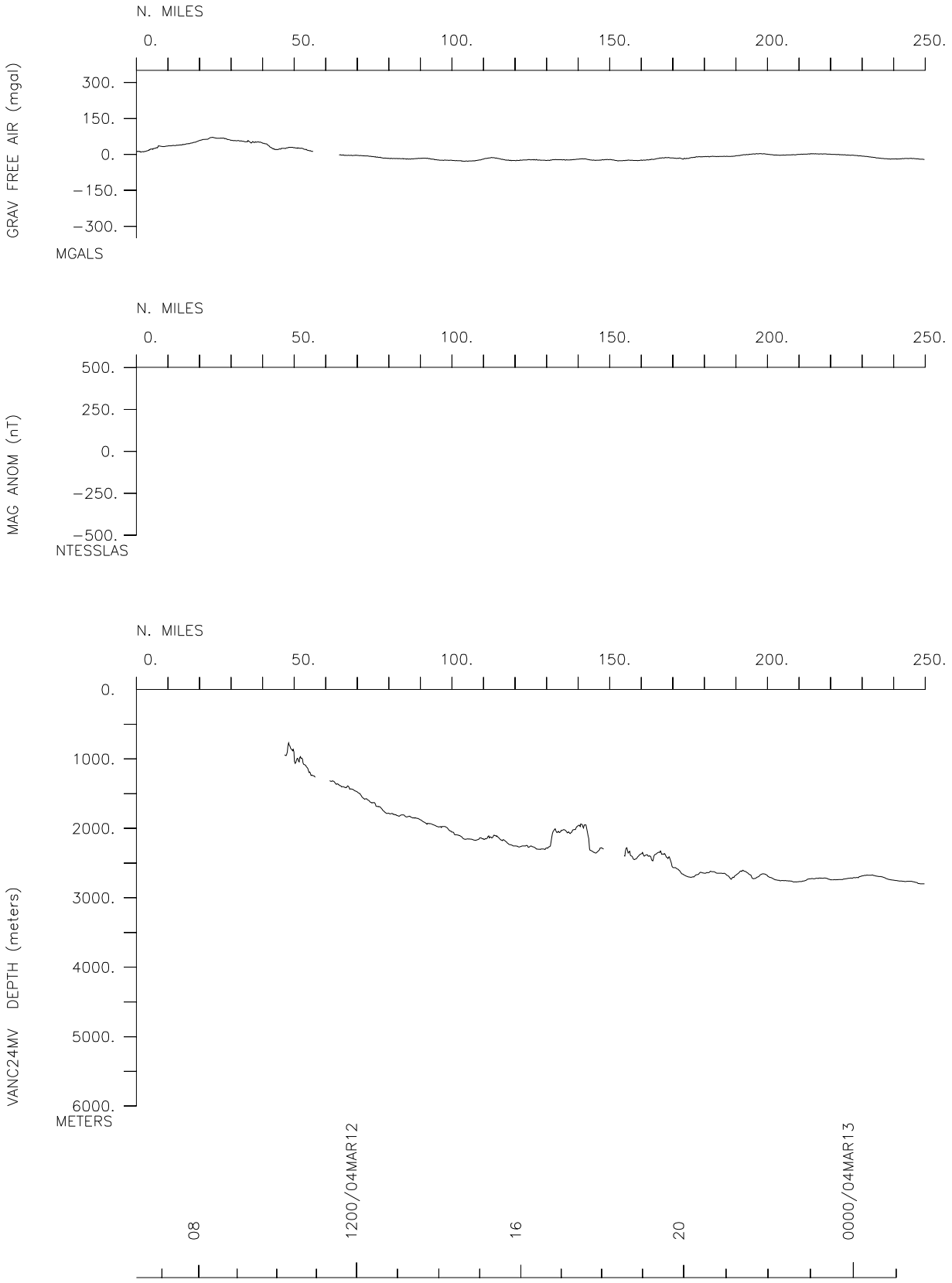
TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

Cruise-1379 miles	**Magnetics-none collected**
Bathymetry-1316 miles	**Seismic Reflection-none collected**
Multibeam-1316 miles	**Gravity-1368 miles**

VANC24MV



GMT 2004 Jun 29 15:13:47 **:Cairns, Australia - Port Moresby, Papua New Guinea 12 - 20 March 2004:**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100.
150.
200.
250.
GRAV FREE AIR (mgal)
300.
150.
0.
−150.
−300.
MGALS
N. MILES
0.
50.
100.
150.
200.
250.
MAG ANOM (nT)
500.
250.
0.
−250.
−500.
NTESSLAS
N. MILES
0.
50.
100.
150.
200.
250.
VANC24MV DEPTH (meters)
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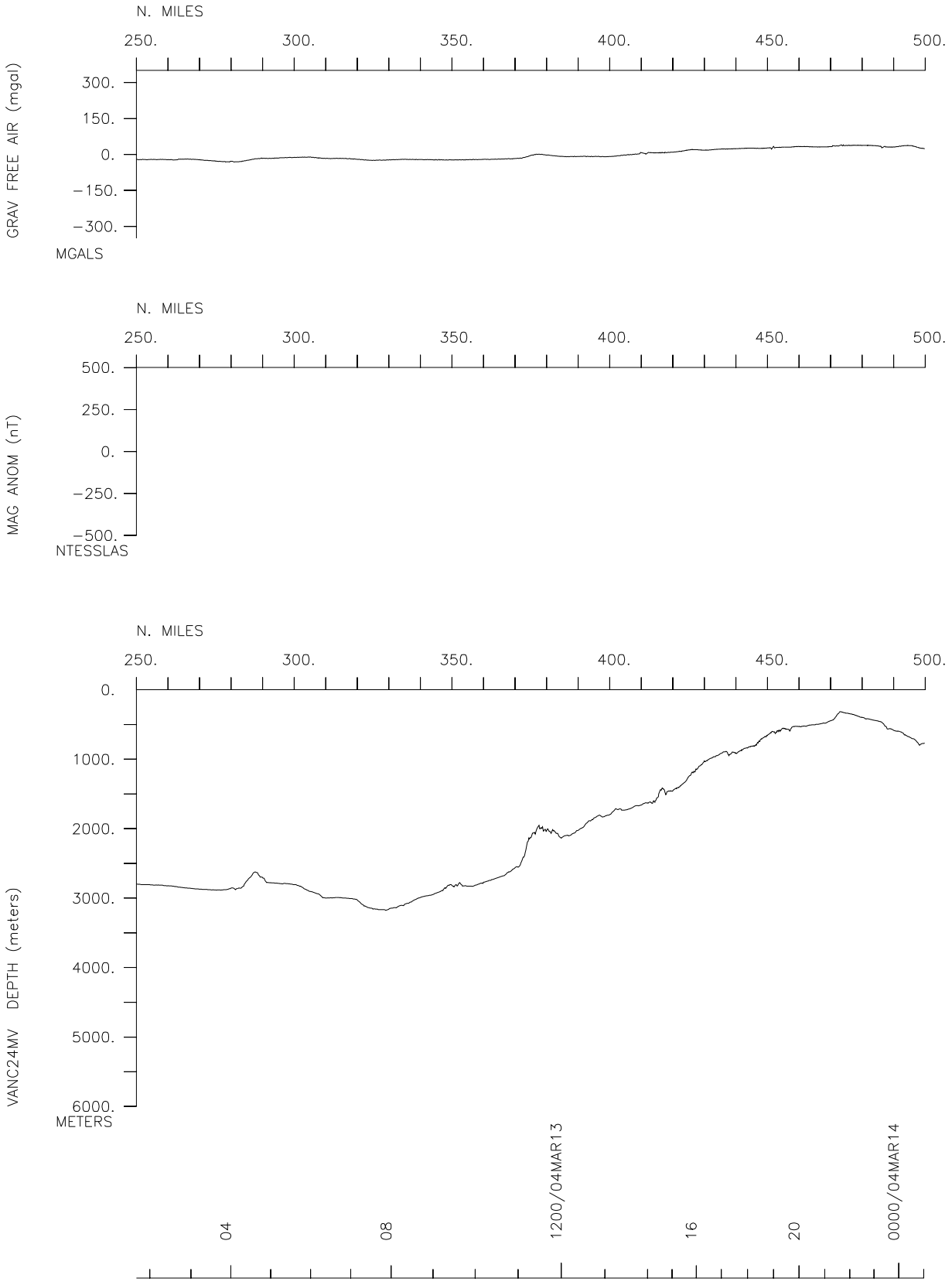
2000.
3000.
4000.
5000.
6000.
METERS
08
1200/04MAR12
16
20
0000/04MAR13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150.
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MGALS
N. MILES
250.
300.
350.
400.
450.
500.
MAG ANOM (nT)
500.
250.
0.
−250.
−500.
NTESSLAS
N. MILES
250.
300.
350.
400.
450.
500.
VANC24MV DEPTH (meters)
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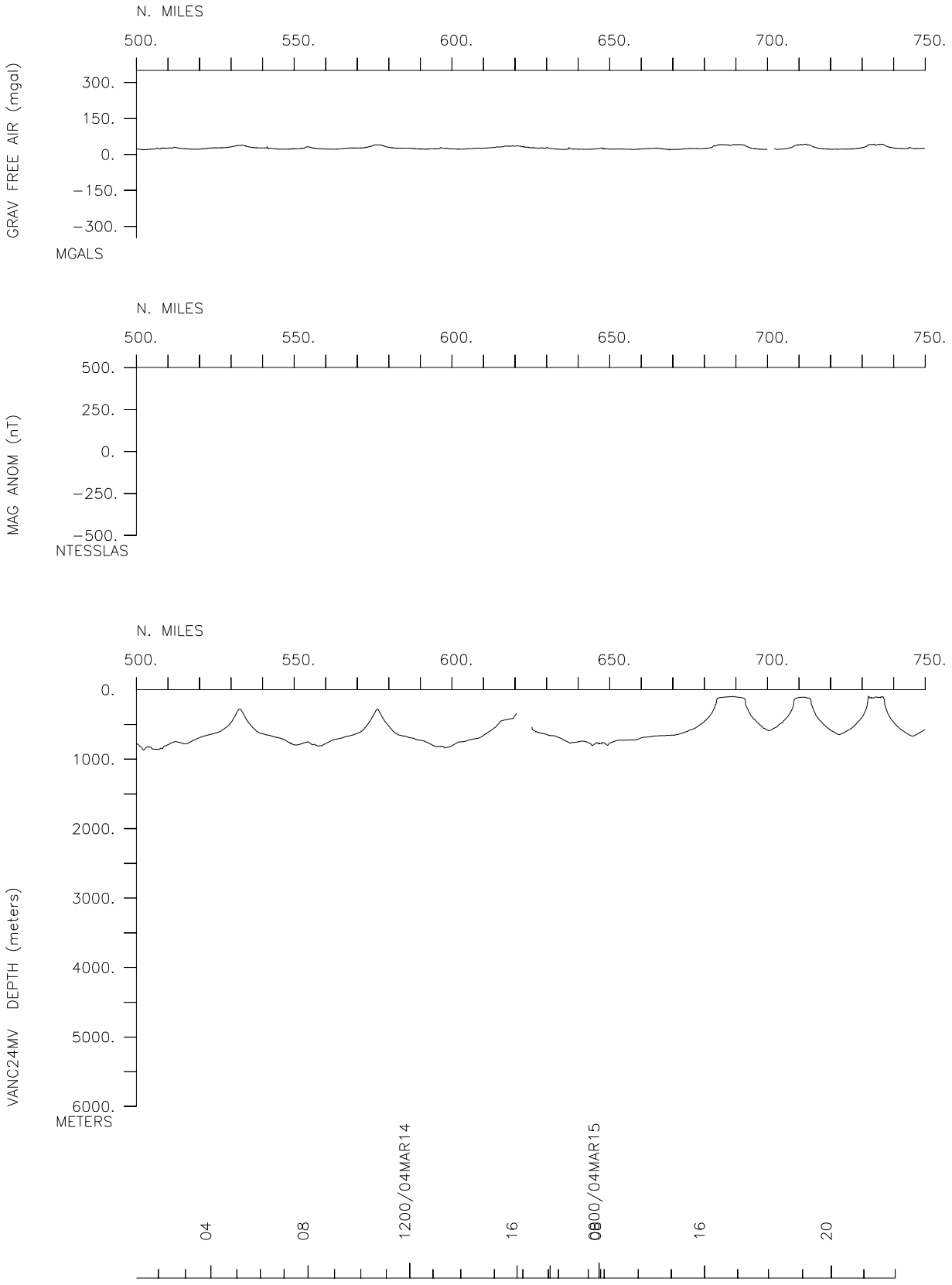
2000.
3000.
4000.
5000.
6000.
METERS
04
08
1200/04MAR13
16
20
0000/04MAR14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−150.
−300.
MGALS
N. MILES
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550.
600.
650.
700.
750.
MAG ANOM (nT)
500.
250.
0.
−250.
−500.
NTESSLAS
N. MILES
500.
550.
600.
650.
700.
750.
VANC24MV DEPTH (meters)
0.
1000.
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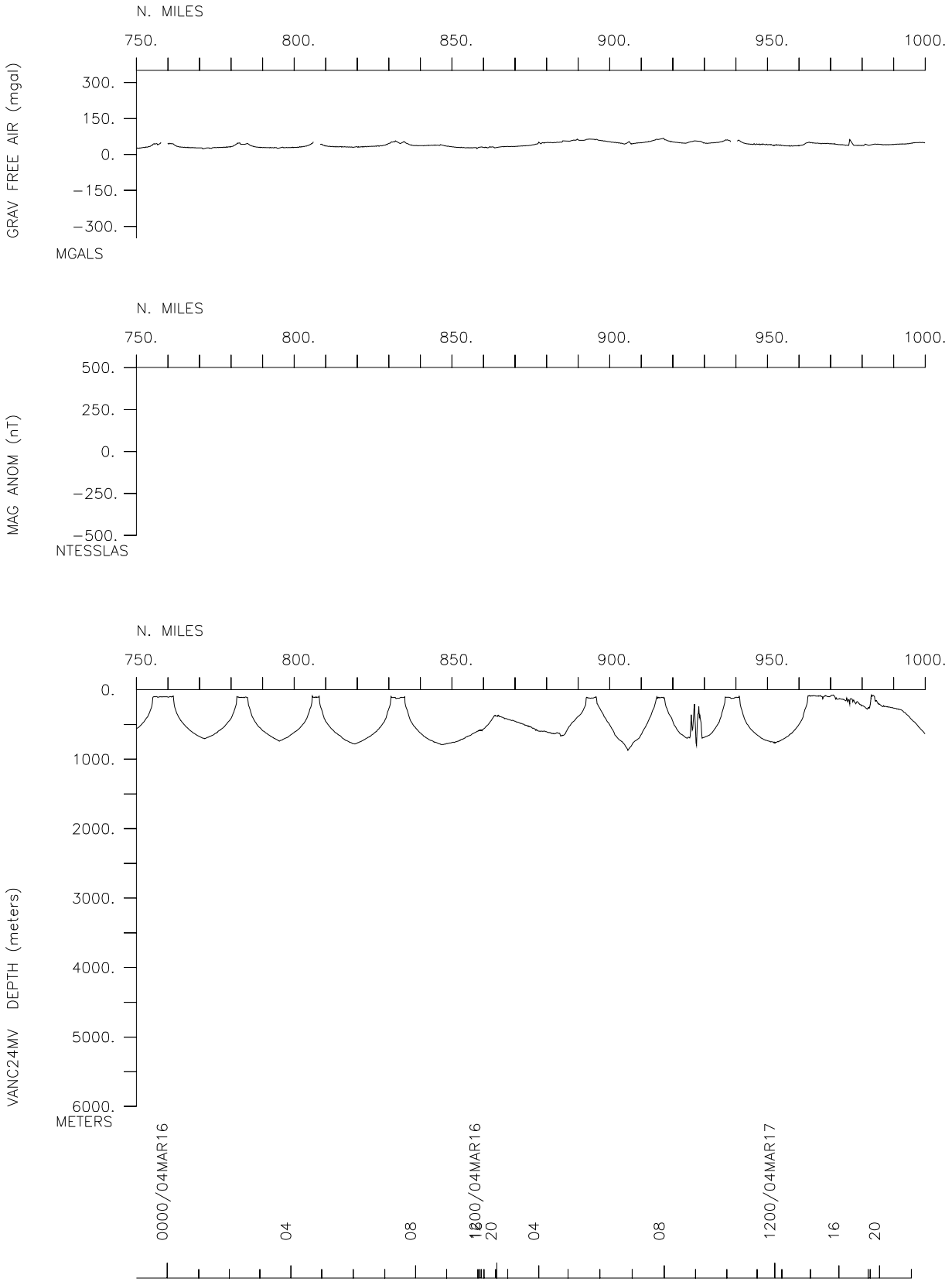
3000.
4000.
5000.
6000.
METERS
04
08
1200/04MAR14
16
1800/04MAR15
16
20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MGALS
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800.
850.
900.
950.
1000.
MAG ANOM (nT)
500.
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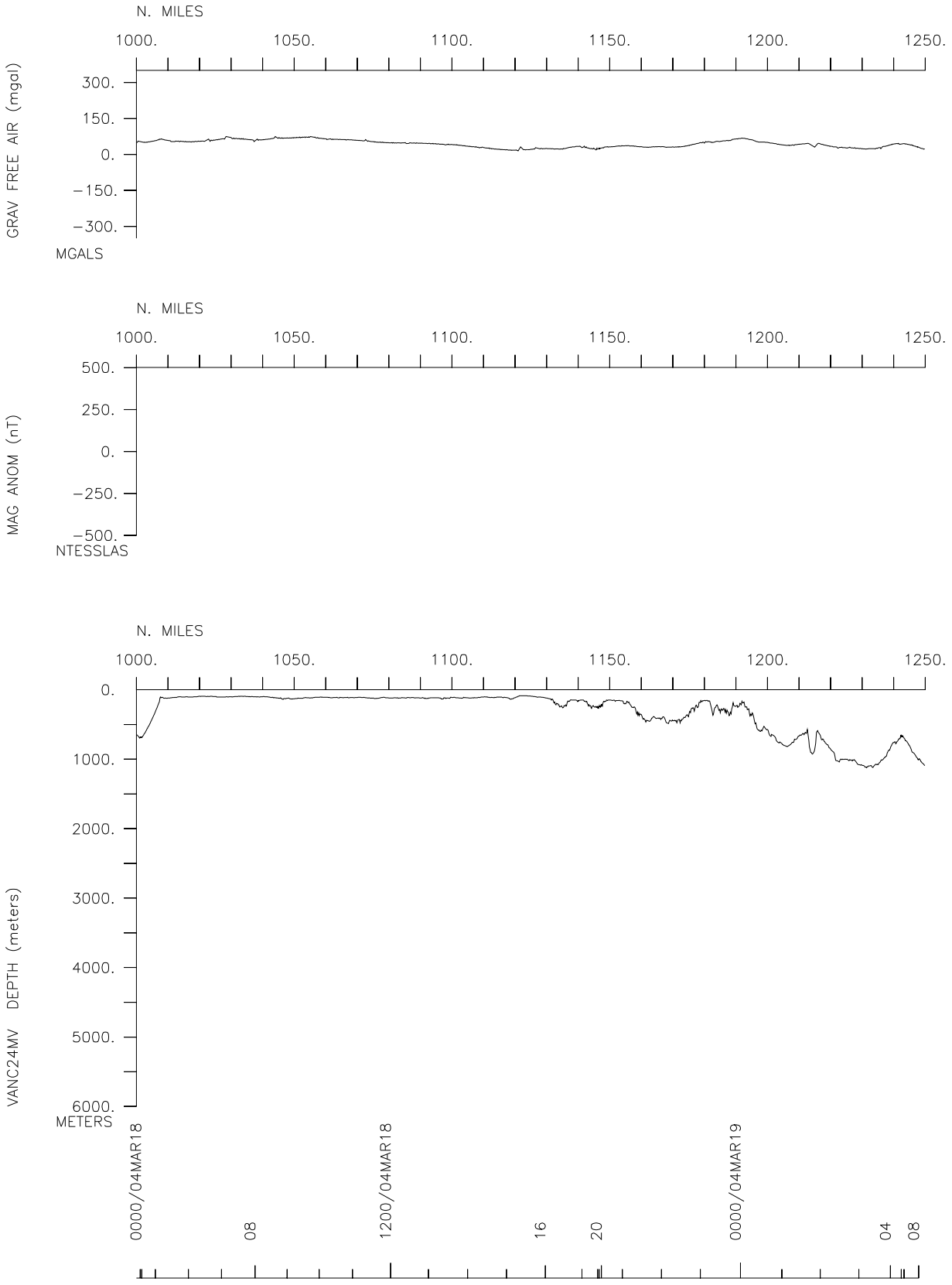
0.
−250.
−500.
NTESSLAS
N. MILES
750.
800.
850.
900.
950.
1000.
VANC24MV DEPTH (meters)
0.
1000.
2000.
3000.
4000.
5000.
6000.
METERS
0000/04MAR16
04
08
1200/04MAR16
20
04
08
1200/04MAR17
16
20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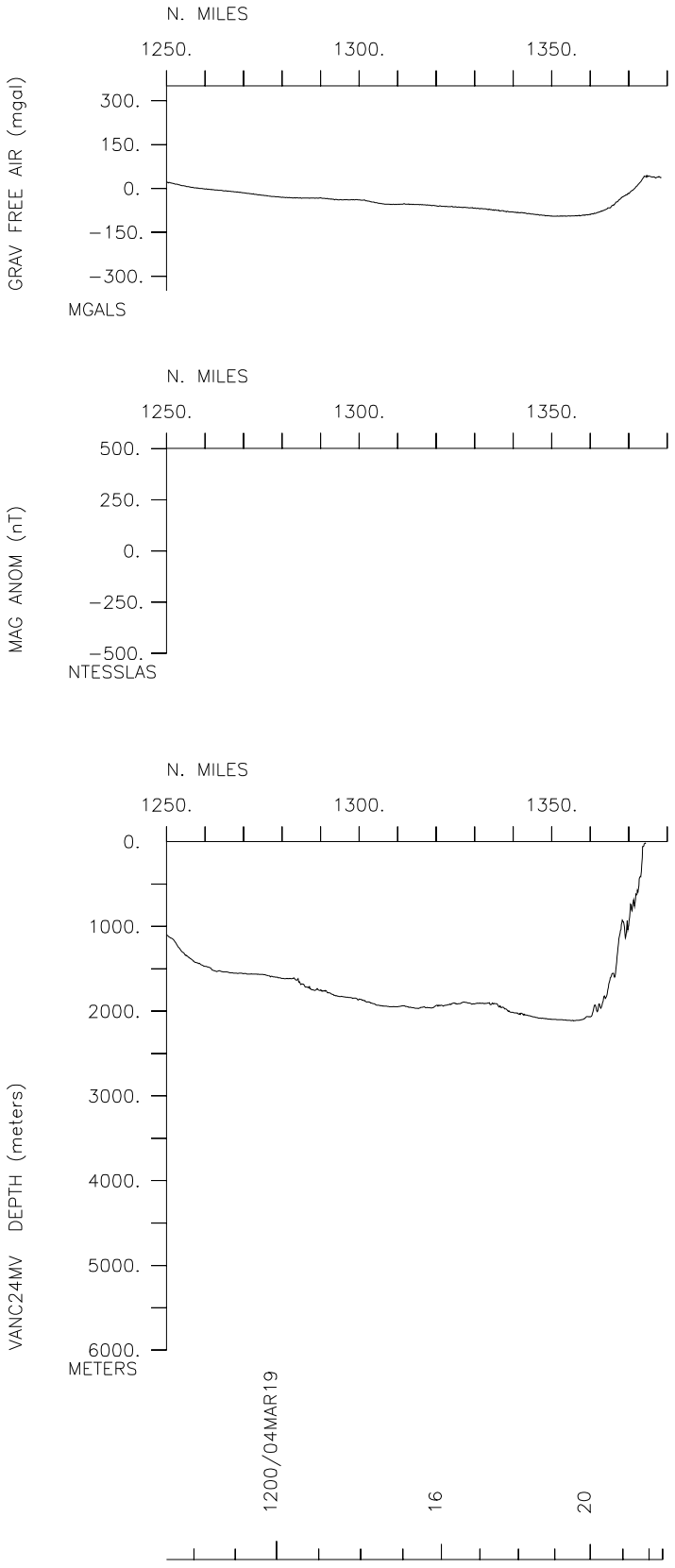
−300.
MGALS
N. MILES
1000.
1050.
1100.
1150.
1200.
1250.
MAG ANOM (nT)
500.
250.
0.
−250.
−500.
NTESSLAS
N. MILES
1000.
1050.
1100.
1150.
1200.
1250.
VANC24MV DEPTH (meters)
0.
1000.
2000.
3000.
4000.
5000.
6000.
METERS
0000/04MAR18
08
1200/04MAR18
16
20
0000/04MAR19
04
08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150.
0.
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MGALS
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1300.
1350.
MAG ANOM (nT)
500.
250.
0.
−250.
−500.
NTESSLAS
N. MILES
1250.
1300.
1350.
VANC24MV DEPTH (meters)
0.
1000.
2000.
3000.
4000.
5000.
6000.
METERS
1200/04MAR19
16
20

```
#*** Ports ***

0600 120304  0 LGPT B Cairns, Australia         16-55.94S 145-46.83E g VANC24MV
2300 190304  0 LGPT E Pt.Moresby,PapuaNewGuinea  9-28.10S 147-08.31E g VANC24MV


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

PECS SIX   Droxler, A.         Chief Scientist    Rice University      VANC24MV
PESP SIX   Dickens, G          Scientist          Rice University      VANC24MV
PESP SIX   Bentley, S.         Scientist          Louisiana State Univ VANC24MV
PESP SIX   Peterson, L.        Scientist          University of Miami  VANC24MV
PESP SIX   Opdyke, B.          Scientist          ANU                  VANC24MV
PESP SIX   Mallarino, G.       Scientist          Rice University      VANC24MV
PESP SIX   Zarikian, C.        Scientist          University of Miami  VANC24MV
PEST SIX   Francis, J.         gRAd Student       Rice University      VANC24MV
PEST SIX   Oleson, B.          Grad Student       Rice University      VANC24MV
PEST SIX   Maher, J.           Undergraduate      Rice University      VANC24MV
PEST SIX   Tang, J.            Undergraduate      Rice University      VANC24MV
PEST SIX   Febo, L.            Grad Student       Louisiana State Univ VANC24MV
PEST SIX   Muhammad, Z.        Grad Student       Louisiana State Univ VANC24MV
PEST SIX   Patterson, L.       Grad Student       Louisiana State Univ VANC24MV
PEST SIX   McFadden, Melany    Grad Student       University of Miami  VANC24MV
PEST SIX   Spinapolice, C.     Undergraduate      University of Miami  VANC24MV
PEVL SIO   Franklin, D.        Volunteer          Scripps Institution  VANC24MV
PECT STS   Jacobsen, D.        Computer Tech      Scripps Institution  VANC24MV
PERT STS   Comer, R.           Resident Tech      Scripps Institution  VANC24MV
PERT STS   Roswell, J.         Resident Tech      Scripps Institution  VANC24MV
PERT OSU   Moser, C.           Marine Tech        Oregon State Univ.   VANC24MV
PERT OSU   Hubbard, D.         Marine Tech        Oregon State Univ.   VANC24MV
PERT OSU   Kaulk, P.           Marine Tech        Oregon State Univ.   VANC24MV


#*** 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 - Shipboard Technical Support Group ext.41899 ***
#*** Digital Data Curator - Geological Data Center, S.P. Miller, ext.41898 ***


#*** MultiBeam Data (vertical beam and side scan) ***

1012 120304  0 MBSR B v.beam & sidescan    GDC  16-28.19S 146-12.71E g VANC24MV
2148 190304  0 MBSR E v.beam & sidescan    GDC   9-31.77S 147-08.57E g VANC24MV


#*** Echo Sounder Records ***    (12 or 3.5 kHz records)

0600 120304  0 DPR3 B Echosounder 3.5kHz   GDC  16-55.94S 145-46.83E g VANC24MV
2300 190304  0 DPR3 E Echosounder 3.5kHz   GDC   9-28.10S 147-08.31E g VANC24MV


#*** Digital Gravity ***

0601 120304  0 GVDD B Digital gravity      GDC  16-55.91S 145-46.84E g VANC24MV
2323 190304  0 GVDD E Digital gravity      GDC   9-28.09S 147-08.33E g VANC24MV
```

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

#*** Integrated Meteorological Acquisition System ***

0600 120304  0 IMET B Weather Measurements GDC  16-55.94S 145-46.83E g VANC24MV
2300 190304  0 IMET E Weather Measurements GDC   9-28.10S 147-08.31E g VANC24MV


#*** Acoustic Doppler Current Profiler ***

0600 120304  0 ADCP B 300khz Current Meas. GDC  16-55.94S 145-46.83E g VANC24MV
2300 190304  0 ADCP E Current Measurements GDC   9-28.10S 147-08.31E g VANC24MV


#*** Dredges ***
#*** Samples to Rice University ***

1739 170304  0 DRRO   Dredge #1            SIX   9-47.53S 144-26.73E g VANC24MV
1845 170304  0 DRRO   Dredge #1            SIX   9-47.44S 144-26.71E g VANC24MV


#*** Cores ***
#*** Samples to Rice University ***

1618 140304  0 COBX   Box Core #1          SIX  10-18.55S 144-00.00E g VANC24MV
1635 140304  0 COBX   Box Core #1     342M SIX  10-18.55S 144-00.00E g VANC24MV

1922 140304  0 COBX   Box Core #2          SIX  10-18.55S 144-09.79E g VANC24MV
1942 140304  0 COBX   Box Core #2     661M SIX  10-18.55S 144-09.79E g VANC24MV

2042 140304  0 COGV   Gravity Core #1      SIX  10-18.55S 144-09.79E g VANC24MV
2101 140304  0 COGV   Gravity Core #1 661M SIX  10-18.55S 144-09.79E g VANC24MV

2339 140304  0 COBX   Box Core #3          SIX  10-26.40S 144-12.30E g VANC24MV
0007 150304  0 COBX   Box Core #3     775M SIX  10-26.40S 144-12.30E g VANC24MV

0047 150304  0 COBX   Box Core #4          SIX  10-26.40S 144-12.30E g VANC24MV
0111 150304  0 COBX   Box Core #4     775M SIX  10-26.40S 144-12.30E g VANC24MV

0235 150304  0 COGV   Gravity core #2      SIX  10-26.40S 144-12.30E g VANC24MV
0602 150304  0 COGV   Gravity Core #2 775M SIX  10-26.40S 144-12.30E g VANC24MV

0950 150304  0 COPS   Piston Core #1       SIX  10-26.40S 144-12.30E g VANC24MV
1019 150304  0 COPS   Pistion Core#1  773M SIX  10-26.40S 144-12.30E g VANC24MV

1043 160304  0 COGV   Gravity Core #3      SIX   9-52.45S 144-28.87E g VANC24MV
1101 160304  0 COGV   Gravity Core #3 594M SIX   9-52.45S 144-28.88E g VANC24MV

1221 160304  0 COPS   Piston Core #2       SIX   9-52.45S 144-28.87E g VANC24MV
1239 160304  0 COPS   Piston Core #2  574M SIX   9-52.46S 144-28.88E g VANC24MV

1542 160304  0 COMC   Multi Core #1        SIX   9-52.45S 144-28.87E g VANC24MV
1602 160304  0 COMC   Multi core #1   584M SIX   9-52.45S 144-28.87E g VANC24MV

1808 160304  0 COGV   Gravity Core #4      SIX   9-48.73S 144-27.72E g VANC24MV
1820 160304  0 COGV   Gravity Core #4 377M SIX   9-48.73S 144-27.72E g VANC24MV
```

```
#GMT DDMMYY    SAMP B SAMPLE               DISP                        p CRUISE
#TIME DATE  TZ CODE E IDENTIFIER           CODE LATITUDE  LONGITUDE  c LEG-SHIP
#---------- -- ---- - -------------------- ---- --------- ---------- - --------
1918 160304  0 COMC   Multi Core #2        SIX   9-48.73S 144-27.72E g VANC24MV
1930 160304  0 COMC   Multi Core #2   372M SIX   9-48.73S 144-27.72E g VANC24MV

0022 170304  0 COPS   Piston Core #3       SIX   9-48.72S 144-27.72E g VANC24MV
0030 170304  0 COPS   Piston Core @   376M SIX   9-48.72S 144-27.72E g VANC24MV

1222 160304  0 COMC   Multi Core #3        SIX   9-52.45S 144-28.87E g VANC24MV
1243 170304  0 COMC   Multi Core #3   760M SIX   9-54.44S 144-39.65E g VANC24MV

0222 180304  0 COPS   Piston core #4       SIX   9-44.66S 144-44.66E g VANC24MV
0244 180304  0 COPS   Piston core #4  682M SIX   9-44.66S 144-44.66E g VANC24MV

1815 180304  0 COMC   Multi Core #5        SIX   8-30.66S 145-30.80E g VANC24MV
1825 180304  0 COMC   Multi Core #5   267M SIX   8-30.66S 145-30.80E g VANC24MV

1940 180304  0 COMC   Multi Core #6        SIX   8-31.41S 145-30.40E g VANC24MV
1948 180304  0 COMC   Multi Core #6   229M SIX   8-31.40S 145-30.40E g VANC24MV

0444 190304  0 COMC   Multi core #7        SIX   9-17.69S 145-01.11E g VANC24MV
0505 190304  0 COMC   Multi core #7   661M SIX   9-17.69S 145-01.11E g VANC24MV

0752 190304  0 COMC   Multi-Core #8        SIX   9-21.89S 145-03.42E g VANC24MV
0821 190304  0 COMC   Multi-Core     1001M SIX   9-21.89S 145-03.42E g VANC24MV


#*** Net Tows ***
#*** Samples to Rice University ***

2337 170304  0 ONVT   Vertical Net Tow #1  SIX   9-44.65S 144-44.66E g VANC24MV
0019 180304  0 ONVT   Vertical Net Tow #1  SIX   9-44.66S 144-44.66E g VANC24MV

0545 190304  0 ONVT   Vertical Net Tow #2  SIX   9-17.69S 145-01.11E g VANC24MV
0632 190304  0 ONVT   Vertical Net Tow #2  SIX   9-17.77S 145-01.03E g VANC24MV


#*** Expendable Bathythermographs ***

1203 120304  0 BTXP   TF_00003 Fast deep   STS  16-05.16S 146-08.40E g VANC24MV
0754 130304  0 BTXP   TF_00004 Fast deep   STS  12-18.72S 144-38.83E g VANC24MV
0918 160304  0 BTXP   TF_00005 Fast deep   STS   9-54.82S 144-35.80E g VANC24MV
0551 200304  0 BTXP   TF_00006 Fast deep   STS   9-28.09S 147-08.33E g VANC24MV

#                     End Sample Index                                 VANC24MV
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