Report and Index of

Underway Marine geophysical Data

Vancouver Expedition

Leg 04

(VANC04MV)

R/V Melville

(Issued Mar 2003)

Ports:
Valparaiso, Chile (08-DEC-02)
to
Capetown, South Africa (28-DEC-02)

Chief Scientist: Transit, No Chief Scientist on board
none
none

Computer Tech - Dan Jacobson
Resident Tech - No Resident Tech on board

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

Note:

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.

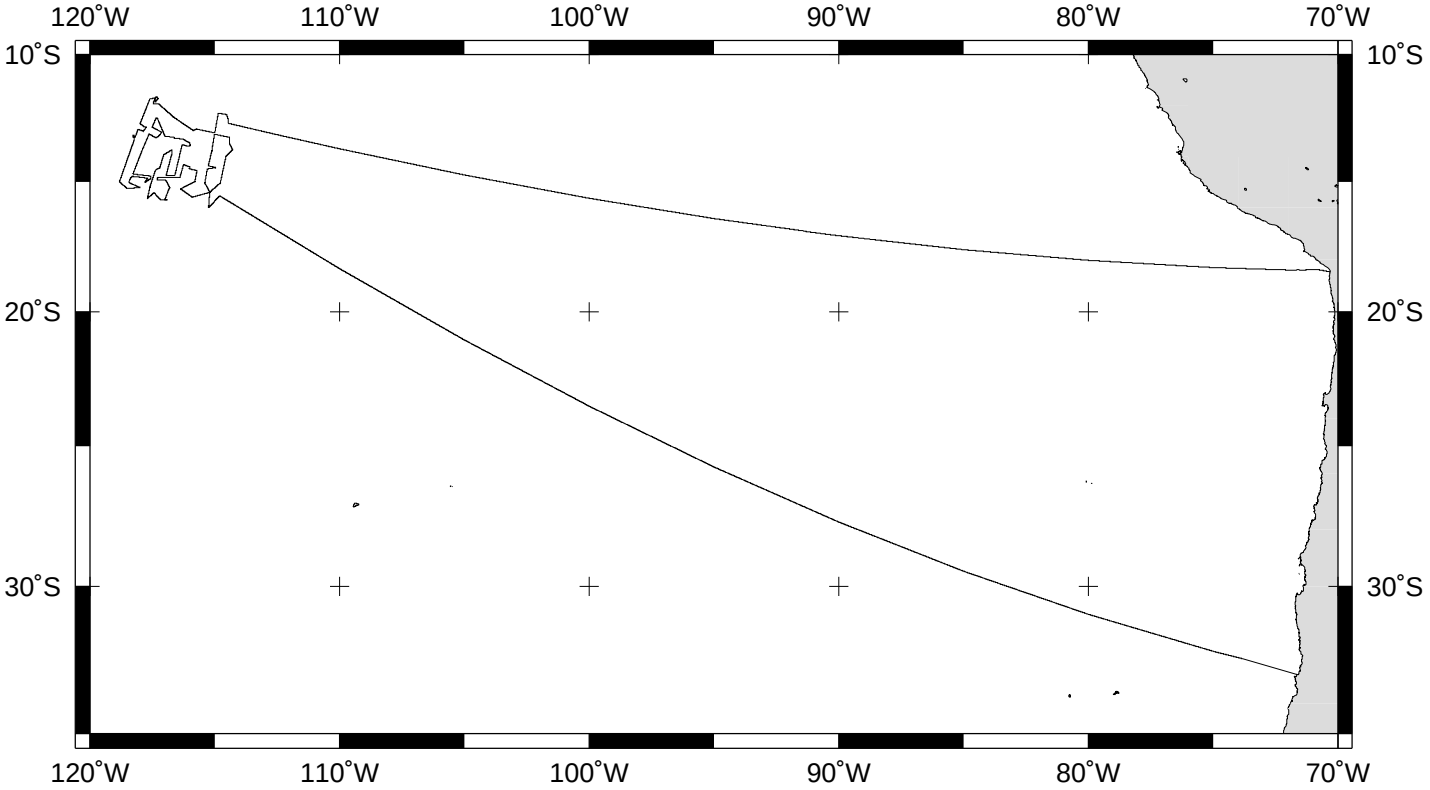
Profiles - depth, magnetic and gravity free air anomaly vs. distance.

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 4 (VANC04MV)

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CHIEF SCIENTIST: Donald Forsyth, Brown University

PORTS: Arica - Valparaiso, Chile

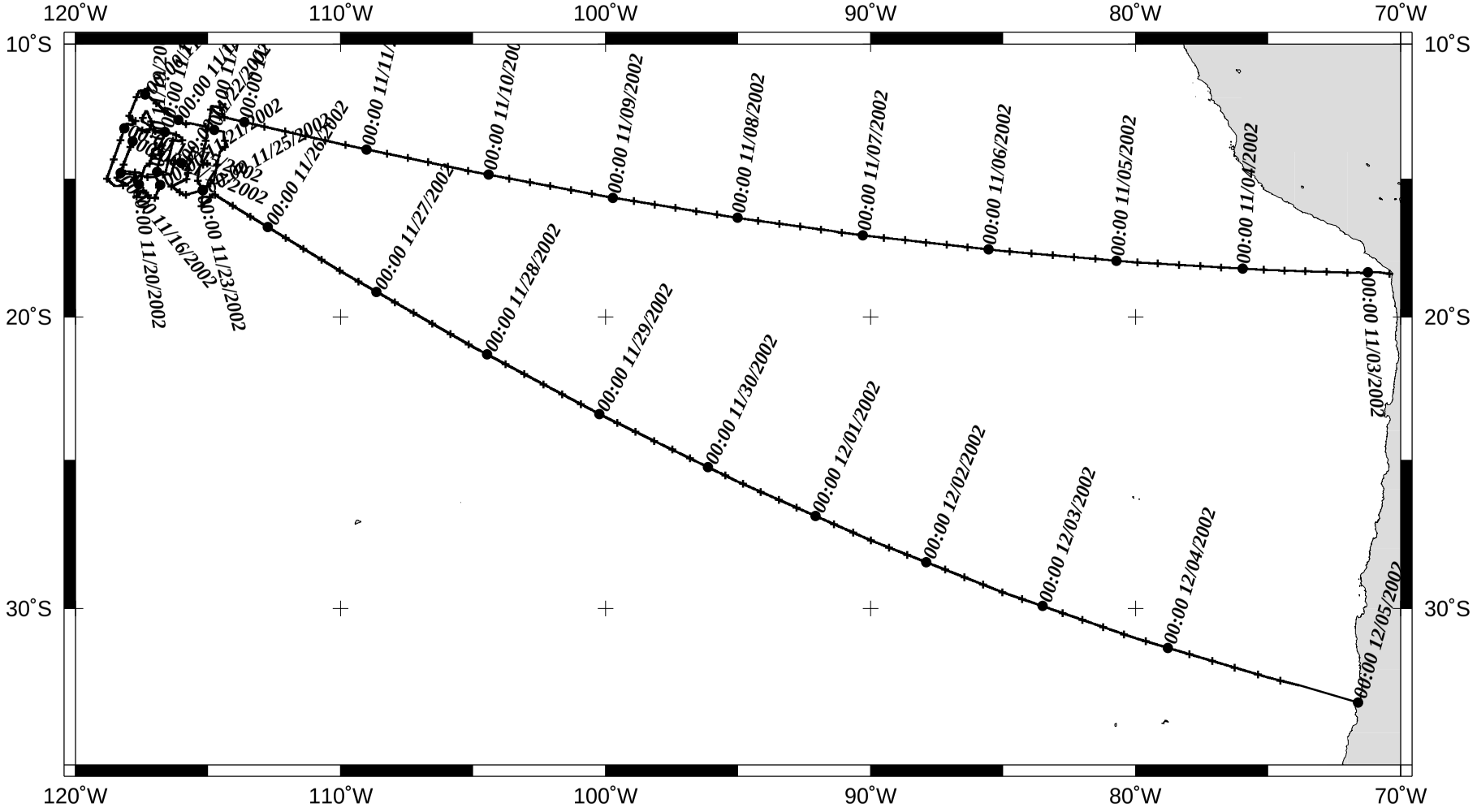
DATES: 2 November - 5 December 2002

SHIP: R/V Melville

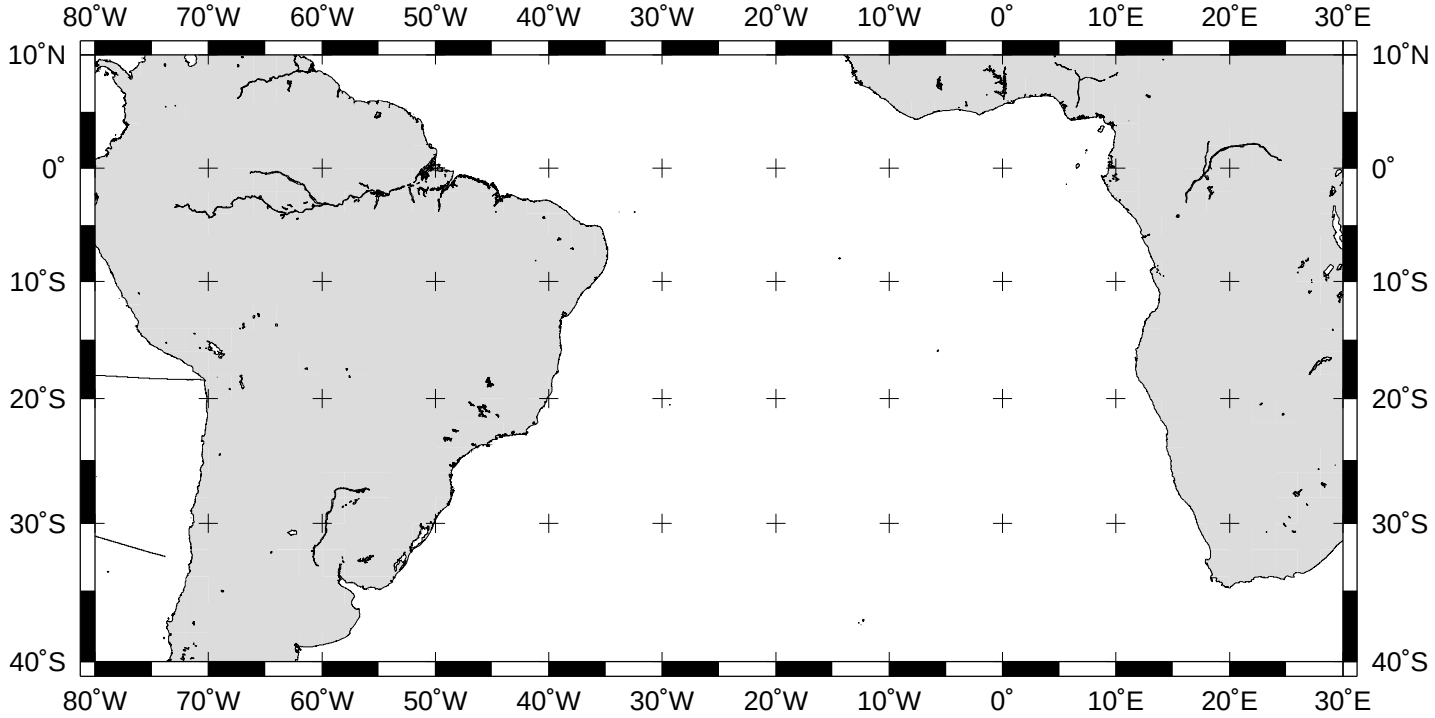
TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

Cruise-7391 miles	**Magnetics-6349 miles**
Bathymetry-6711 miles	**Seismic Reflection-none collected**
Multibeam-6711 miles	**Gravity-none collected**

VANC04MV



GMT 2003 Feb 25 16:41:25 **:Arica, Chile - Valparaiso, Chile 2 November - 5 December 2002 :**



VANCOUVER EXPEDITION LEG 4 (VANC04MV)

==========

CHIEF SCIENTIST: Donald Forsyth, Brown University

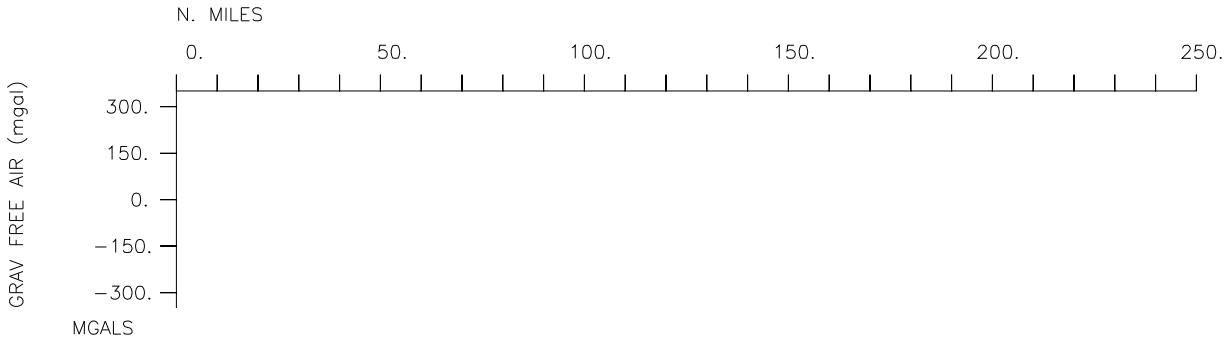
PORTS: Arica - Valparaiso, Chile

DATES: 4 November - 4 December 2002

SHIP: R/V Melville

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

Cruise-7276 miles	**Magnetics-???? miles**
Bathymetry-???? miles	**Seismic Reflection-none collected**
Multibeam-???? miles	**Gravity-none collected**


N. MILES
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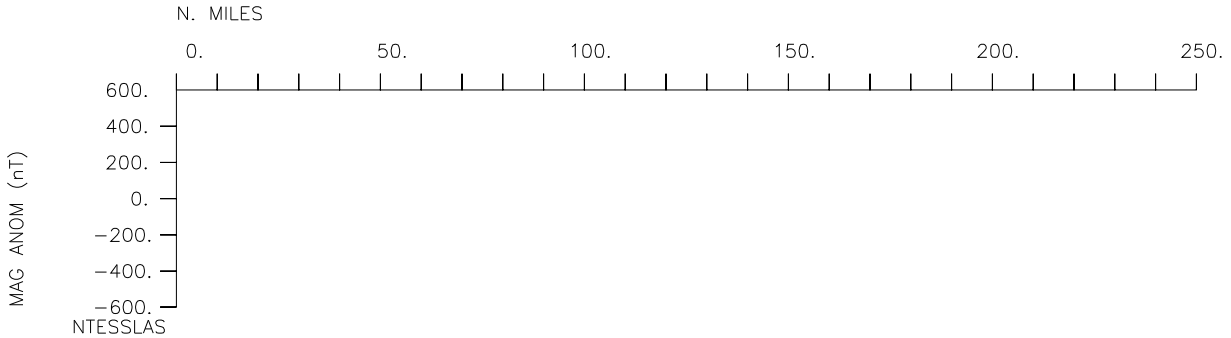
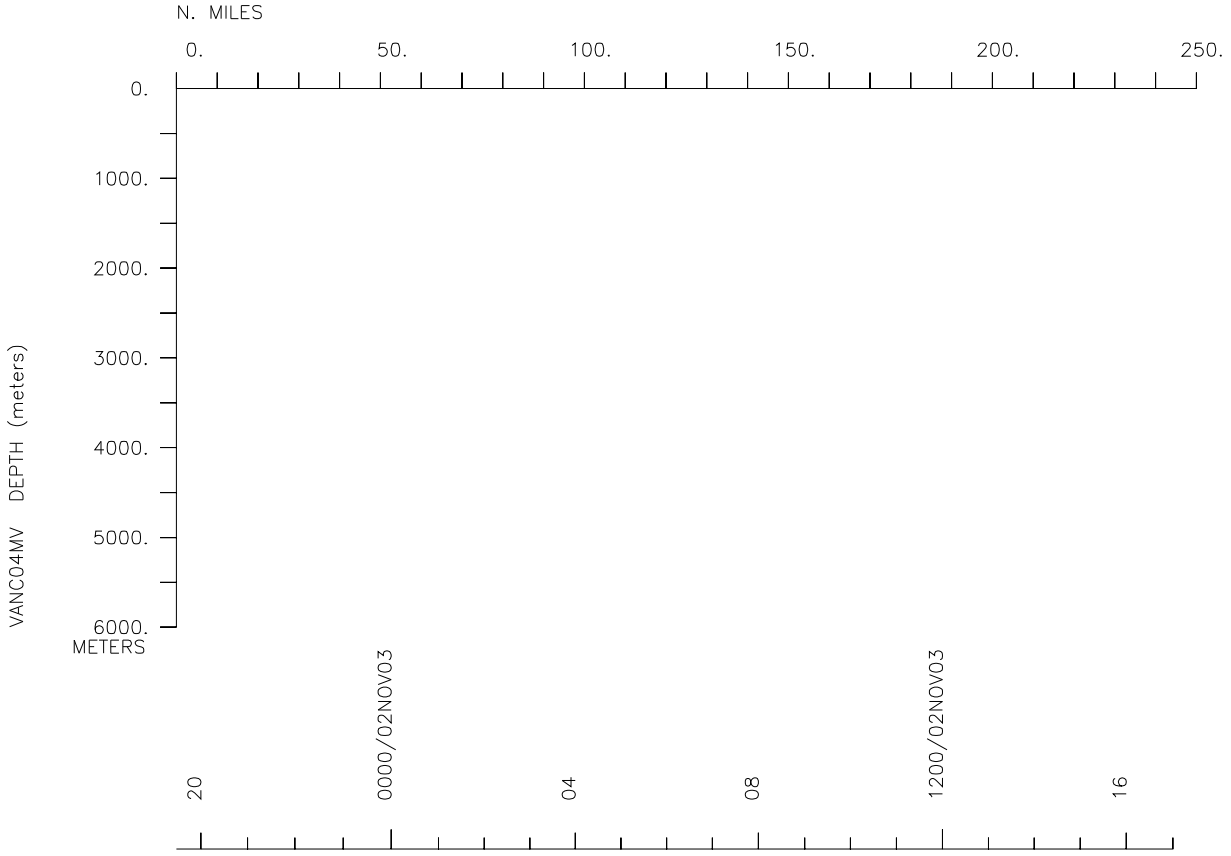
100.
150.
200.
250.
GRAV FREE AIR (mgal)
300.
150.
0.
−150.
−300.
MGALS


N. MILES
0.
50.
100.
150.
200.
250.
MAG ANOM (nT)
600.
400.
200.
0.
−200.
−400.
−600.
NTESSLAS


N. MILES
0.
50.
100.
150.
200.
250.
VANC04MV DEPTH (meters)
0.
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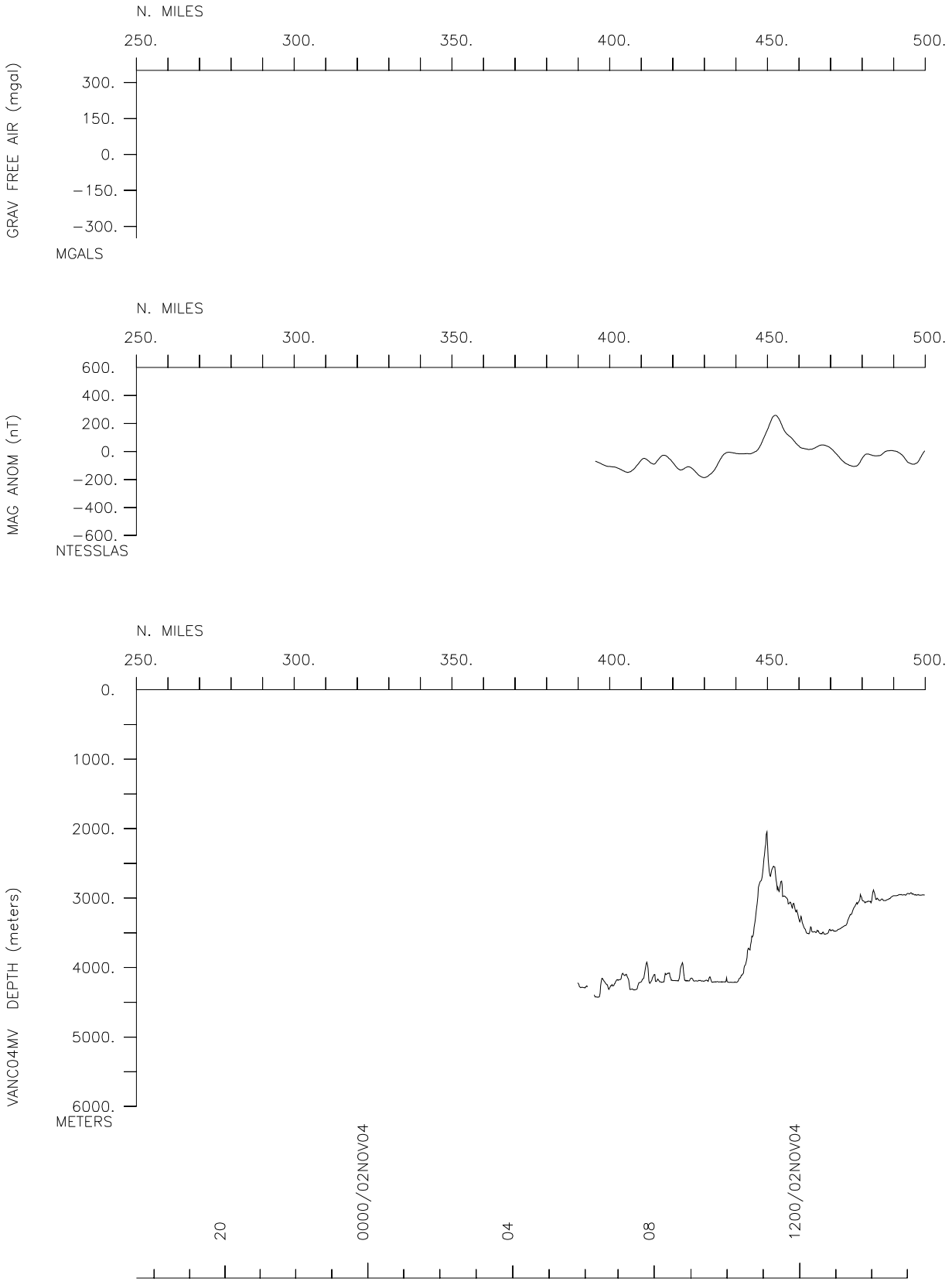
2000.
3000.
4000.
5000.
6000.
METERS
20
0000/02NOV03
04
08
1200/02NOV03
16


N. MILES
250.
300.
350.
400.
450.
500.
GRAV FREE AIR (mgal)
300.
150.
0.
−150.
−300.
MGALS
N. MILES
250.
300.
350.
400.
450.
500.
MAG ANOM (nT)
600.
400.
200.
0.
−200.
−400.
−600.
NTESSLAS
N. MILES
250.
300.
350.
400.
450.
500.
VANC04MV DEPTH (meters)
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2000.
3000.
4000.
5000.
6000.
METERS
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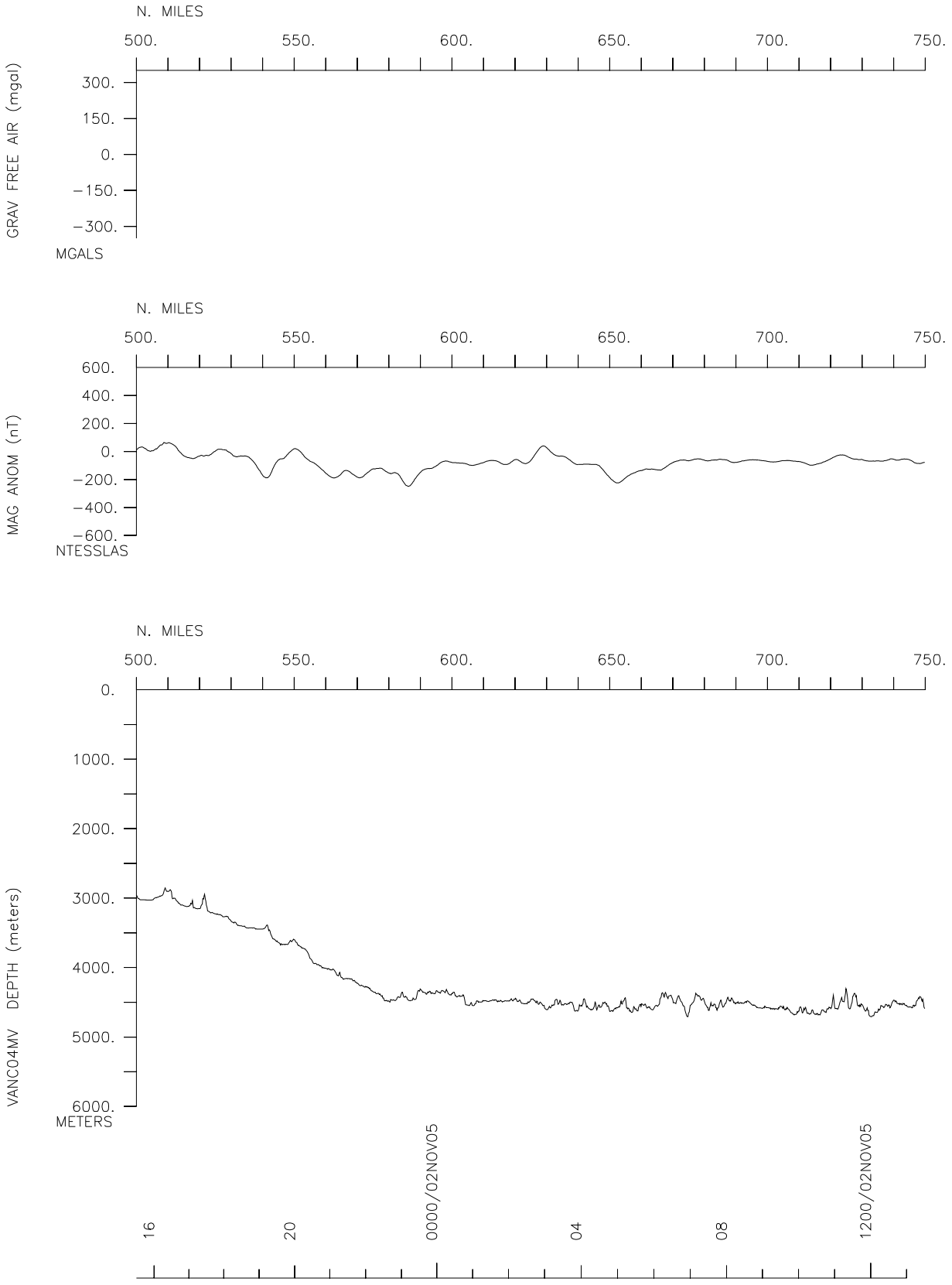
0000/02NOV04
04
08
1200/02NOV04


N. MILES
500.
550.
600.
650.
700.
750.
GRAV FREE AIR (mgal)
300.
150.
0.
−150.
−300.
MGALS
N. MILES
500.
550.
600.
650.
700.
750.
MAG ANOM (nT)
600.
400.
200.
0.
−200.
−400.
−600.
NTESSLAS
N. MILES
500.
550.
600.
650.
700.
750.
VANC04MV DEPTH (meters)
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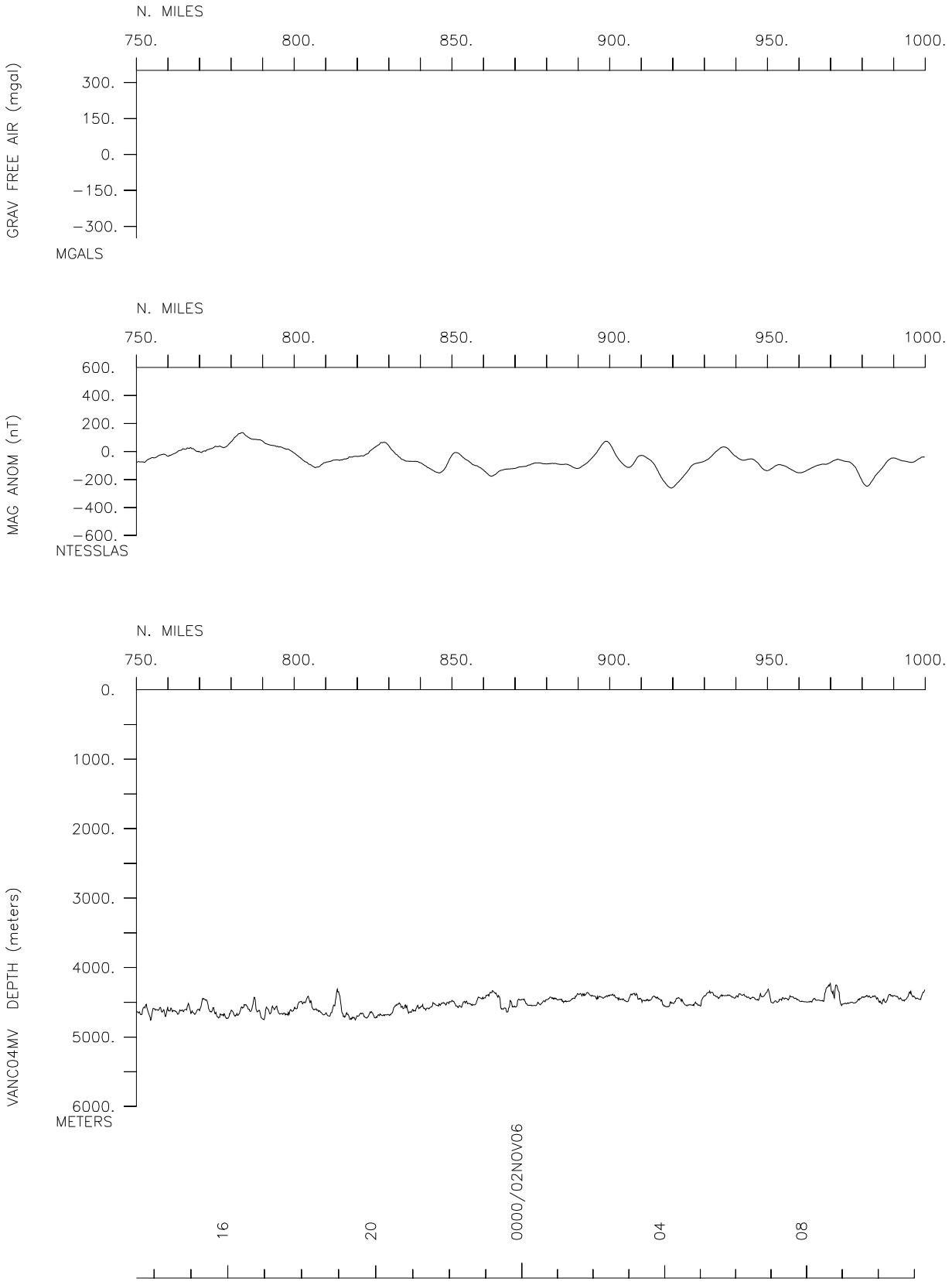
1000.
2000.
3000.
4000.
5000.
6000.
METERS
16
20
0000/02NOV05
04
08
1200/02NOV05


N. MILES
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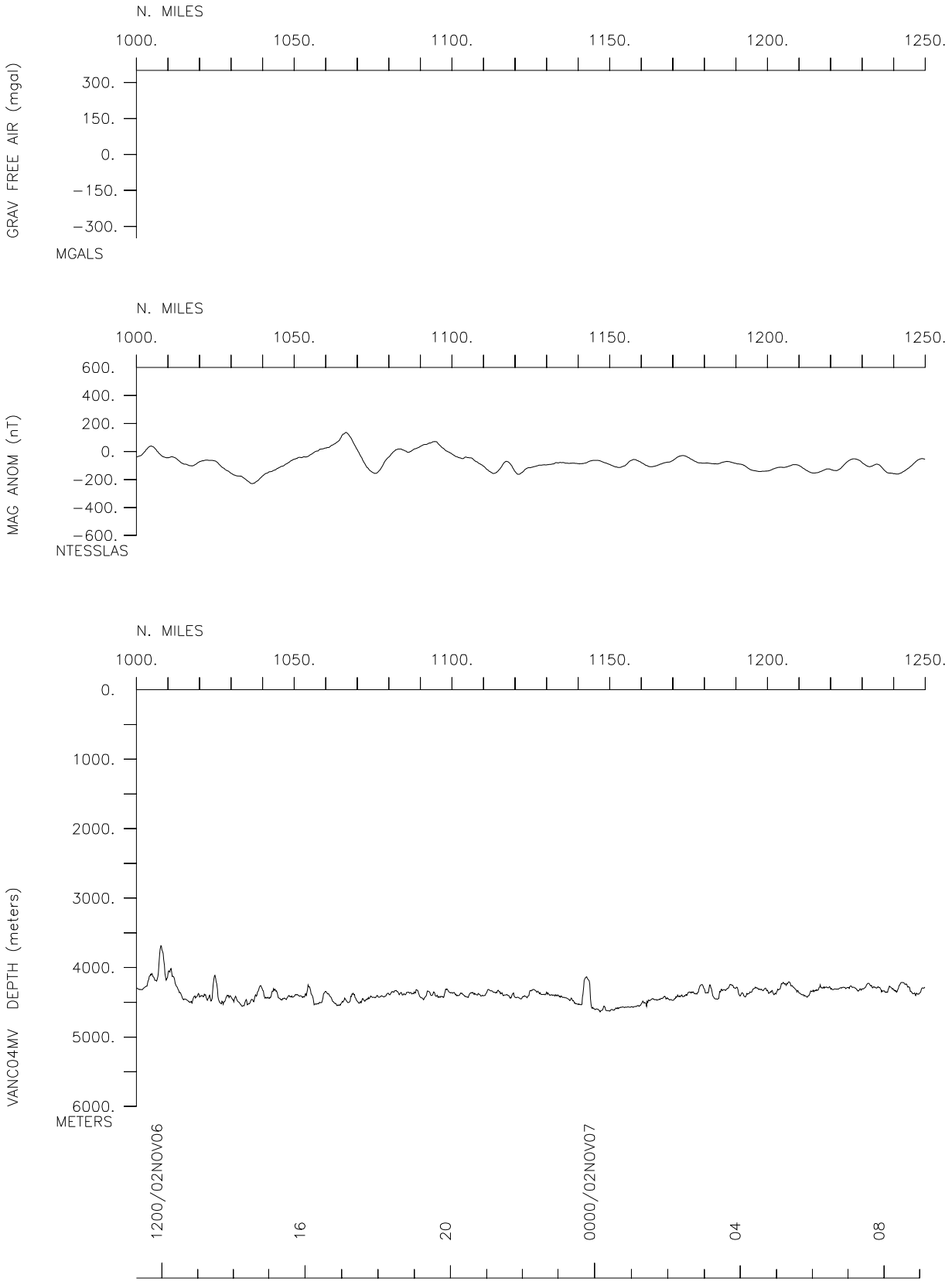
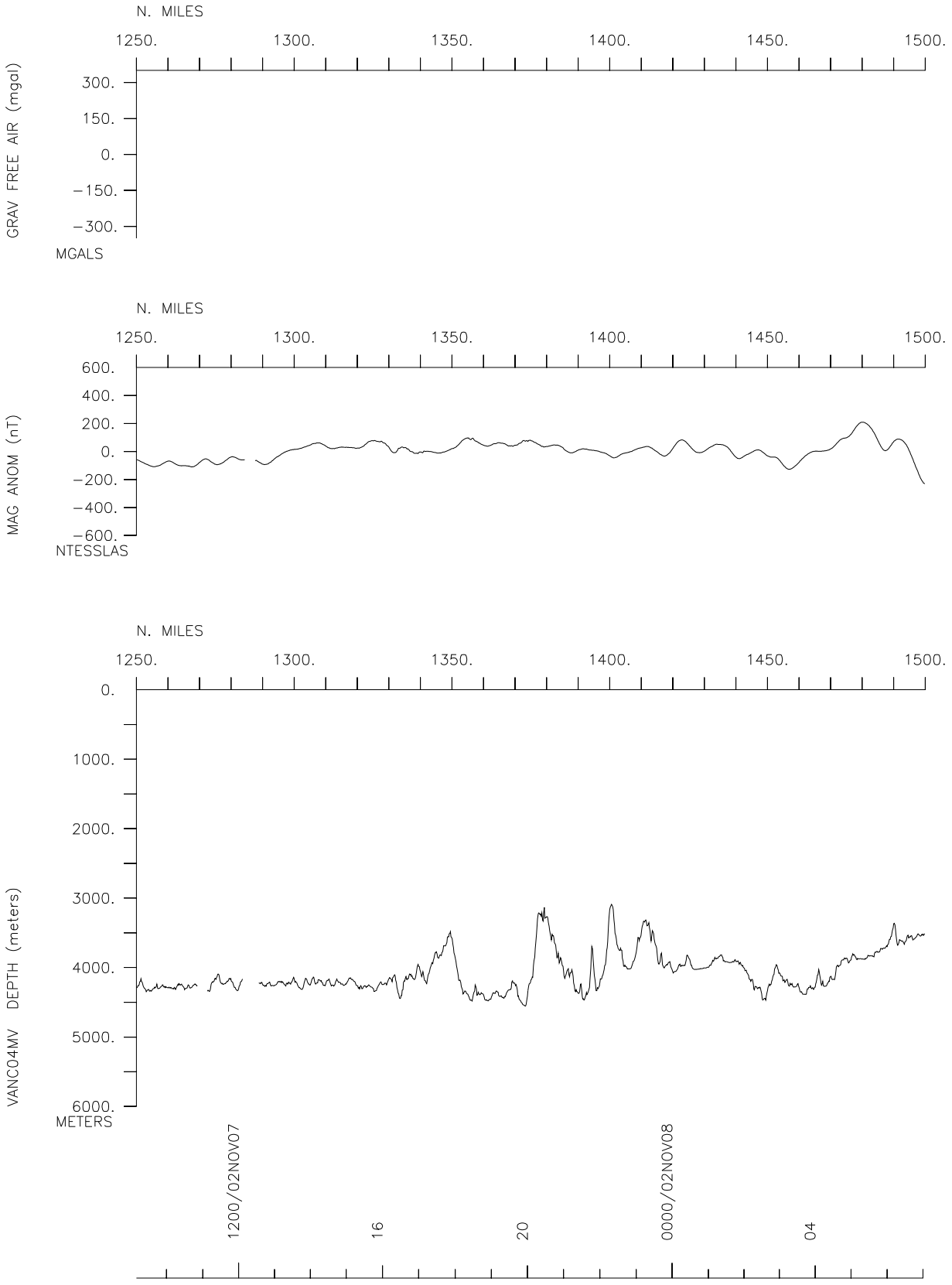
800.
850.
900.
950.
1000.
GRAV FREE AIR (mgal)
300.
150.
0.
−150.
−300.
MGALS
N. MILES
750.
800.
850.
900.
950.
1000.
MAG ANOM (nT)
600.
400.
200.
0.
−200.
−400.
−600.
NTESSLAS
N. MILES
750.
800.
850.
900.
950.
1000.
VANC04MV DEPTH (meters)
0.
1000.
2000.
3000.
4000.
5000.
6000.
METERS
16
20
0000/02NOV06
04
08


N. MILES
1000.
1050.
1100.
1150.
1200.
1250.
GRAV FREE AIR (mgal)
300.
150.
0.
−150.
−300.
MGALS
N. MILES
1000.
1050.
1100.
1150.
1200.
1250.
MAG ANOM (nT)
600.
400.
200.
0.
−200.
−400.
−600.
NTESSLAS
N. MILES
1000.
1050.
1100.
1150.
1200.
1250.
VANC04MV DEPTH (meters)
0.
1000.
2000.
3000.
4000.
5000.
6000.
METERS
1200/02NOV06
16
20
0000/02NOV07
04
08


N. MILES
1250.
1300.
1350.
1400.
1450.
1500.
GRAV FREE AIR (mgal)
300.
150.
0.
−150.
−300.
MGALS
N. MILES
1250.
1300.
1350.
1400.
1450.
1500.
MAG ANOM (nT)
600.
400.
200.
0.
−200.
−400.
−600.
NTESSLAS
N. MILES
1250.
1300.
1350.
1400.
1450.
1500.
VANC04MV DEPTH (meters)
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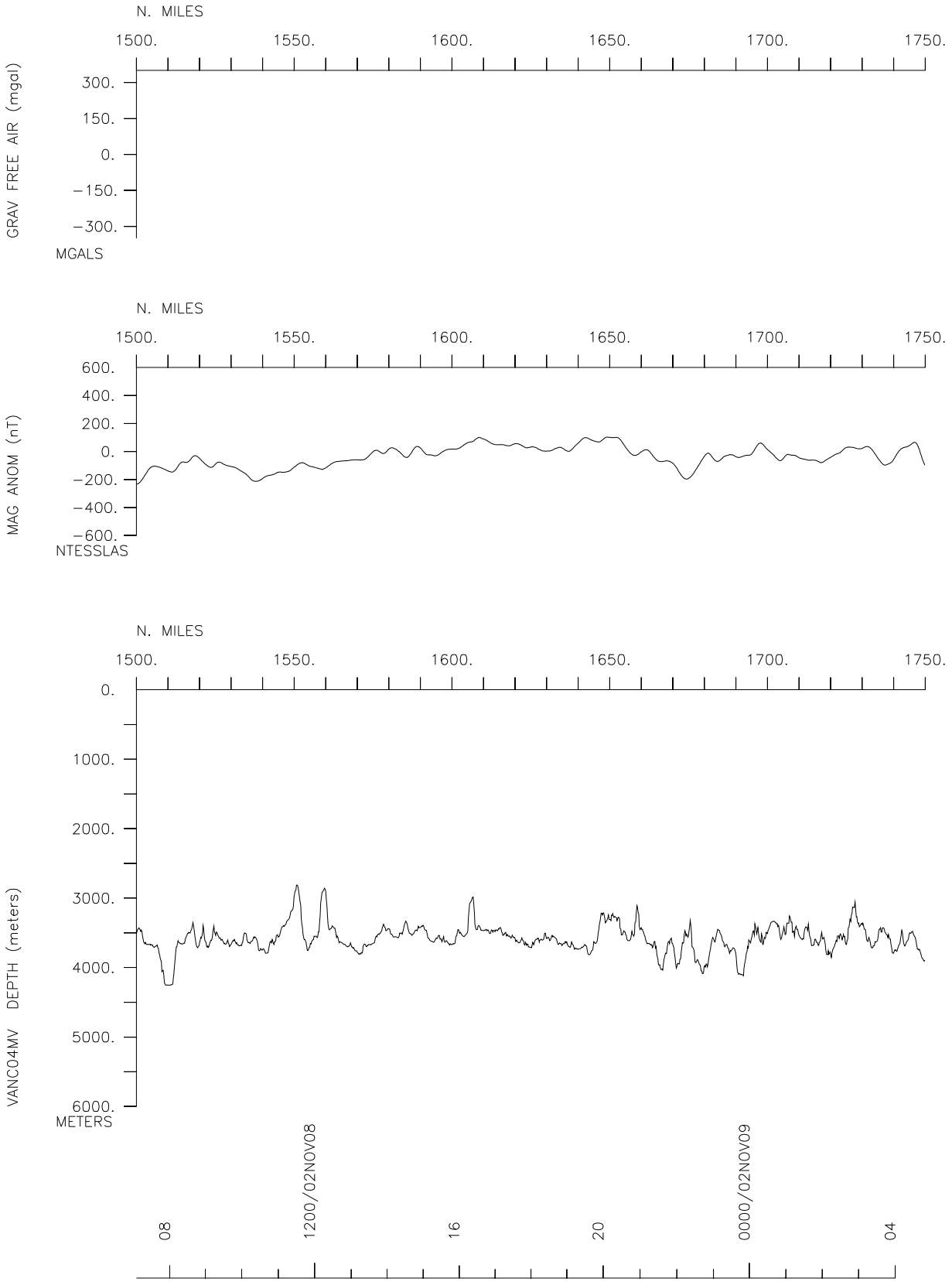
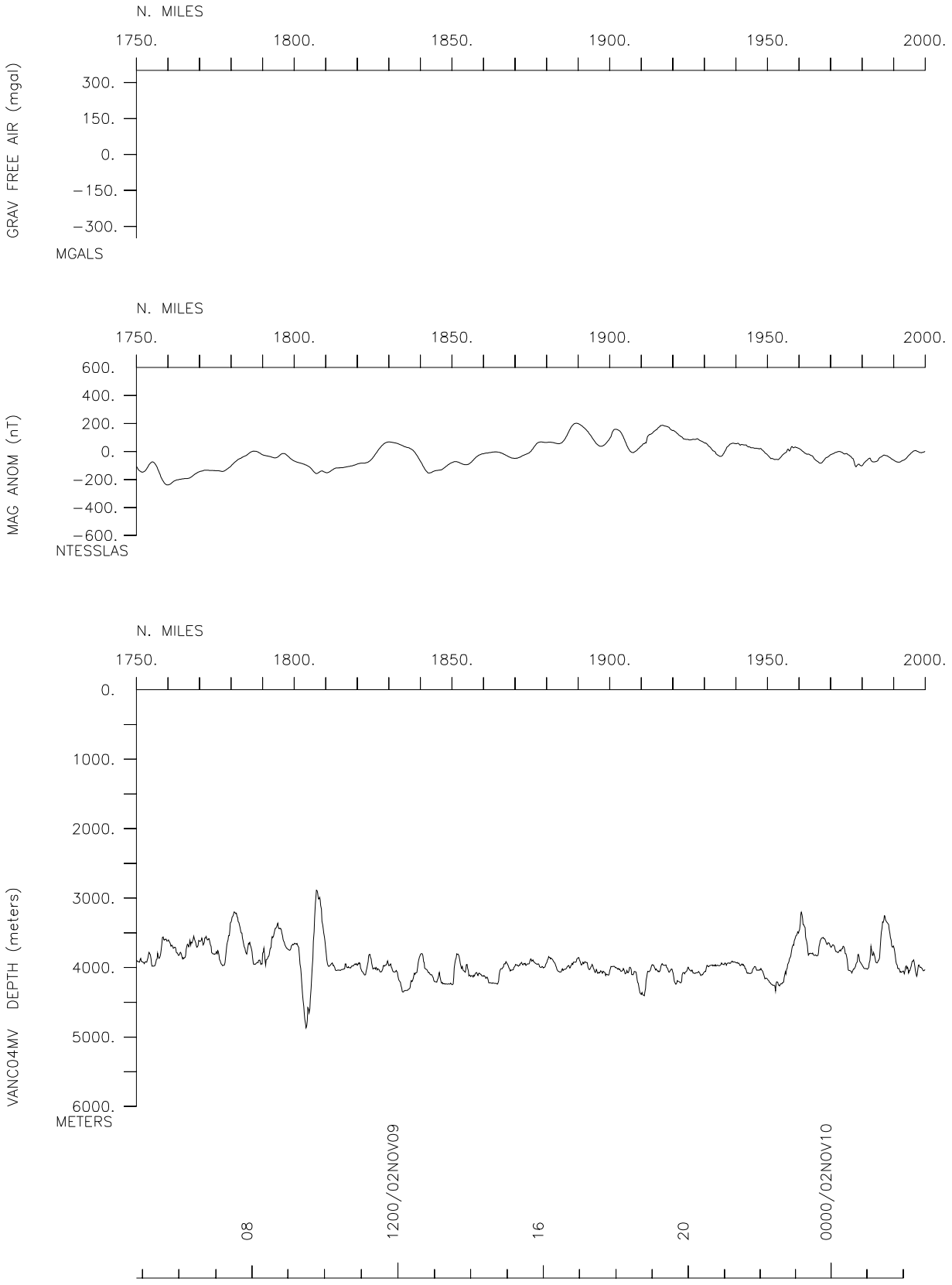
1000.
2000.
3000.
4000.
5000.
6000.
METERS
1200/02NOV07
16
20
0000/02NOV08
04


N. MILES
1500.
1550.
1600.
1650.
1700.
1750.
GRAV FREE AIR (mgal)
300.
150.
0.
−150.
−300.
MGALS
N. MILES
1500.
1550.
1600.
1650.
1700.
1750.
MAG ANOM (nT)
600.
400.
200.
0.
−200.
−400.
−600.
NTESSLAS
N. MILES
1500.
1550.
1600.
1650.
1700.
1750.
VANC04MV DEPTH (meters)
0.
1000.
2000.
3000.
4000.
5000.
6000.
METERS
08
1200/02NOV08
16
20
0000/02NOV09
04


N. MILES
1750.
1800.
1850.
1900.
1950.
2000.
GRAV FREE AIR (mgal)
300.
150.
0.
−150.
−300.
MGALS
N. MILES
1750.
1800.
1850.
1900.
1950.
2000.
MAG ANOM (nT)
600.
400.
200.
0.
−200.
−400.
−600.
NTESSLAS
N. MILES
1750.
1800.
1850.
1900.
1950.
2000.
VANC04MV DEPTH (meters)
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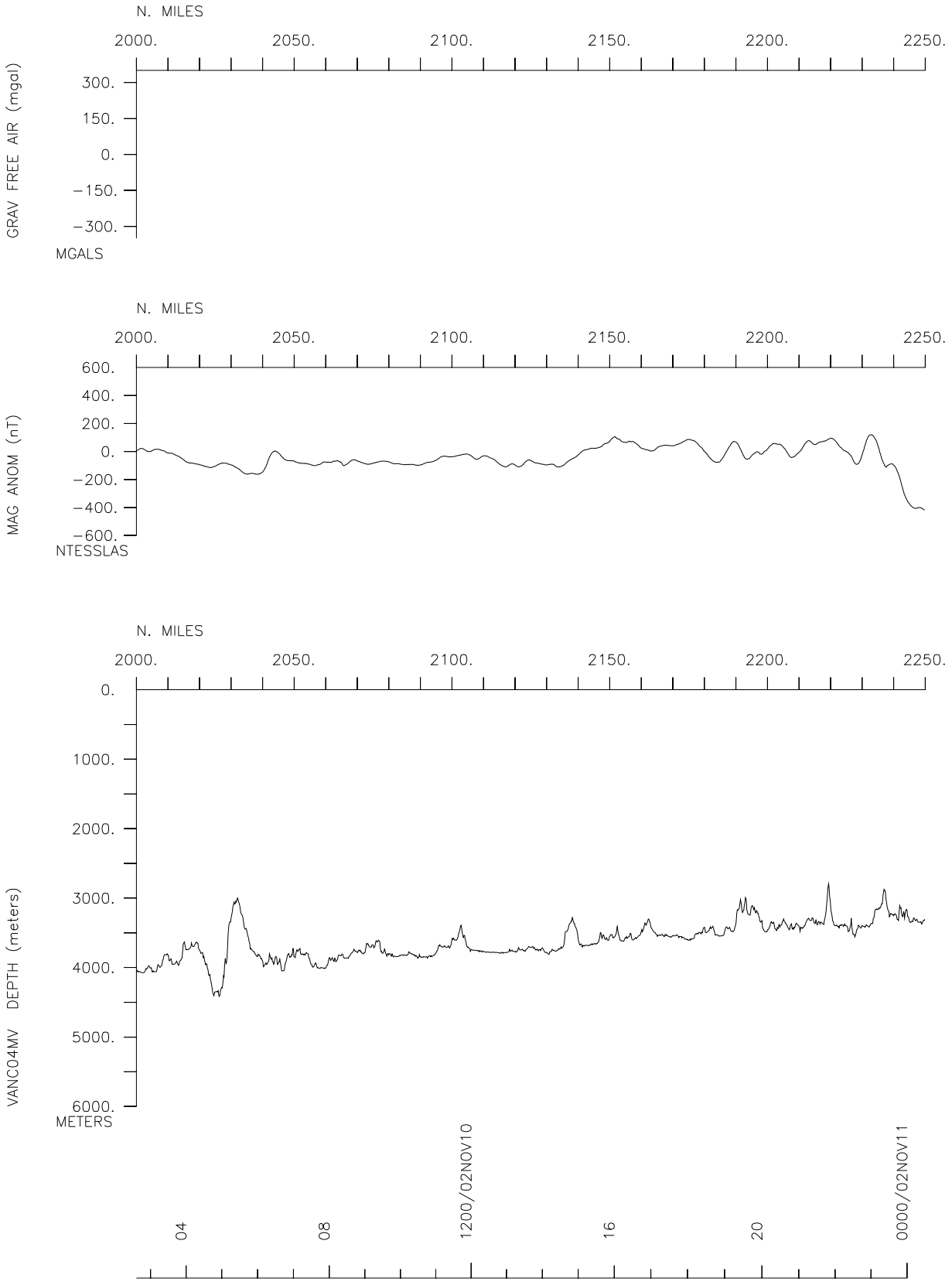
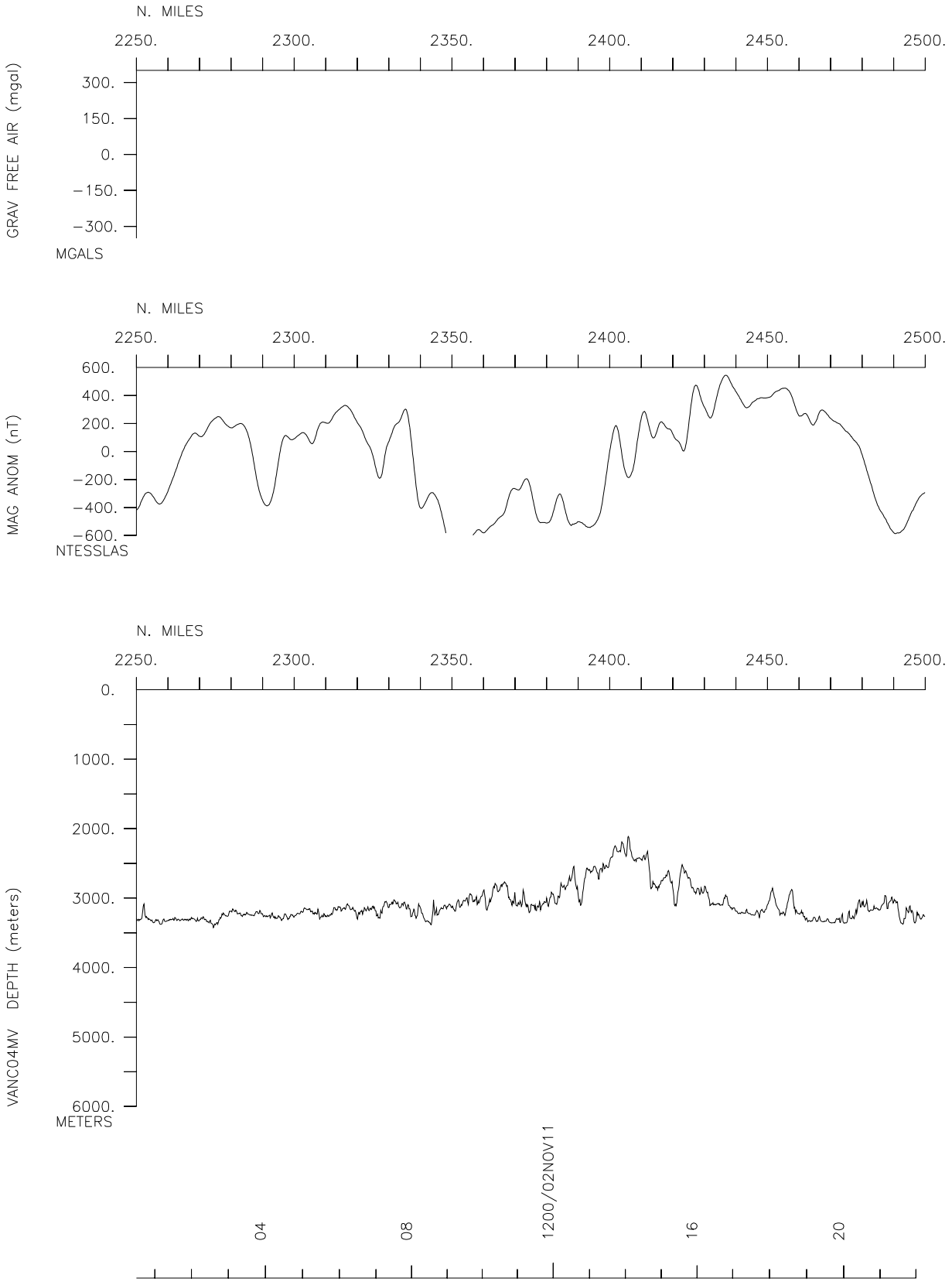
1000.
2000.
3000.
4000.
5000.
6000.
METERS
08
1200/02NOV09
16
20
0000/02NOV10


N. MILES
2000.
2050.
2100.
2150.
2200.
2250.
GRAV FREE AIR (mgal)
300.
150.
0.
−150.
−300.
MGALS
N. MILES
2000.
2050.
2100.
2150.
2200.
2250.
MAG ANOM (nT)
600.
400.
200.
0.
−200.
−400.
−600.
NTESSLAS
N. MILES
2000.
2050.
2100.
2150.
2200.
2250.
VANC04MV DEPTH (meters)
0.
1000.
2000.
3000.
4000.
5000.
6000.
METERS
04
08
1200/02NOV10
16
20
0000/02NOV11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2350.
2400.
2450.
2500.
GRAV FREE AIR (mgal)
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150.
0.
−150.
−300.
MGALS
N. MILES
2250.
2300.
2350.
2400.
2450.
2500.
MAG ANOM (nT)
600.
400.
200.
0.
−200.
−400.
−600.
NTESSLAS
N. MILES
2250.
2300.
2350.
2400.
2450.
2500.
VANC04MV DEPTH (meters)
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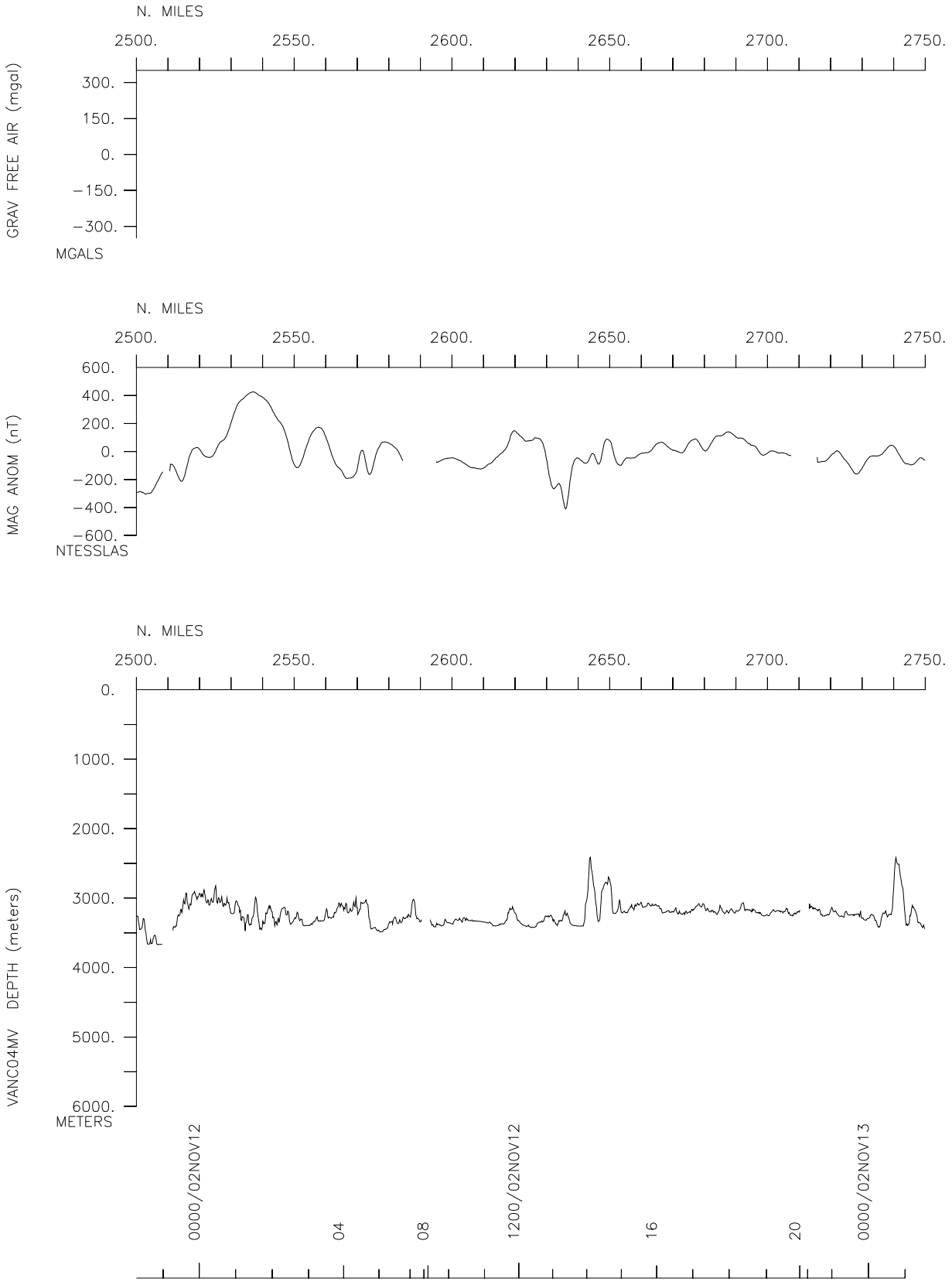
1000.
2000.
3000.
4000.
5000.
6000.
METERS
04
08
1200/02NOV11
16
20


N. MILES
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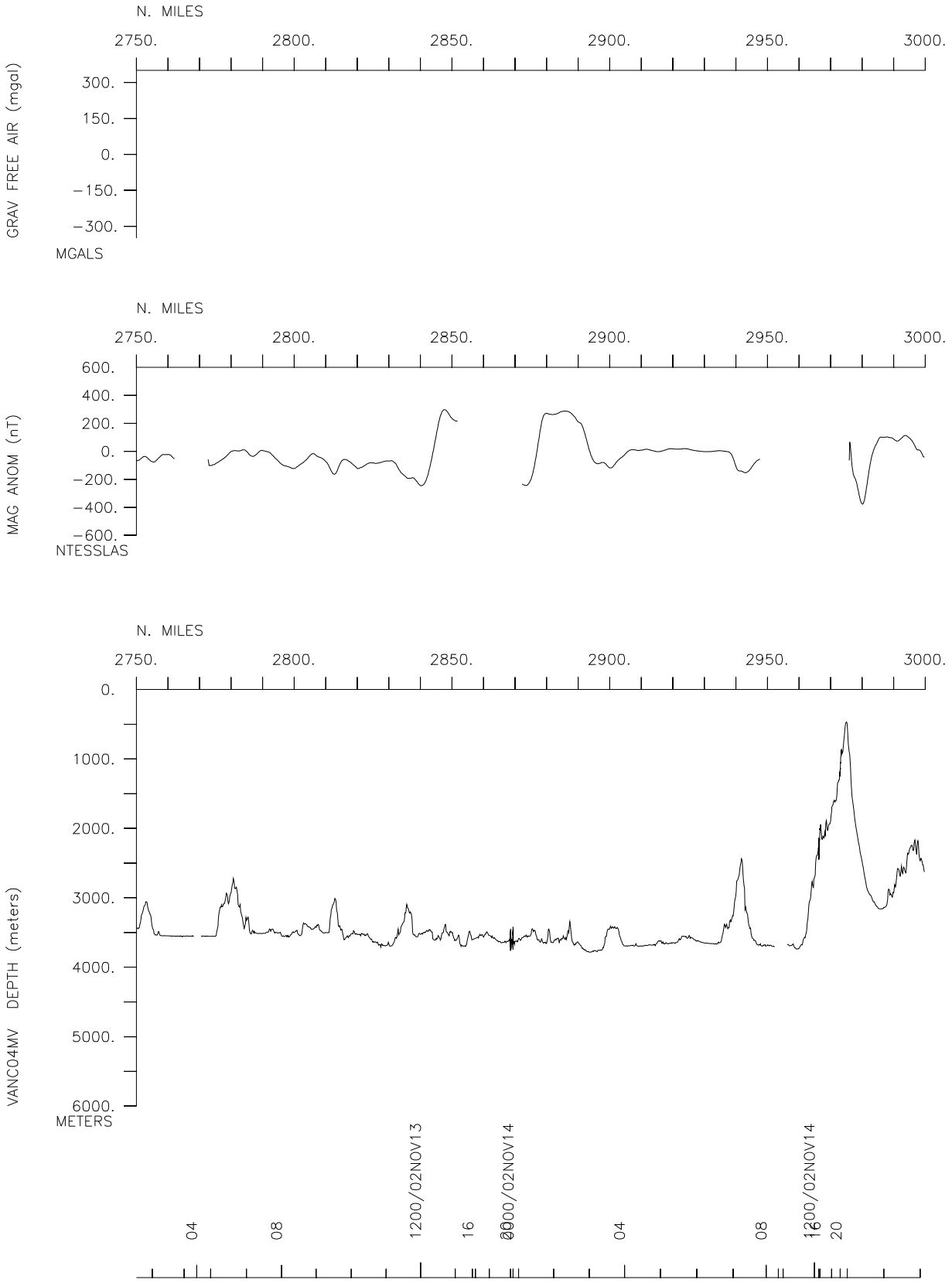
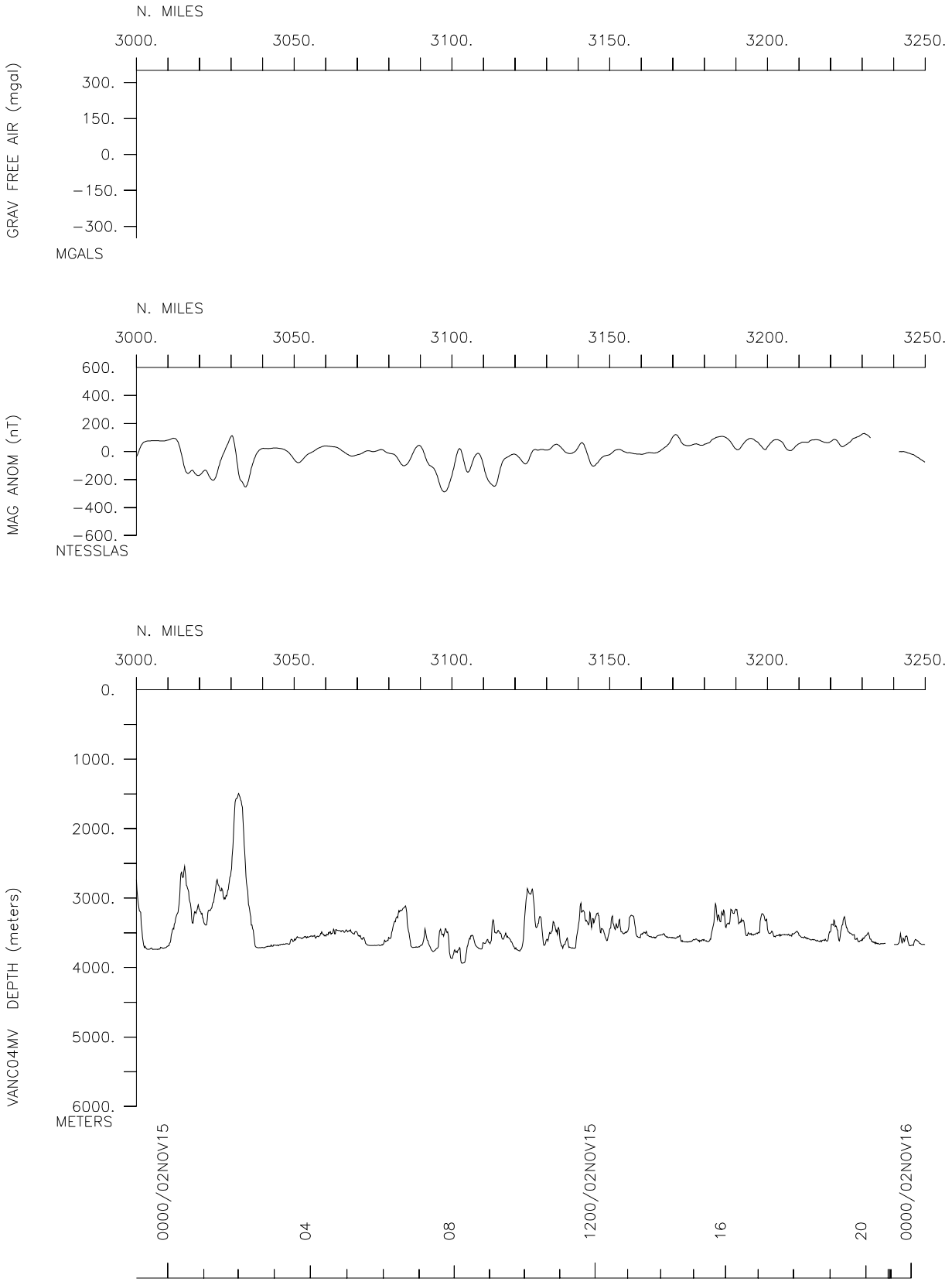
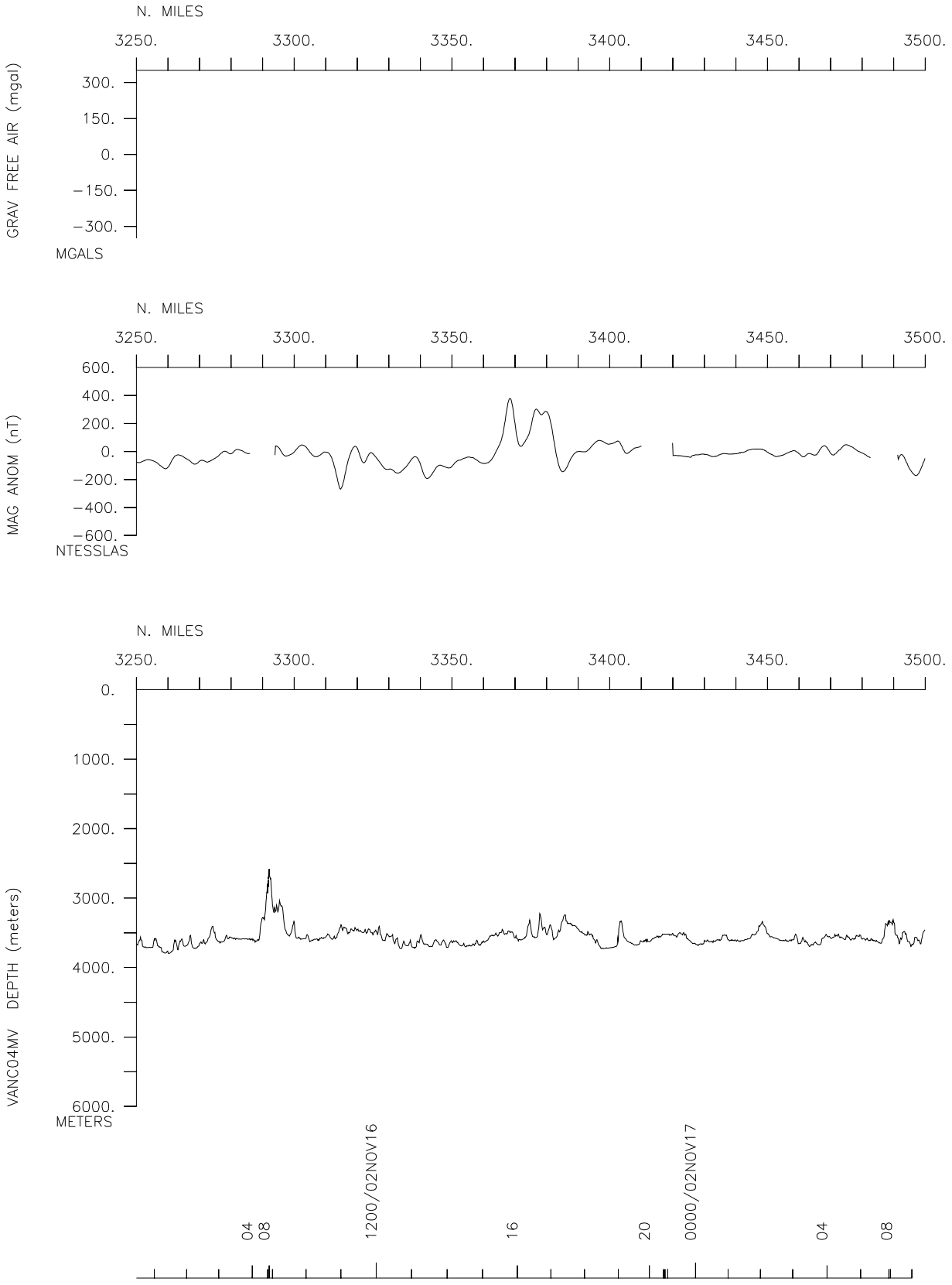
2550.
2600.
2650.
2700.
2750.
GRAV FREE AIR (mgal)
300.
150.
0.
−150.
−300.
MGALS
N. MILES
2500.
2550.
2600.
2650.
2700.
2750.
MAG ANOM (nT)
600.
400.
200.
0.
−200.
−400.
−600.
NTESSLAS
N. MILES
2500.
2550.
2600.
2650.
2700.
2750.
VANC04MV DEPTH (meters)
0.
1000.
2000.
3000.
4000.
5000.
6000.
METERS
0000/02NOV12
04
08
1200/02NOV12
16
20
0000/02NOV13


N. MILES
2750.
2800.
2850.
2900.
2950.
3000.
GRAV FREE AIR (mgal)
300.
150.
0.
−150.
−300.
MGALS
N. MILES
2750.
2800.
2850.
2900.
2950.
3000.
MAG ANOM (nT)
600.
400.
200.
0.
−200.
−400.
−600.
NTESSLAS
N. MILES
2750.
2800.
2850.
2900.
2950.
3000.
VANC04MV DEPTH (meters)
0.
1000.
2000.
3000.
4000.
5000.
6000.
METERS
04
08
1200/02NOV13
16
2000/02NOV14
04
08
1200/02NOV14
20


N. MILES
3000.
3050.
3100.
3150.
3200.
3250.
GRAV FREE AIR (mgal)
300.
150.
0.
−150.
−300.
MGALS
N. MILES
3000.
3050.
3100.
3150.
3200.
3250.
MAG ANOM (nT)
600.
400.
200.
0.
−200.
−400.
−600.
NTESSLAS
N. MILES
3000.
3050.
3100.
3150.
3200.
3250.
VANC04MV DEPTH (meters)
0.
1000.
2000.
3000.
4000.
5000.
6000.
METERS
0000/02NOV15
04
08
1200/02NOV15
16
20
0000/02NOV16


N. MILES
3250.
3300.
3350.
3400.
3450.
3500.
GRAV FREE AIR (mgal)
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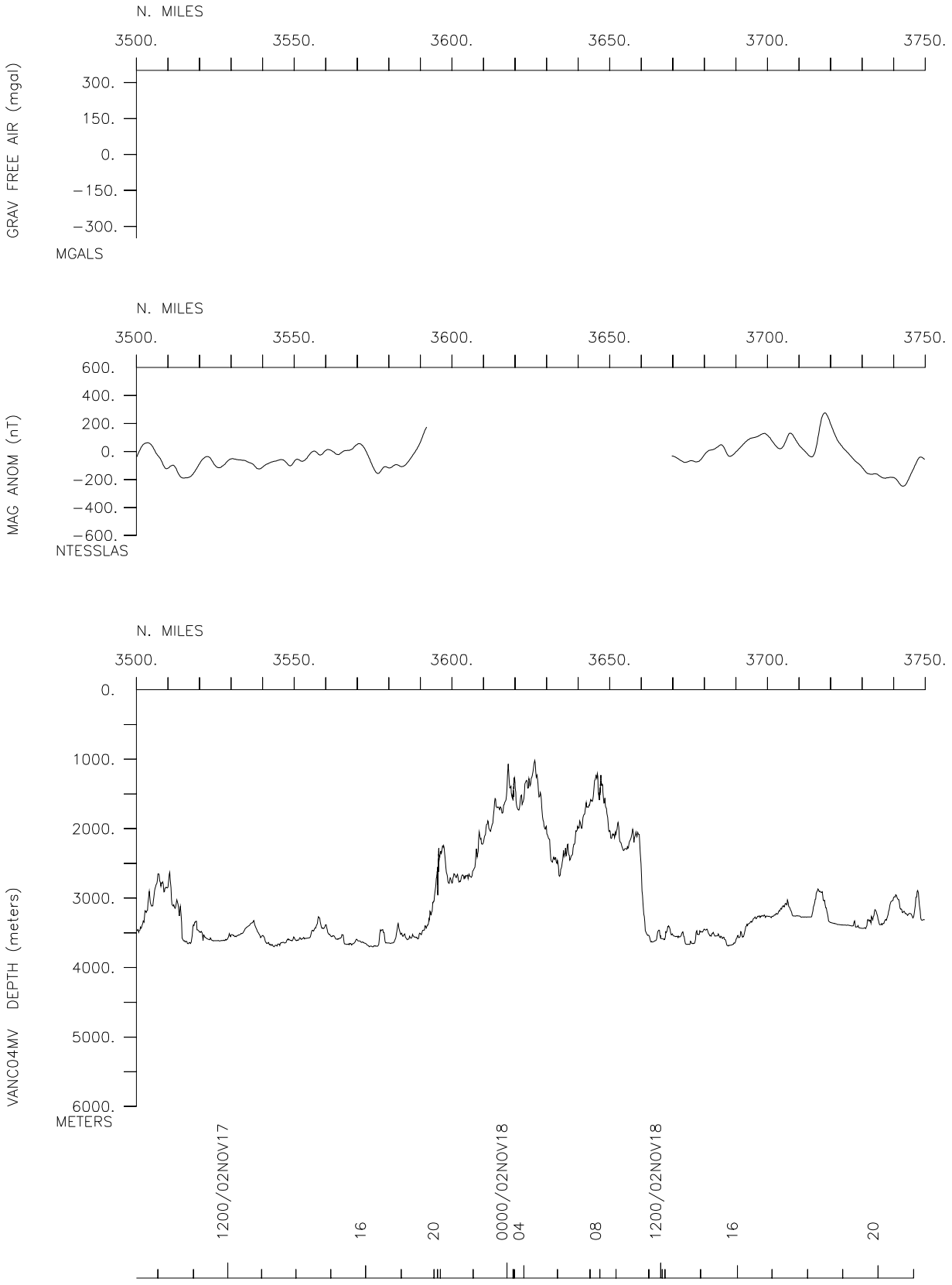
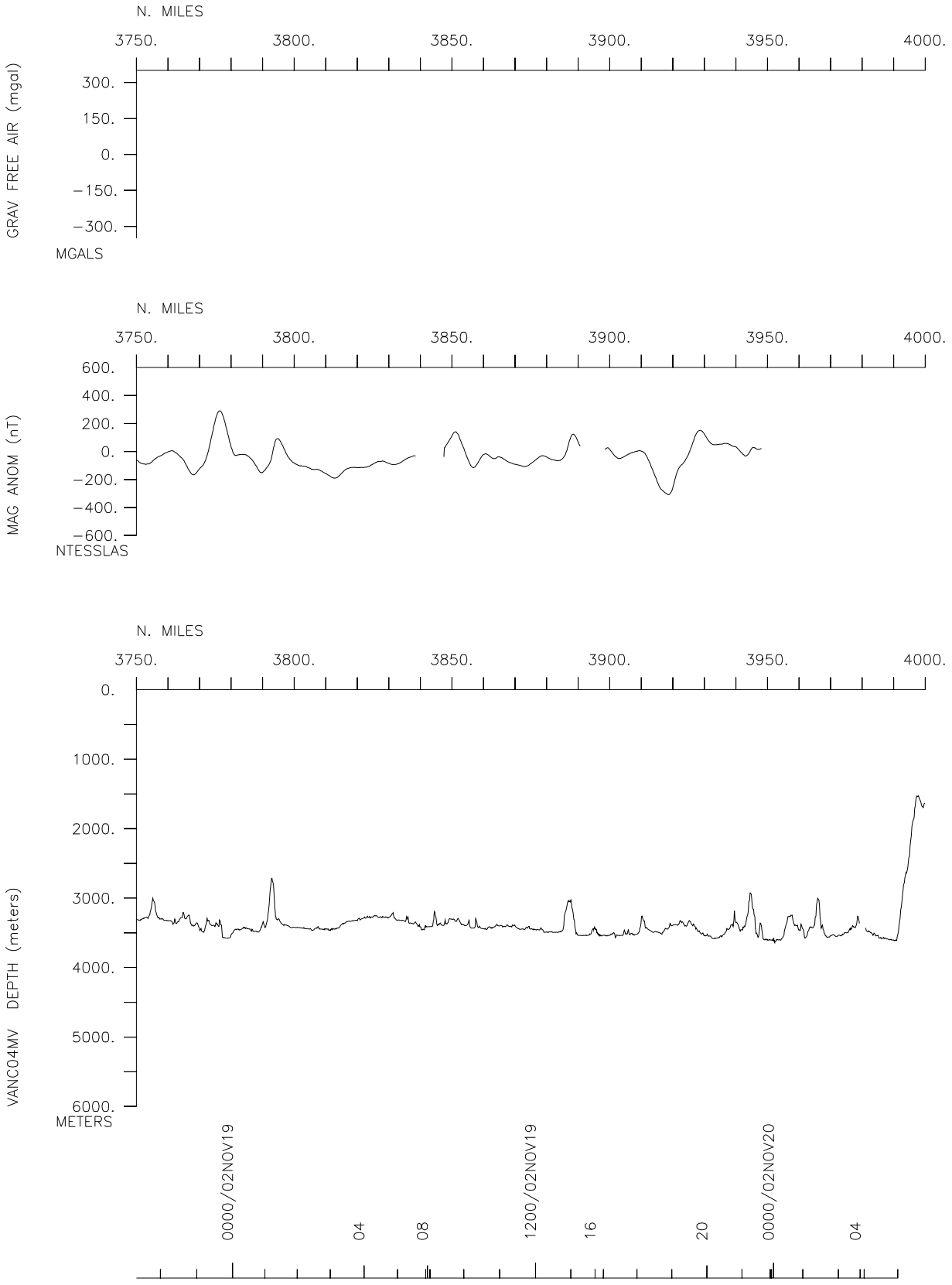
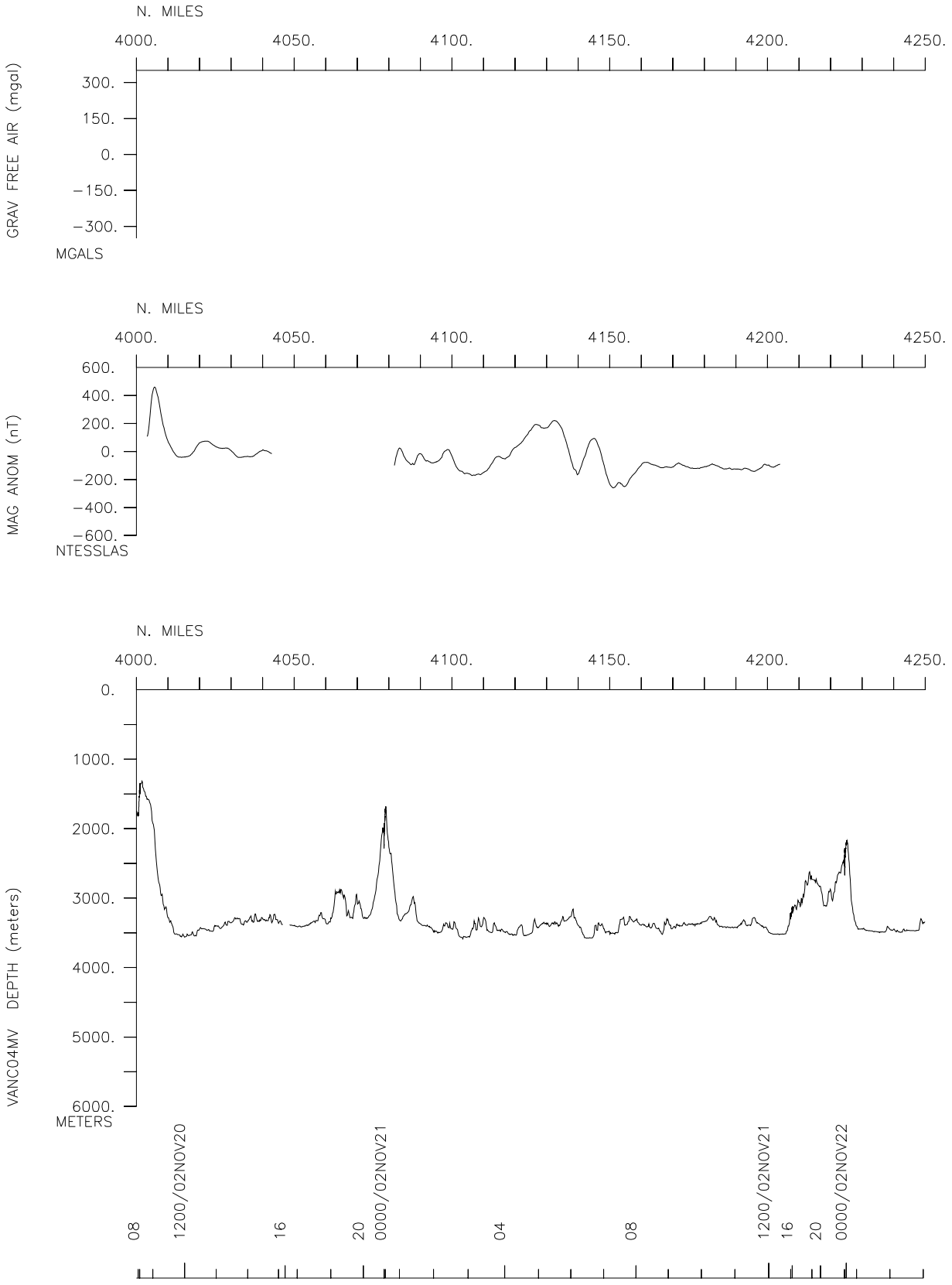
150.
0.
−150.
−300.
MGALS
N. MILES
3250.
3300.
3350.
3400.
3450.
3500.
MAG ANOM (nT)
600.
400.
200.
0.
−200.
−400.
−600.
NTESSLAS
N. MILES
3250.
3300.
3350.
3400.
3450.
3500.
VANC04MV DEPTH (meters)
0.
1000.
2000.
3000.
4000.
5000.
6000.
METERS
04
08
1200/02NOV16
16
20
0000/02NOV17
04
08


N. MILES
3500.
3550.
3600.
3650.
3700.
3750.
GRAV FREE AIR (mgal)
300.
150.
0.
−150.
−300.
MGALS
N. MILES
3500.
3550.
3600.
3650.
3700.
3750.
MAG ANOM (nT)
600.
400.
200.
0.
−200.
−400.
−600.
NTESSLAS
N. MILES
3500.
3550.
3600.
3650.
3700.
3750.
VANC04MV DEPTH (meters)
0.
1000.
2000.
3000.
4000.
5000.
6000.
METERS
1200/02NOV17
16
20
0000/02NOV18
04
08
1200/02NOV18
16
20


N. MILES
3750.
3800.
3850.
3900.
3950.
4000.
GRAV FREE AIR (mgal)
300.
150.
0.
−150.
−300.
MGALS
N. MILES
3750.
3800.
3850.
3900.
3950.
4000.
MAG ANOM (nT)
600.
400.
200.
0.
−200.
−400.
−600.
NTESSLAS
N. MILES
3750.
3800.
3850.
3900.
3950.
4000.
VANC04MV DEPTH (meters)
0.
1000.
2000.
3000.
4000.
5000.
6000.
METERS
0000/02NOV19
04
08
1200/02NOV19
16
20
0000/02NOV20
04


N. MILES
4000.
4050.
4100.
4150.
4200.
4250.
GRAV FREE AIR (mgal)
300.
150.
0.
−150.
−300.
MGALS
N. MILES
4000.
4050.
4100.
4150.
4200.
4250.
MAG ANOM (nT)
600.
400.
200.
0.
−200.
−400.
−600.
NTESSLAS
N. MILES
4000.
4050.
4100.
4150.
4200.
4250.
VANC04MV DEPTH (meters)
0.
1000.
2000.
3000.
4000.
5000.
6000.
METERS
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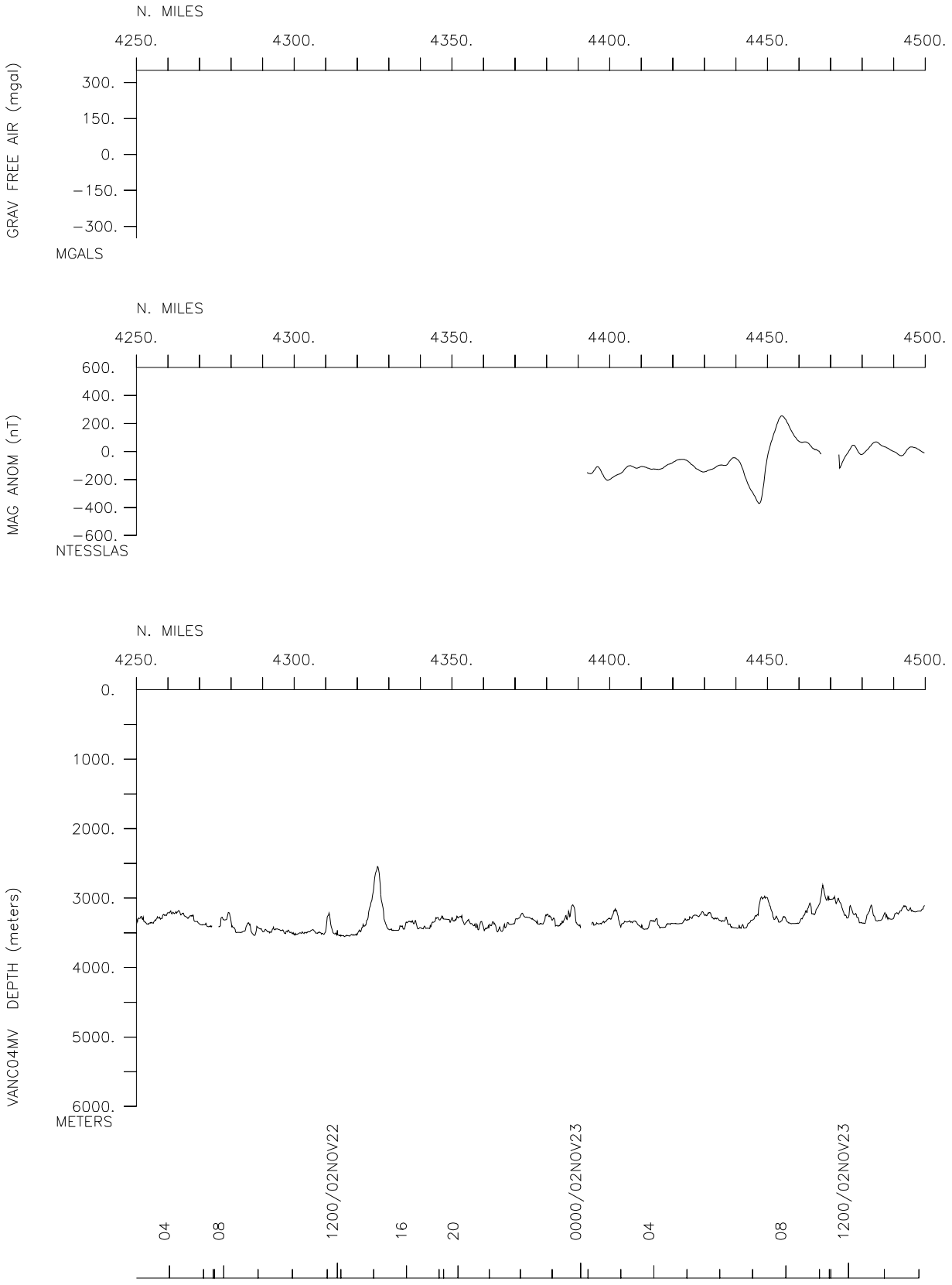
1200/02NOV20
16
20
0000/02NOV21
04
08
1200/02NOV21
16
20
0000/02NOV22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4450.
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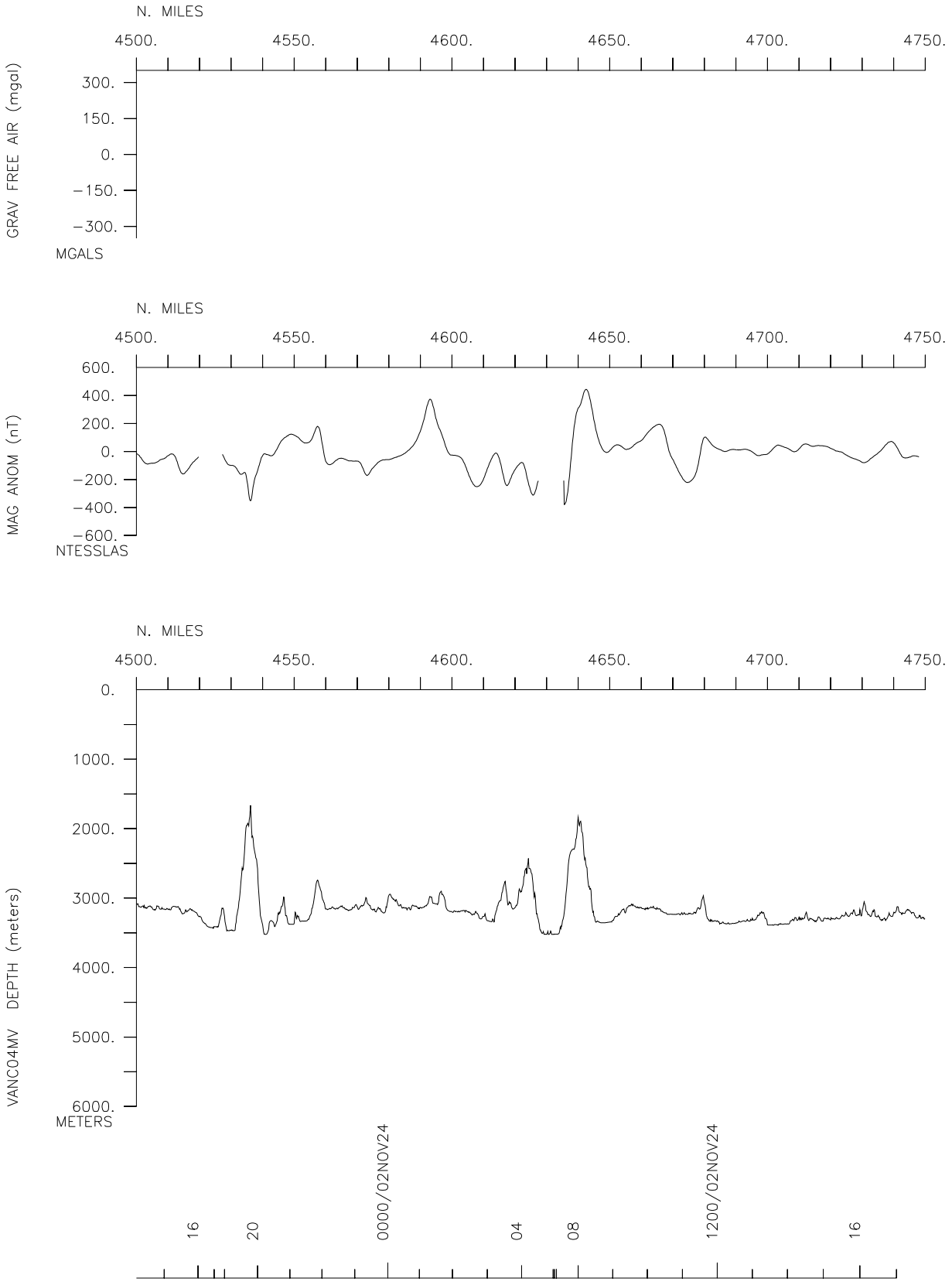
0.
−150.
−300.
MGALS
N. MILES
4250.
4300.
4350.
4400.
4450.
4500.
MAG ANOM (nT)
600.
400.
200.
0.
−200.
−400.
−600.
NTESSLAS
N. MILES
4250.
4300.
4350.
4400.
4450.
4500.
VANC04MV DEPTH (meters)
0.
1000.
2000.
3000.
4000.
5000.
6000.
METERS
04
08
1200/02NOV22
16
20
0000/02NOV23
04
08
1200/02NOV23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4650.
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0.
−150.
−300.
MGALS
N. MILES
4500.
4550.
4600.
4650.
4700.
4750.
MAG ANOM (nT)
600.
400.
200.
0.
−200.
−400.
−600.
NTESSLAS
N. MILES
4500.
4550.
4600.
4650.
4700.
4750.
VANC04MV DEPTH (meters)
0.
1000.
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4000.
5000.
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METERS
16
20
0000/02NOV24
04
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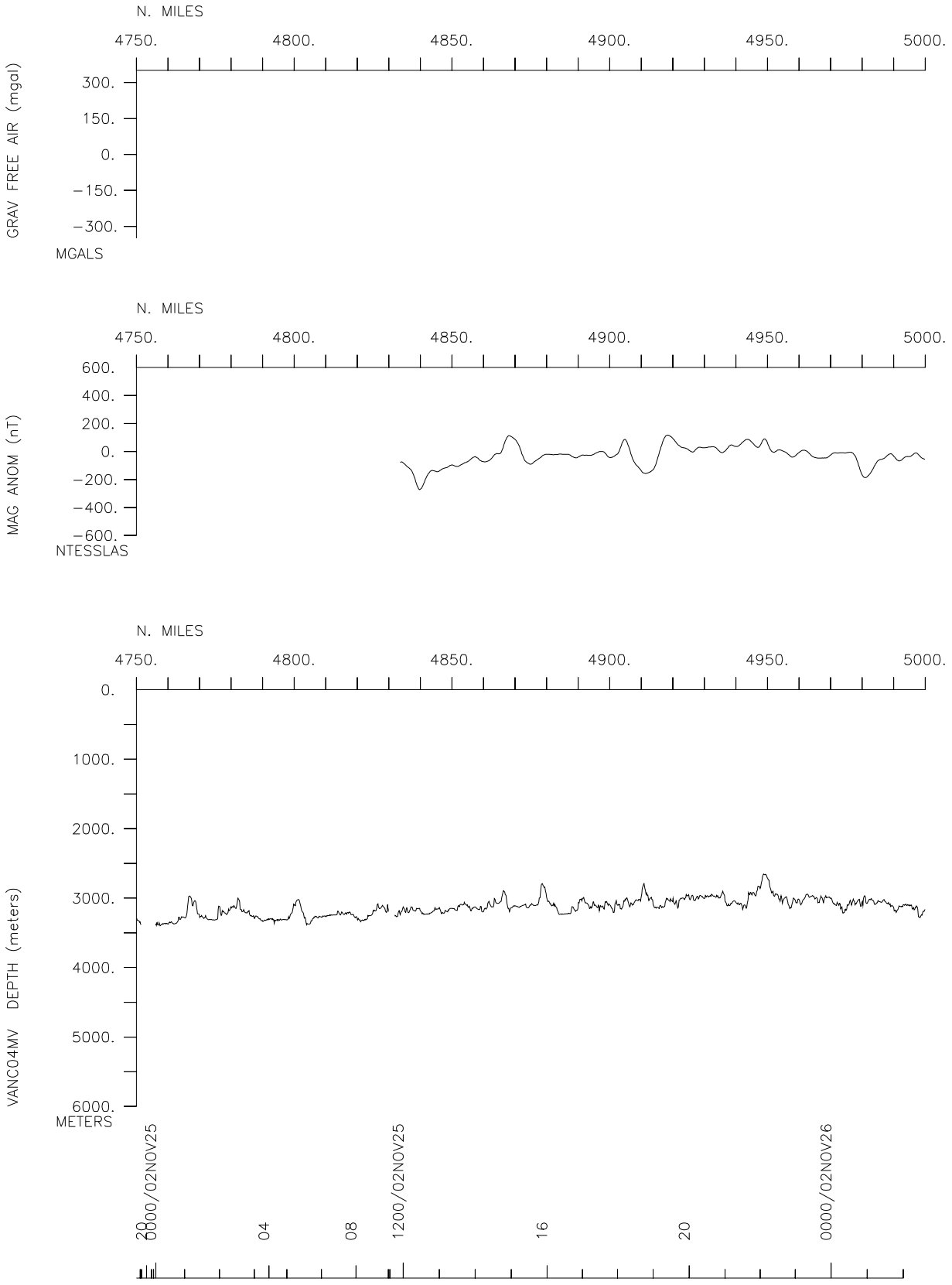
1200/02NOV24
16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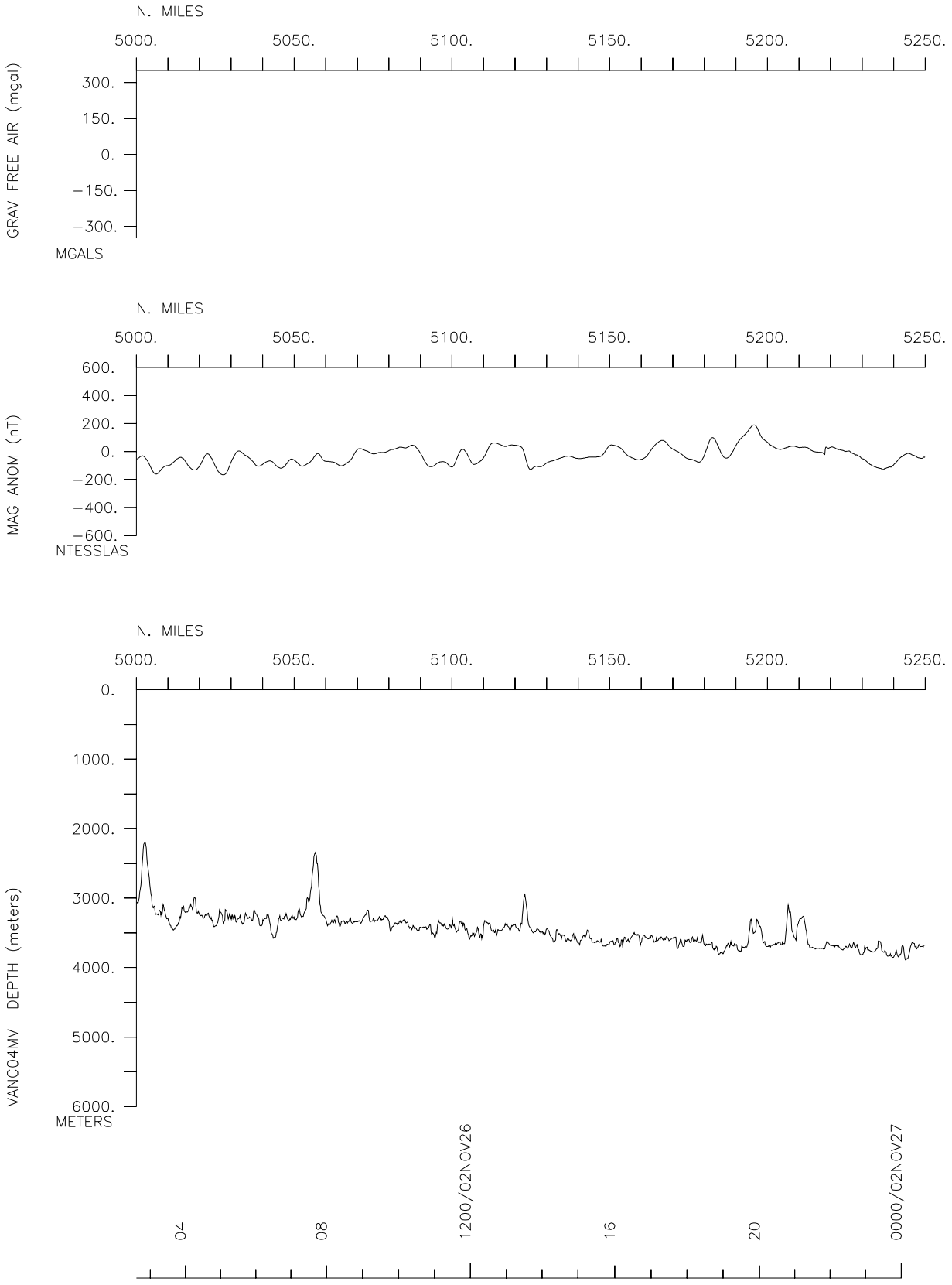
150.
0.
−150.
−300.
MGALS
N. MILES
4750.
4800.
4850.
4900.
4950.
5000.
MAG ANOM (nT)
600.
400.
200.
0.
−200.
−400.
−600.
NTESSLAS
N. MILES
4750.
4800.
4850.
4900.
4950.
5000.
VANC04MV DEPTH (meters)
0.
1000.
2000.
3000.
4000.
5000.
6000.
METERS
20
0000/02NOV25
04
08
1200/02NOV25
16
20
0000/02NOV26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MGALS
N. MILES
5000.
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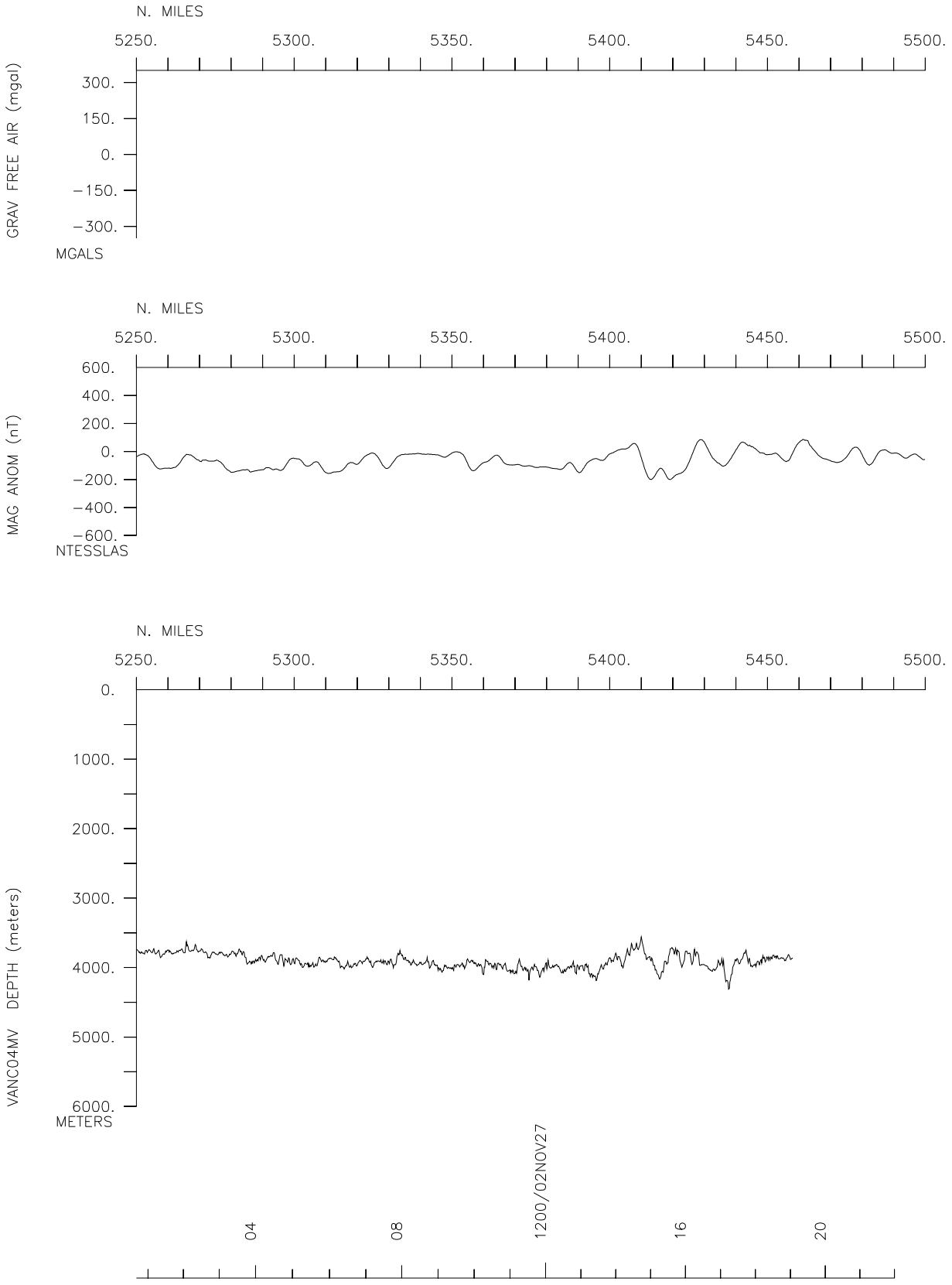
5100.
5150.
5200.
5250.
MAG ANOM (nT)
600.
400.
200.
0.
−200.
−400.
−600.
NTESSLAS
N. MILES
5000.
5050.
5100.
5150.
5200.
5250.
VANC04MV DEPTH (meters)
0.
1000.
2000.
3000.
4000.
5000.
6000.
METERS
04
08
1200/02NOV26
16
20
0000/02NOV27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−300.
MGALS
N. MILES
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5350.
5400.
5450.
5500.
MAG ANOM (nT)
600.
400.
200.
0.
−200.
−400.
−600.
NTESSLAS
N. MILES
5250.
5300.
5350.
5400.
5450.
5500.
VANC04MV DEPTH (meters)
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1000.
2000.
3000.
4000.
5000.
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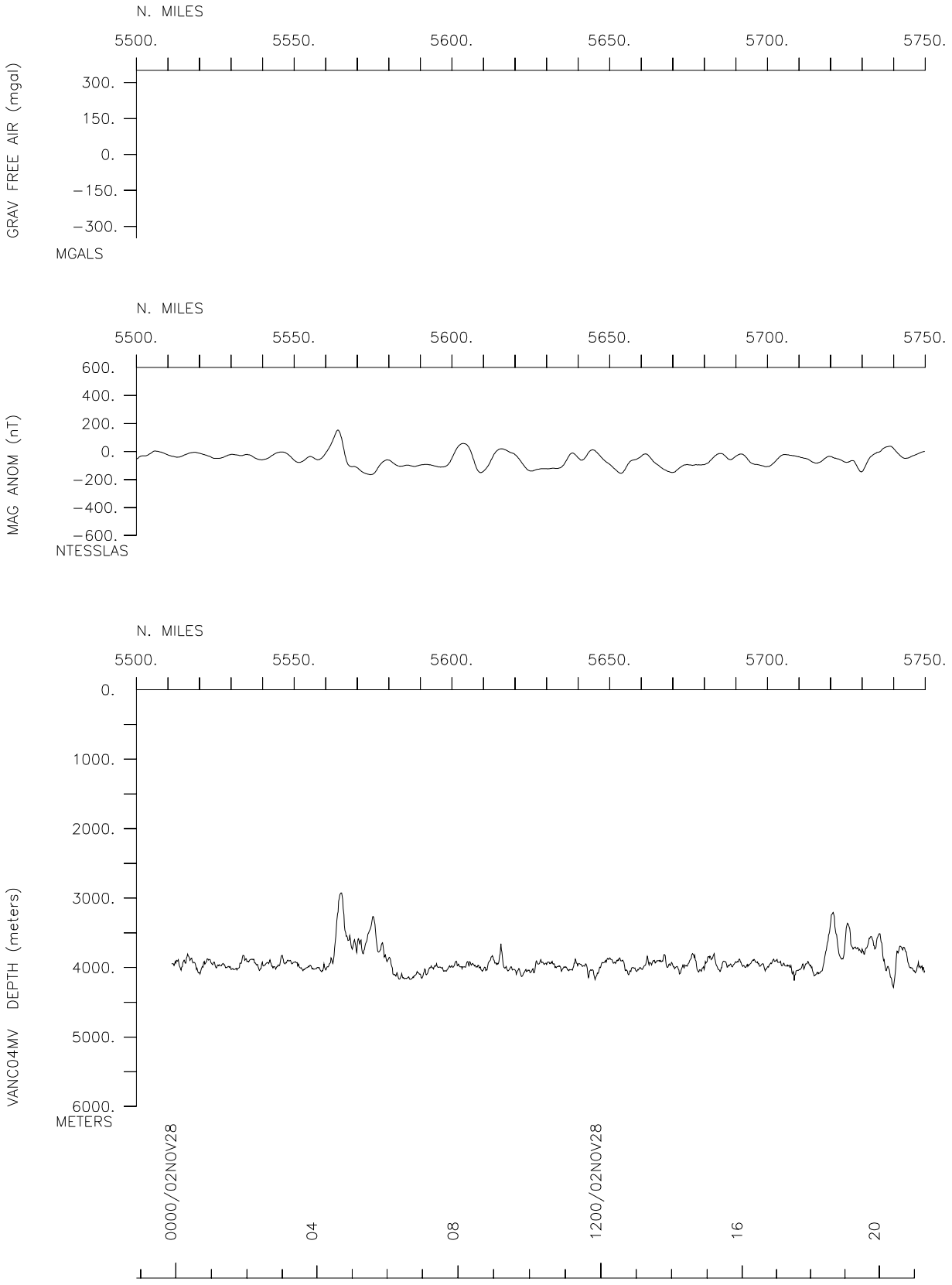
METERS
04
08
1200/02NOV27
16
20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GRAV FREE AIR (mgal)
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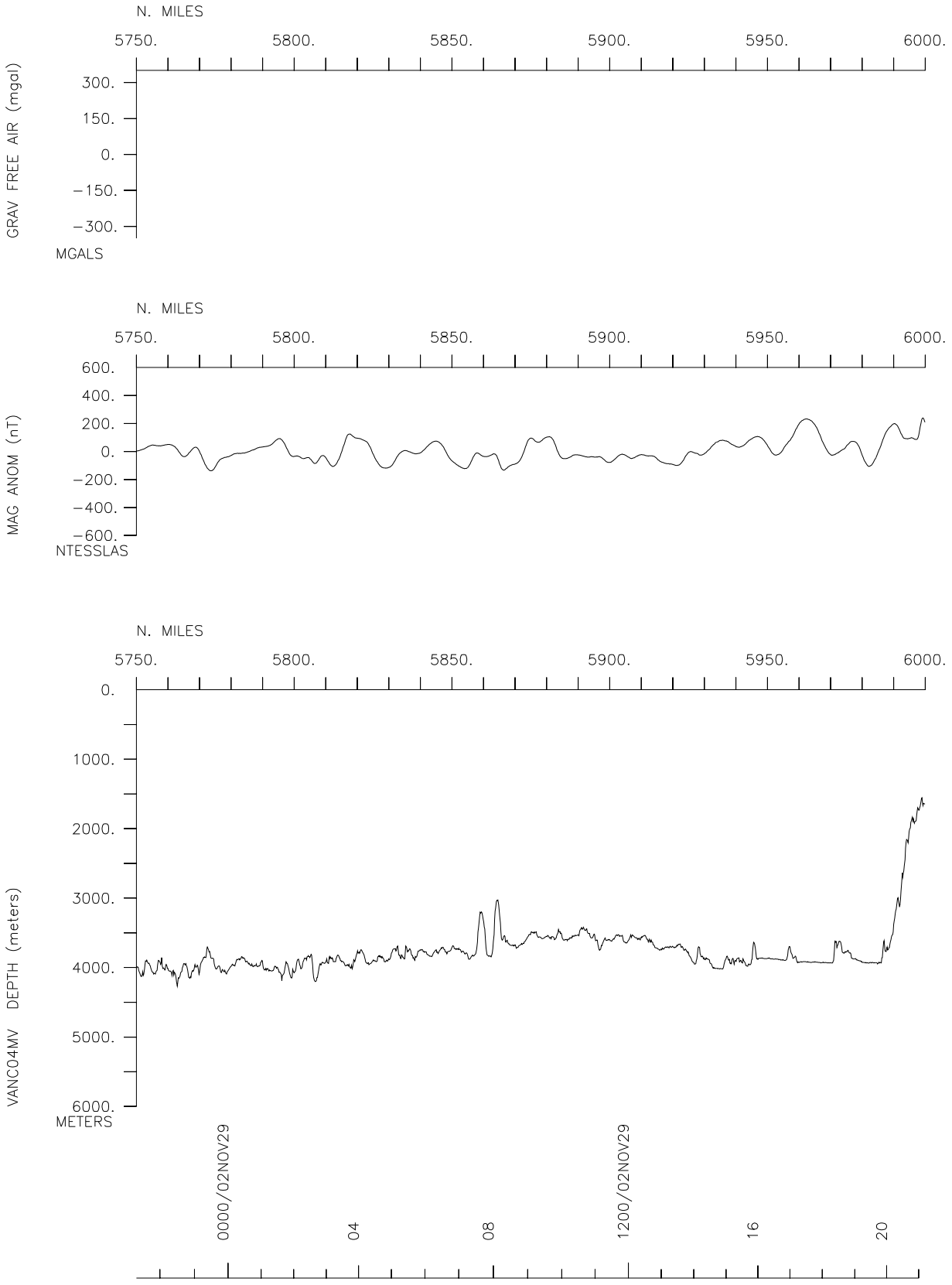
150.
0.
−150.
−300.
MGALS
N. MILES
5500.
5550.
5600.
5650.
5700.
5750.
MAG ANOM (nT)
600.
400.
200.
0.
−200.
−400.
−600.
NTESSLAS
N. MILES
5500.
5550.
5600.
5650.
5700.
5750.
VANC04MV DEPTH (meters)
0.
1000.
2000.
3000.
4000.
5000.
6000.
METERS
0000/02NOV28
04
08
1200/02NOV28
16
20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5850.
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5950.
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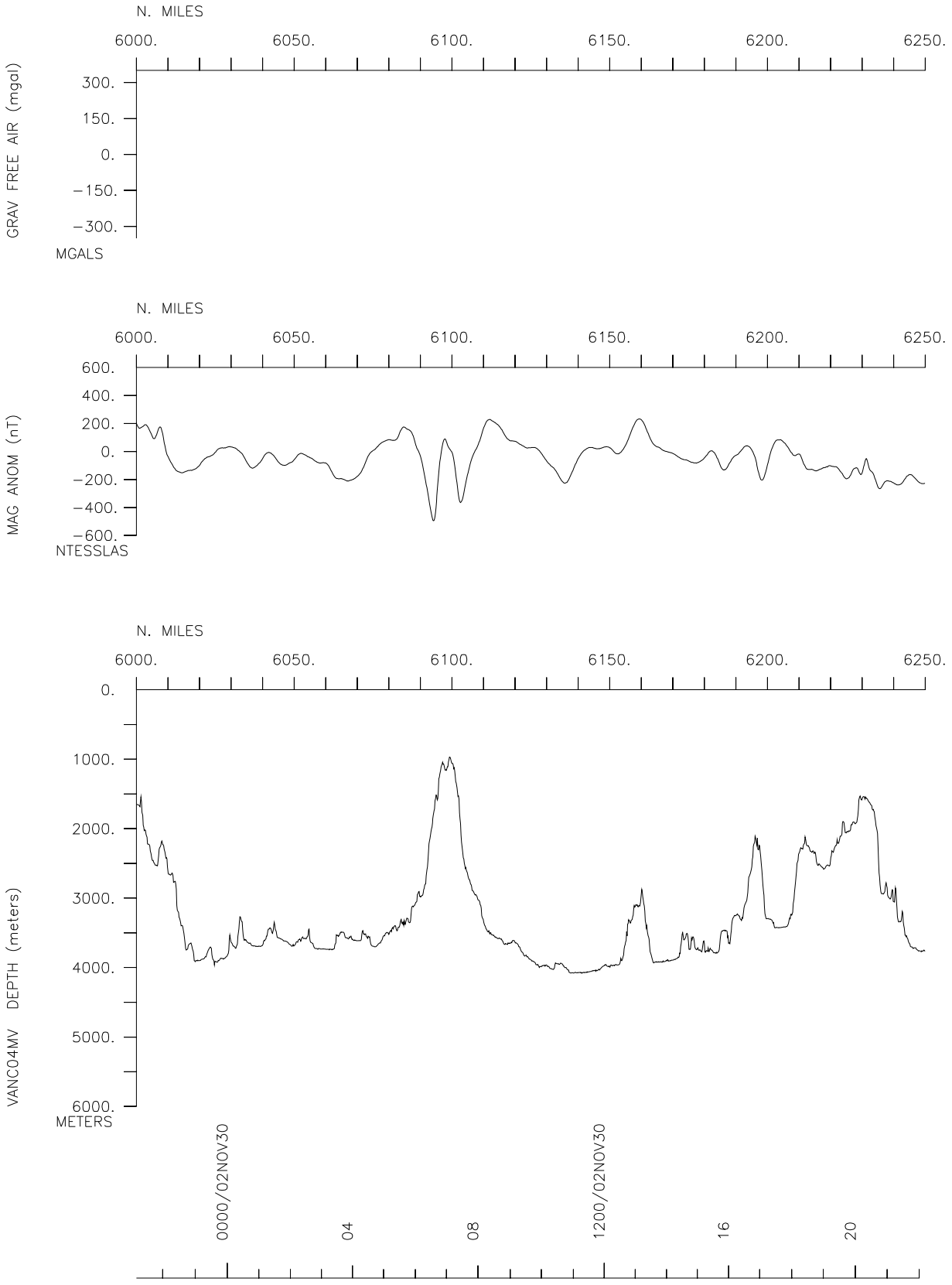
GRAV FREE AIR (mgal)
300.
150.
0.
−150.
−300.
MGALS
N. MILES
5750.
5800.
5850.
5900.
5950.
6000.
MAG ANOM (nT)
600.
400.
200.
0.
−200.
−400.
−600.
NTESSLAS
N. MILES
5750.
5800.
5850.
5900.
5950.
6000.
VANC04MV DEPTH (meters)
0.
1000.
2000.
3000.
4000.
5000.
6000.
METERS
0000/02NOV29
04
08
1200/02NOV29
16
20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6200.
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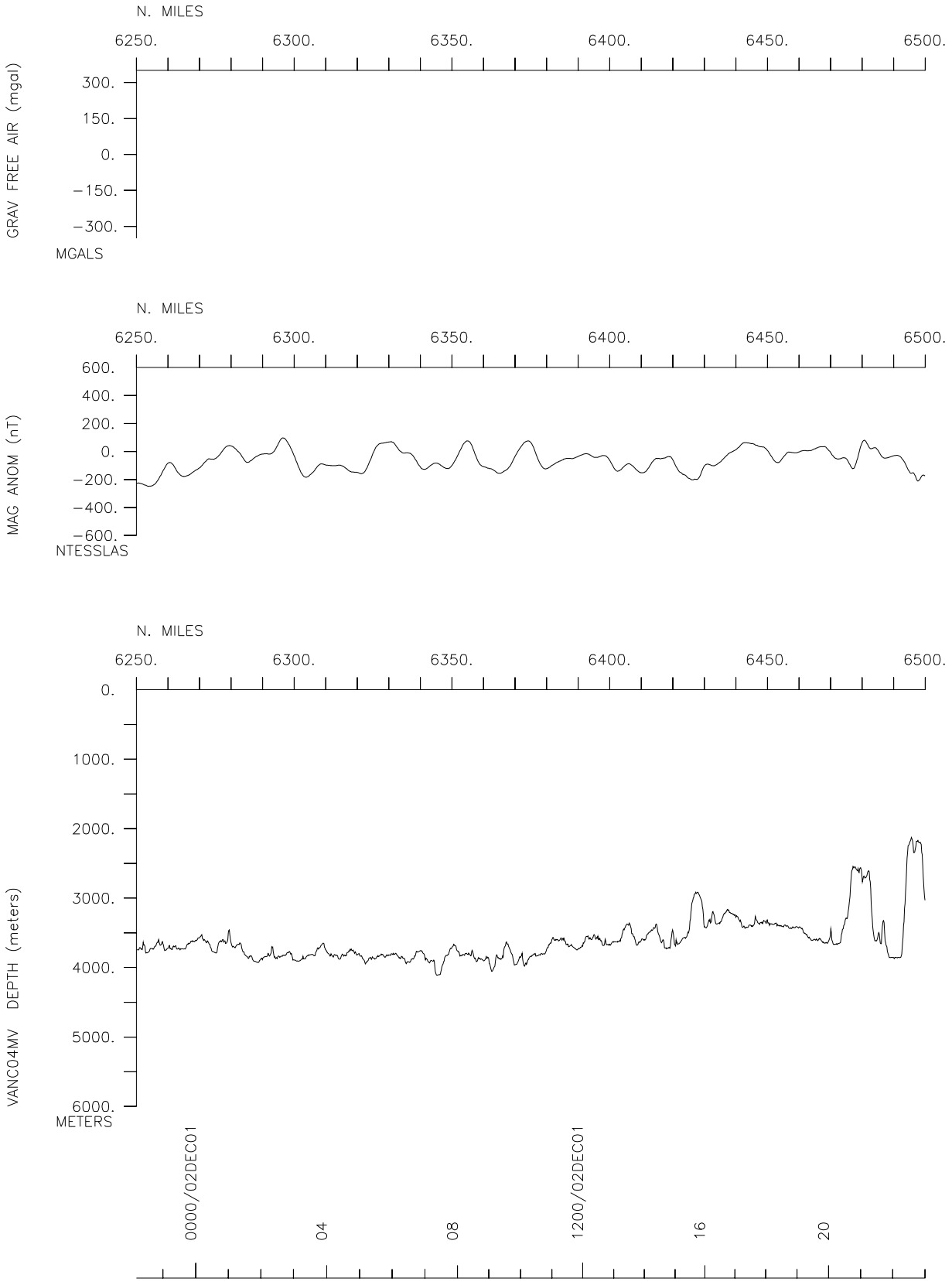
150.
0.
−150.
−300.
MGALS
N. MILES
6000.
6050.
6100.
6150.
6200.
6250.
MAG ANOM (nT)
600.
400.
200.
0.
−200.
−400.
−600.
NTESSLAS
N. MILES
6000.
6050.
6100.
6150.
6200.
6250.
VANC04MV DEPTH (meters)
0.
1000.
2000.
3000.
4000.
5000.
6000.
METERS
0000/02NOV30
04
08
1200/02NOV30
16
20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GRAV FREE AIR (mgal)
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0.
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MGALS
N. MILES
6250.
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6350.
6400.
6450.
6500.
MAG ANOM (nT)
600.
400.
200.
0.
−200.
−400.
−600.
NTESSLAS
N. MILES
6250.
6300.
6350.
6400.
6450.
6500.
VANC04MV DEPTH (meters)
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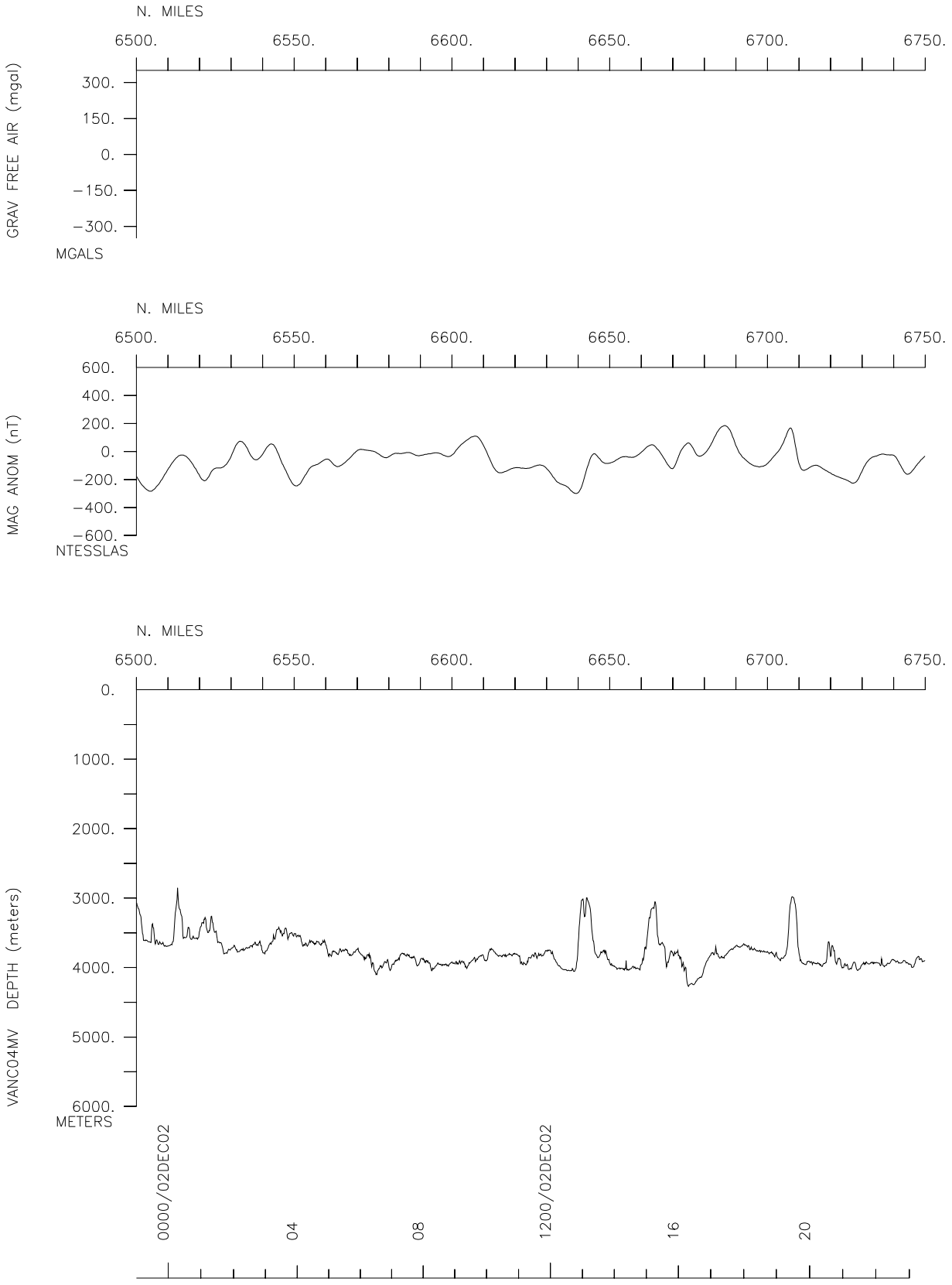
1000.
2000.
3000.
4000.
5000.
6000.
METERS
0000/02DEC01
04
08
1200/02DEC01
16
20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6750.
GRAV FREE AIR (mgal)
300.
150.
0.
−150.
−300.
MGALS
N. MILES
6500.
6550.
6600.
6650.
6700.
6750.
MAG ANOM (nT)
600.
400.
200.
0.
−200.
−400.
−600.
NTESSLAS
N. MILES
6500.
6550.
6600.
6650.
6700.
6750.
VANC04MV DEPTH (meters)
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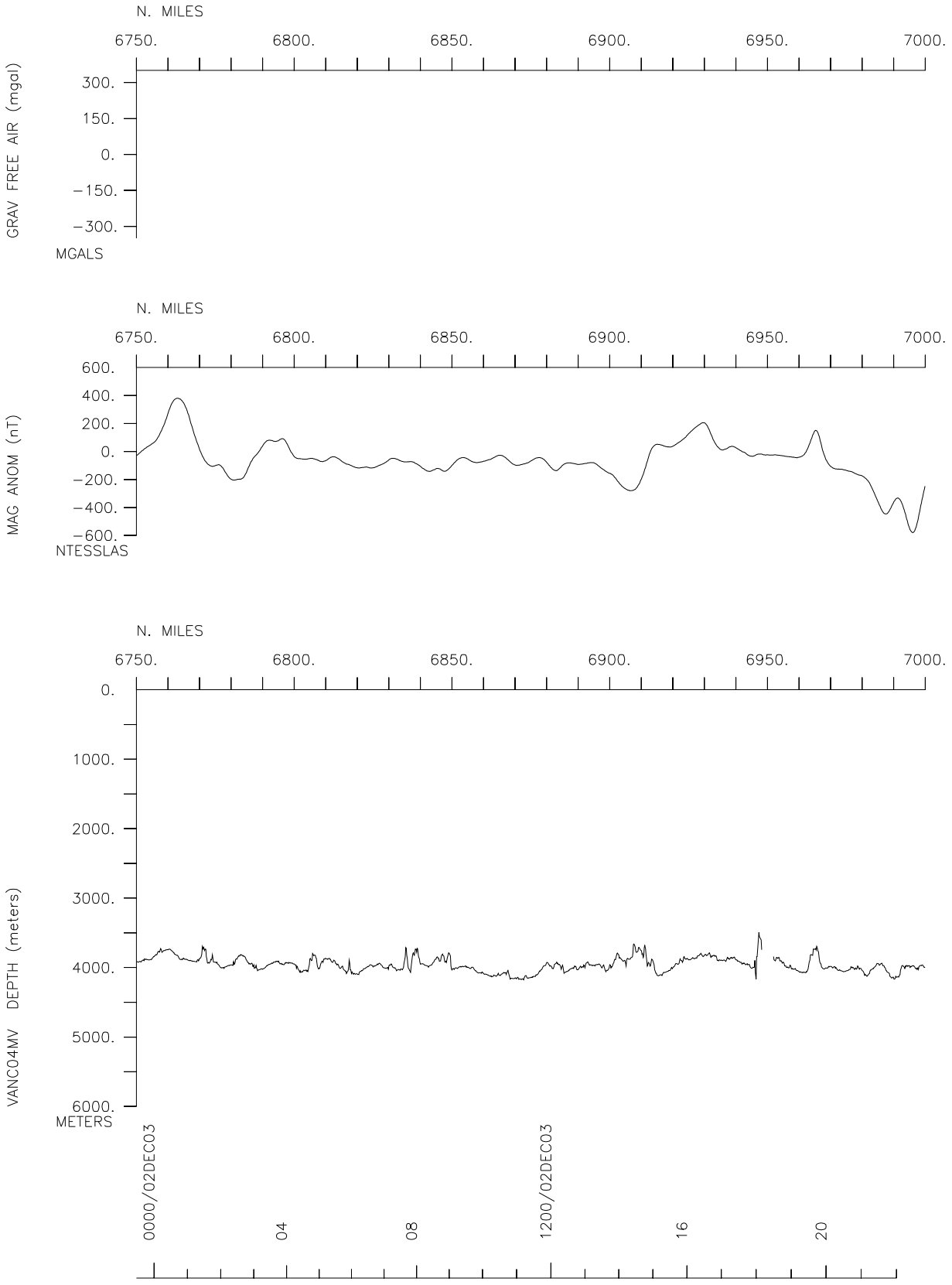
1000.
2000.
3000.
4000.
5000.
6000.
METERS
0000/02DEC02
04
08
1200/02DEC02
16
20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6950.
7000.
GRAV FREE AIR (mgal)
300.
150.
0.
−150.
−300.
MGALS
N. MILES
6750.
6800.
6850.
6900.
6950.
7000.
MAG ANOM (nT)
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400.
200.
0.
−200.
−400.
−600.
NTESSLAS
N. MILES
6750.
6800.
6850.
6900.
6950.
7000.
VANC04MV DEPTH (meters)
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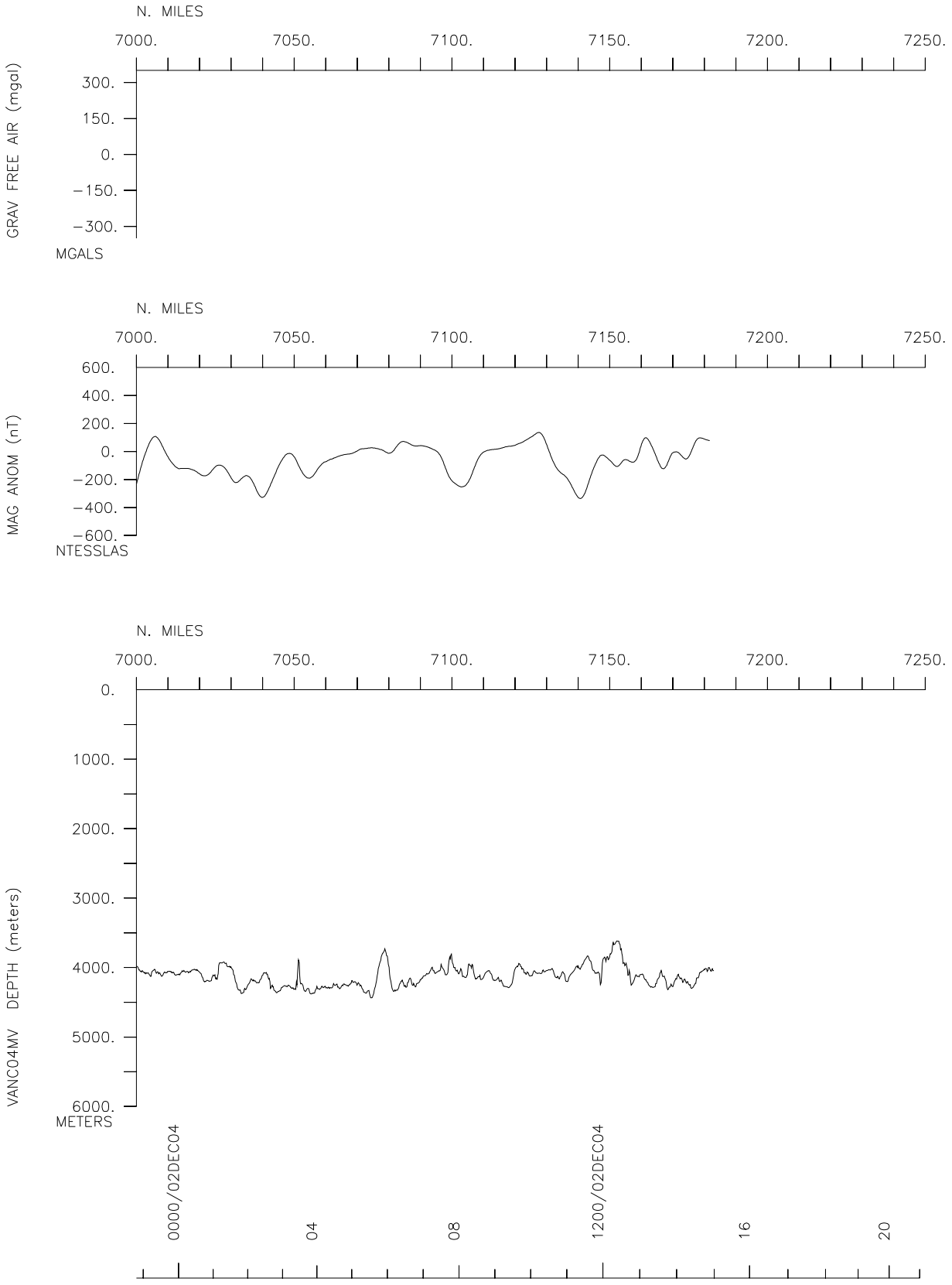
2000.
3000.
4000.
5000.
6000.
METERS
0000/02DEC03
04
08
1200/02DEC03
16
20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MGALS
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7150.
7200.
7250.
MAG ANOM (nT)
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400.
200.
0.
−200.
−400.
−600.
NTESSLAS
N. MILES
7000.
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7100.
7150.
7200.
7250.
VANC04MV DEPTH (meters)
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3000.
4000.
5000.
6000.
METERS
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16
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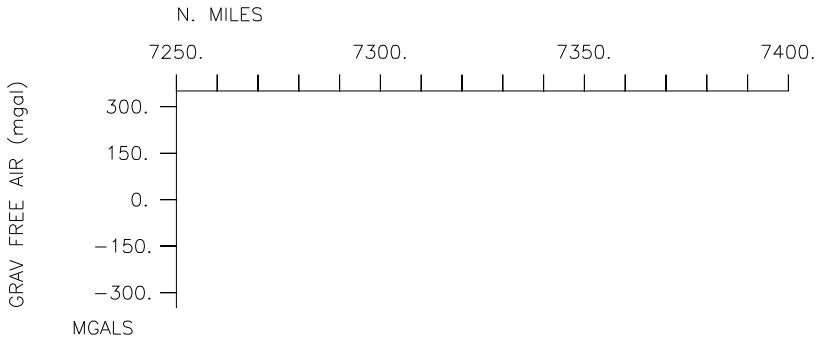
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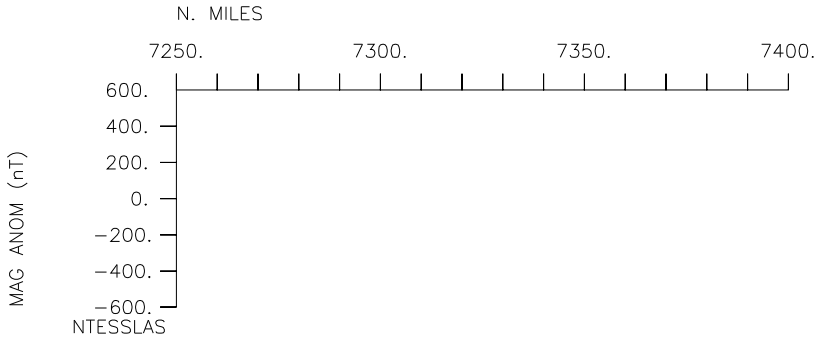
MGALS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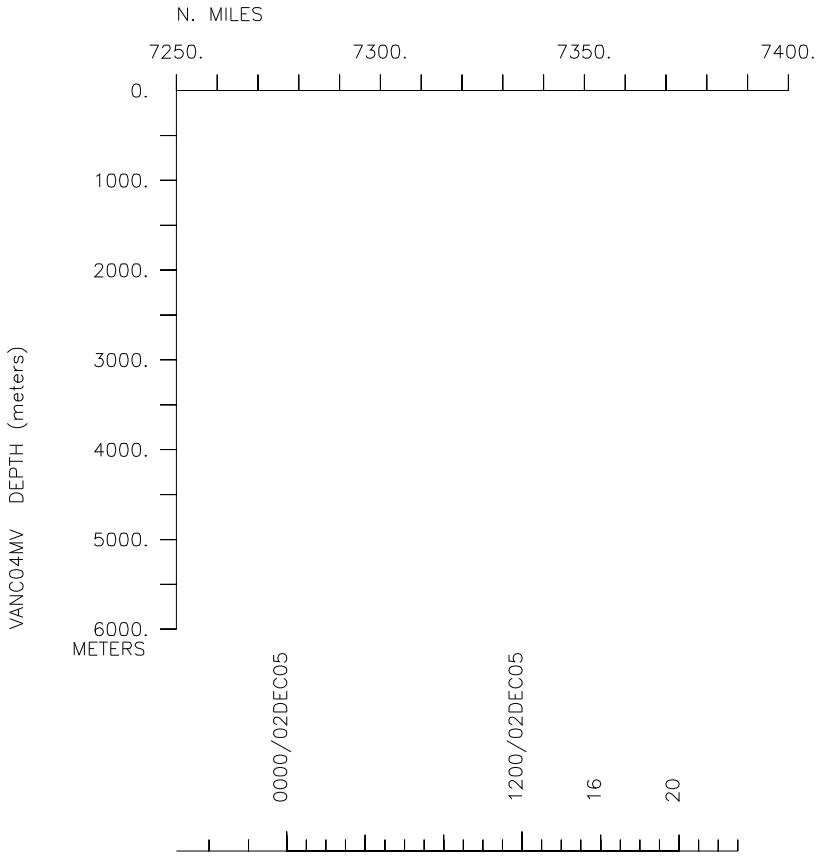
NTESSLAS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VANC04MV DEPTH (meters)
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1000.
2000.
3000.
4000.
5000.
6000.
METERS
0000/02DEC05
1200/02DEC05
16
20

```
#*** Ports ***

1900 021102 3  LGPT B Arica. Chile              18-29.00S  70-20.00W f VANC04MV
1230 051202 3  LGPT E Valparaiso, Chile         33-02.00S  71-37.00W f VANC04MV


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

PECS SIX  Forsyth, D.          Chief Sceintist    Brown University     VANC04MV
PESP LDEO Jonke, P.            Scientist          Lamont-Doherty       VANC04MV
PESP LDEO McKiernan, B         Technician         Lamont-Doherty       VANC04MV
PECT STS  French, B.           Computer tech      Scripps Institution  VANC04MV
PERT STS  Pillard, E.          Resident tech      Scripps Institution  VANC04MV
PEST SIX  Boroughs, L.         Grad student       Brown University     VANC04MV
PEST SIX  Harmon, N.           Grad student       Brown University     VANC04MV
PEST SIX  Soffer, G.           Grad student       Columbia University  VANC04MV
PEST SIX  Weeraratne, D.       Grad student       Brown University     VANC04MV
PEST SIX  Lamm, R.             Student            Brown University     VANC04MV
PEST SIX  Llenos, A.           Student            Brown University     VANC04MV


#*** 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 ***


#*** Log Books ***

0400 041102  0 LBUW B Underway watch log   STS  18-12.98S  76-46.38W g VANC04MV
0342 041202  0 LBUW E Underway watch log   STS  31-28.68S  78-01.35W g VANC04MV

0400 041102  0 LBSC B Scientific log book  SIX  18-12.98S  76-46.38W g VANC04MV
0342 041202  0 LBSC E Scientific log book  SIX  31-28.68S  78-01.35W g VANC04MV


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

0552 041102  0 MBSR B v.beam & sidescan    GDC  18-11.72S  77-09.06W g VANC04MV
0705 221102  0 MBSR E v.beam & sidescan    GDC  15-00.00S 115-48.37W g VANC04MV

0718 221102  0 MBSR B v.beam & sidescan    GDC  14-59.93S 115-48.23W g VANC04MV
1500 041202  0 MBSR E v.beam & sidescan    GDC  32-05.53S  75-35.61W g VANC04MV


#*** Digital Magnetics (Earth Total Field) ***

0631 041102  0 MGDD B digital magnetics    GDC  18-11.35S  77-15.68W g VANC04MV
1500 041202  0 MBDD E digital magnetics    GDC  32-05.53S  75-35.61W g VANC04MV
```

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

#*** Integrated Meteorological Acquisition System ***

1900 021102  0 IMET B Weather measurements GDC  18-28.45S  70-19.66W g VANC04MV
2355 041202  0 IMET E Weather measurements GDC  32-29.89S  73-48.81W g VANC04MV

#*** Acoustic Doppler Current Profiler ***

1900 021102  0 ADCP B Current measurements GDC  18-28.45S  70-19.66W g VANC04MV
2355 041202  0 ADCP E Current measurements GDC  32-29.89S  73-48.81W g VANC04MV

#*** Echo Sounder Records ***

1500 041102  0 DPR3 B 3.5KHz record r-01   GDC  18-05.66S  78-57.80W g VANC04MV
2327 091102  0 DPR3 E 3.5KHz record r-01   GDC  14-51.79S 104-18.18W g VANC04MV

2336 091102  0 DPR3 B 3.5KHz record r-02   GDC  14-51.48S 104-19.89W g VANC04MV
0018 111102  0 DPR3 E 3.5KHz record r-02   GDC  13-54.11S 109-04.85W g VANC04MV

0026 111102  0 DPR3 B 3.5KHz record r-03   GDC  13-53.79S 109-06.41W g VANC04MV
1158 251102  0 DPR3 E 3.5KHz record r-03   GDC  15-34.87S 114-44.99W g VANC04MV

1205 251102  0 DPR3 B 3.5KHz record r-04   GDC  15-35.57S 114-43.80W g VANC04MV
2245 021202  0 DPR3 E 3.5KHz record r-04   GDC  29-50.99S  83-45.45W g VANC04MV

2253 021202  0 DPR3 B 3.5KHz record r-05   GDC  29-51.47S  83-43.88W g VANC04MV
1500 041202  0 DPR3 E 3.5KHz record r-05   GDC  32-05.53S  75-35.61W g VANC04MV

#*** Ocean Bottom Seismic Buoys ***
#*** Recovered from Cook16MV expedition ***

1200 241201  0 SBOB C SHRUB                LDEO 18-28.45S  70-19.66W f VANC04MV
0857 121102  0 SBOB E OBS #39 Shrub        LDEO 12-22.13S 114-31.65W g VANC04MV

1200 241201  0 SBOB C TOM                  LDEO 18-28.45S  70-19.66W f VANC04MV
2157 121102  0 SBOB E OBS #32 Tom          LDEO 13-00.02S 115-51.56W g VANC04MV

1200 241201  0 SBOB C SLICK                LDEO 18-28.45S  70-19.66W f VANC04MV
0513 131102  0 SBOB E OBS #36 Slick        LDEO 12-29.09S 116-38.31W g VANC04MV

1200 241201  0 SBOB C NANCY                LDEO 18-28.45S  70-19.66W f VANC04MV
1613 131102  0 SBOB E OBS #34 Nancy        LDEO 11-43.94S 117-16.61W g VANC04MV

1200 241201  0 SBOB C GEORGE               LDEO 18-28.45S  70-19.66W f VANC04MV
1035 141102  0 SBOB E OBS #49 George       LDEO 12-43.04S 118-00.04W g VANC04MV

1200 241201  0 SBOB C ABE                  LDEO 18-28.45S  70-19.66W f VANC04MV
2258 151102  0 SBOB E OBS #46 ABE          LDEO 14-51.00S 118-22.35W g VANC04MV

1200 241201  0 SBOB C RUSS                 LDEO 18-28.45S  70-19.66W f VANC04MV
2238 161102  0 SBOB E OBS #50 Russ         LDEO 13-45.03S 117-54.27W g VANC04MV

1200 241201  0 SBOB C MENDEL               LDEO 18-28.45S  70-19.66W f VANC04MV
0756 171102  0 SBOB E OBS #48 Mendel       LDEO 13-10.27S 117-12.24W g VANC04MV
```

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

1200 241201  0 SBOB C SALOTE                LDEO 18-28.45S  70-19.66W f VANC04MV
1339 181102  0 SBOB E OBS Salote            LDEO 13-34.88S 115-58.65W g VANC04MV

1200 241201  0 SBOB C HOTU                  LDEO 18-28.45S  70-19.66W f VANC04MV
0841 191102  0 SBOB E OBS 053 Hotu          LDEO 13-45.73S 116-43.91W g VANC04MV

1200 241201  0 SBOB C POOKA                 LDEO 18-28.45S  70-19.66W f VANC04MV
1634 191102  0 SBOB E OBS 051 Pooka         LDEO 14-27.13S 117-11.91W g VANC04MV

1200 241201  0 SBOB C UMA                   LDEO 18-28.45S  70-19.66W f VANC04MV
0436 201102  0 SBOB E OBS 027 Uma           LDEO 15-38.99S 117-42.08W g VANC04MV

1200 241201  0 SBOB C RON                   LDEO 18-28.45S  70-19.66W f VANC04MV
1724 201102  0 SBOB E OBS. 028 RON          LDEO 15-41.84S 117-00.24W g VANC04MV

2105 241201  0 SBOB C HARALD                LDEO 18-28.45S  70-19.66W f VANC04MV
1928 211102  0 SBOB E OBS 030 Harald        LDEO 14-22.16S 116-09.30W g VANC04MV

1200 241201  0 SBOB C Helmut                LDEO 18-28.45S  70-19.66W f VANC04MV
0724 221102  0 SBOB E OBS Helmut            LDEO 14-59.88S 115-48.12W g VANC04MV

1200 241201  0 SBOB C BUTTERCUP             LDEO 18-28.45S  70-19.66W f VANC04MV
1337 221102  0 SBOB E OBS Buttercup         LDEO 15-16.79S 116-22.41W g VANC04MV

1200 241201  0 SBOB C XENA                  LDEO 18-28.45S  70-19.66W f VANC04MV
1909 221102  0 SBOB E OBS 045 Xena          LDEO 15-36.21S 115-54.41W g VANC04MV

0107 231102  0 SBOB B OBS "Spiro"           LDEO 15-24.60S 115-11.57W g VANC04MV
2006 241102  0 SBOB E OBS Spiro             LDEO 15-24.81S 115-11.82W g VANC04MV

1200 241201  0 SBOB C VICTOR                LDEO 18-28.45S  70-19.66W f VANC04MV
1107 231102  0 SBOB E OBS Victor            LDEO 14-27.18S 114-56.95W g VANC04MV

1200 241201  0 SBOB C MAGGIE                LDEO 18-28.45S  70-19.66W f VANC04MV
1825 231102  0 SBOB E OBS 038 Maggie        LDEO 13-48.26S 115-07.19W g VANC04MV

1200 241201  0 SBOB C ROGER                 LDEO 18-28.45S  70-19.66W f VANC04MV
0656 241102  0 SBOB E OBS 037 Roger         LDEO 13-45.09S 114-16.75W g VANC04MV

1931 241102  0 SBOB B OBS Frodo             LDEO 15-24.20S 115-11.89W g VANC04MV
2349 241102  0 SBOB E OBS Frodo             LDEO 15-24.51S 115-12.13W g VANC04MV

1200 241201  0 SBOB C ELEANOR               LDEO 18-28.45S  70-19.66W f VANC04MV
2159 241102  0 SBOB E OBS 042 Eleanor       LDEO 15-24.70S 115-12.25W g VANC04MV

1200 241201  0 SBOB C SID                   LDEO 18-28.45S  70-19.66W f VANC04MV
0513 251102  0 SBOB E OBS 044 Sid           LDEO 15-59.94S 115-15.00W g VANC04MV

1200 241201  0 SBOB C TONY                  LDEO 18-28.45S  70-19.66W f VANC04MV
1118 251102  0 SBOB E OBS Tony              LDEO 15-33.03S 114-47.97W g VANC04MV
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#GMT DDMMYY    SAMP B SAMPLE                DISP                        p CRUISE
#TIME DATE  TZ CODE E IDENTIFIER            CODE LATITUDE  LONGITUDE  c LEG-SHIP
#---------- -- ---------------------------- ---- --------- ---------- - --------

#*** Dredges ***

2051 131102  0 DRRO B Dredge #55            LDEO 11-52.79S 117-23.23W g VANC04MV
2217 131102  0 DRRO E Dredge55 3611-3650m   LDEO 11-52.55S 117-22.68W g VANC04MV

1339 141102  0 DRRO B Dredge #56            LDEO 12-50.36S 117-50.80W g VANC04MV
1516 141102  0 DRRO E Dredge56 2322-2020m   LDEO 12-50.69S 117-50.71W g VANC04MV

1818 141102  0 DRRO B Dredge #57            LDEO 12-51.82S 117-44.53W g VANC04MV
2004 141102  0 DRRO E Dredge57  1158-893m   LDEO 12-52.10S 117-44.42W g VANC04MV

0626 161102  0 DRRO B Dredge #58            LDEO 15-01.22S 117-48.17W g VANC04MV
0732 161102  0 DRRO E Dredge58 2826-2612m   LDEO 15-01.48S 117-48.05W g VANC04MV

2046 171102  0 DRRO B Dredge #59            LDEO 13-14.11S 116-59.22W g VANC04MV
2143 171102  0 DRRO E Dredge59 2683-2512m   LDEO 13-14.11S 116-59.22W g VANC04MV

0116 181102  0 DRRO B Dredge #60            LDEO 13-18.01S 116-37.75W g VANC04MV
0243 181102  0 DRRO E Dredge60 1560-1287m   LDEO 13-17.95S 116-37.43W g VANC04MV

0726 181102  0 DRRO B Dredge #61            LDEO 13-23.38S 116-11.99W g VANC04MV
0826 181102  0 DRRO E Dredge61 1463-1330m   LDEO 13-23.30S 116-11.80W g VANC04MV

0801 201102  0 DRRO B Dredge #62            LDEO 15-25.41S 117-25.96W g VANC04MV
0930 201102  0 DRRO E Dredge62 1780-1413m   LDEO 15-25.65S 117-25.82W g VANC04MV

2158 201102  0 DRRO B Dredge #63            LDEO 15-13.16S 116-48.67W g VANC04MV
2322 201102  0 DRRO E Dredge63 2025-1730m   LDEO 15-13.27S 116-48.40W g VANC04MV

1444 211102  0 DRRO B Dredge #64            LDEO 14-19.58S 116-15.39W g VANC04MV
1542 211102  0 DRRO E Dredge64 3253-3163m   LDEO 14-19.45S 116-15.15W g VANC04MV

2212 211102  0 DRRO X Dredge #65            LDEO 14-25.33S 116-00.11W g VANC04MV
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#GMT DDMMYY    SAMP B SAMPLE                DISP                        p CRUISE
#TIME DATE  TZ CODE E IDENTIFIER            CODE LATITUDE  LONGITUDE  c LEG-SHIP
#---------- -- --------------------------- ---- --------- ---------- - --------

#*** Expendable Bathythermographs ***

0521 041102  0 BTXP   MK21  # 58 Fast_Deep GDC  18-12.07S  77-02.82W g VANC04MV
1413 051102  0 BTXP   MK21  # 59 Fast_Deep GDC  17-44.71S  83-34.21W g VANC04MV
1345 061102  0 BTXP   MK21  # 60 Fast_Deep GDC  17-16.72S  88-15.54W g VANC04MV
1357 071102  0 BTXP   MK21  # 61 Fast_Deep GDC  16-41.37S  93-02.44W g VANC04MV
1437 081102  0 BTXP   MK21  # 62 Fast_Deep GDC  15-58.63S  97-52.84W g VANC04MV
1448 091102  0 BTXP   MK21  # 63 Fast_Deep GDC  15-10.03S 102-37.70W g VANC04MV
1439 101102  0 BTXP   MK21  # 64 Fast_Deep GDC  14-17.17S 107-12.24W g VANC04MV
1520 111102  0 BTXP   MK21  # 65 Fast_Deep GDC  13-16.73S 111-58.03W g VANC04MV
1529 111102  0 BTXP   MK21  # 66 Fast_Deep GDC  13-16.36S 111-59.72W g VANC04MV
1606 121102  0 BTXP   MK21  # 67 Fast_Deep GDC  13-04.13S 115-06.19W g VANC04MV
1643 141102  0 BTXP   MK21  # 68 Fast_Deep GDC  12-50.84S 117-49.55W g VANC04MV
1543 151102  0 BTXP   MK21  # 69 Fast_Deep GDC  15-14.74S 118-15.66W g VANC04MV
1557 151102  0 BTXP   MK21  # 70 Fast_Deep GDC  15-14.60S 118-13.22W g VANC04MV
1506 161102  0 BTXP   MK21  # 71 Fast_Deep GDC  14-37.40S 118-14.97W g VANC04MV
1515 181102  0 BTXP   MK21  # 72 Fast_Deep GDC  13-34.65S 116-12.48W g VANC04MV
1754 201102  0 BTXP   MK21  # 73 Fast_Deep GDC  15-39.79S 116-59.22W g VANC04MV
1952 221102  0 BTXP   MK21  # 74 Fast_Deep GDC  15-35.39S 115-51.75W g VANC04MV
1649 241102  0 BTXP   MK21  # 75 Fast_Deep GDC  15-15.84S 115-02.00W g VANC04MV
1352 261102  0 BTXP   MK21  # 76 Fast_Deep GDC  18-07.57S 110-23.83W g VANC04MV
1439 271102  0 BTXP   MK21  # 77 Fast_Deep GDC  20-27.27S 106-06.01W g VANC04MV
1501 281102  0 BTXP   MK21  # 78 Fast_Deep GDC  22-38.69S 101-48.19W g VANC04MV
1339 291102  0 BTXP   MK21  # 79 Fast_Deep GDC  24-28.63S  97-53.05W g VANC04MV
1301 301102  0 BTXP   MK21  # 80 Fast_Deep GDC  26-10.05S  93-58.17W g VANC04MV
1222 011202  0 BTXP   MK21  # 81 Fast_Deep GDC  27-44.96S  89-55.64W g VANC04MV
1203 021202  0 BTXP   MK21  # 82 Fast_Deep GDC  29-13.02S  85-44.84W g VANC04MV
1213 021202  0 BTXP   MK21  # 83 Fast_Deep GDC  29-13.64S  85-43.04W g VANC04MV
1227 031202  0 BTXP   MK21  # 84 Fast_Deep GDC  30-38.22S  81-08.02W g VANC04MV
1237 031202  0 BTXP   MK21  # 85 Fast_Deep GDC  30-38.79S  81-06.08W g VANC04MV
1208 041202  0 BTXP   MK21  # 86 Fast_Deep GDC  31-55.90S  76-13.80W g VANC04MV

#                     End Sample Index                                VANC04MV
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