

*Report and Index of  
Underway Marine geophysical Data*

**Centennial**

**Leg 04**

**(CNTL04RR)**

R/V Roger Revelle

(Issued May 2003)

**Ports:**

San Diego, CA (15-Jan-03)

to

San Diego, CA (11-Feb-03)

**Chief Scientist:** Pat Wheeler  
Oregon State University  
pwheeler@coas.oregonstate.edu

Computer Tech - Barry Quiel  
Resident Tech - Bob Wilson

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#300*

## **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. (Sections of track with seismic reflection data have a wide black line along the bottom of the profile.)

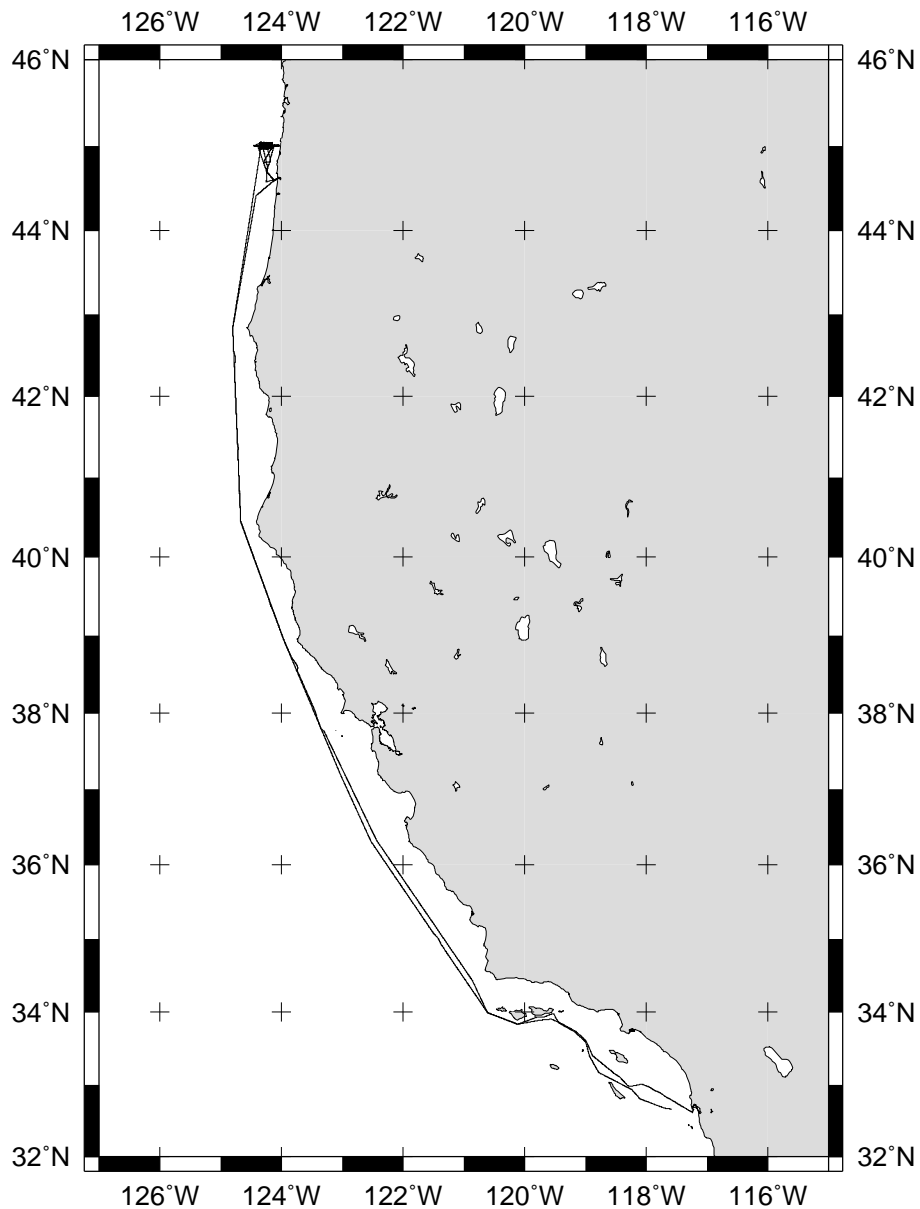
**Sample Index** - list of begin/end times and positions of all underway records as well as samples and measurements from other disciplines collected on the leg.

### **Note:**

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](mailto:spmiller@ucsd.edu); or his website: <http://SIOExplorer@ucsd.edu>

Rev 05/2002



**CENTENNIAL EXPEDITION LEG 4 (CNTL04RR)**

=====

**CHIEF SCIENTIST: Patricia Wheeler, Oregon State University**

**PORTS: San Diego - San Diego, California**

**DATES: 15 January - 11 February 2003**

**SHIP: R/V Revelle**

**TOTAL MILEAGE OF UNDERWAY DATA COLLECTED**

**Cruise-2991 miles**

**Magnetics-None collected**

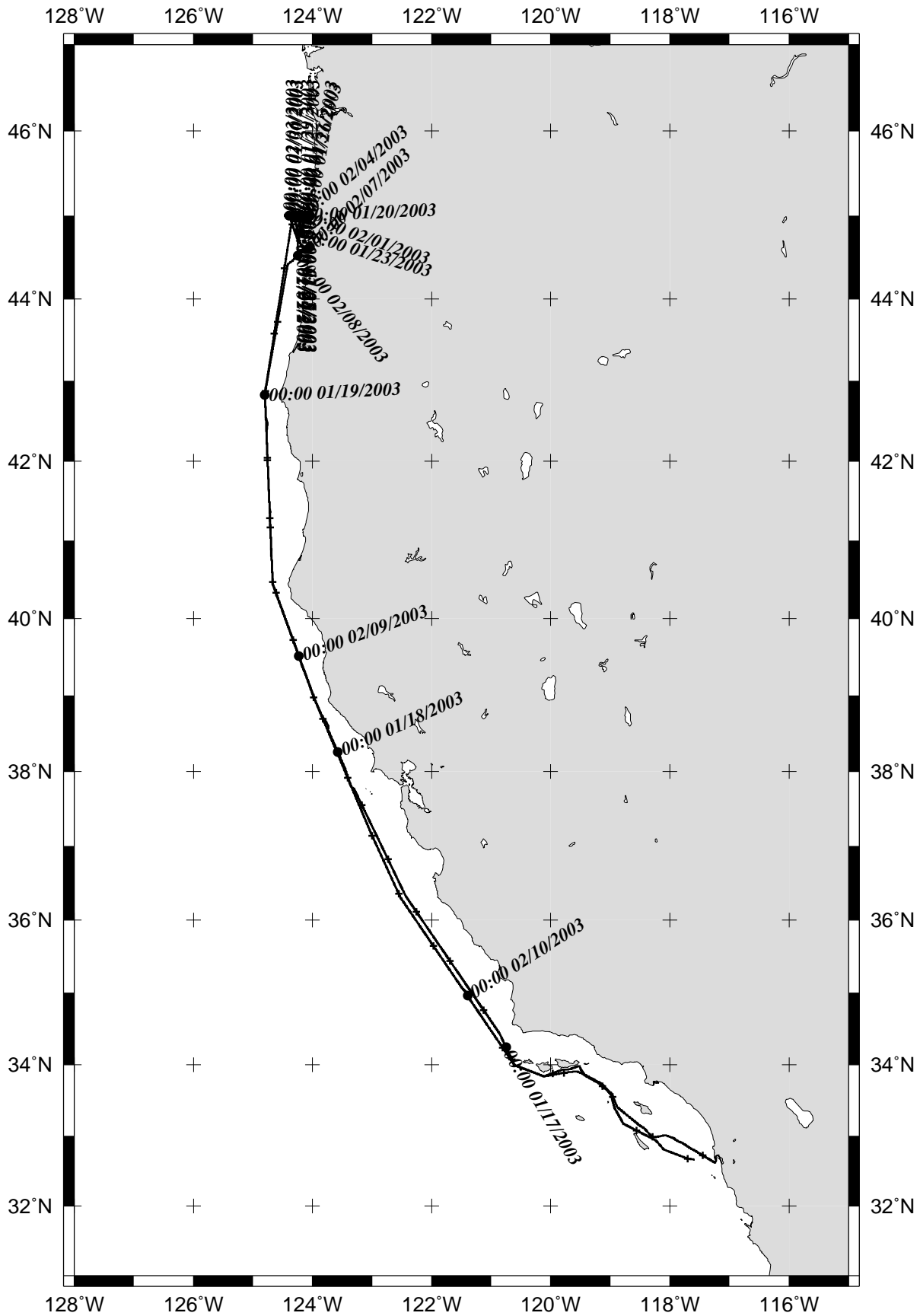
**Bathymetry-2161 miles**

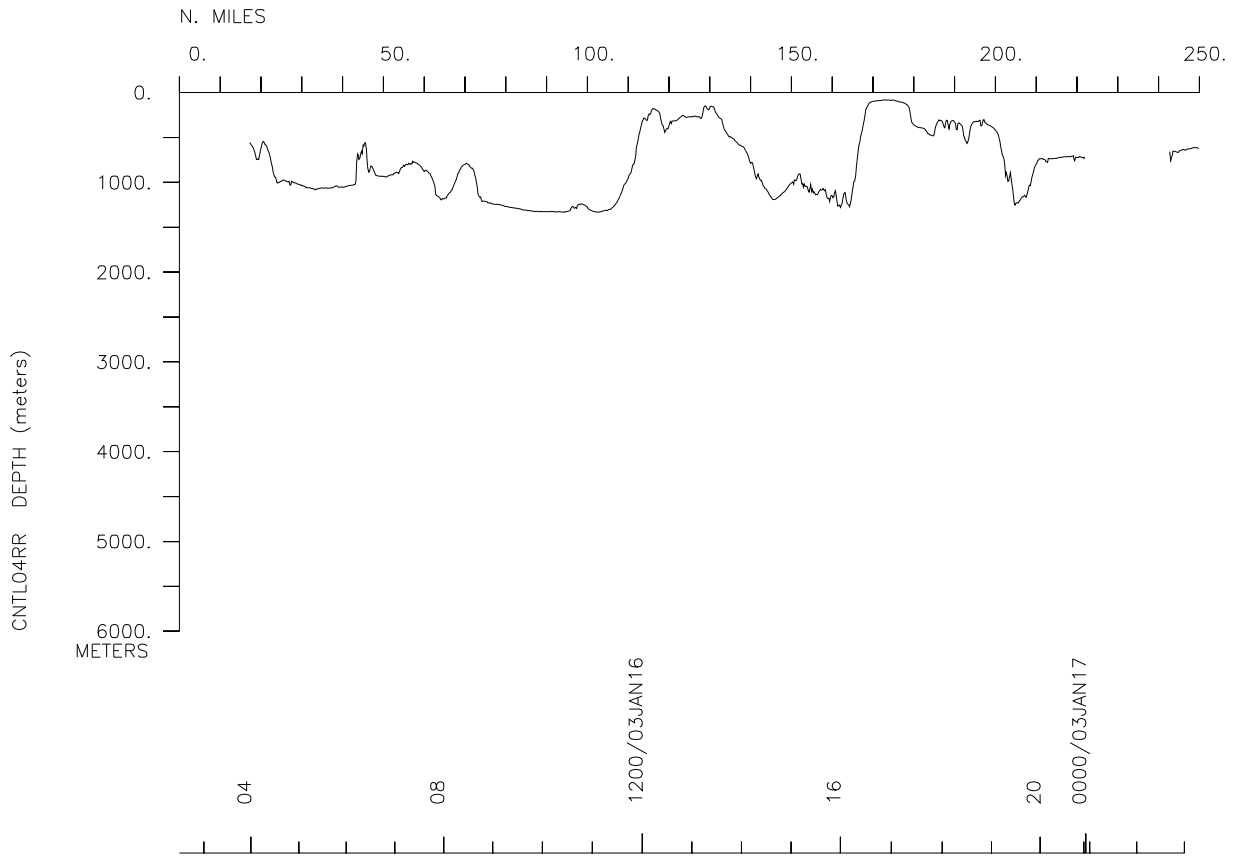
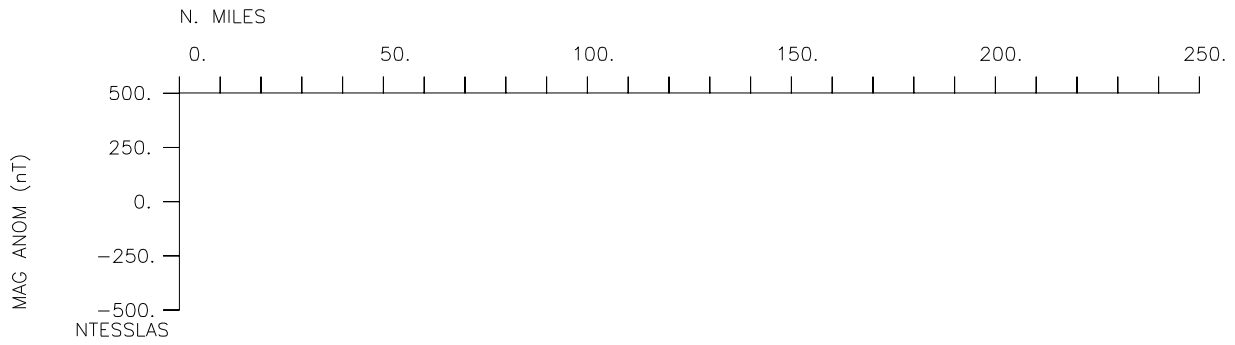
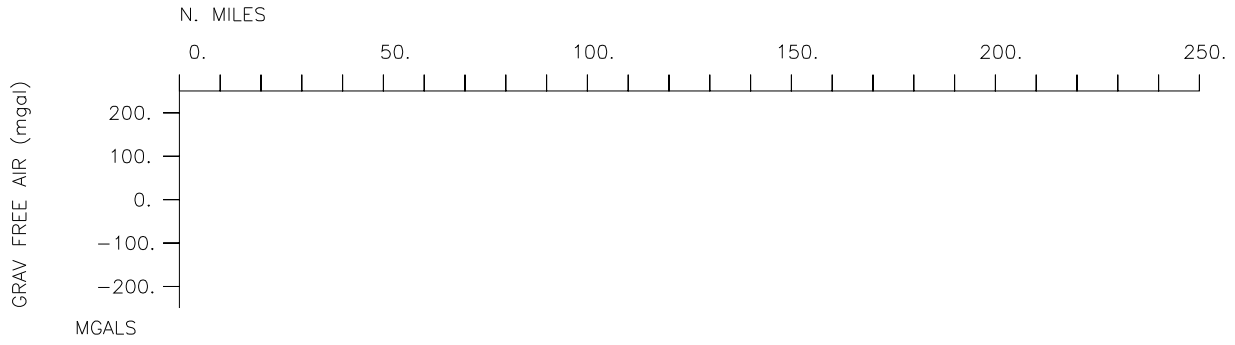
**Seismic Reflection-collected**

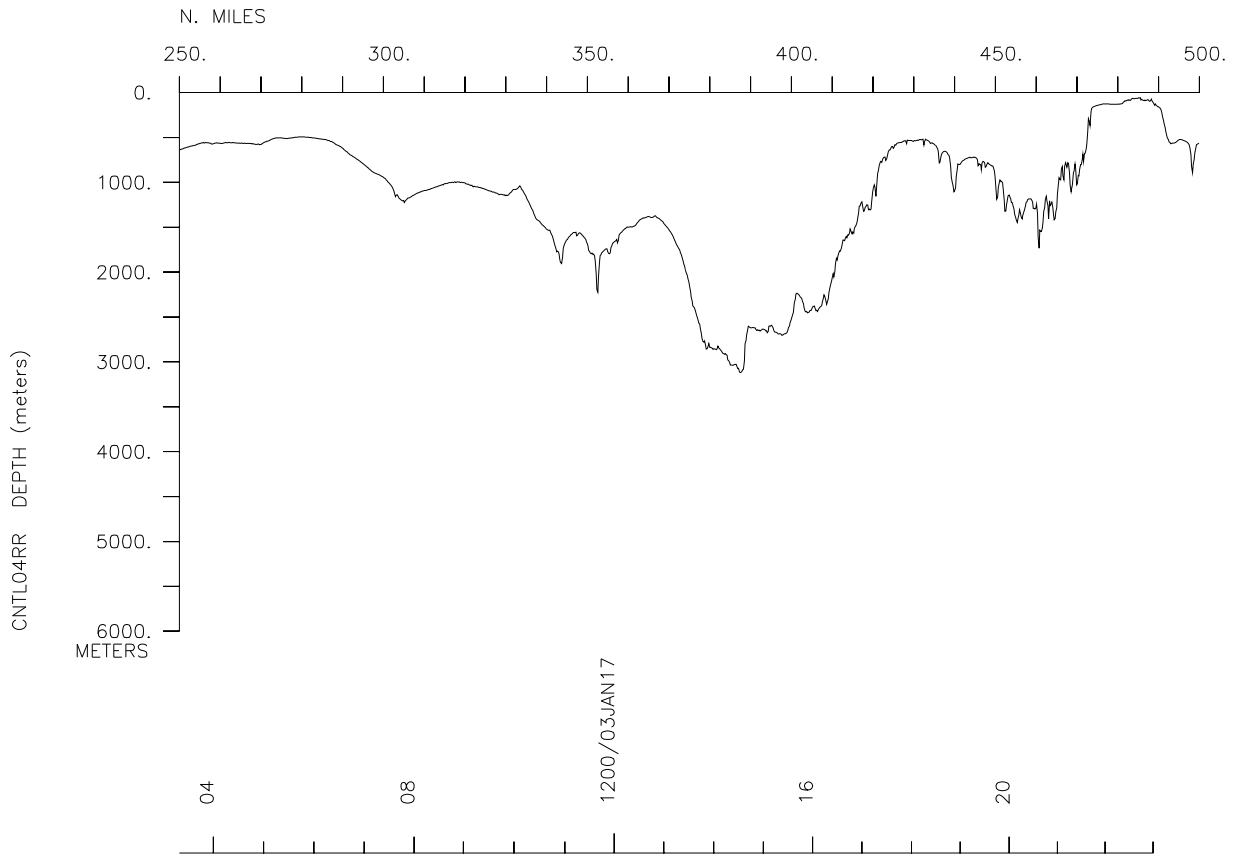
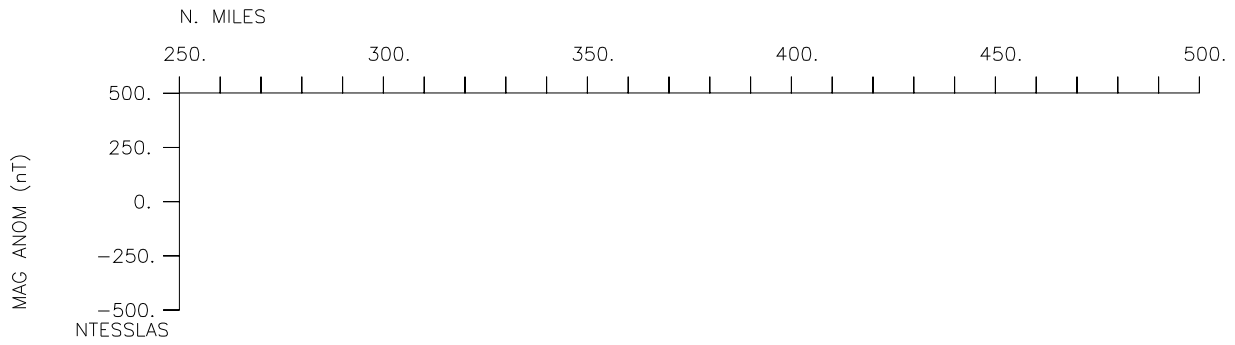
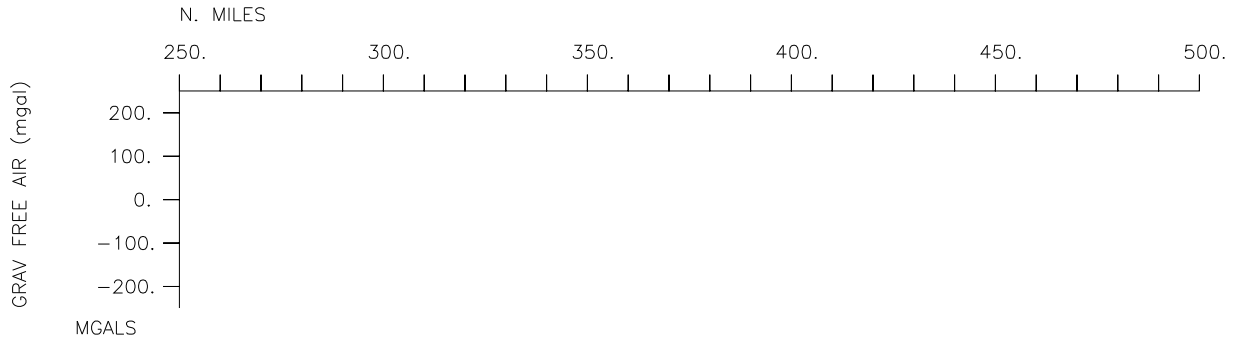
**Multibeam-2161 miles**

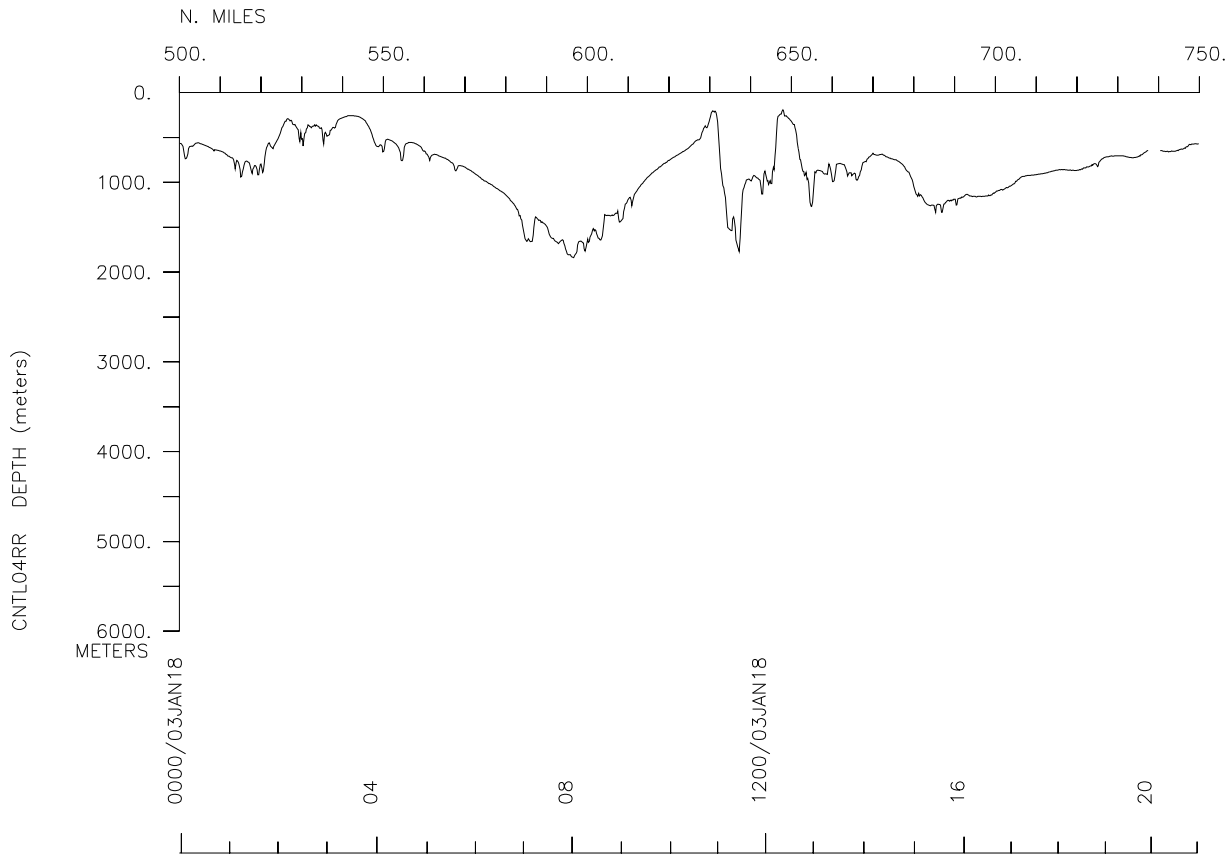
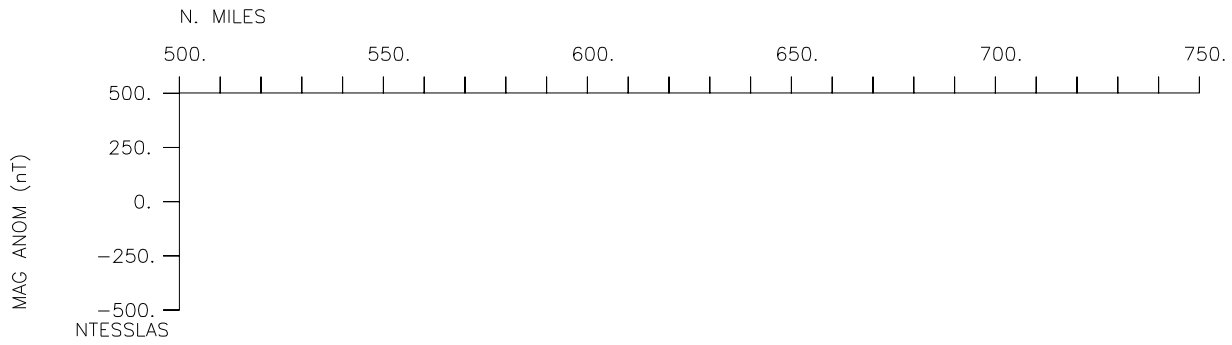
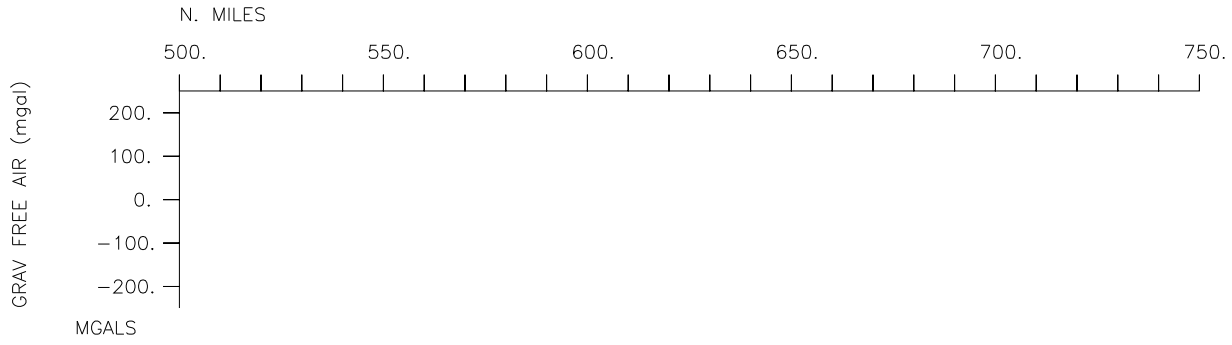
**Gravity- collected but not processed**

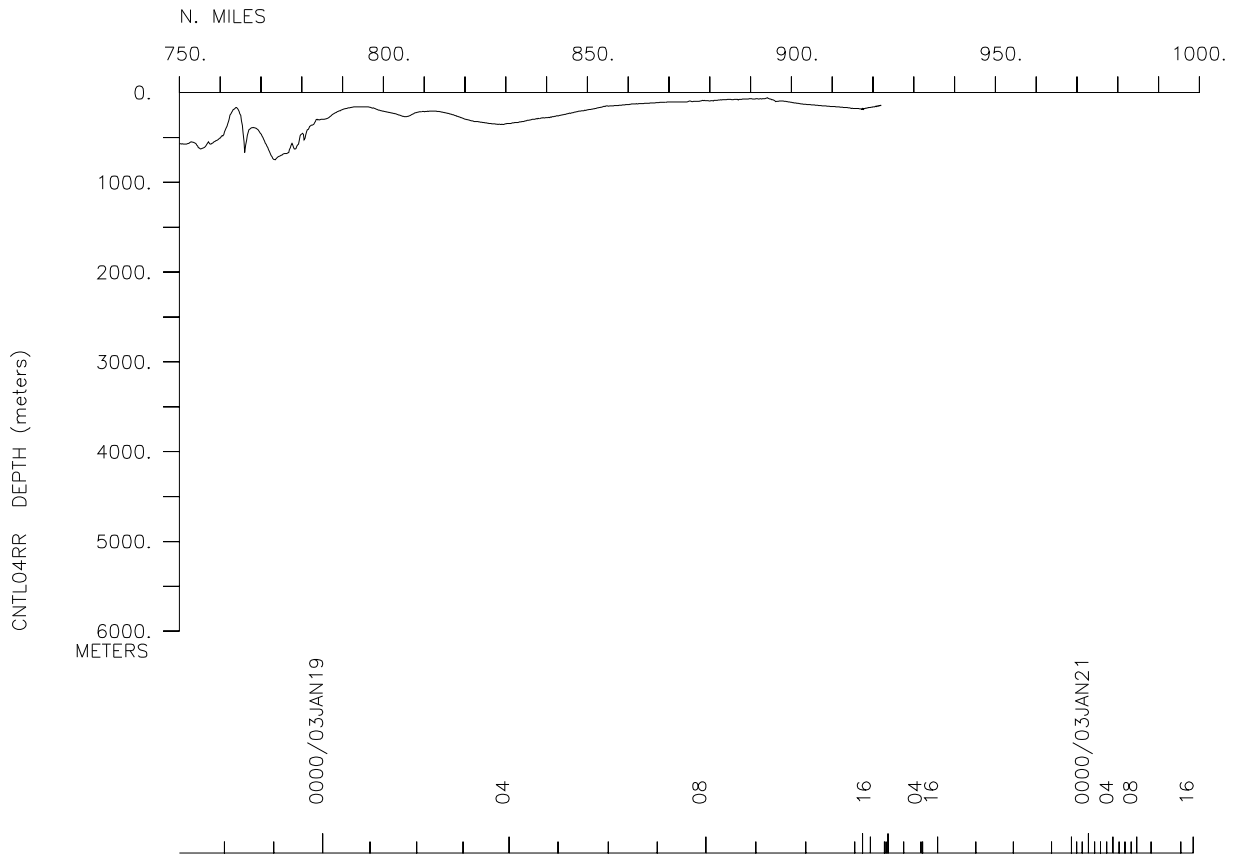
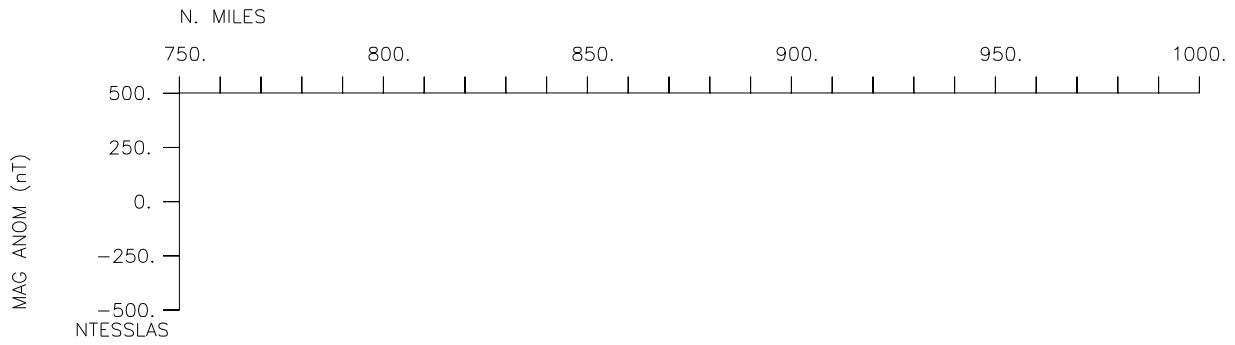
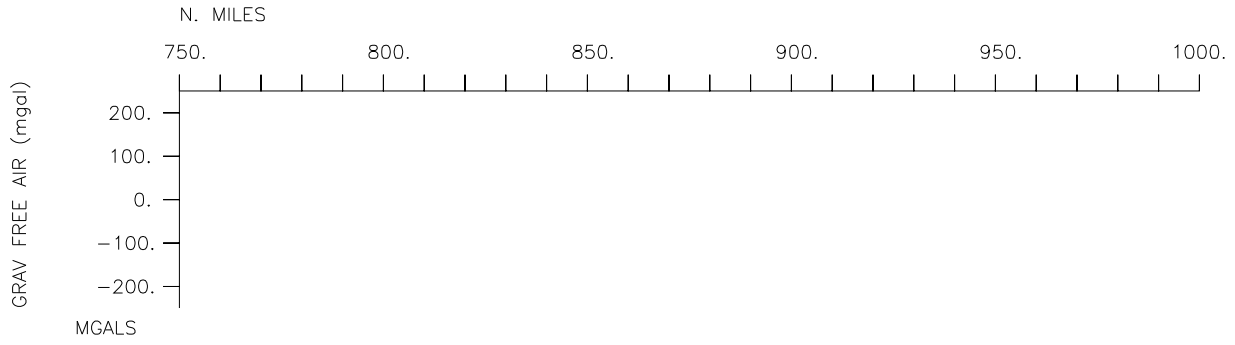
# CNTL04RR



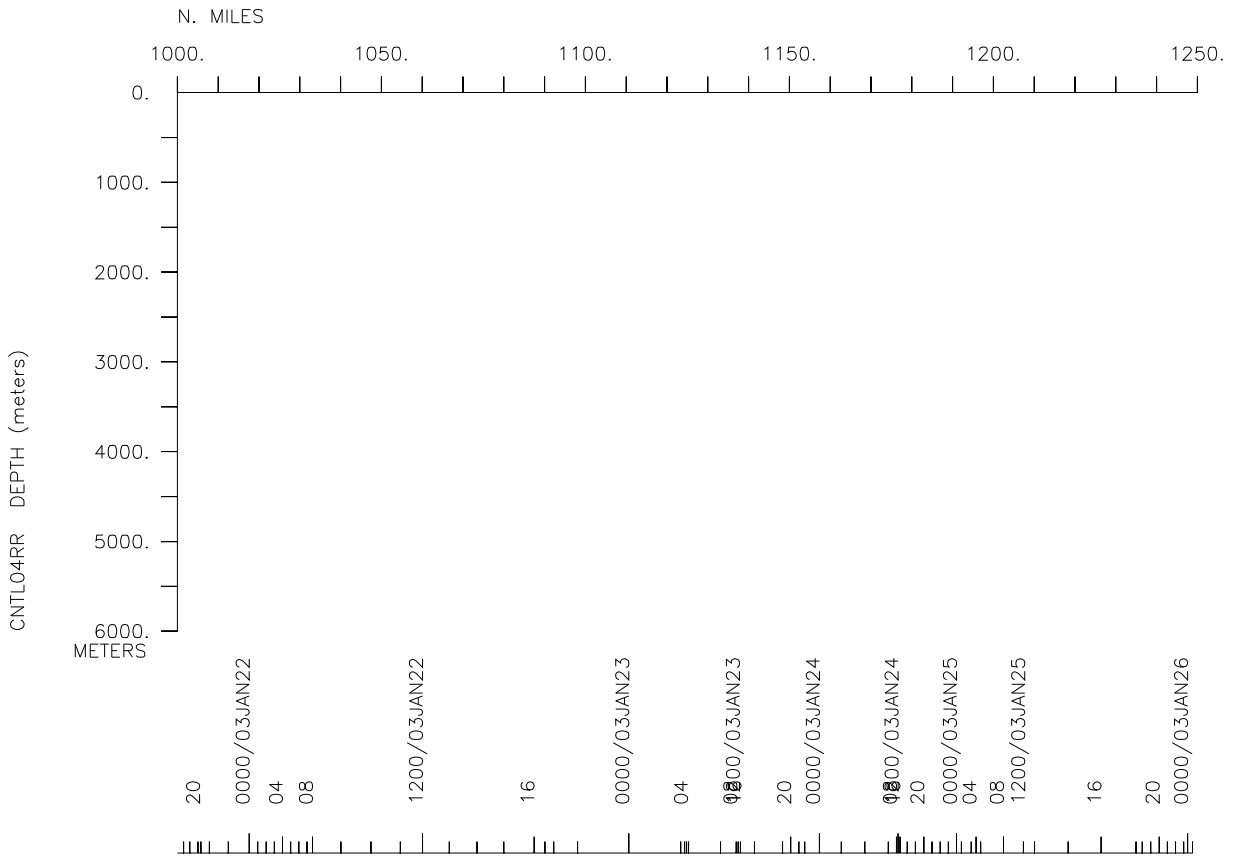
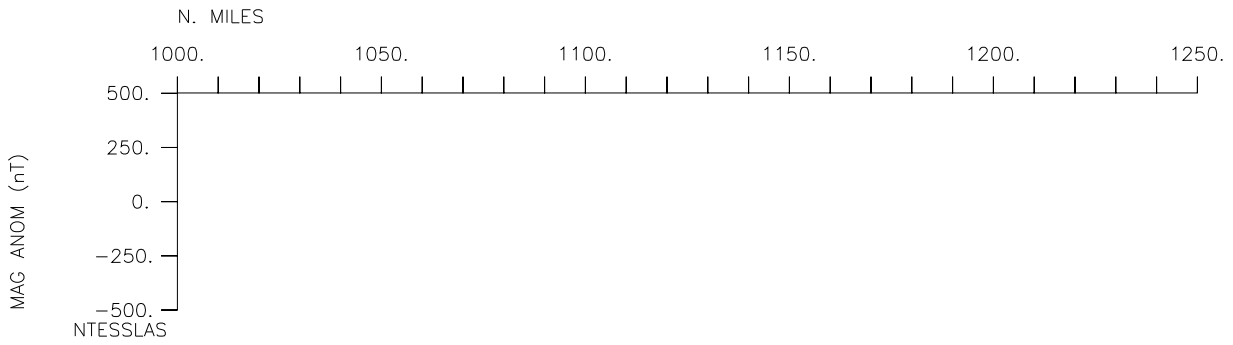
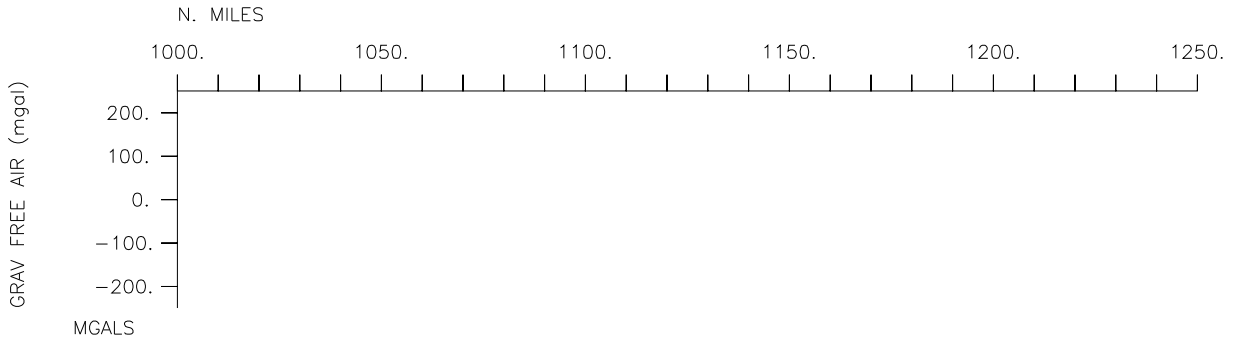


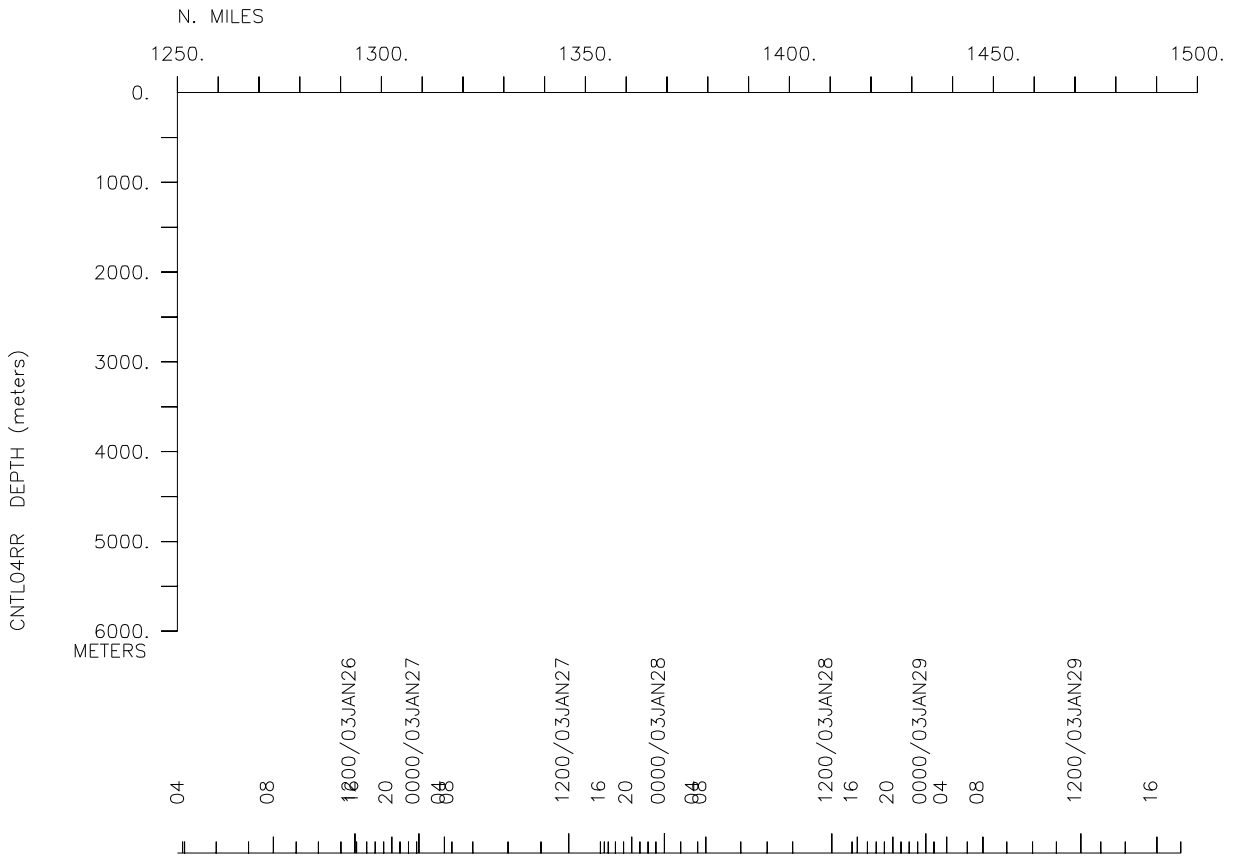
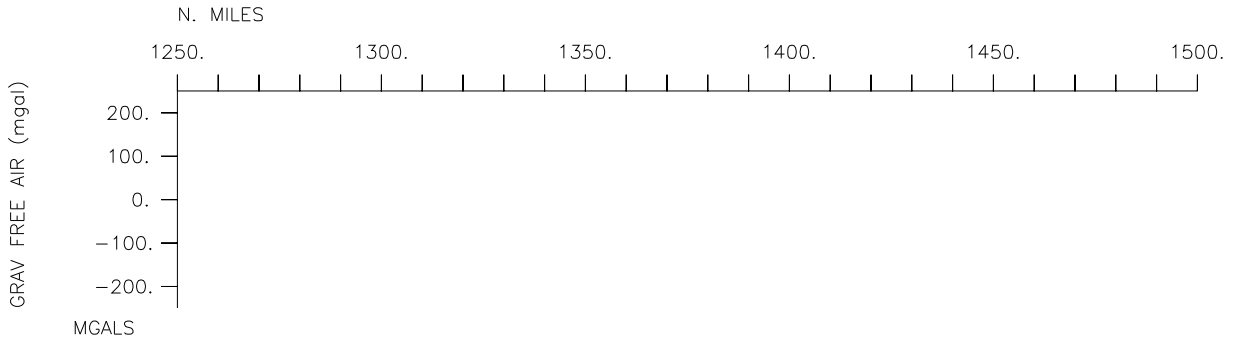


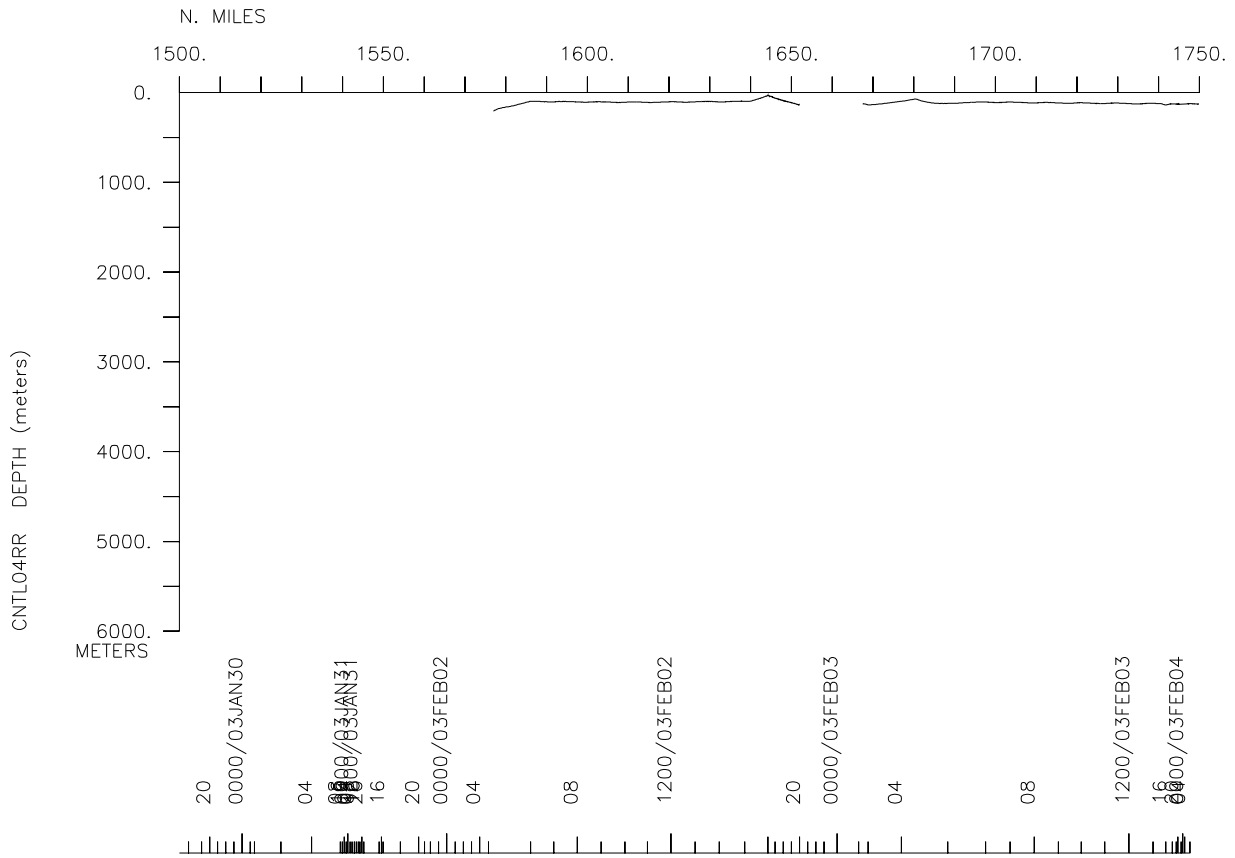
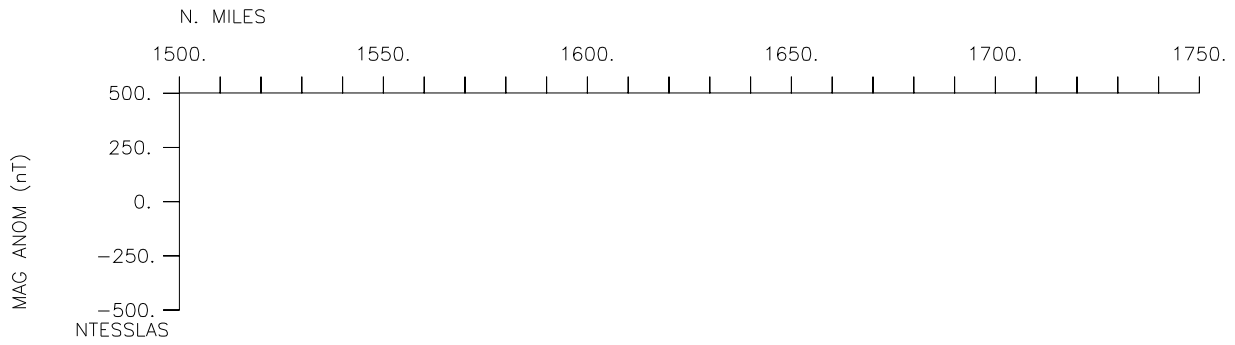
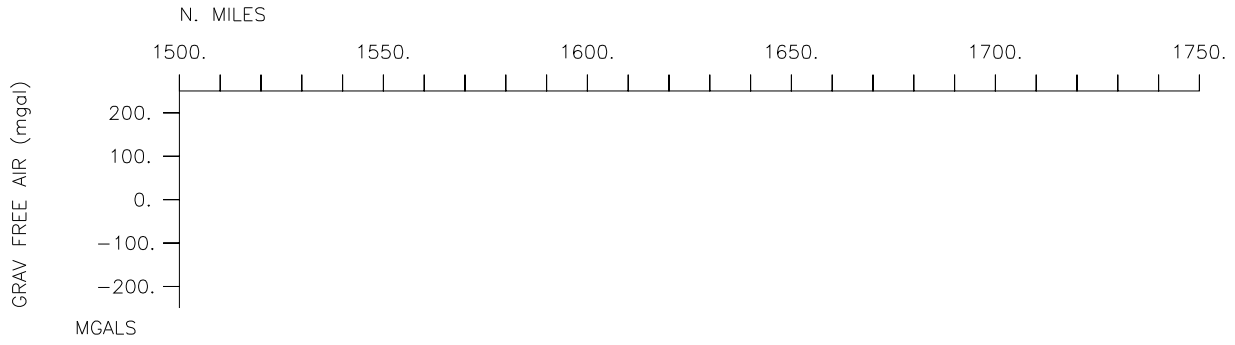


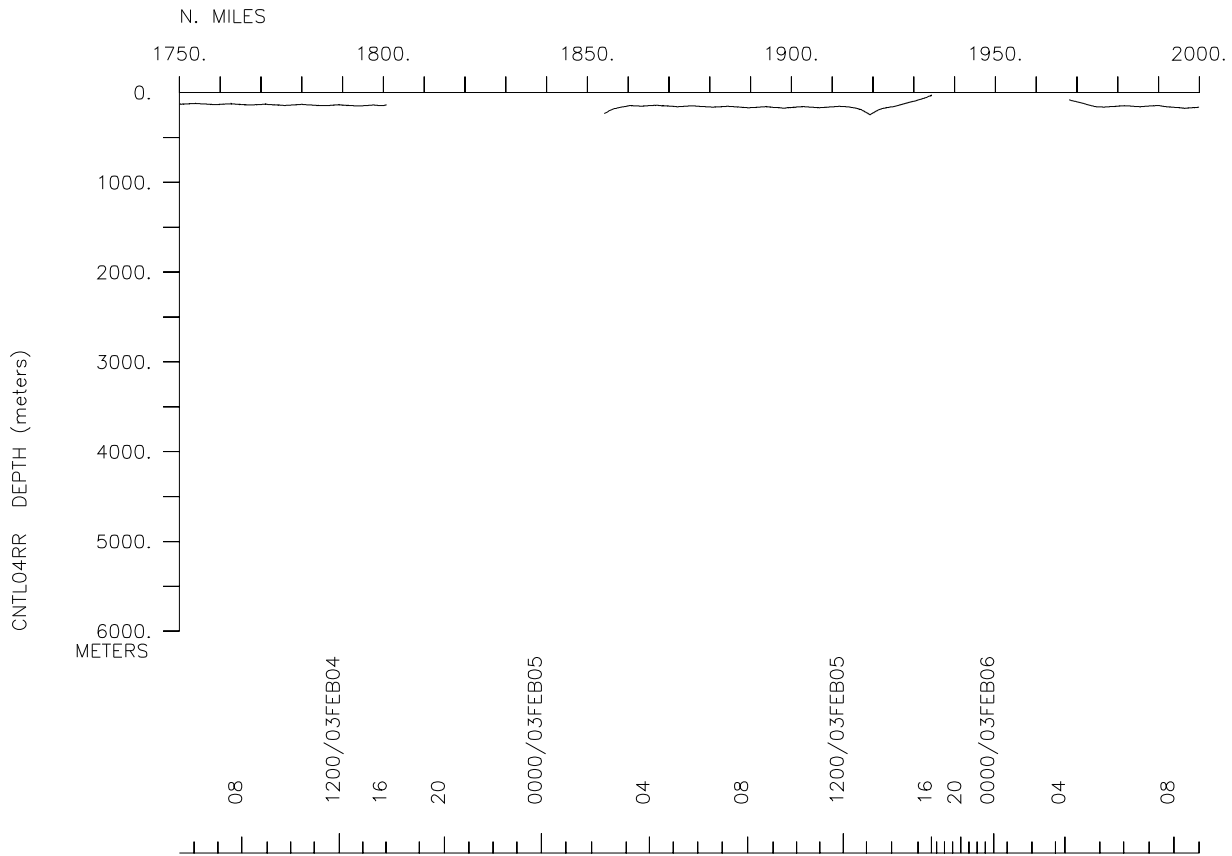
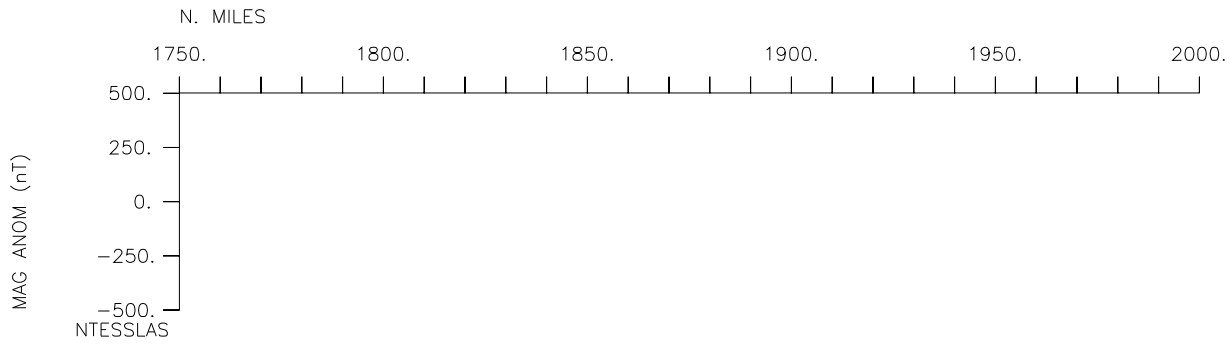
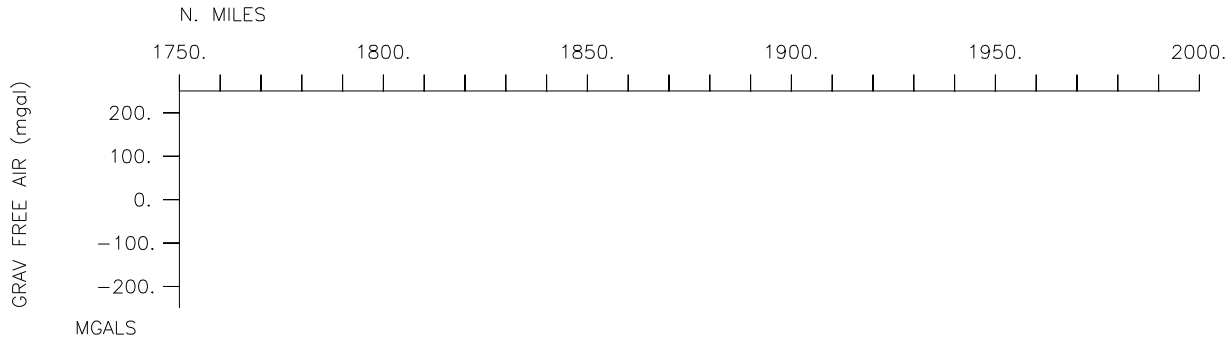


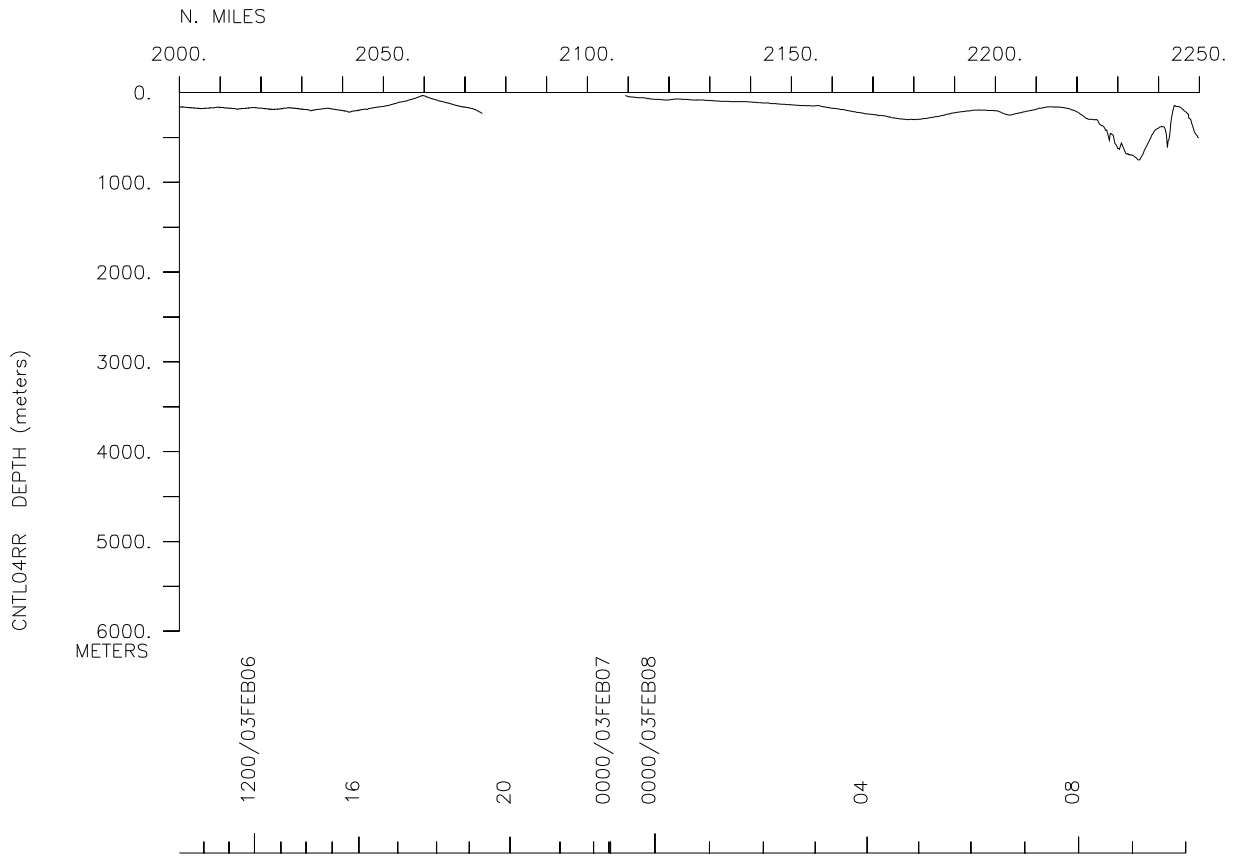
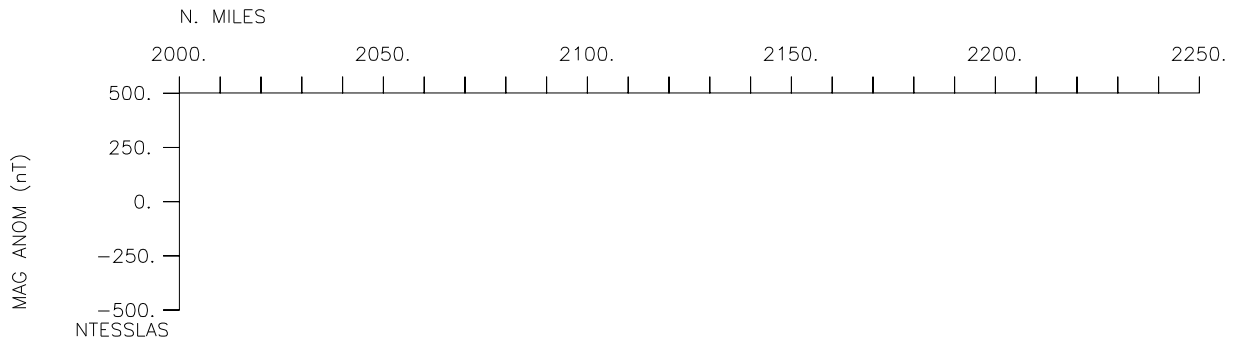
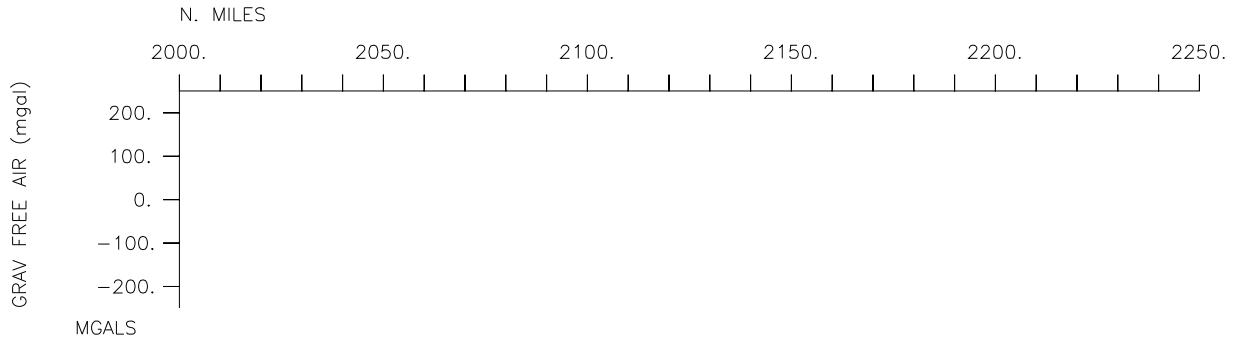


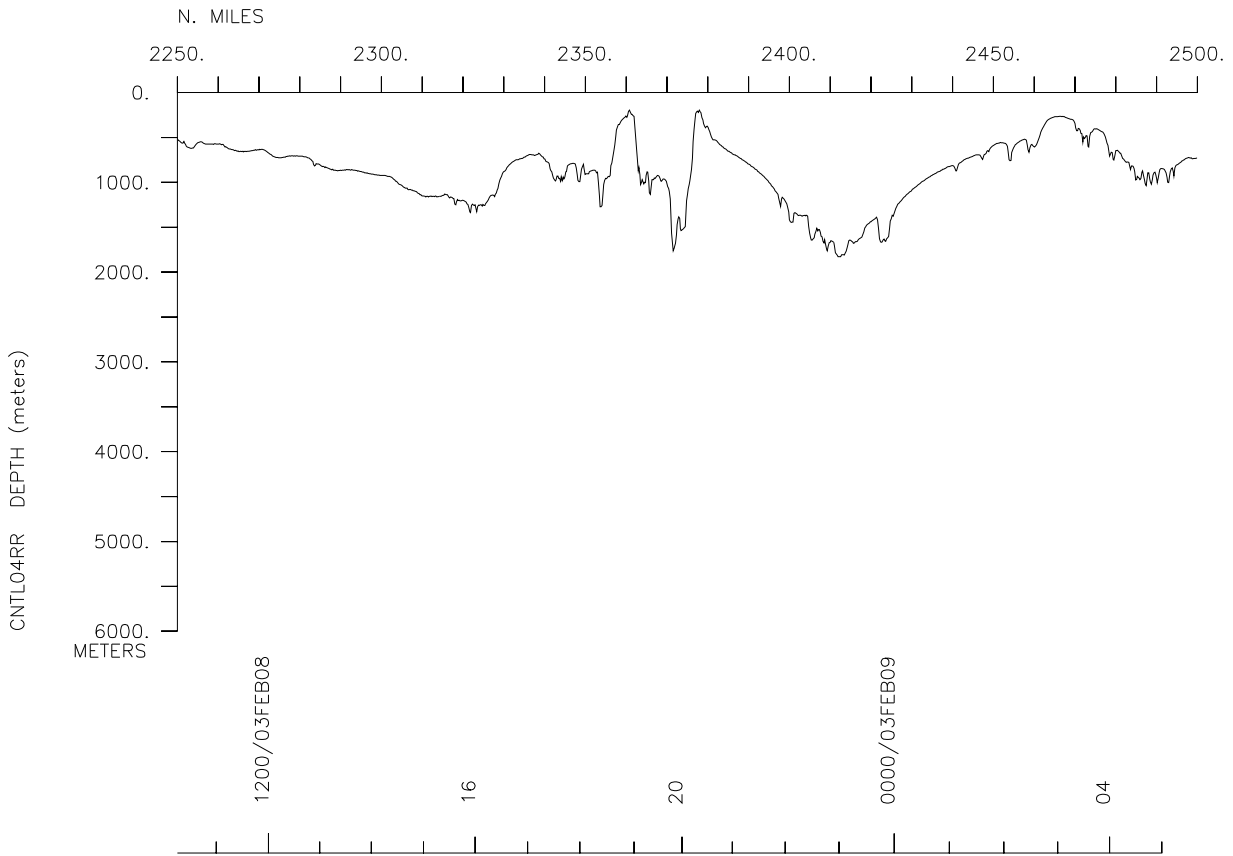
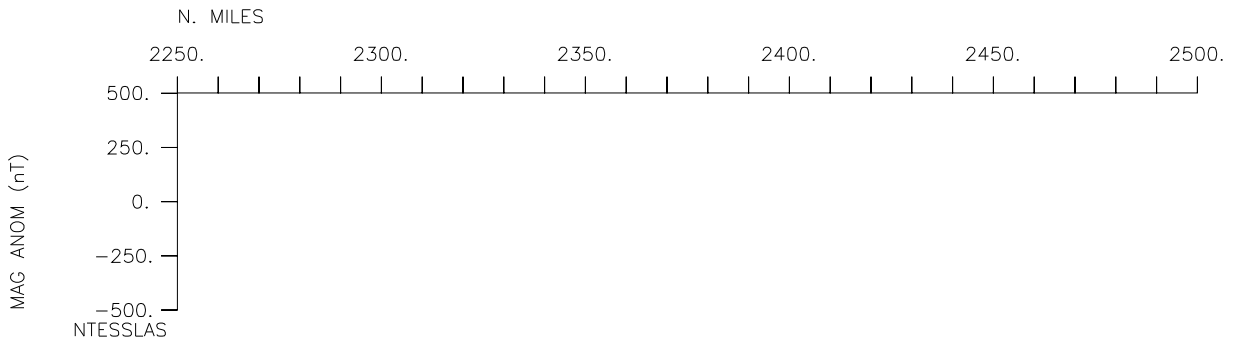
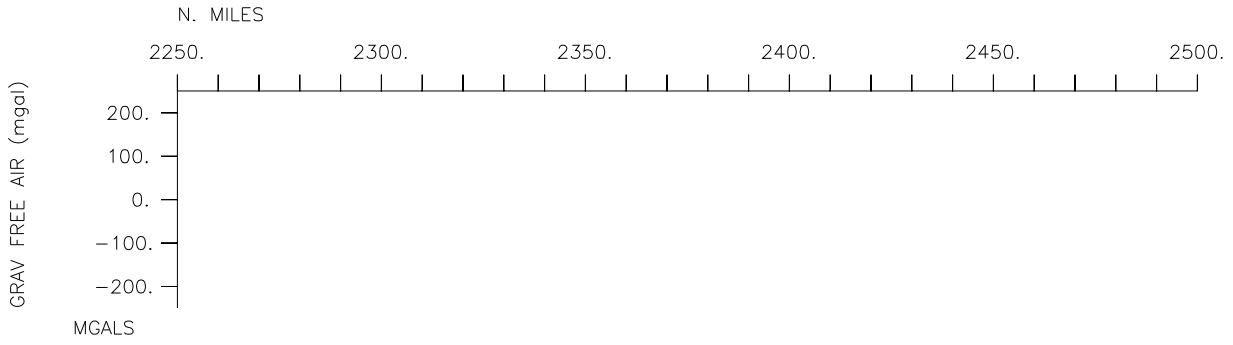


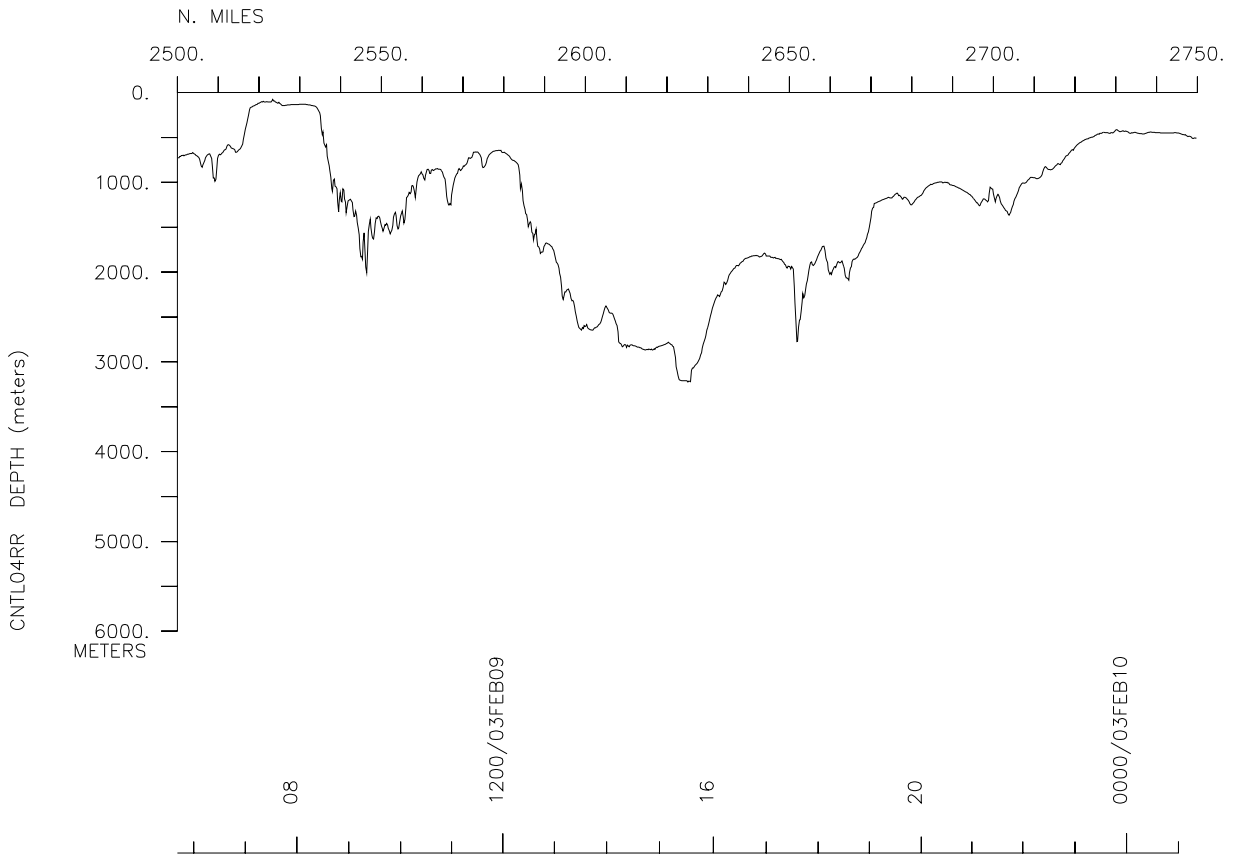
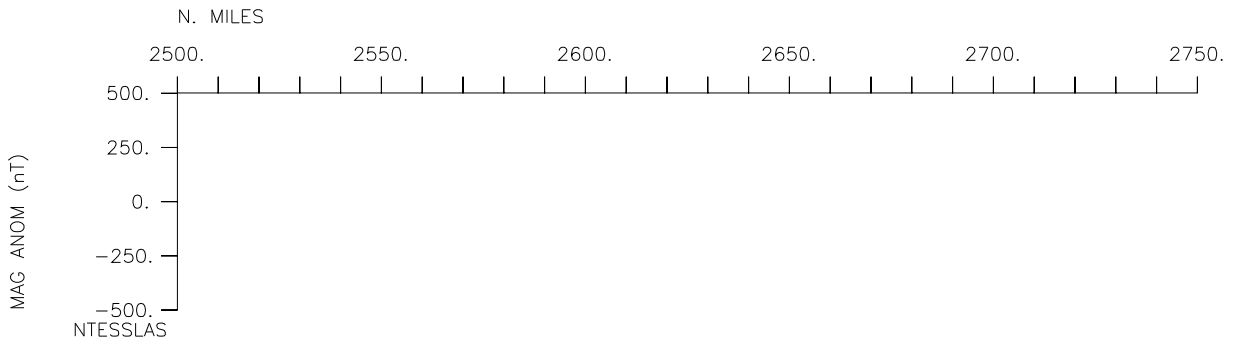
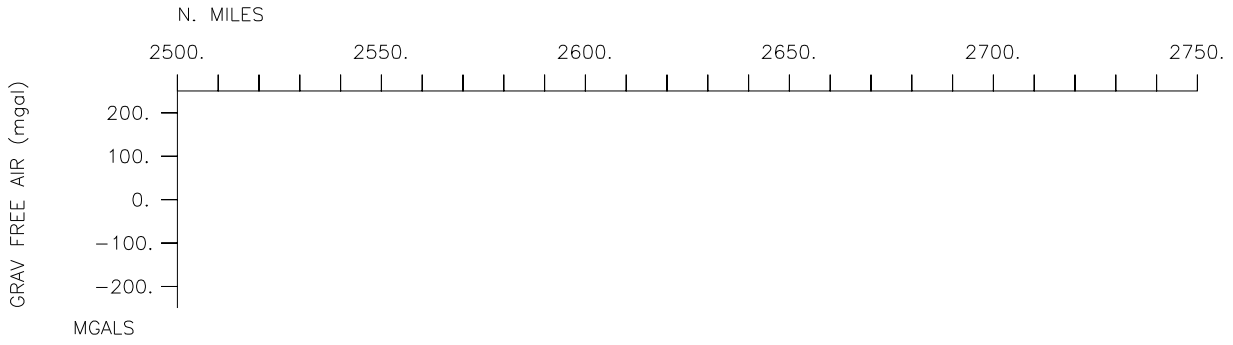


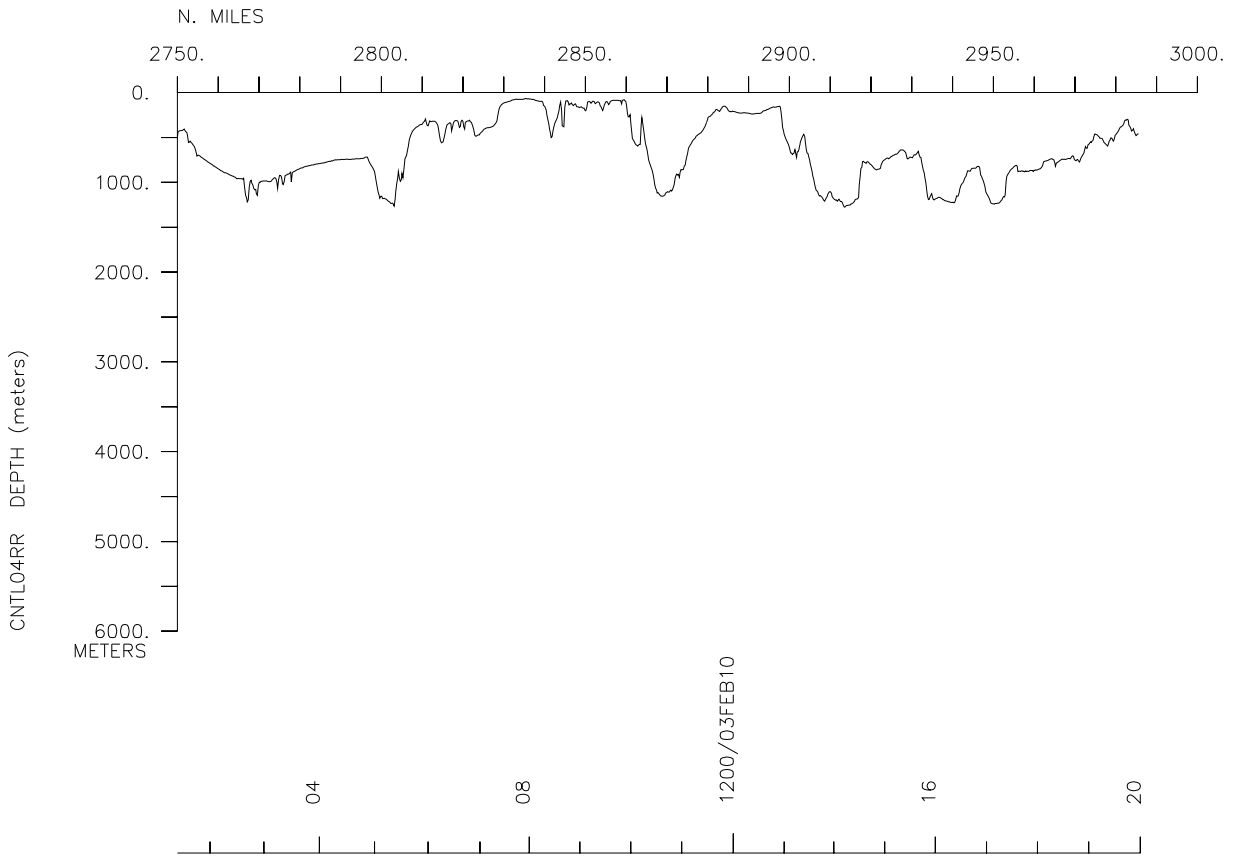
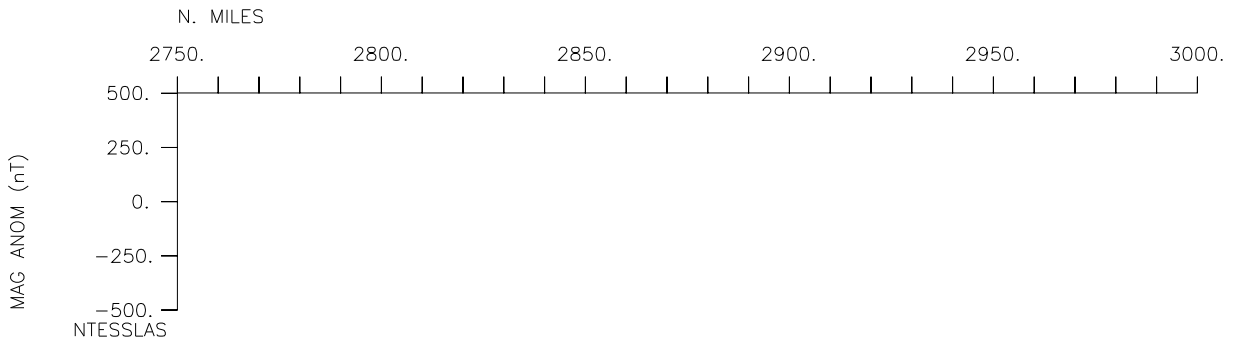
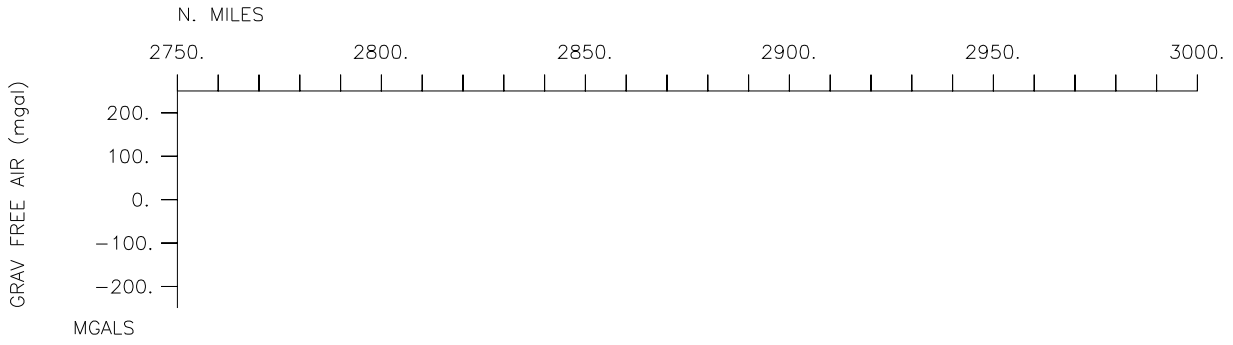














\*\*\*\* Ports \*\*\*

```

0215 160103   LGPT B San Diego, Calif.      32-43.00N 117-11.00W f CNTL04RR
2029 100203   LGPT E San Diego, Calif.      32-43.00N 117-11.00W f CNTL04RR

1824 220103   0 LGSS B Newport, Oregon        44-37.55N 124-02.69W g CNTL04RR
2206 220103   0 LGSS E Newport, Oregon        44-37.54N 124-02.69W g CNTL04RR

2236 060203   0 LGSS B Newport, Oregon        44-37.55N 124-02.69W g CNTL04RR
0230 070203   0 LGSS E Newport, Oregon        44-37.55N 124-02.69W g CNTL04RR
    
```

\*\*\*\* Personnel \*\*\*

```

# *****NAME***** *****TITLE***** *****AFFILIATION***** **CRID**
#-----
PECS OSU Wheeler, P.           Chief Sceintist      Oregon State Univ.   CNTL04RR
PECS OSU Moun, J.              Co-Chief Sci.       Oregon State Univ.   CNTL04RR
PECS OSU Hales, B.             Co-Chief Sci.       Oregon State Univ.   CNTL04RR
PECS OSU Letelier, R.         Co-Chief Sci.       Oregon State Univ.   CNTL04RR
PESP OSU Perlin, A.           Scientist            Oregon State Univ.   CNTL04RR
PESP OSU Klymak, J.           Scientist            Oregon State Univ.   CNTL04RR
PESP OSU Desiderio, R.        Scientist            Oregon State Univ.   CNTL04RR
PESP UHI Ruttenberg K.        Scientist            Univ. of Hawaii      CNTL04RR
PESP WHOI Dyhrman, S.          Scientist            Woods Hole           CNTL04RR
PESP OSU Neeley-Brown, M.      Technician           Oregon State Univ.   CNTL04RR
PESP OSU Keith, R.            Technician           Oregon State Univ.   CNTL04RR
PESP OSU Thompson, G.         Technician           Oregon State Univ.   CNTL04RR
PESP OSU Ulrick, E.           Technician           Oregon State Univ.   CNTL04RR
PESP OSU Jennings, J.        Technician           Oregon State Univ.   CNTL04RR
PESP OSU Harman, J.           Technician           Oregon State Univ.   CNTL04RR
PESP OSU Arrington, J.        Technician           Oregon State Univ.   CNTL04RR
PESP OSU Wetz, J.             Technician           Oregon State Univ.   CNTL04RR
PESP OSU Ashe, A.             Technician           Oregon State Univ.   CNTL04RR
PESP OSU Sanders, R.          Technician           Oregon State Univ.   CNTL04RR
PESP OSU Allean, Y.           Technician           Oregon State Univ.   CNTL04RR
PESP OSU Walk, C.             Technician           Oregon State Univ.   CNTL04RR
PESP WHOI Ziemann, T.         Technician           Oregon State Univ.   CNTL04RR
PESP WHOI Tamburini, F.       Technician           Oregon State Univ.   CNTL04RR
PEST OSU Covert, P.           Grad student        Oregon State Univ.   CNTL04RR
PEST OSU Bandstra, L.         Grad student        Oregon State Univ.   CNTL04RR
PEST OSU Wetz, M.             Grad student        Oregon State Univ.   CNTL04RR
PERT STS Wilson, B.           Resident tech       Scripps Institution   CNTL04RR
PECT STS Quiel, B.            Computer tech       Scripps Institution   CNTL04RR
    
```

\*\*\*\* 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 \*\*\*

```

0402 160103   0 MBSI B SIMRAD EM120 data      GDC 32-43.49N 117-27.37W g CNTL04RR
1956 100203   0 MBSI E SIMRAD EM120 data      GDC 32-40.95N 117-43.21W g CNTL04RR
    
```

#GMT	DDMMYY	SAMP	B	SAMPLE	DISP				p	CRUISE
#TIME	DATE	TZ	CODE	E IDENTIFIER	CODE	LATITUDE	LONGITUDE		c	LEG-SHIP
#-----	---	-----	-----	-----	-----	-----	-----	-----	---	-----
#*** Digital Gravity ***										
0215	160103	0	GVDD	B digital gravity data	GDC	32-42.40N	117-14.18W	g		CNTL04RR
2029	100203	0	GVDD	E digital gravity data	GDC	32-39.74N	117-35.03W	g		CNTL04RR
#*** Expendable Bathythermographs ***										
2009	160103	0	BTXP	MK12 # 1 Fast_Deep	GDC	34-06.28N	120-40.31W	g		CNTL04RR
2105	170103	0	BTXP	MK12 # 4 Fast_Deep	GDC	37-44.40N	123-17.17W	g		CNTL04RR
2355	170103	0	BTXP	MK12 # 2 Fast_Deep	GDC	38-14.38N	123-34.02W	g		CNTL04RR
0503	010203	0	BTXP	MK12 # 5 Fast_Deep	GDC	45-00.00N	124-13.50W	g		CNTL04RR
2153	070203	0	BTXP	MK12 # 6 Fast_Deep	GDC	44-37.55N	124-02.69W	g		CNTL04RR
2057	080203	0	BTXP	MK12 # 7 Fast_Deep	GDC	40-08.86N	124-31.65W	g		CNTL04RR
#*** Conductivity, Temperature, Depth ***										
2118	160103	0	TDCT	B Test super sucker-SS	OSU	34-14.31N	120-44.94W	g		CNTL04RR
0035	170103	0	TDCT	E super sucker on deck	OSU	34-14.57N	120-44.99W	g		CNTL04RR
2310	160103	0	TDCT	B Test chameleon	OSU	34-14.35N	120-44.93W	g		CNTL04RR
2325	160103	0	TDCT	E chameleon recovered	OSU	34-14.54N	120-44.99W	g		CNTL04RR
1217	190103	0	TDCT	B SS Pump deployed	OSU	45-00.00N	124-20.00W	g		CNTL04RR
1517	190103	0	TDCT	E SS Pump recovered	OSU	45-00.00N	124-20.00W	g		CNTL04RR
2300	190103	0	TDCT	B Bottom mooring	OSU	45-00.42N	124-12.21W	g		CNTL04RR
0345	040203	0	TDCT	E Bottom mooring	OSU	45-00.47N	124-12.26W	g		CNTL04RR
0218	200103	0	TDCT	B SS Pump deployed	OSU	45-01.00N	124-02.50W	g		CNTL04RR
0300	200103	0	TDCT	E SS recovered	OSU	45-01.00N	124-02.50W	g		CNTL04RR
0534	200103	0	TDCT	B deployed SS	OSU	45-01.00N	124-02.50W	g		CNTL04RR
0622	200103	0	TDCT	E recovered SS	OSU	45-01.00N	124-02.50W	g		CNTL04RR
1957	200103	0	TDCT	B SS deployed	OSU	45-00.00N	124-02.51W	g		CNTL04RR
1224	210103	0	TDCT	E SS recovered	OSU	45-00.00N	124-24.96W	g		CNTL04RR
2053	200103	0	TDCT	B deployed C	OSU	45-00.00N	124-02.69W	g		CNTL04RR
0748	210103	0	TDCT	E C recovered	OSU	45-00.00N	124-24.83W	g		CNTL04RR
1643	210103	0	TDCT	B deployed C	OSU	45-00.00N	124-02.74W	g		CNTL04RR
1650	210103	0	TDCT	X fouled in port ster	OSU	45-00.00N	124-03.01W	g		CNTL04RR
0215	230103	0	TDCT	B SS deployed	OSU	45-00.00N	124-07.31W	g		CNTL04RR
0502	230103	0	TDCT	E recovered SS	OSU	45-00.00N	124-07.29W	g		CNTL04RR
1335	230103	0	TDCT	B SS deployed	OSU	45-00.00N	124-23.40W	g		CNTL04RR
1734	230103	0	TDCT	E recovered SS	OSU	45-00.00N	124-23.40W	g		CNTL04RR
1854	230103	0	TDCT	B deployed SS	OSU	45-00.00N	124-10.01W	g		CNTL04RR
2315	230103	0	TDCT	E SS recovered	OSU	45-00.00N	124-02.50W	g		CNTL04RR
0046	240103	0	TDCT	B SS deployed	OSU	45-00.00N	124-07.30W	g		CNTL04RR
0349	240103	0	TDCT	E recovered SS	OSU	45-00.00N	124-07.30W	g		CNTL04RR
0852	240103	0	TDCT	B SS deployed	OSU	45-00.01N	124-23.41W	g		CNTL04RR
0925	240103	0	TDCT	E SS recovered	OSU	45-00.01N	124-23.39W	g		CNTL04RR
1608	240103	0	TDCT	B deployed SS	OSU	45-00.01N	124-23.41W	g		CNTL04RR
0025	250103	0	TDCT	E recovered	OSU	45-00.00N	124-02.89W	g		CNTL04RR

#GMT	DDMMYY	SAMP B	SAMPLE	DISP		p	CRUISE
#TIME	DATE	TZ	CODE E IDENTIFIER	CODE	LATITUDE	LONGITUDE	LEG-SHIP
#-----	---	-----	-----	-----	-----	-----	-----
1726	240103	0	TDCT B deployed C	OSU	45-00.00N	124-22.81W	g CNTL04RR
0025	250103	0	TDCT E recovered C	OSU	45-00.00N	124-02.89W	g CNTL04RR
0330	250103	0	TDCT B SS deployed	OSU	45-00.00N	124-07.30W	g CNTL04RR
0640	250103	0	TDCT E recovered SS	OSU	45-00.00N	124-07.30W	g CNTL04RR
0906	250103	0	TDCT B SS deployed	OSU	45-00.02N	124-23.34W	g CNTL04RR
1318	250103	0	TDCT E SS recovered	OSU	45-00.00N	124-23.40W	g CNTL04RR
1712	250103	0	TDCT B deployed SS	OSU	45-00.00N	124-20.00W	g CNTL04RR
0039	260103	0	TDCT E SS recovered	OSU	45-00.00N	124-02.50W	g CNTL04RR
1730	250103	0	TDCT B deployed C	OSU	45-00.01N	124-19.69W	g CNTL04RR
2315	250103	0	TDCT E C" recovered	OSU	45-00.00N	124-03.07W	g CNTL04RR
0203	260103	0	TDCT B deployed SS	OSU	45-00.00N	124-07.27W	g CNTL04RR
0504	260103	0	TDCT E recovered SS	OSU	45-00.00N	124-07.30W	g CNTL04RR
1550	260103	0	TDCT B deployed SS	OSU	45-00.01N	124-23.38W	g CNTL04RR
0026	270103	0	TDCT E SS recovered	OSU	45-00.00N	124-02.50W	g CNTL04RR
1611	260103	0	TDCT B deployed C	OSU	45-00.03N	124-22.79W	g CNTL04RR
1651	260103	0	TDCT E recovered C	OSU	45-00.01N	124-20.83W	g CNTL04RR
1702	260103	0	TDCT B deployed C	OSU	45-00.02N	124-20.28W	g CNTL04RR
2310	260103	0	TDCT E C" recovered	OSU	45-00.00N	124-02.64W	g CNTL04RR
0427	270103	0	TDCT B deployed SS	OSU	45-00.00N	124-13.50W	g CNTL04RR
0807	270103	0	TDCT E SS recovered	OSU	45-00.00N	124-13.50W	g CNTL04RR
1322	270103	0	TDCT B SS deployed	OSU	45-00.00N	124-23.39W	g CNTL04RR
0129	280103	0	TDCT E SS recovered	OSU	45-00.00N	124-02.50W	g CNTL04RR
1643	270103	0	TDCT B deployed C	OSU	45-00.00N	124-23.07W	g CNTL04RR
1659	270103	0	TDCT E recovered C	OSU	45-00.00N	124-22.33W	g CNTL04RR
1717	270103	0	TDCT B deployed C	OSU	44-59.99N	124-21.75W	g CNTL04RR
0001	280103	0	TDCT E recovered	OSU	45-00.00N	124-02.81W	g CNTL04RR
0314	280103	0	TDCT B SS deployed	OSU	45-00.00N	124-13.50W	g CNTL04RR
0513	280103	0	TDCT E recovered SS	OSU	45-00.00N	124-13.50W	g CNTL04RR
0612	280103	0	TDCT B deployed SS	OSU	45-00.00N	124-13.50W	g CNTL04RR
0738	280103	0	TDCT E recovered SS	OSU	45-00.00N	124-13.50W	g CNTL04RR
1241	280103	0	TDCT B SS deployed	OSU	45-00.00N	124-23.40W	g CNTL04RR
1541	280103	0	TDCT E recovered SS	OSU	45-00.00N	124-23.40W	g CNTL04RR
1628	280103	0	TDCT B deployed SS	OSU	45-00.02N	124-26.95W	g CNTL04RR
0323	290103	0	TDCT E SS recovered	OSU	45-00.00N	124-02.50W	g CNTL04RR
1642	280103	0	TDCT B deployed C	OSU	45-00.01N	124-26.60W	g CNTL04RR
0055	290103	0	TDCT E recovered	OSU	45-00.00N	124-02.97W	g CNTL04RR
0550	290103	0	TDCT B deployed SS	OSU	45-00.00N	124-13.50W	g CNTL04RR
0710	290103	0	TDCT E recovered SS	OSU	45-00.00N	124-13.50W	g CNTL04RR
1841	290103	0	TDCT B deployed C	OSU	45-00.01N	124-02.98W	g CNTL04RR
0120	300103	0	TDCT E C" recovered	OSU	45-00.01N	124-21.46W	g CNTL04RR
1621	300103	0	TDCT B deployed C	OSU	45-00.72N	124-12.22W	g CNTL04RR
2037	300103	0	TDCT E C" recovered	OSU	45-00.72N	124-12.22W	g CNTL04RR

#GMT	DDMMYY	SAMP	B	SAMPLE	DISP				p	CRUISE
#TIME	DATE	TZ	CODE	E IDENTIFIER	CODE	LATITUDE	LONGITUDE		c	LEG-SHIP
#-----	---	-----	-----	-----	-----	-----	-----	-----	-----	-----
2043	300103	0	TDCT	B C" deployed	OSU	45-00.72N	124-12.23W		g	CNTL04RR
2252	300103	0	TDCT	E C" recovered	OSU	45-00.72N	124-12.22W		g	CNTL04RR
2308	300103	0	TDCT	B C" deployed	OSU	45-00.72N	124-12.20W		g	CNTL04RR
0155	010203	0	TDCT	E C recovered	OSU	45-00.73N	124-12.23W		g	CNTL04RR
2006	010203	0	TDCT	B TD#1 deployed 40m	OSU	45-00.00N	124-04.29W		g	CNTL04RR
2023	010203	0	TDCT	E TD#1 recovered 40m	OSU	45-00.00N	124-04.29W		g	CNTL04RR
2106	010203	0	TDCT	B TD#2 deployed 20m	OSU	45-00.01N	124-02.52W		g	CNTL04RR
2116	010203	0	TDCT	E TD#2 recovered 20m	OSU	45-00.01N	124-02.51W		g	CNTL04RR
2122	010203	0	TDCT	B C" deployed	OSU	45-00.00N	124-02.60W		g	CNTL04RR
0446	020203	0	TDCT	E recovered C	OSU	44-59.99N	124-23.60W		g	CNTL04RR
1615	020203	0	TDCT	B deployed C	OSU	45-00.00N	124-02.85W		g	CNTL04RR
2334	020203	0	TDCT	E C" recovered	OSU	45-00.00N	124-23.49W		g	CNTL04RR
1629	050203	0	TDCT	B deployed C	OSU	44-59.97N	124-02.75W		g	CNTL04RR
1731	050203	0	TDCT	E recovered C	OSU	45-00.01N	124-05.63W		g	CNTL04RR
1746	050203	0	TDCT	B deployed C	OSU	44-59.98N	124-06.21W		g	CNTL04RR
2350	050203	0	TDCT	E C" recovered	OSU	45-00.03N	124-23.44W		g	CNTL04RR

# End Sample Index