Report and Index of

Underway Marine Geophysical Data

Dana Expedition

Leg 03

(DANA03RR)

R/V Roger Revelle

(Issued Feb 2004)

Ports:
Manta, Ecuador (10-NOV-03)
to
Arica, Chile (26-NOV-03)

Chief Scientist: Robert Weller
Woods Hole Oceanographic Institution
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Computer Tech - Scott Allen
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

STS Cruise ID#301

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.

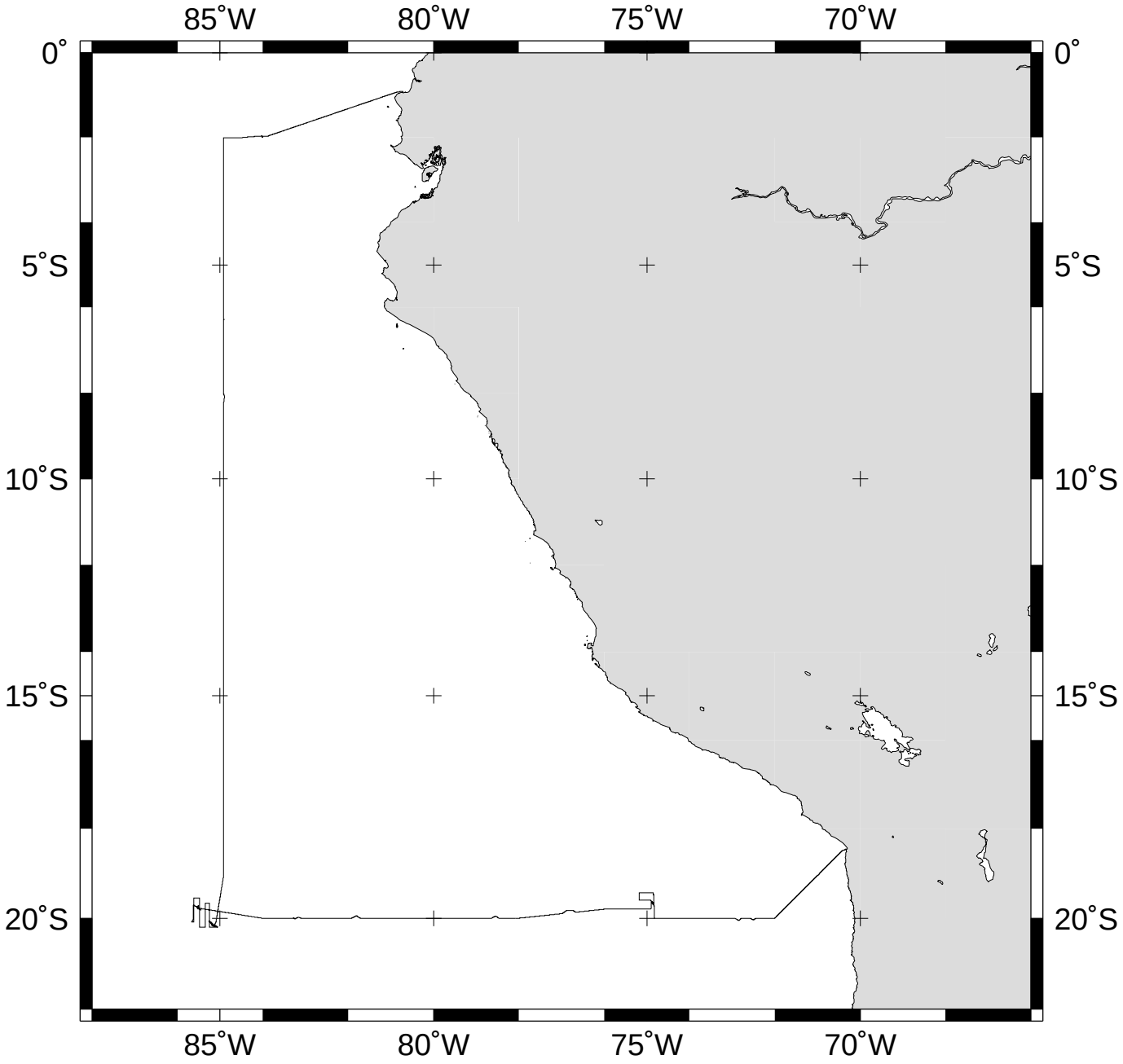
Profiles - depth, magnetic and gravity free air anomaly vs. distance.

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



DANA EXPEDITION LEG 3 (DANA03RR)

CHIEF SCIENTIST: Robert Weller, Woods Hole Oceanographic Institution

PORTS: Manta, Ecuador - Arica, Chile

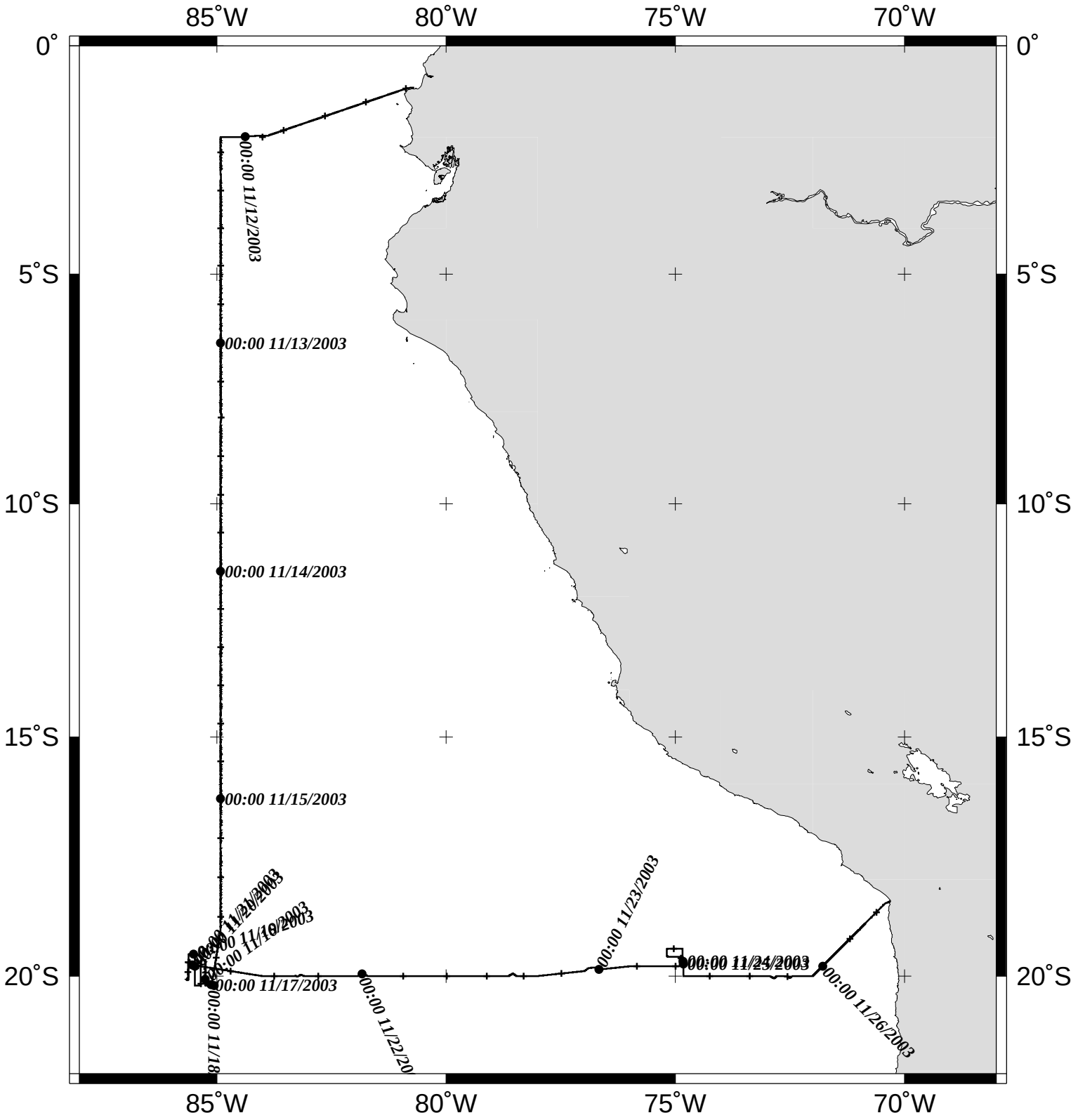
DATES: 10 - 26 November 2003

SHIP: R/V Revelle

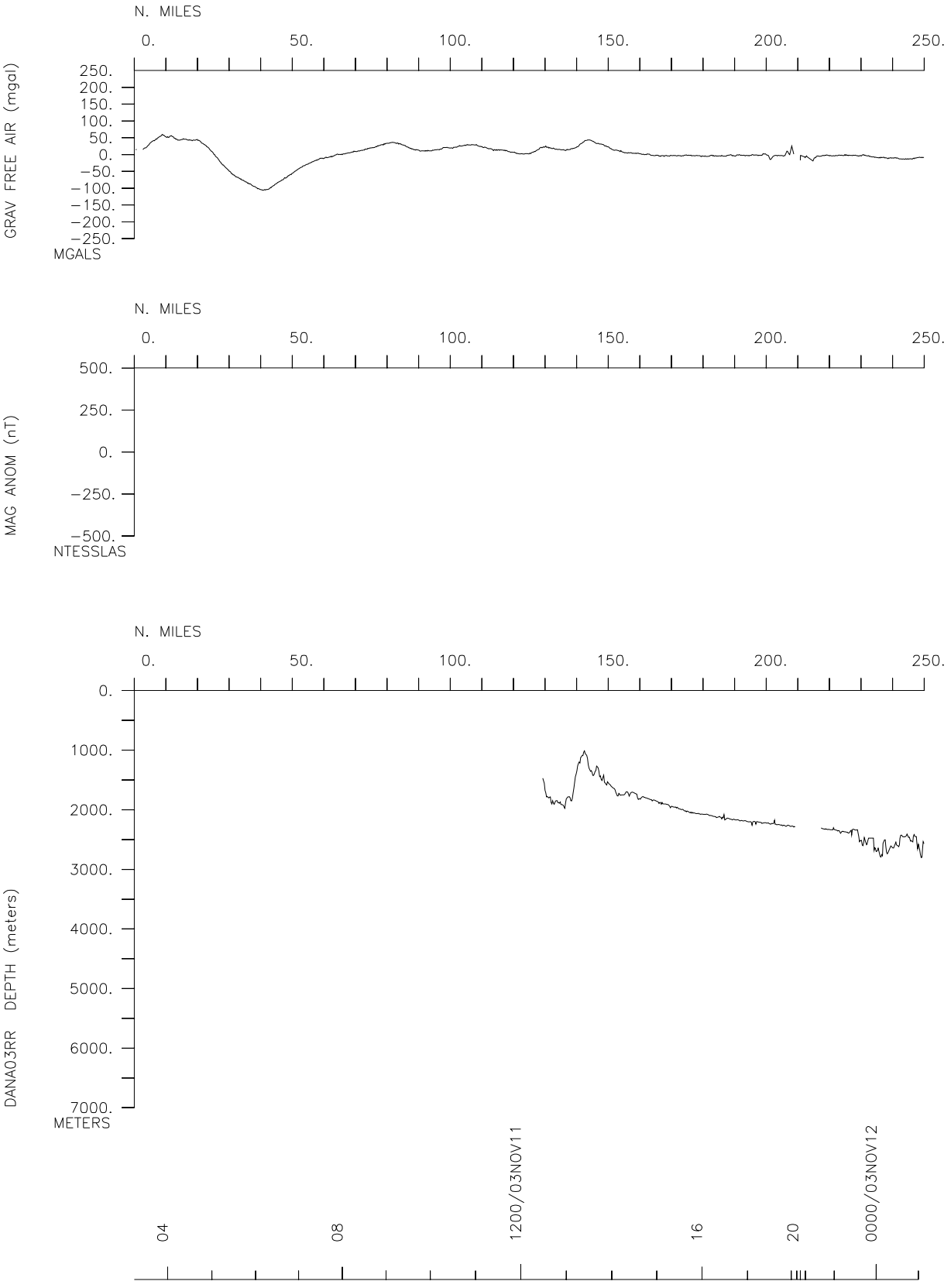
TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

Cruise-2646 miles	**Magnetics-none collected**
Bathymetry-2395 miles	**Seismic Reflection-none collected**
Multibeam-2395 miles	**Gravity-2581 miles**

DANA03RR



GMT 2004 Feb 17 09:53:25 **:Manta, Ecuador - Arice, Chile 10 - 26 November 2003 :**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150.
200.
250.
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200.
150.
100.
50.
0.
−50.
−100.
−150.
−200.
−250.
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.
DANA03RR DEPTH (meters)
0.
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2000.
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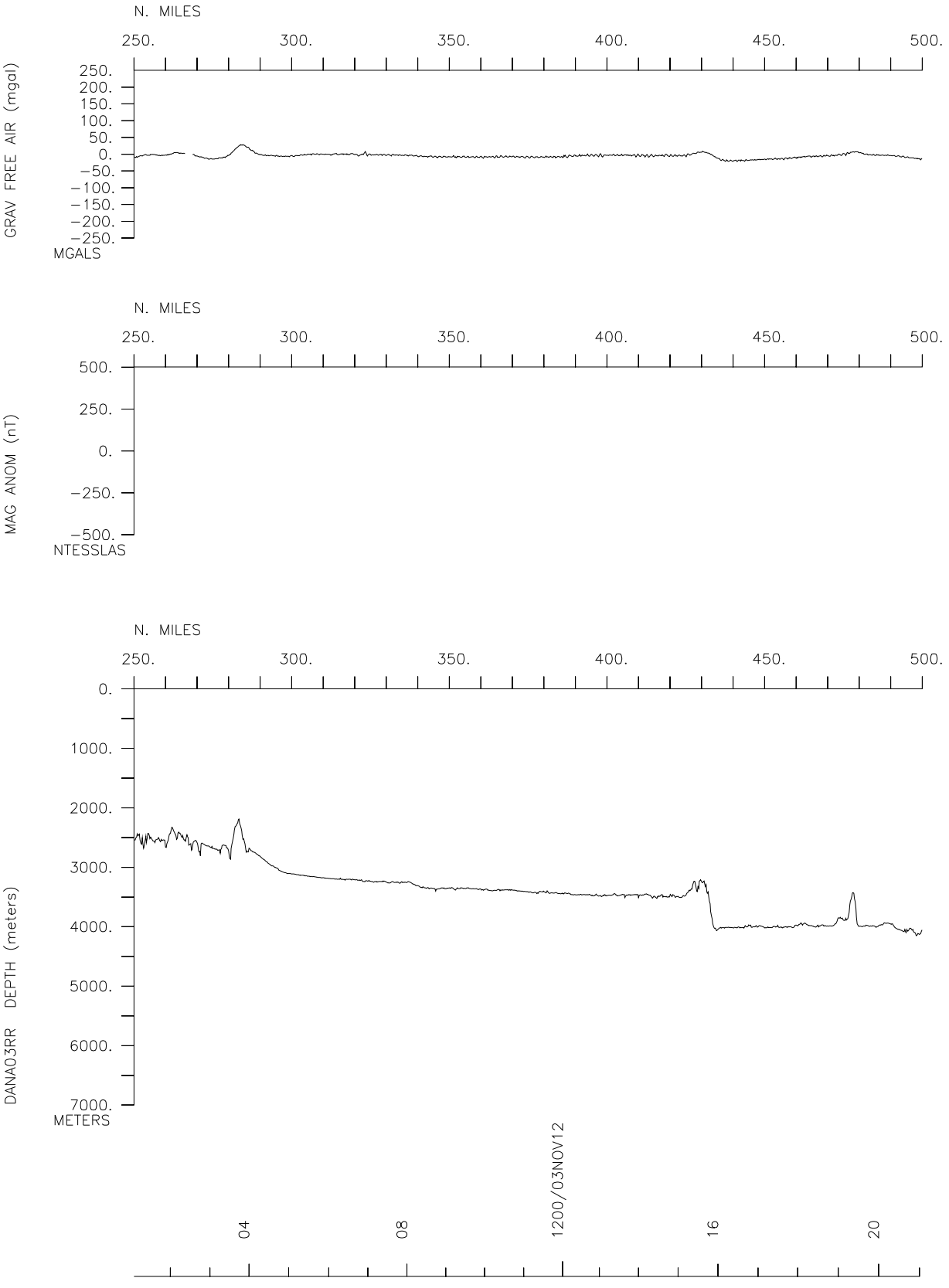
4000.
5000.
6000.
7000.
METERS
04
08
1200/03NOV11
16
20
0000/03NOV12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−50.
−100.
−150.
−200.
−250.
MGALS
N. MILES
250.
300.
350.
400.
450.
500.
MAG ANOM (nT)
500.
250.
0.
−250.
−500.
NTESSLAS
N. MILES
250.
300.
350.
400.
450.
500.
DANA03RR DEPTH (meters)
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2000.
3000.
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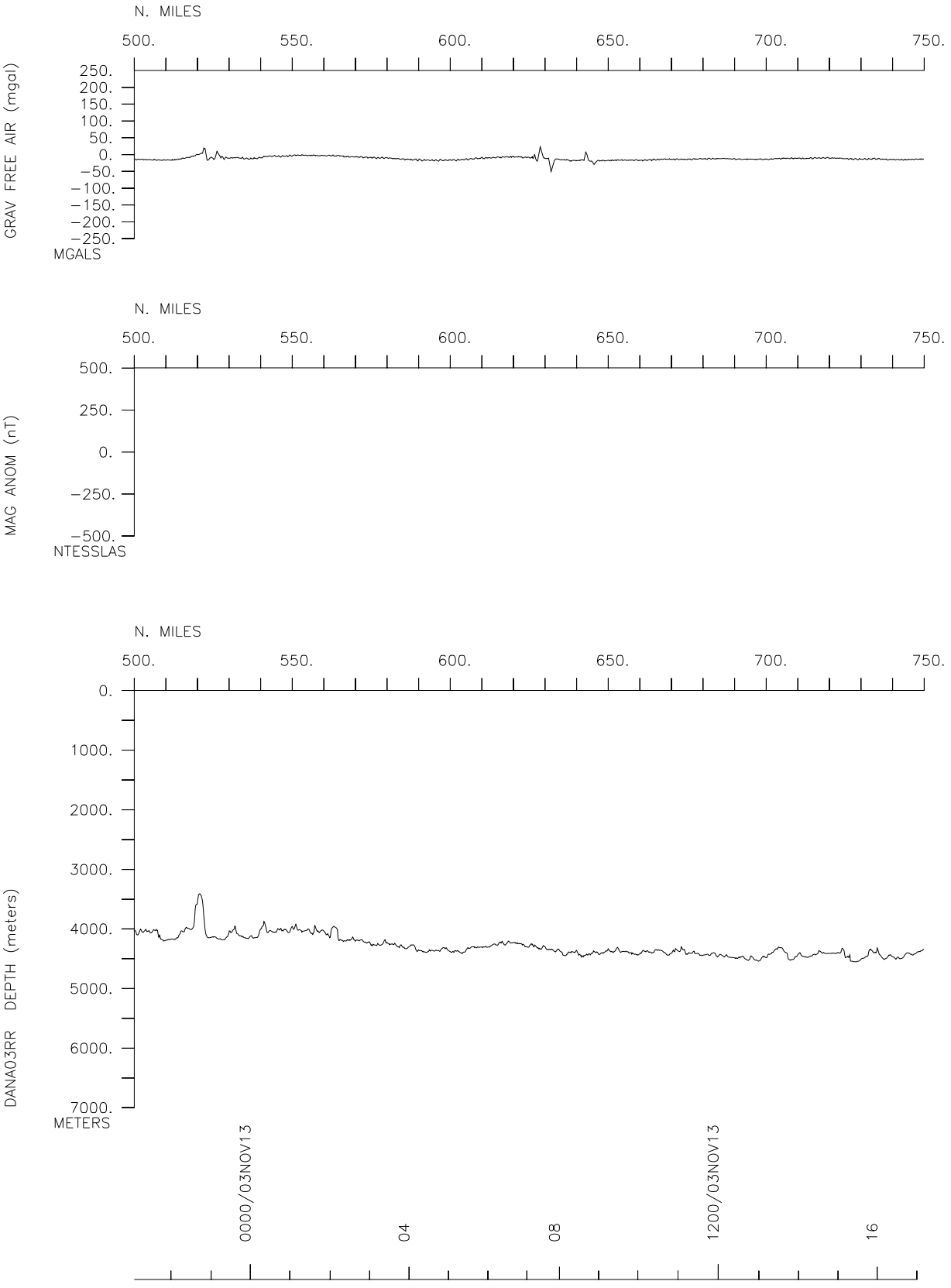
METERS
04
08
1200/03NOV12
16
20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−50.
−100.
−150.
−200.
−250.
MGALS
N. MILES
500.
550.
600.
650.
700.
750.
MAG ANOM (nT)
500.
250.
0.
−250.
−500.
NTESSLAS
N. MILES
500.
550.
600.
650.
700.
750.
DANA03RR DEPTH (meters)
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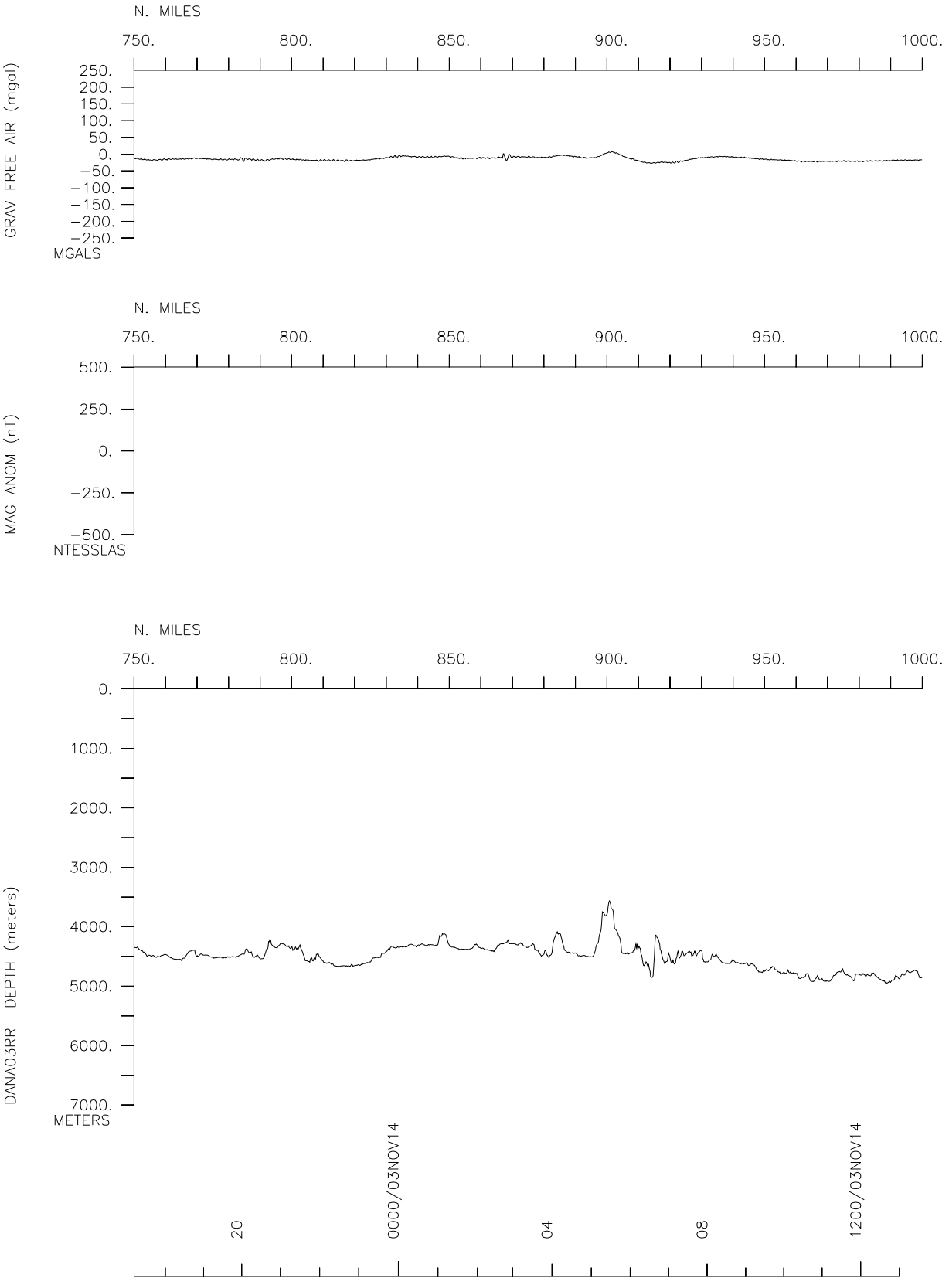
2000.
3000.
4000.
5000.
6000.
7000.
METERS
0000/03NOV13
04
08
1200/03NOV13
16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200.
150.
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50.
0.
−50.
−100.
−150.
−200.
−250.
MGALS
N. MILES
750.
800.
850.
900.
950.
1000.
MAG ANOM (nT)
500.
250.
0.
−250.
−500.
NTESSLAS
N. MILES
750.
800.
850.
900.
950.
1000.
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3000.
4000.
5000.
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METERS
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0000/03NOV14
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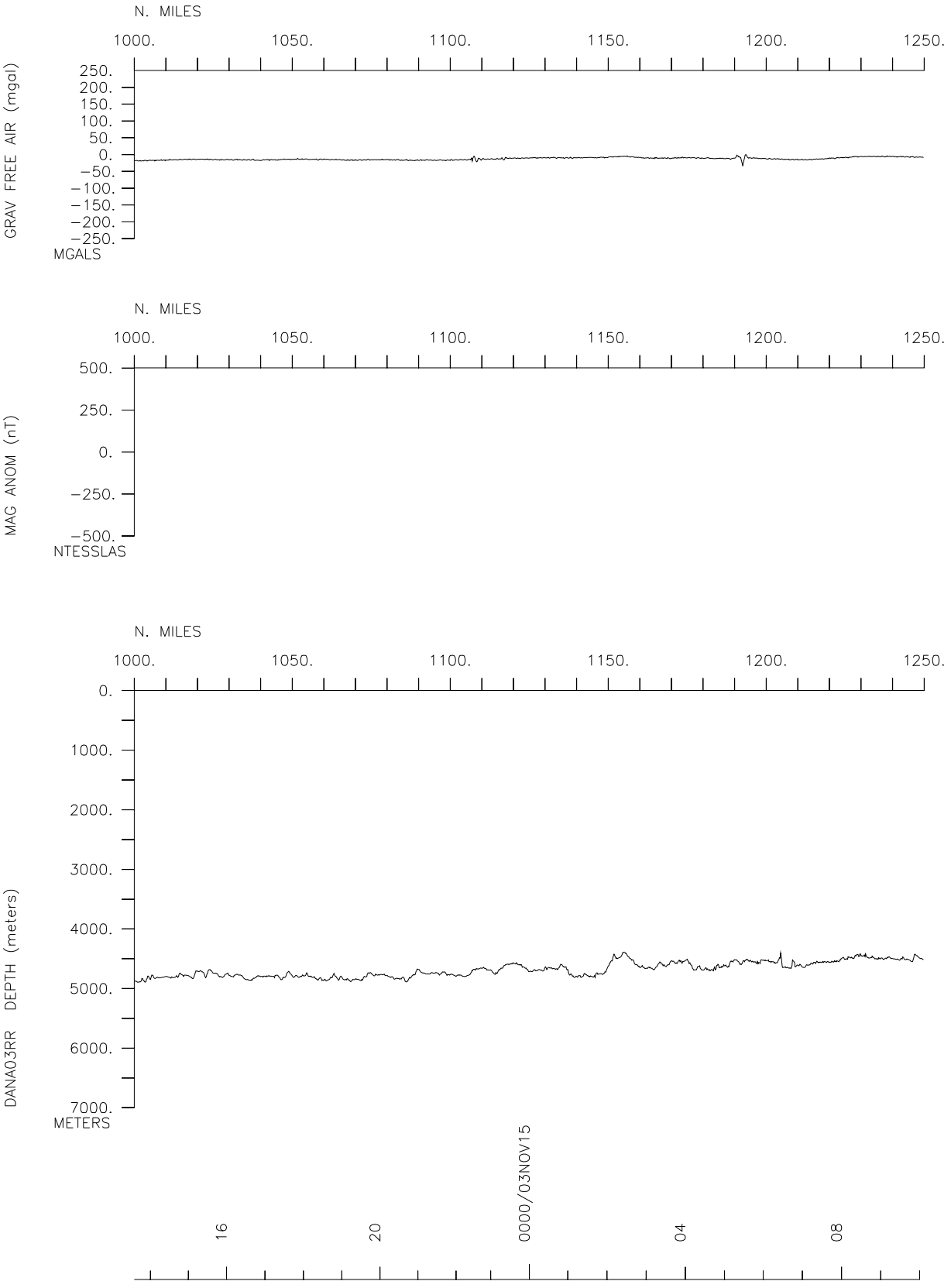
08
1200/03NOV14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MGALS
N. MILES
1000.
1050.
1100.
1150.
1200.
1250.
MAG ANOM (nT)
500.
250.
0.
−250.
−500.
NTESSLAS
N. MILES
1000.
1050.
1100.
1150.
1200.
1250.
DANA03RR DEPTH (meters)
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3000.
4000.
5000.
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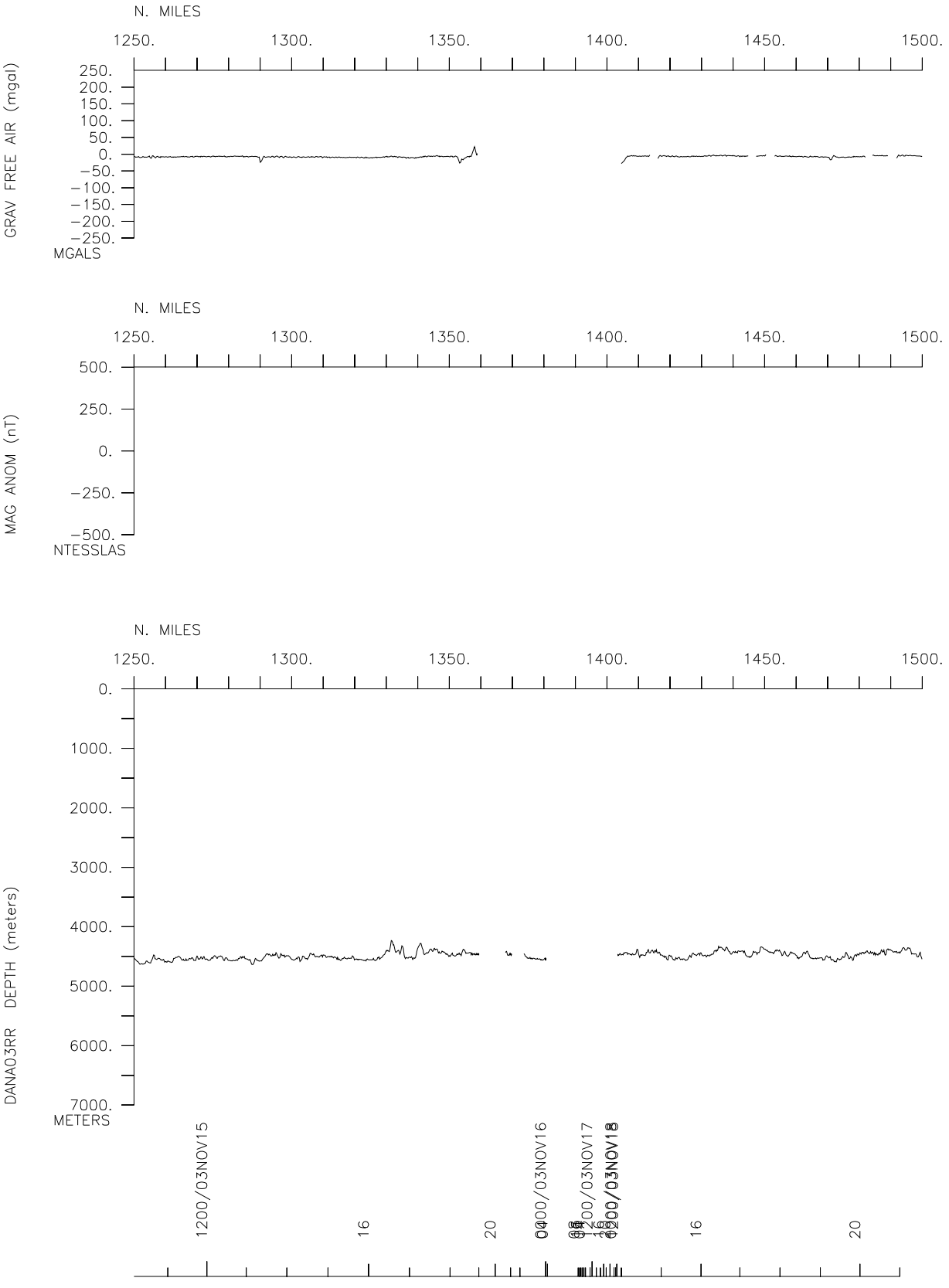
METERS
16
20
0000/03NOV15
04
08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1450.
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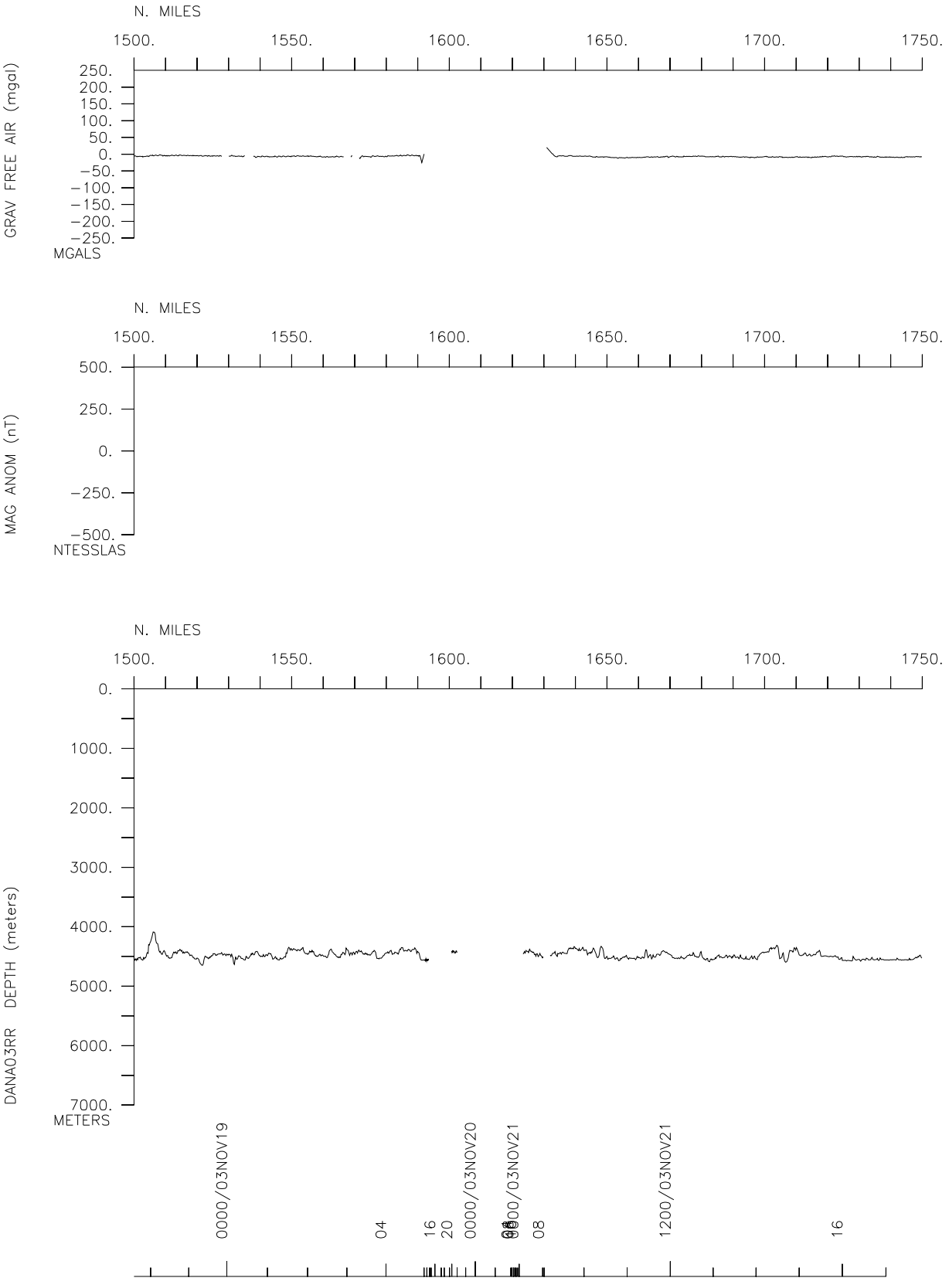
100.
50.
0.
−50.
−100.
−150.
−200.
−250.
MGALS
N. MILES
MAG ANOM (nT)
500.
250.
0.
−250.
−500.
NTESSLAS
N. MILES
DANA03RR DEPTH (meters)
0.
1000.
2000.
3000.
4000.
5000.
6000.
7000.
METERS
1200/03NOV15
16
20
0400/03NOV16
1200/03NOV17
16
20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MGALS
N. MILES
MAG ANOM (nT)
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250.
0.
−250.
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NTESSLAS
N. MILES
DANA03RR DEPTH (meters)
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1000.
2000.
3000.
4000.
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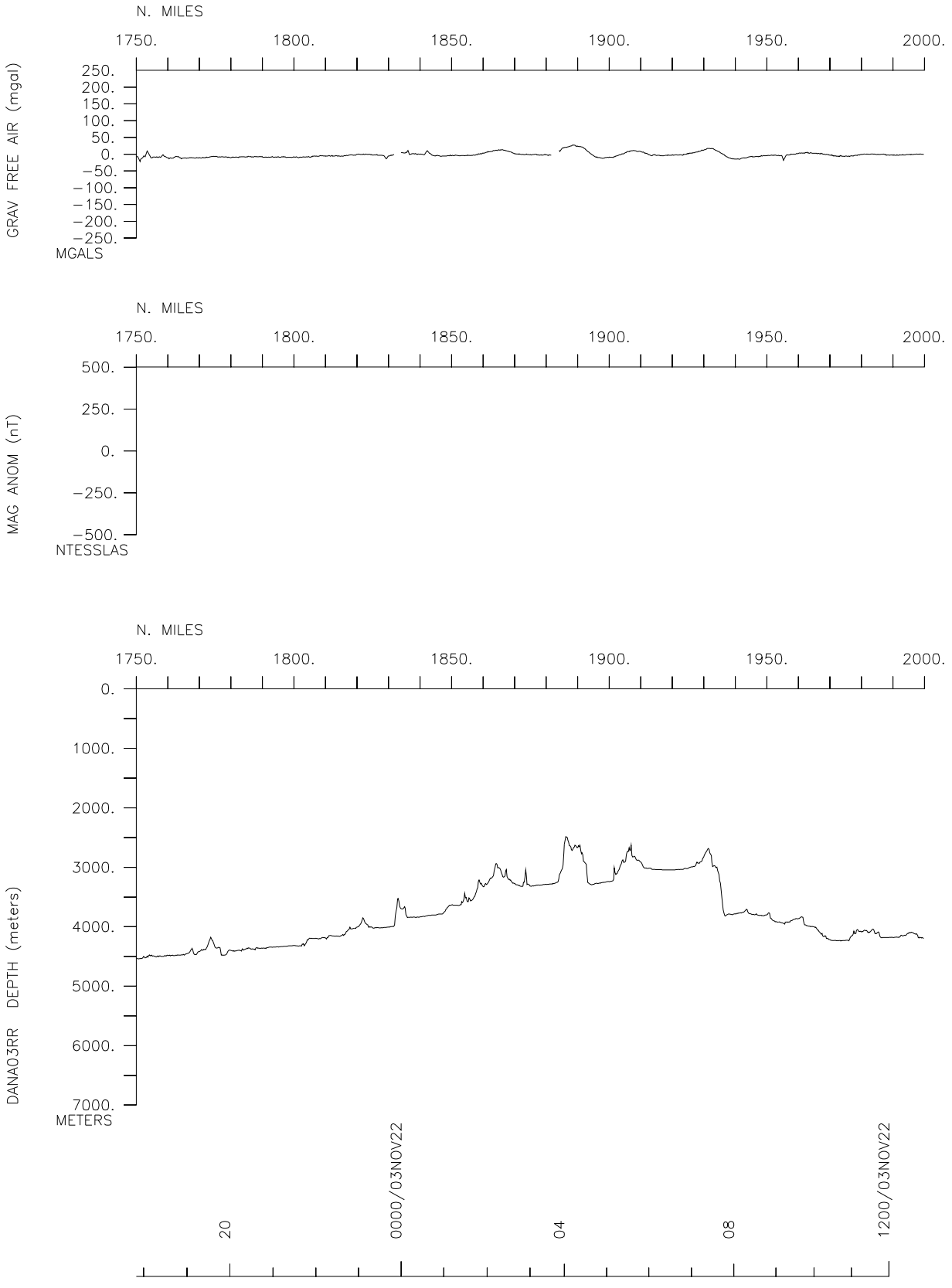
7000.
METERS
0000/03NOV19
04
16
20
0000/03NOV20
08
1200/03NOV21
16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−100.
−150.
−200.
−250.
MGALS
N. MILES
1750.
1800.
1850.
1900.
1950.
2000.
MAG ANOM (nT)
500.
250.
0.
−250.
−500.
NTESSLAS
N. MILES
1750.
1800.
1850.
1900.
1950.
2000.
DANA03RR DEPTH (meters)
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4000.
5000.
6000.
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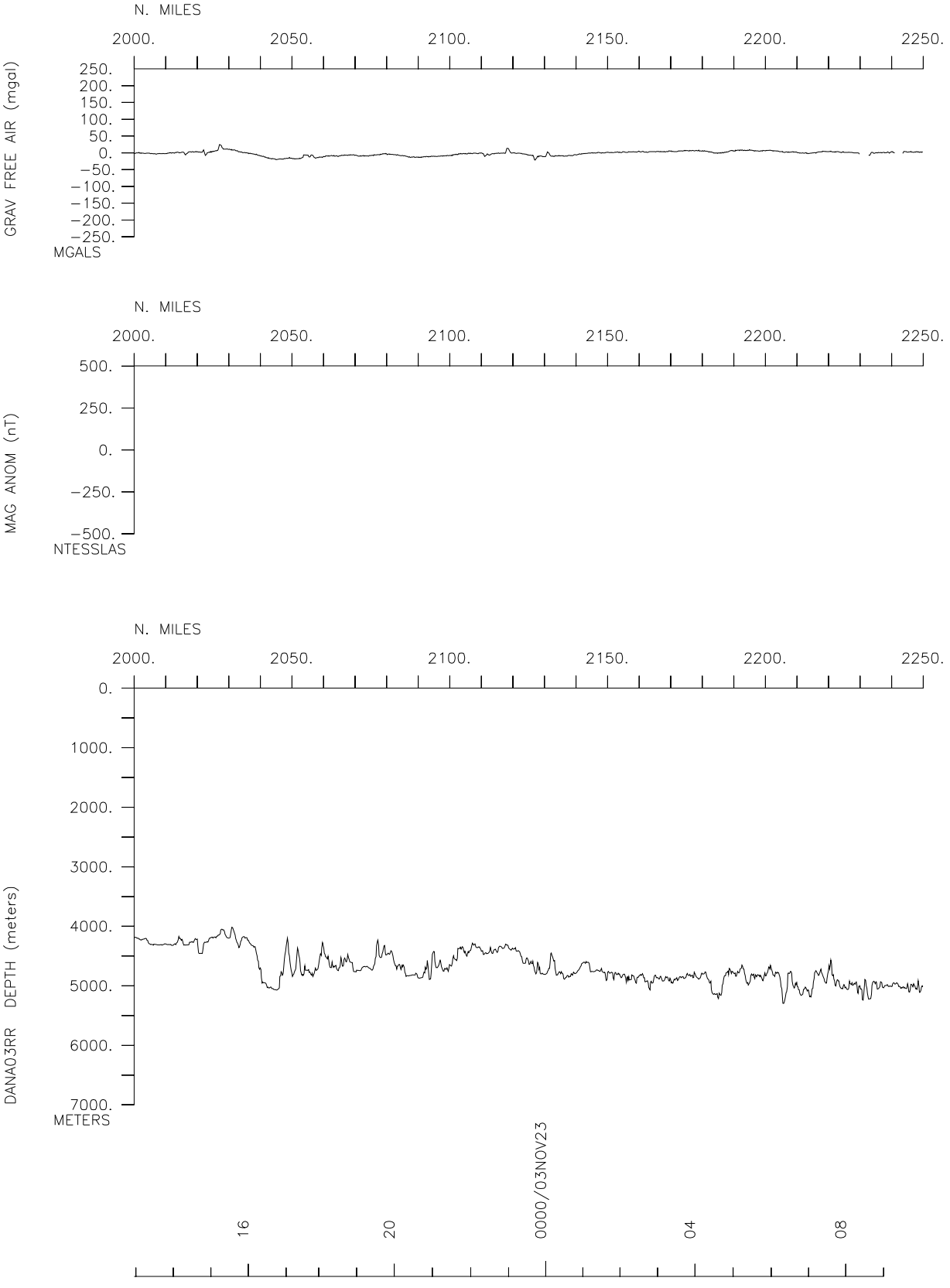
METERS
20
0000/03NOV22
04
08
1200/03NOV22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−150.
−200.
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MGALS
N. MILES
2000.
2050.
2100.
2150.
2200.
2250.
MAG ANOM (nT)
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250.
0.
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NTESSLAS
N. MILES
2000.
2050.
2100.
2150.
2200.
2250.
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4000.
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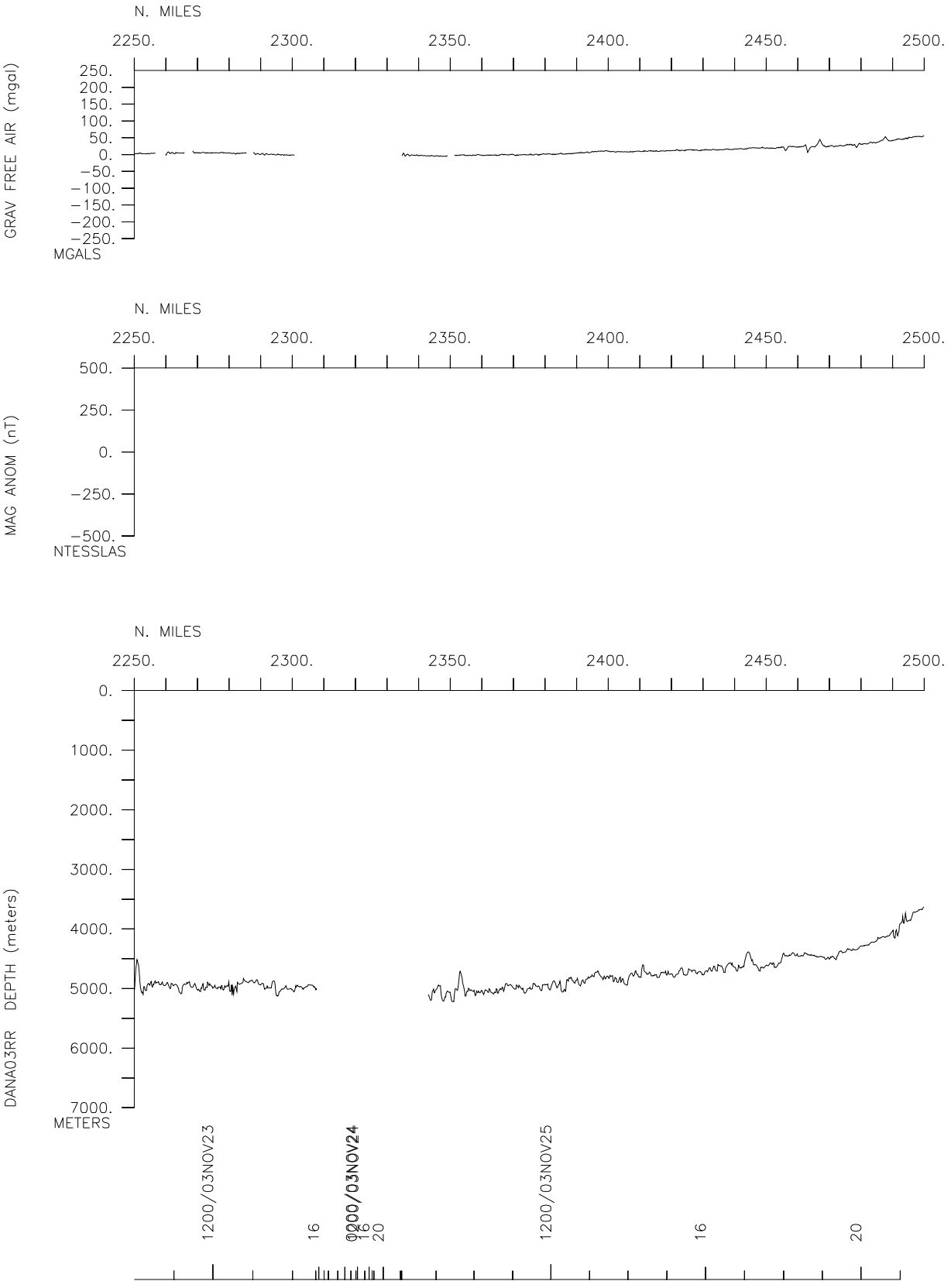
METERS
16
20
0000/03NOV23
04
08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200.
150.
100.
50.
0.
−50.
−100.
−150.
−200.
−250.
MGALS
N. MILES
2250.
2300.
2350.
2400.
2450.
2500.
MAG ANOM (nT)
500.
250.
0.
−250.
−500.
NTESSLAS
N. MILES
2250.
2300.
2350.
2400.
2450.
2500.
DANA03RR DEPTH (meters)
0.
1000.
2000.
3000.
4000.
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METERS
1200/03NOV23
16
0000/03NOV24
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20
1200/03NOV25
16
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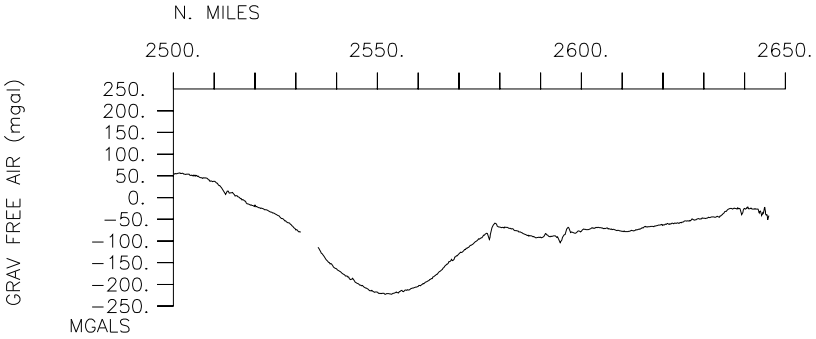
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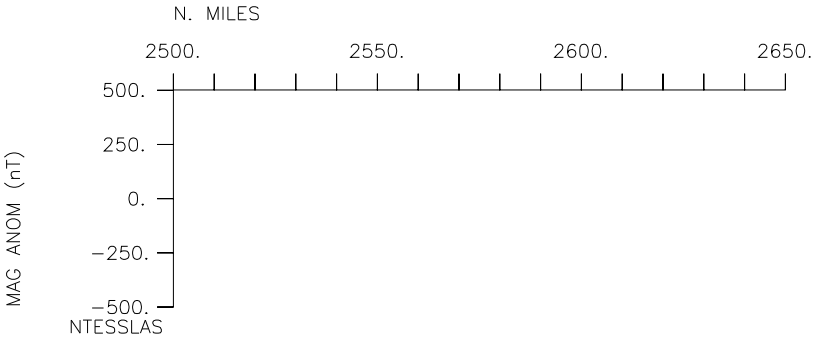
MGALS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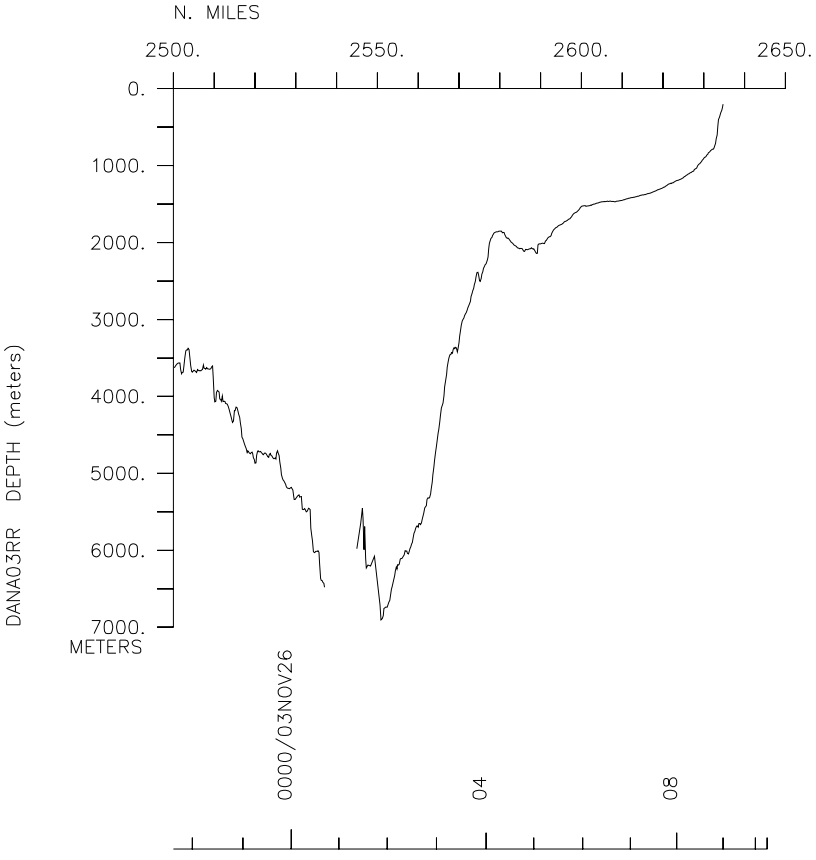
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2600.
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2000.
3000.
4000.
5000.
6000.
7000.
METERS
0000/03NOV26
04
08

```
#*** Ports ***

0306 111103  0 LGPT B Manta, Ecuador             0-55.83S  80-43.19W g DANA03RR
1123 251103  0 LGPT E Arica, Chile              20-00.00S  74-22.91W g DANA03RR


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

PECS WHOI Weller,Dr.R.         Chief Scientist    Woods Hole           DANA03RR
PESP WHOI Lord,J.              Mooring Engineer   Woods Hole           DANA03RR
PESP WHOI Hutto,L.             Research Assoc.    Woods Hole           DANA03RR
PESP WHOI Smith,J.             Calibration Tech.  Woods Hole           DANA03RR
PESP WHOI Ryder,J.             Mooring Tech.      Woods Hole           DANA03RR
PESP WHOI Galbraith,N.         Programmer         Woods Hole           DANA03RR
PERT STS  Comer,R.L.           Resident Tech.     Scripps Institution  DANA03RR
PECT STS  Allen,S.             Computer Tech.     Scripps Institution  DANA03RR
PEET STS  Palomares,R.         Electronic Tech.   Scripps Institution  DANA03RR
PEXN EDR  Moran,R.             Observer           INOCAR, Ecuador      DANA03RR
PEXN EDR  Zambrano,L.          Observer           INOCAR, Ecuador      DANA03RR
PEXN EDR  Pinto,Lt. E.         Mooring Rep.       Navy, Ecuador        DANA03RR
PEXN CHL  Andueza,J.           Oceanographer      SHOA, Chile          DANA03RR
PEXN CHL  Belmar,J.            Oceanographer      SHOA, Chile          DANA03RR
PEXN CHL  Vera,A.              Observer           SHOA, Chile          DANA03RR
PEXN CHL  Zelaya,M.            Oceanographer      SHOA, Chile          DANA03RR
PESP NOAA Strick,J.            Mooring Tech.      NOAA, PMEL           DANA03RR
PESP NOAA Stalin,S.            Engineer           NOAA, PMEL           DANA03RR
PEET NOAA Michel,K.            Electronic Tech.   SAIC/NDBC            DANA03RR
PESP NOAA Fairall,Dr.C.        Scientist          NOAA, ETL            DANA03RR
PESP CDO  Zuidema,Dr.P.        Scientist          U. of Colorado       DANA03RR
PESP CDO  Kollias,Dr.P.        Scientist          U. of Colorado       DANA03RR
PEET NOAA Pezoa,S.             Electronic Tech.   NOAA, ETL            DANA03RR
PESP NOAA Brice,D.             Educator           NOAA                 DANA03RR
PESP NOAA Kermond,J.           Photographer       NOAA, OGP            DANA03RR
PEXN CHL  Zamorano,V.          Educator           Arica, Chile         DANA03RR
PEST TAMU Tomlinson,J.         Grad. Student      Texas A & M Univ.    DANA03RR


#*** 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 ***

0306 111103  0 LBSC B Science log book     WHOI  0-55.83S  80-43.19W g DANA03RR
1123 251103  0 LBSC E Science log book     WHOI 20-00.00S  74-22.91W g DANA03RR


#*** MultiBeam Data (SIMRAD) ***

0305 111103  0 MBSI B EM120 multibeam      GDC   0-55.84S  80-43.21W g DANA03RR
0900 251103  0 MBSI E EN120 multibeam      GDC  19-55.81S  74-49.50W g DANA03RR


#*** Echo Sounder Records ***    (12 kHz)
```

```
0310 111103  0 DPRT B Knudsen 12 Khz       GDC   0-55.79S  80-42.99W g DANA03RR
0900 251103  0 DPRT E Knudsen mapping      GDC  19-55.81S  74-49.50W g DANA03RR


#*** Digital Gravity ***

0252 111103  0 GVDD B Digital Gravity      GDC   0-55.84S  80-43.21W g DANA03RR
1123 251103  0 GVDD E Digital Gravity      GDC  20-00.00S  74-22.91W g DANA03RR
```

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


#*** Integrated Meteorological Acquisition System ***

0252 111103  0 IMET B Weather measuremnts  GDC   0-55.84S  80-43.21W g DANA03RR
1123 251103  0 IMET E Weather measuremnts  GDC  20-00.00S  74-22.91W g DANA03RR


#*** Acoustic Doppler Current Profiler ***

0252 111103  0 ADCP B Pinkle 140kHz        MPL   0-55.84S  80-43.21W g DANA03RR
0900 251103  0 ADCP E Pinkle 140kHz        MPL  19-55.81S  74-49.50W g DANA03RR

0252 111103  0 ADCP B Pinkle 50kHz         MPL   0-55.84S  80-43.21W g DANA03RR
0900 251103  0 ADCP E Pinkle 50kHz         MPL  19-55.81S  74-49.50W g DANA03RR


#*** Current Meters ***

2058 111103  0 CMRT   ARGO SOLO float 239  WHOI  1-59.48S  84-00.57W g DANA03RR
1203 121103  0 CMRT   ARGO SOLO float 252  WHOI  4-00.04S  84-55.01W g DANA03RR
0710 131103  0 CMRT   ARGO SOLO float 241  WHOI  7-59.69S  84-54.99W g DANA03RR
0239 141103  0 CMRT   ARGO SOLO float 249  WHOI 12-00.03S  84-55.00W g DANA03RR
2227 141103  0 CMRT   ARGO SOLO float 240  WHOI 16-00.05S  84-54.99W g DANA03RR
2226 151103  0 CMRT   ARGO SOLO float 247  WHOI 20-10.83S  85-08.27W g DANA03RR
0337 221103  0 CMRT   ARGO SOLO float 250  WHOI 20-00.01S  81-00.01W g DANA03RR
1730 221103  0 CMRT   ARGO SOLO float 236  WHOI 19-59.99S  77-59.97W g DANA03RR
2003 231103  0 CMRT   ARGO SOLO float 248  WHOI 19-41.77S  74-50.19W g DANA03RR

1655 131103  0 CMDR   SVP current drifter  NOAA  9-59.97S  84-55.00W g DANA03RR
1721 131103  0 CMDR   SVP current drifter  NOAA 10-05.30S  84-55.00W g DANA03RR
1748 131103  0 CMDR   SVP current drifter  NOAA 10-10.81S  84-55.00W g DANA03RR
1815 131103  0 CMDR   SVP current drifter  NOAA 10-16.27S  84-55.00W g DANA03RR
1841 131103  0 CMDR   SVP current drifter  NOAA 10-21.57S  84-55.00W g DANA03RR
1913 131103  0 CMDR   SVP current drifter  NOAA 10-28.05S  84-55.00W g DANA03RR
1935 131103  0 CMDR   SVP current drifter  NOAA 10-32.47S  84-55.00W g DANA03RR
2002 131103  0 CMDR   SVP current drifter  NOAA 10-37.86S  84-55.00W g DANA03RR
2030 131103  0 CMDR   SVP current drifter  NOAA 10-43.58S  84-55.00W g DANA03RR
2054 131103  0 CMDR   SVP current drifter  NOAA 10-48.53S  84-55.00W g DANA03RR
1726 141103  0 CMDR   SVP current drifter  NOAA 14-59.93S  84-55.00W g DANA03RR
1753 141103  0 CMDR   SVP current drifter  NOAA 15-05.41S  84-55.00W g DANA03RR
1847 141103  0 CMDR   SVP current drifter  NOAA 15-16.34S  84-55.00W g DANA03RR
2007 141103  0 CMDR   SVP current drifter  NOAA 15-32.46S  84-55.00W g DANA03RR
2154 141103  0 CMDR   SVP current drifter  NOAA 15-53.90S  84-55.00W g DANA03RR
0323 151103  0 CMDR   SVP current drifter  NOAA 17-00.08S  84-55.00W g DANA03RR
0348 151103  0 CMDR   SVP current drifter  NOAA 17-05.24S  84-55.00W g DANA03RR
0415 151103  0 CMDR   SVP current drifter  NOAA 17-10.78S  84-55.00W g DANA03RR
0441 151103  0 CMDR   SVP current drifter  NOAA 17-16.15S  84-55.00W g DANA03RR
0509 151103  0 CMDR   SVP current drifter  NOAA 17-21.94S  84-55.01W g DANA03RR
0529 151103  0 CMDR   SVP current drifter  NOAA 17-26.04S  84-55.00W g DANA03RR
0600 151103  0 CMDR   SVP current drifter  NOAA 17-32.35S  84-55.00W g DANA03RR
0626 151103  0 CMDR   SVP current drifter  NOAA 17-37.68S  84-55.00W g DANA03RR
0652 151103  0 CMDR   SVP current drifter  NOAA 17-43.08S  84-55.00W g DANA03RR
0719 151103  0 CMDR   SVP current drifter  NOAA 17-48.68S  84-55.00W g DANA03RR
1457 211103  0 CMDR   SVP current drifter  NOAA 20-00.00S  84-00.01W g DANA03RR
1519 211103  0 CMDR   SVP current drifter  NOAA 20-00.00S  83-54.67W g DANA03RR
1604 211103  0 CMDR   SVP current drifter  NOAA 20-00.00S  83-43.75W g DANA03RR
1710 211103  0 CMDR   SVP current drifter  NOAA 20-00.00S  83-27.52W g DANA03RR
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#GMT TIME	DDMMYY DATE	TZ	SAMP CODE	B E	SAMPLE IDENTIFIER	DISP CODE	LATITUDE	LONGITUDE	p c	CRUISE LEG-SHIP
1843	211103	0	CMDR		SVP current drifter	NOAA	20-00.00S	83-06.03W	g	DANA03RR
0756	221103	0	CMDR		SVP current drifter	NOAA	20-00.00S	80-00.20W	g	DANA03RR
0820	221103	0	CMDR		SVP current drifter	NOAA	20-00.00S	79-54.51W	g	DANA03RR
0842	221103	0	CMDR		SVP current drifter	NOAA	20-00.00S	79-49.28W	g	DANA03RR
0905	221103	0	CMDR		SVP current drifter	NOAA	20-00.00S	79-43.81W	g	DANA03RR
0930	221103	0	CMDR		SVP current drifter	NOAA	20-00.00S	79-38.46W	g	DANA03RR
0956	221103	0	CMDR		SVP current drifter	NOAA	20-00.00S	79-33.00W	g	DANA03RR
1021	221103	0	CMDR		SVP current drifter	NOAA	20-00.00S	79-27.77W	g	DANA03RR
1047	221103	0	CMDR		SVP current drifter	NOAA	20-00.00S	79-22.28W	g	DANA03RR
1112	221103	0	CMDR		SVP current drifter	NOAA	20-00.00S	79-17.00W	g	DANA03RR
1138	221103	0	CMDR		SVP current drifter	NOAA	20-00.00S	79-11.52W	g	DANA03RR
0314	231103	0	CMDR		SVP current drifter	NOAA	19-48.00S	75-59.94W	g	DANA03RR
0340	231103	0	CMDR		SVP current drifter	NOAA	19-48.00S	75-54.52W	g	DANA03RR
0430	231103	0	CMDR		SVP current drifter	NOAA	19-48.00S	75-43.87W	g	DANA03RR
0546	231103	0	CMDR		SVP current drifter	NOAA	19-48.00S	75-27.61W	g	DANA03RR
0729	231103	0	CMDR		SVP current drifter	NOAA	19-48.00S	75-05.99W	g	DANA03RR
#*** Conductivity, Temperature, Density ***										
2002	151103	0	TDSC		CTD self recd.1500M	WHOI	20-08.36S	85-12.76W	g	DANA03RR
0152	161103	0	TDSC		CTD self recd.4000M	WHOI	20-03.76S	85-15.55W	g	DANA03RR
2345	161103	0	TDSC		CTD self recd.4000M	WHOI	20-10.80S	85-07.83W	g	DANA03RR
0508	211103	0	TDSC		CTD self recd.4000M	WHOI	19-47.54S	85-24.58W	g	DANA03RR
0659	211103	0	TDSC		CTD self recd.4000M	WHOI	19-47.56S	85-24.42W	g	DANA03RR
#*** Buoys***										
1855	111103	0	BUAB	B	Buoy mooring	EDR	1-59.56S	84-00.66W	g	DANA03RR
2032	111103	0	BUAB	E	recovery, Ecuador	EDR	1-59.82S	84-00.43W	g	DANA03RR
1232	171103	0	BUAB	B	STRATUS 3 moored	WHOI	20-10.13S	85-06.36W	g	DANA03RR
2127	171103	0	BUAB	E	Buoy recovery	WHOI	20-11.68S	85-03.70W	g	DANA03RR
1233	191103	0	BUAB	B	STRATUS 4 moored	WHOI	19-42.70S	85-37.60W	g	DANA03RR
2031	191103	0	BUAB	E	Buoy launch	WHOI	19-45.95S	85-30.24W	g	DANA03RR
1919	231103	0	BUAB	B	Launch BPR-Chile	NOAA	19-40.14S	74-50.48W	g	DANA03RR
1714	241103	0	BUAB	B	Launch BPR-Chile	NOAA	19-40.11S	74-50.50W	g	DANA03RR
1510	231103	0	BUAB	B	Launch NOAA-Chile	NOAA	19-37.35S	74-53.25W	g	DANA03RR
1807	231103	0	BUAB	E	Tsunami Buoy	NOAA	19-40.33S	74-50.27W	g	DANA03RR
#*** Atmospheric Studies ***										
0130	121103	0	ASUA	B	Balloon upper air	NOAA	2-00.18S	84-43.19W	g	DANA03RR
1800	231103	0	ASUA	E	Balloon upper air	NOAA	19-40.21S	74-50.40W	g	DANA03RR
0252	111103	0	ASPR	B	Cloud moisture rad.	NOAA	0-55.84S	80-43.21W	g	DANA03RR
2200	241103	0	ASPR	E	Cloud moisture rad.	NOAA	19-45.01S	74-49.49W	g	DANA03RR
0252	111103	0	ASPR	B	Cloud height laser	NOAA	0-55.84S	80-43.21W	g	DANA03RR
2200	241103	0	ASPR	E	Cloud height laser	NOAA	19-45.01S	74-49.49W	g	DANA03RR

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

1244 111103  0 BTXP   MK12  #  2 Fast_Deep GDC   1-35.76S  82-48.25W g DANA03RR
1650 111103  0 BTXP   MK12  #  3 Fast_Deep GDC   1-54.86S  83-43.95W g DANA03RR
1508 121103  0 BTXP   MK12  #  4 Fast_Deep GDC   4-37.99S  84-55.00W g DANA03RR
1233 131103  0 BTXP   MK12  #  4       T-5 GDC   9-05.34S  84-55.00W g DANA03RR
1333 141103  0 BTXP   MK12  #  5       T-5 GDC  14-12.87S  84-55.00W g DANA03RR
1422 181103  0 BTXP   MK12  #  6       T-5 GDC  20-11.81S  85-09.76W g DANA03RR
1441 181103  0 BTXP   MK12  #  7       T-5 GDC  20-11.97S  85-14.07W g DANA03RR
1729 211103  0 BTXP   MK12  #  8       T-5 GDC  20-00.00S  83-22.87W g DANA03RR
1418 221103  0 BTXP   MK12  #  9       T-5 GDC  19-59.90S  78-37.93W g DANA03RR
1124 231103  0 BTXP   MK12  # 11       T-5 GDC  19-26.01S  75-09.97W g DANA03RR
2323 251103  0 BTXP   MK12  # 12       T-5 GDC  19-53.09S  71-52.73W g DANA03RR

#                   End Sample Index                                  DANA03RR
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