

Report and Index of
Underway Marine Geophysical Data
Vancouver Expedition

Leg 7

(VANC07MV)

R/V Melville

(Issued April 2003)

Ports:

Capetown, South Africa (19 January 2003)
to
Capetown, South Africa (9 February 2003)

Chief Scientist: Henry Dick
Woods Hole Oceanographic Institution
hdick@whoi.edu

Computer Tech – Geoff Davis
Resident Tech - Gene Pillard

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

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

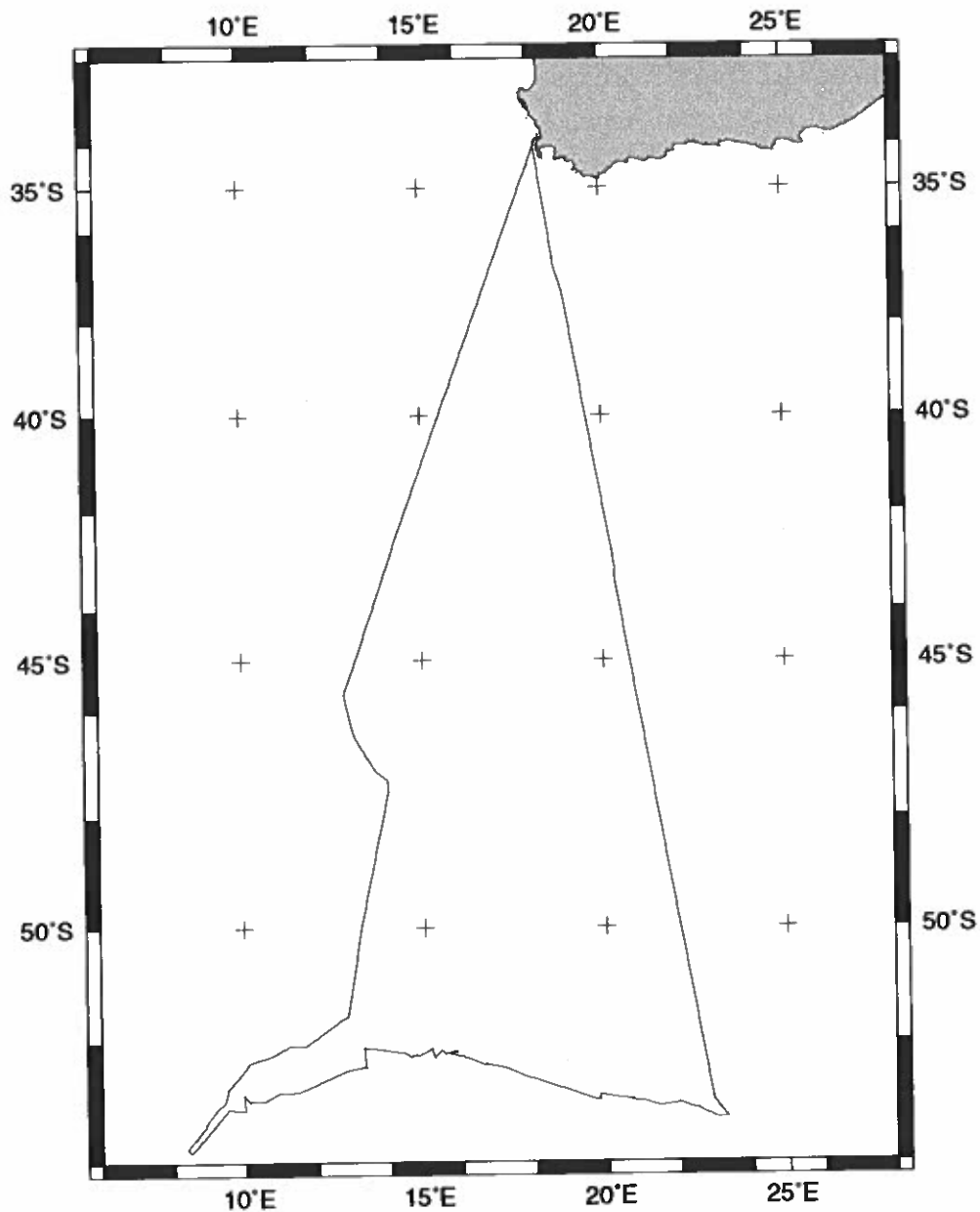
Sample Index - list of begin/end times and positions of all underway records as well as samples and measurements from other disciplines collected on the leg.

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; or his website: <http://SIOExplorer@ucsd.edu>

Rev 05/2002



VANCOUVER EXPEDITION LEG 7 (VANC07MV)

CHIEF SCIENTIST: Henry Dick, Woods Hole

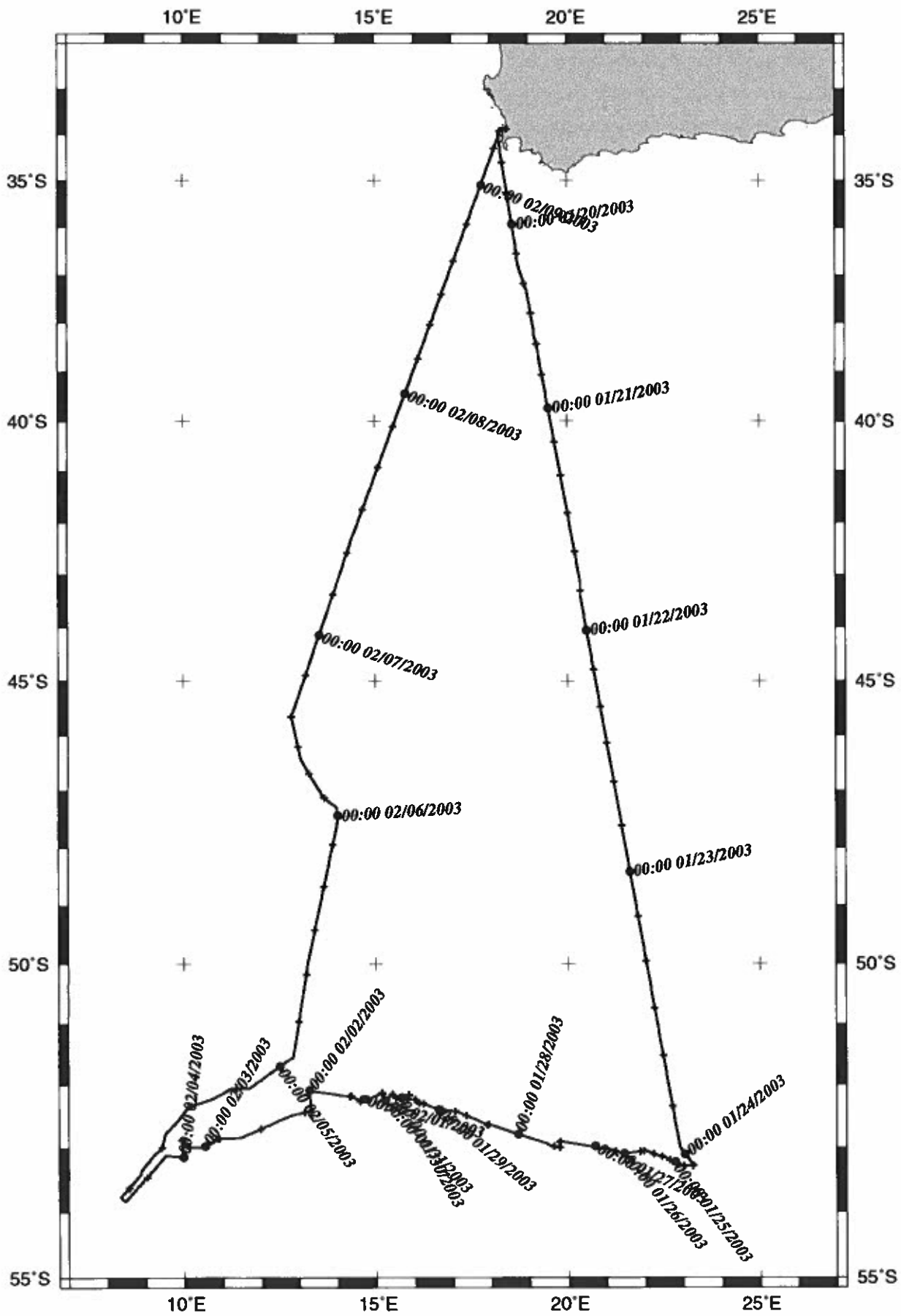
PORTS: Cape Town - Cape Town, South Africa

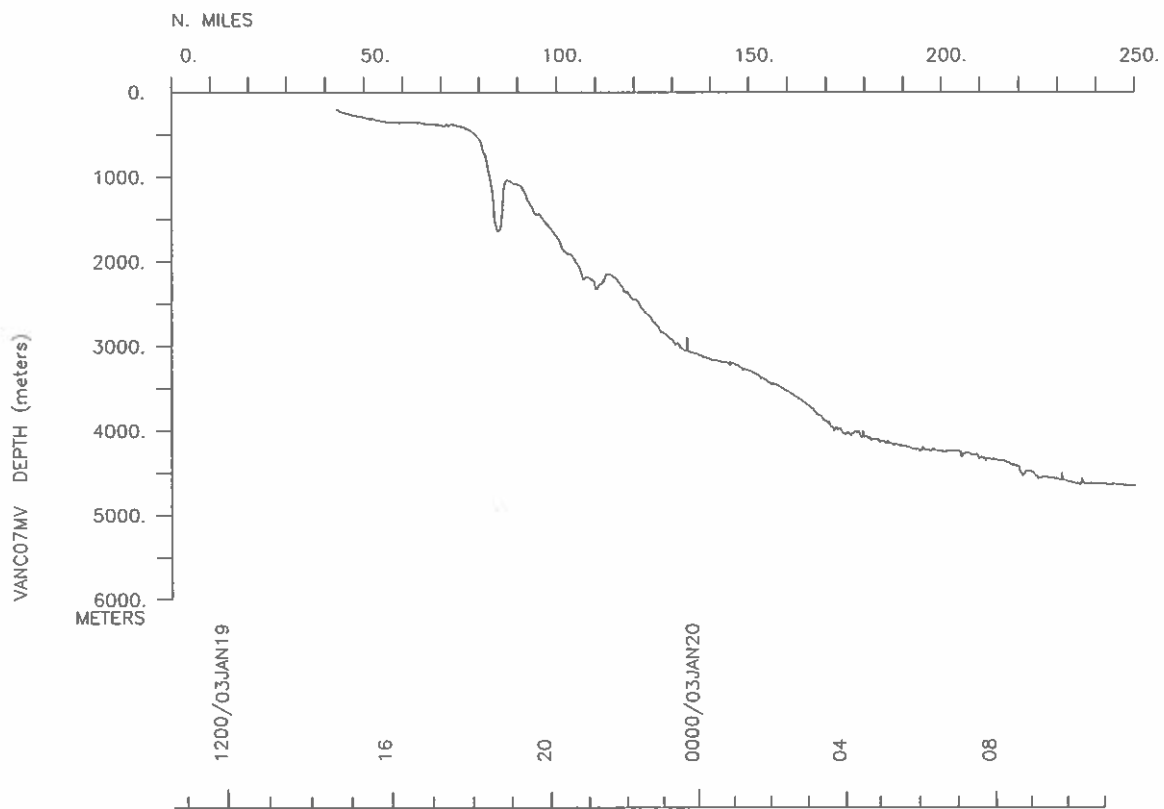
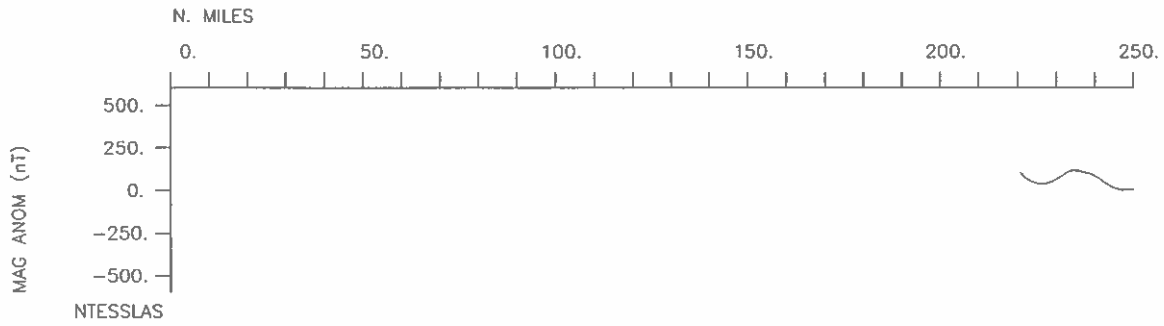
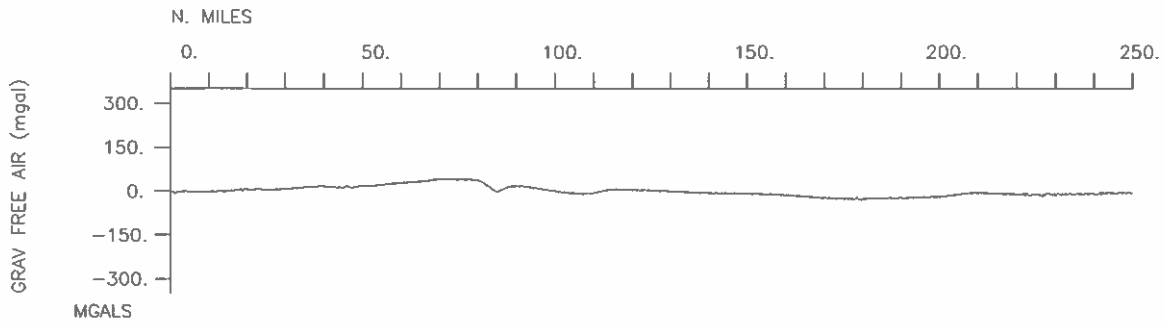
DATES: 19 January - 9 February 2003

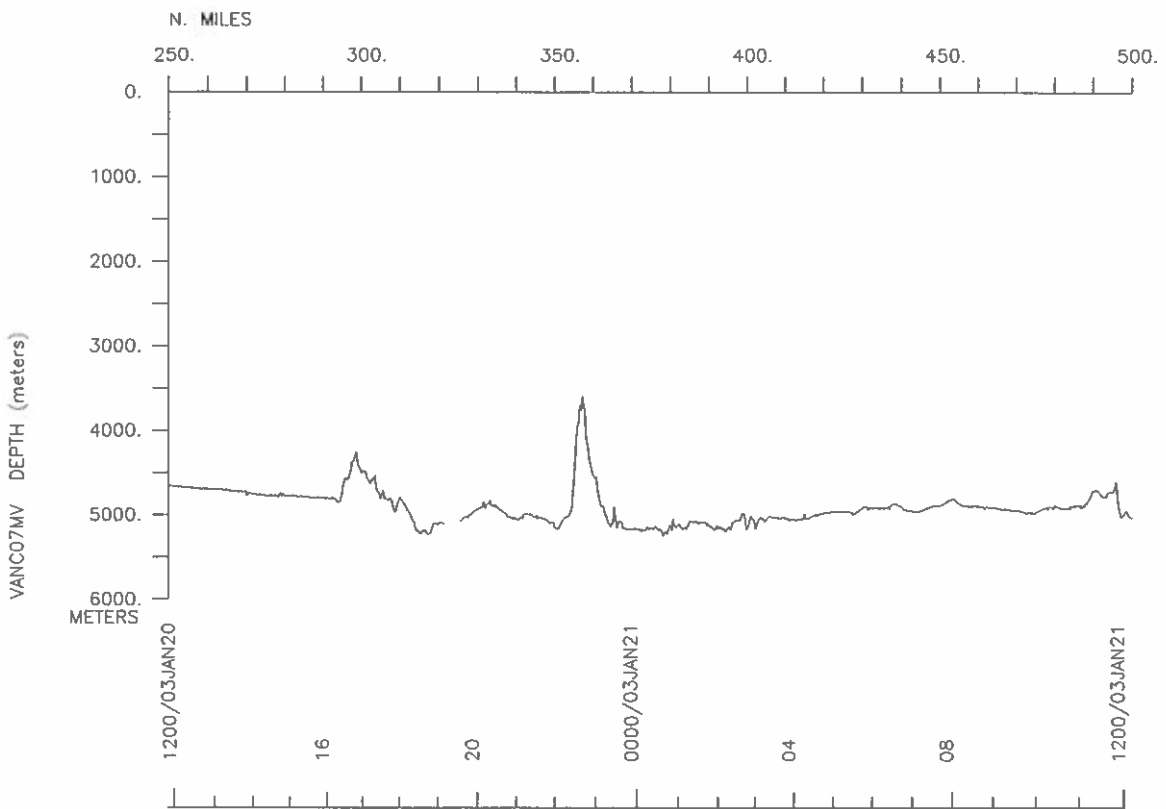
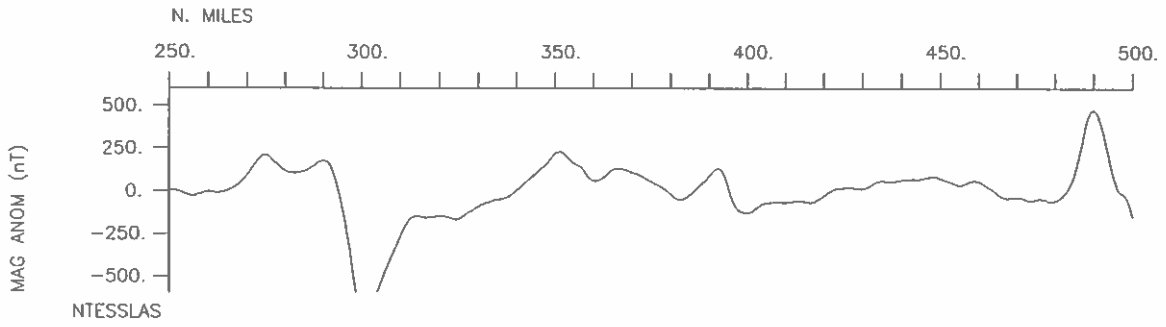
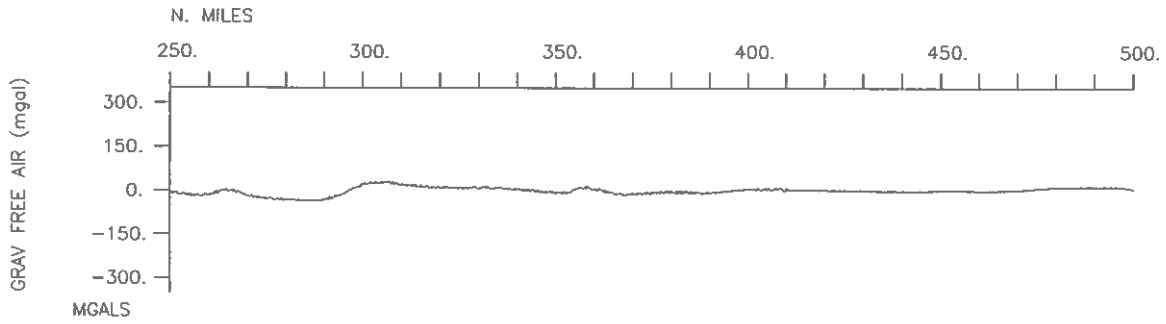
SHIP: R/V Melville

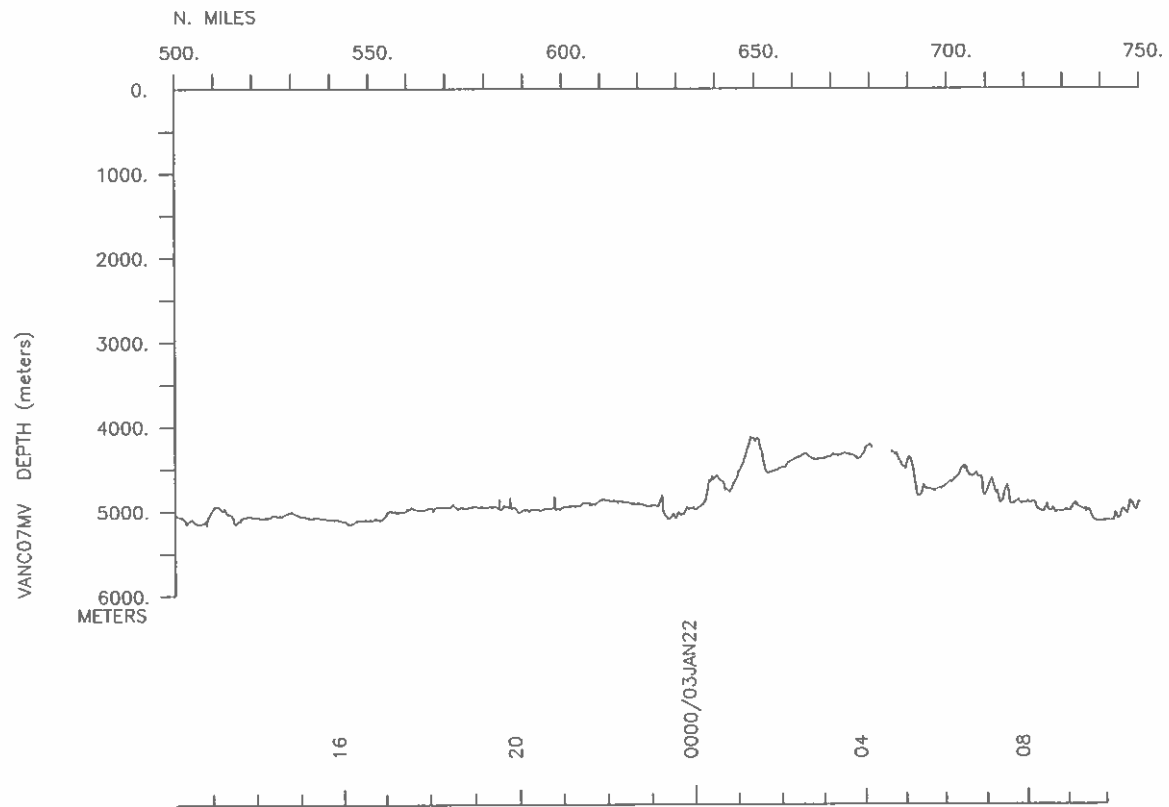
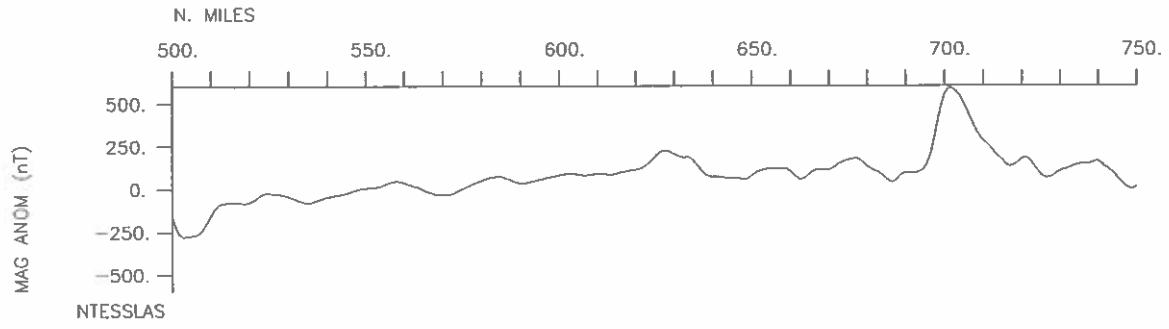
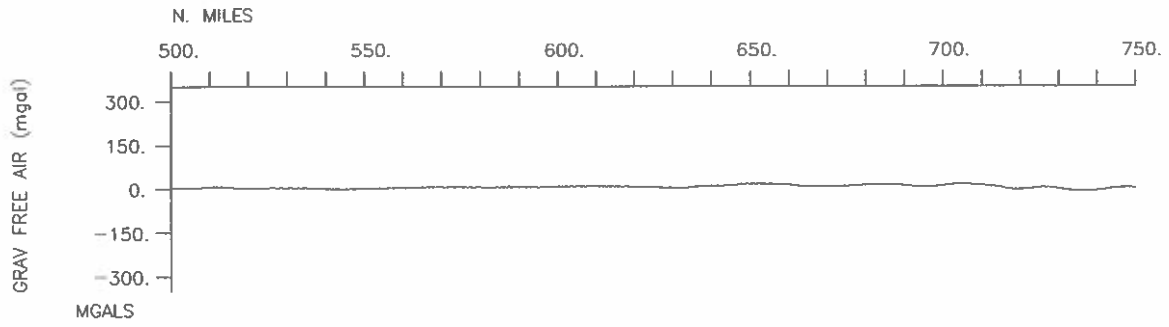
TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

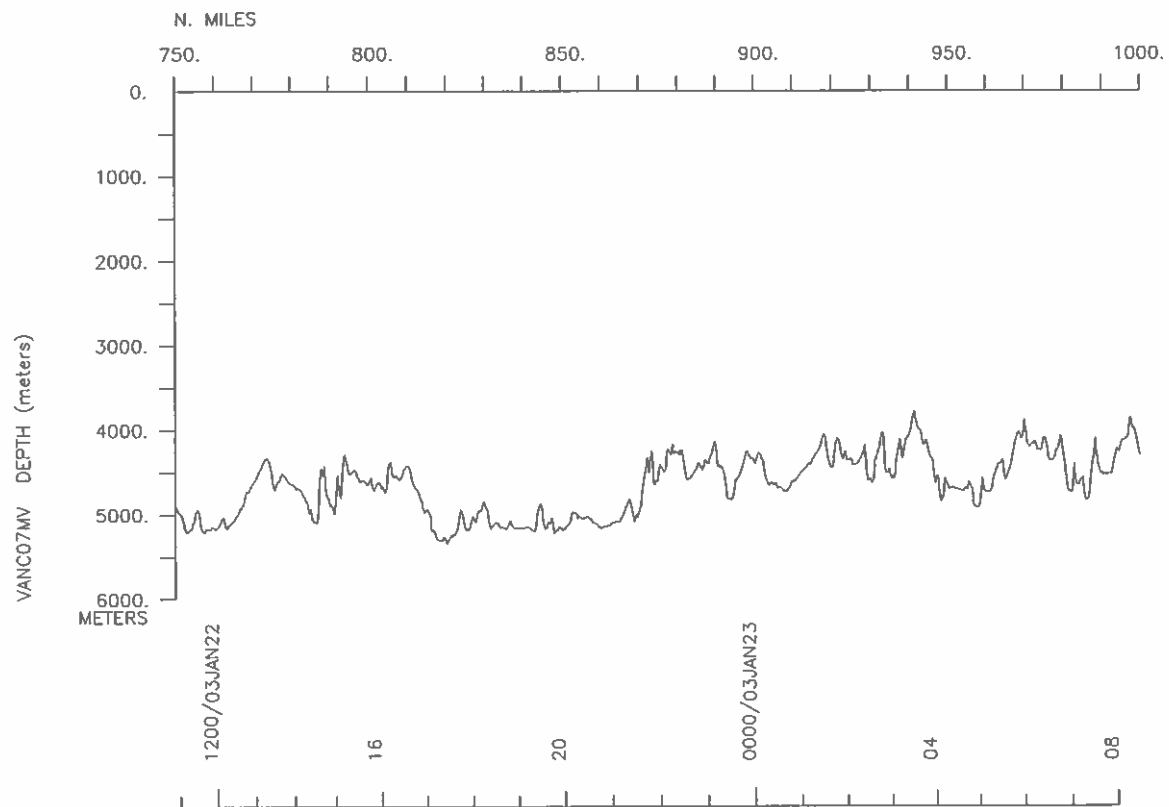
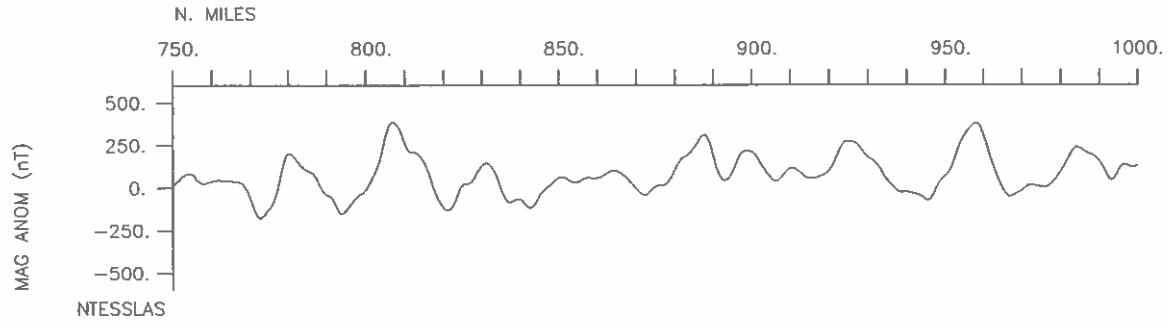
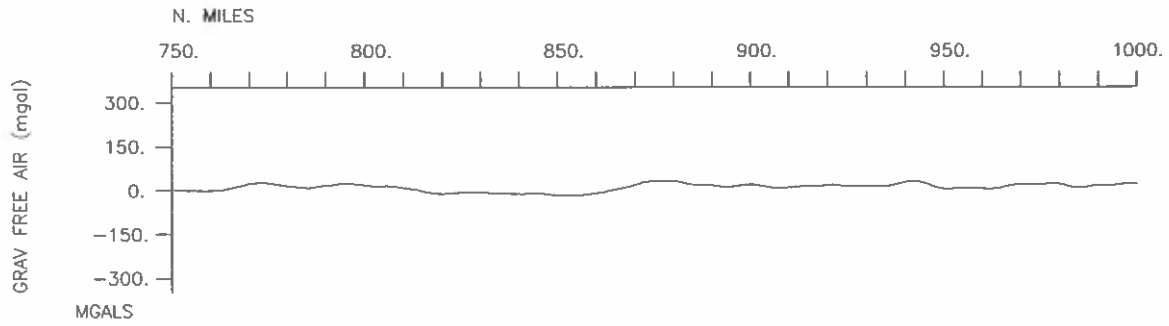
Cruise-3261 miles	Magnetics-2441 miles
Bathymetry-3094 miles	Seismic Reflection-none collected
Multibeam -3094 miles	Gravity-3202 miles

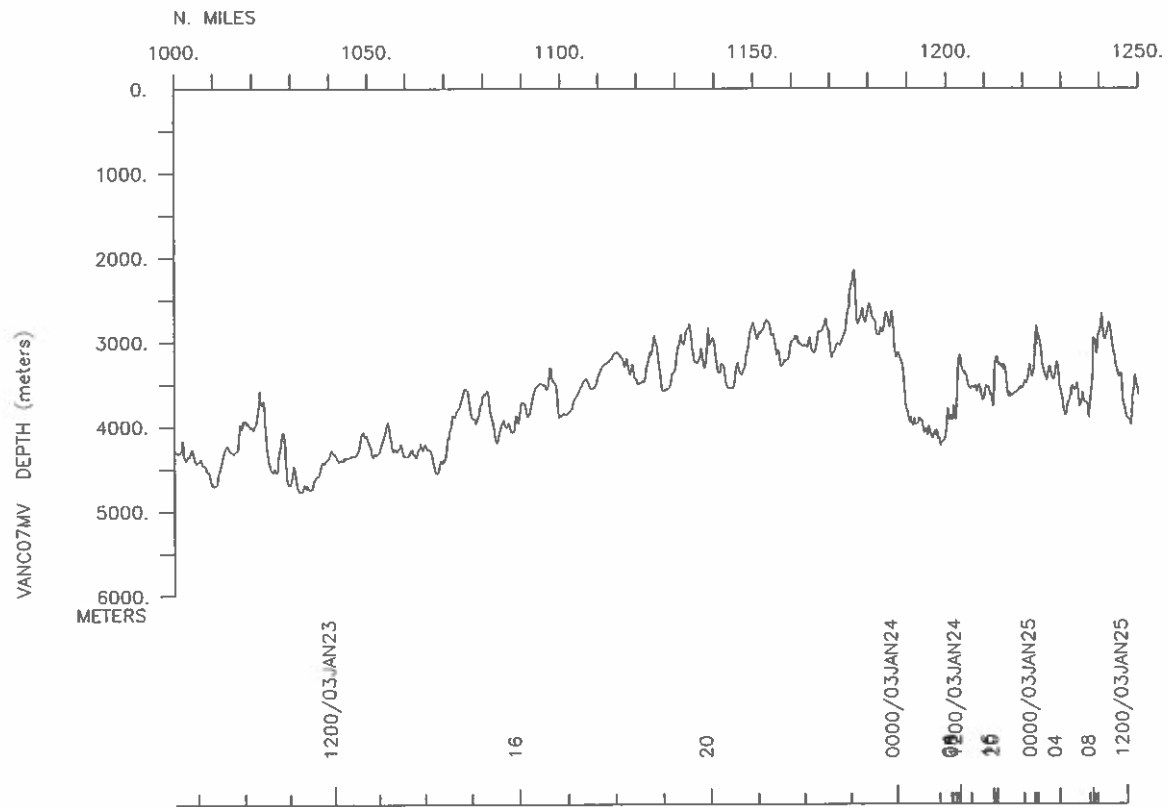
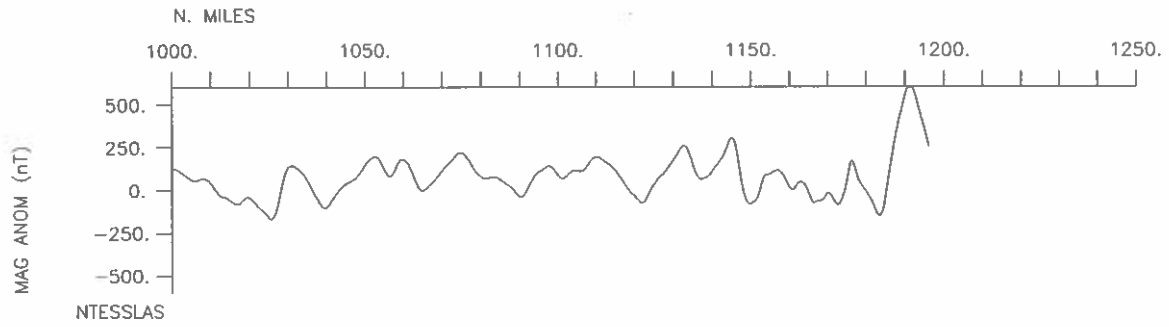
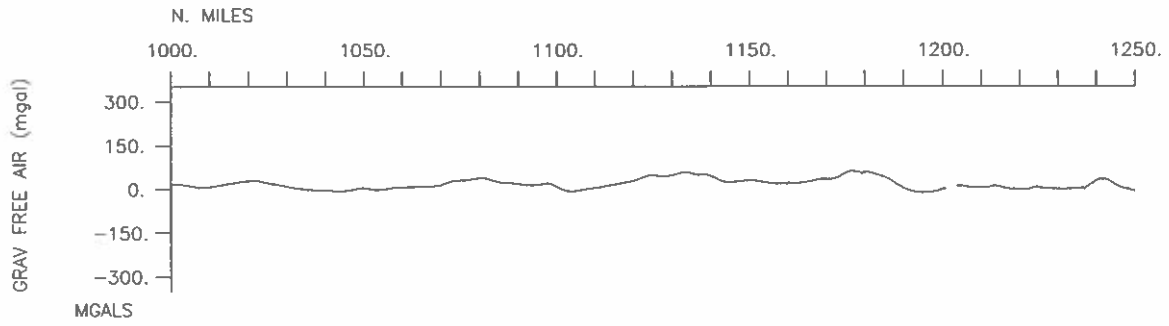


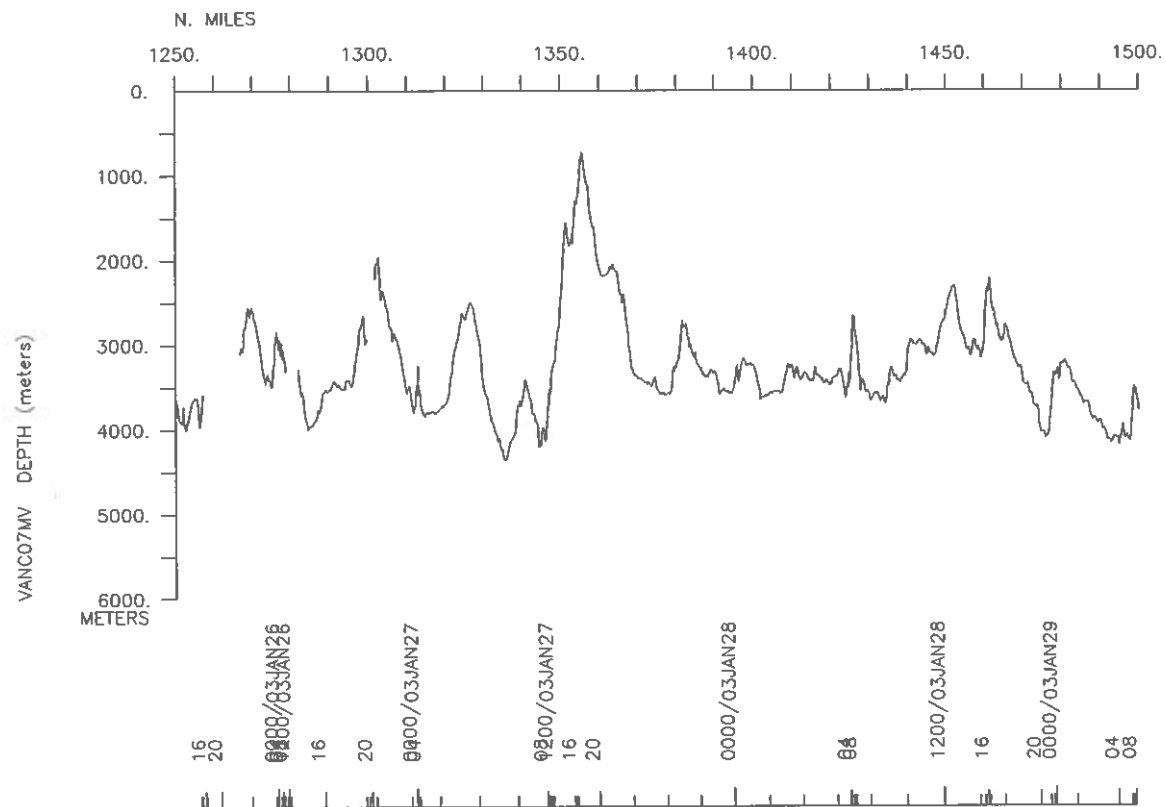
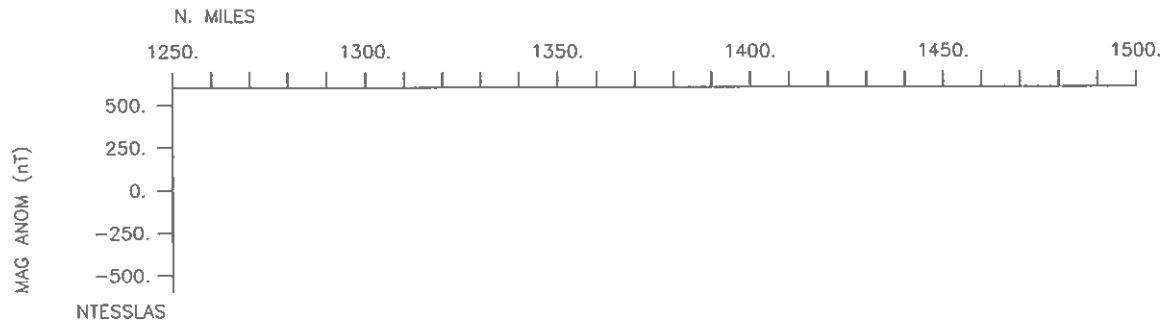
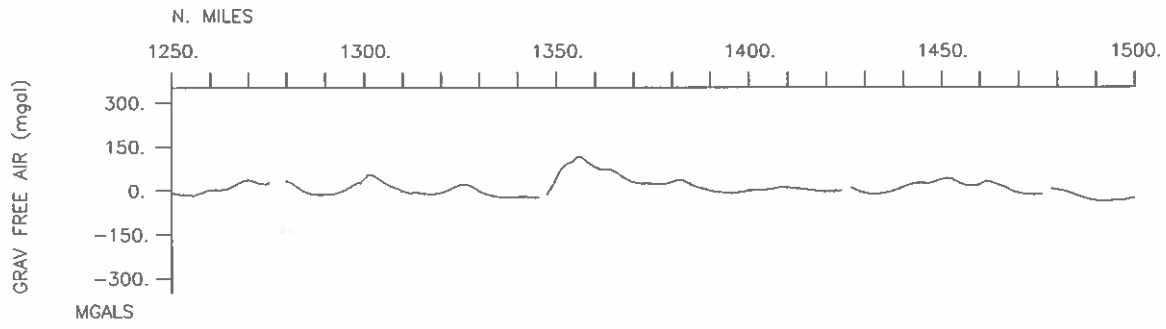


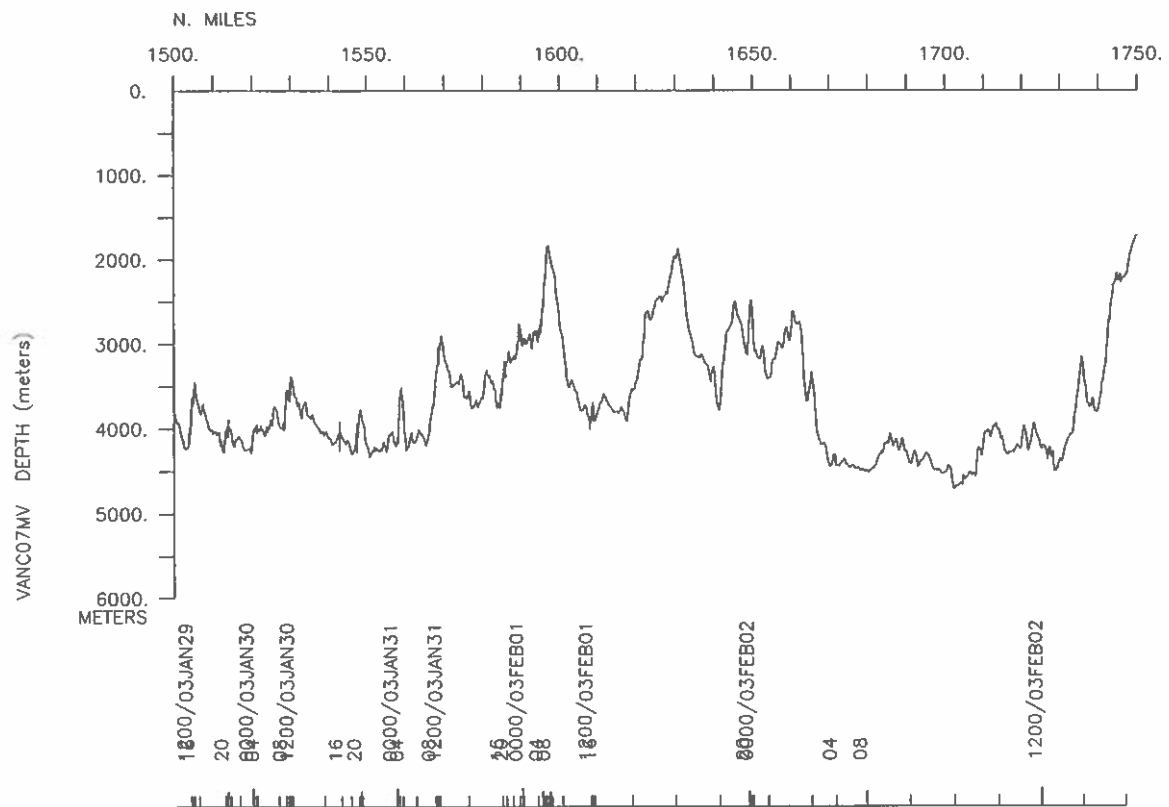
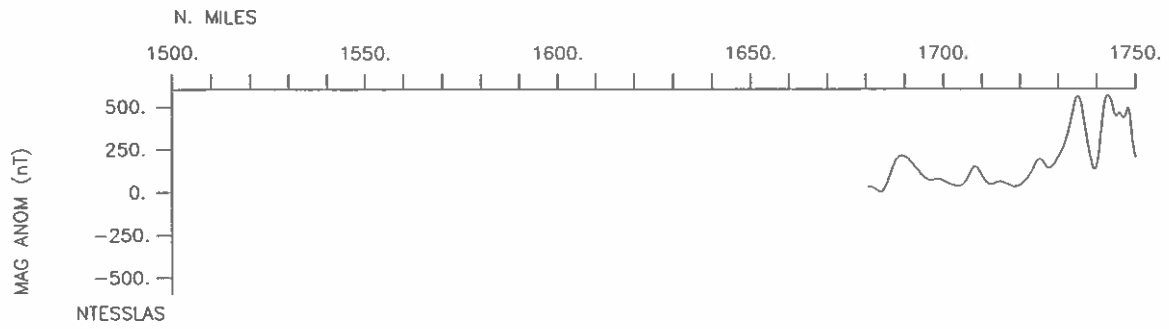
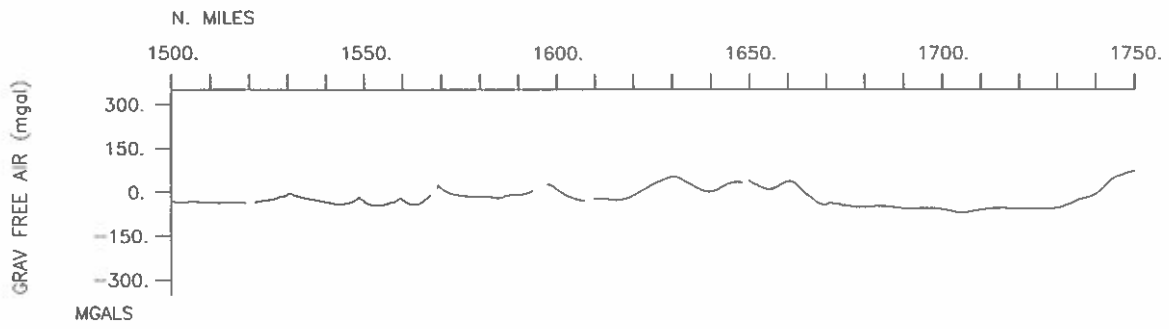


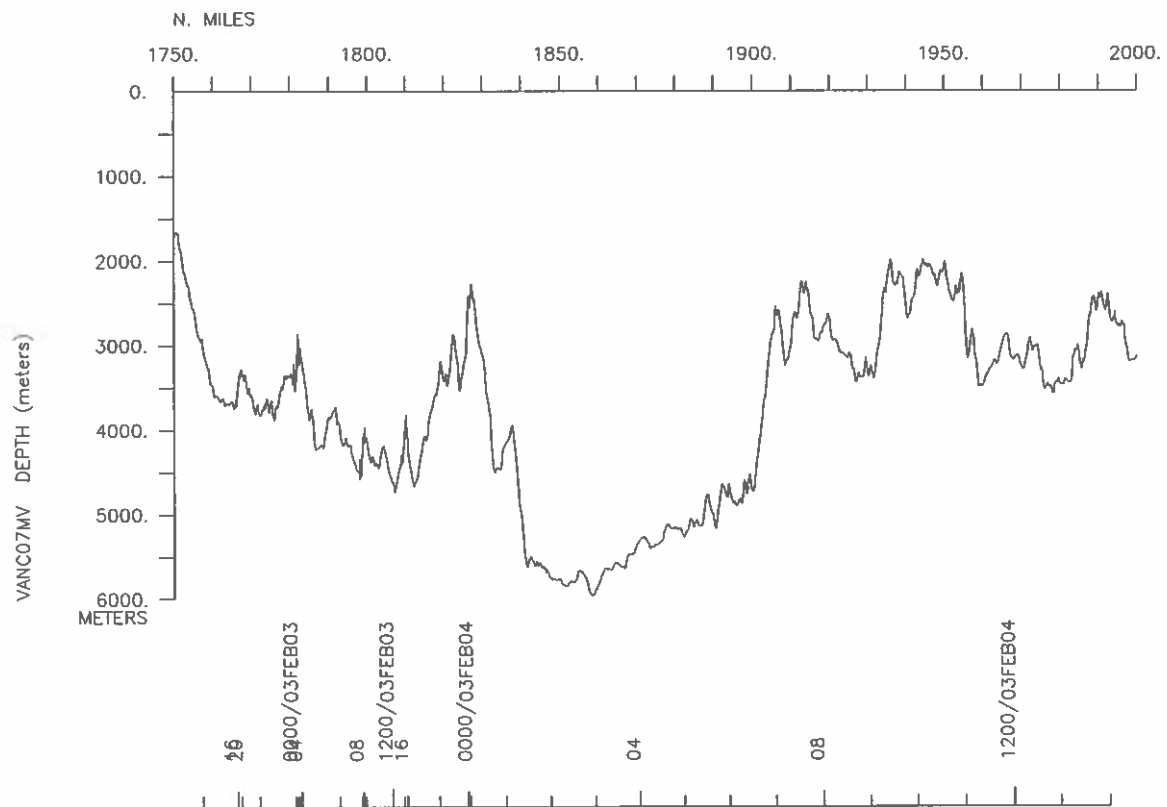
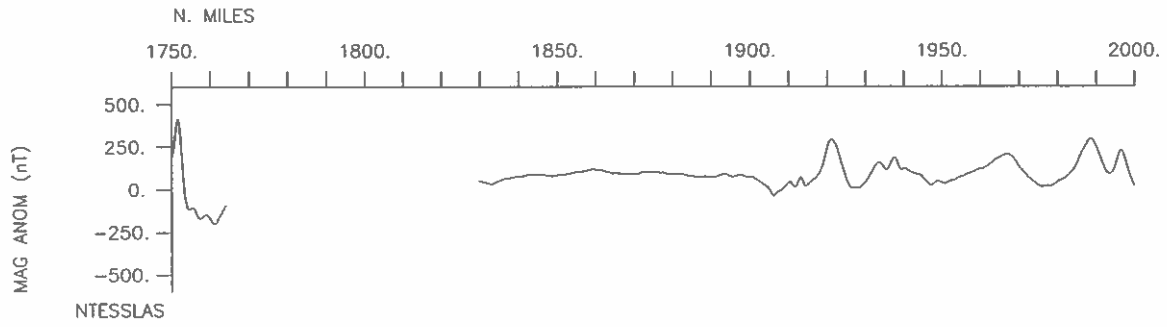
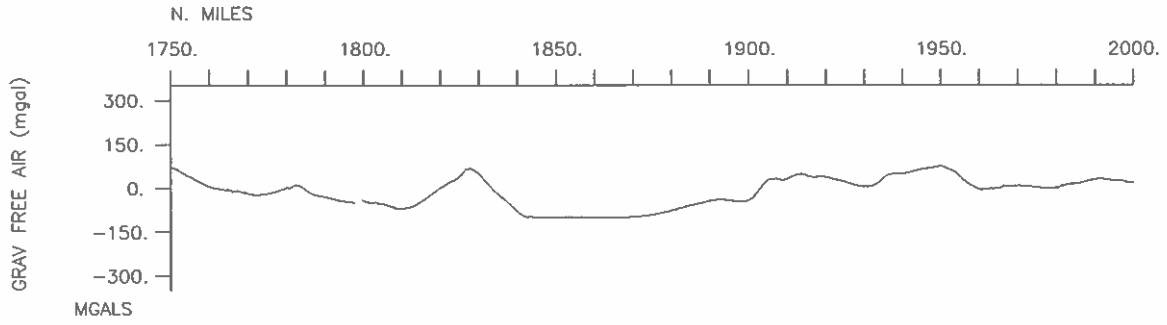


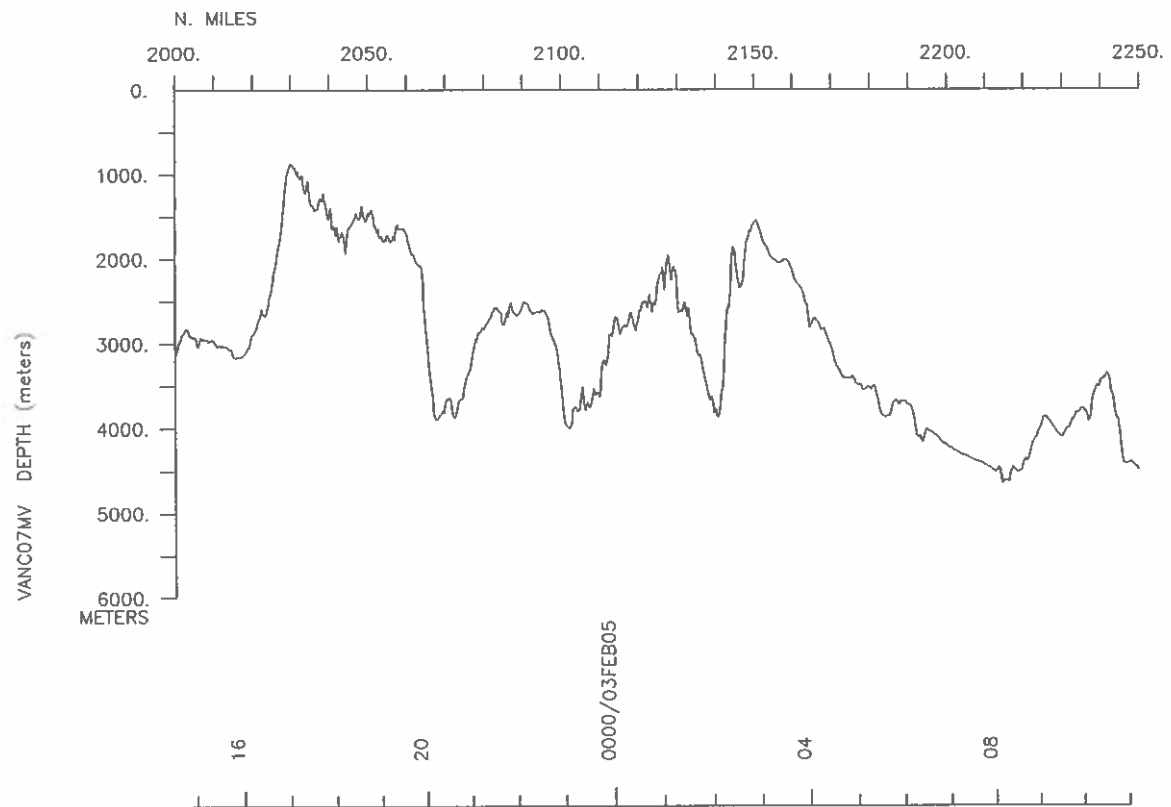
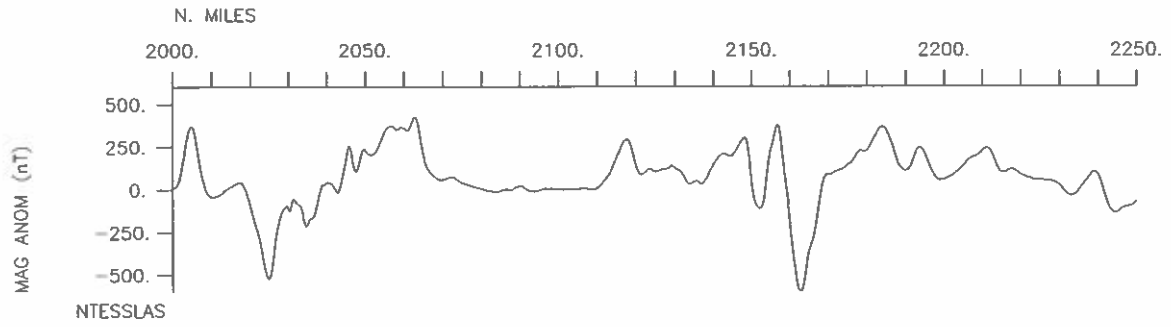
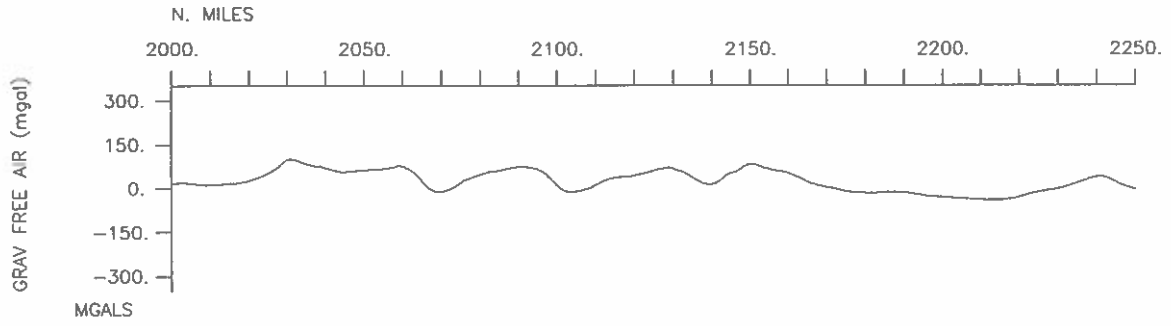


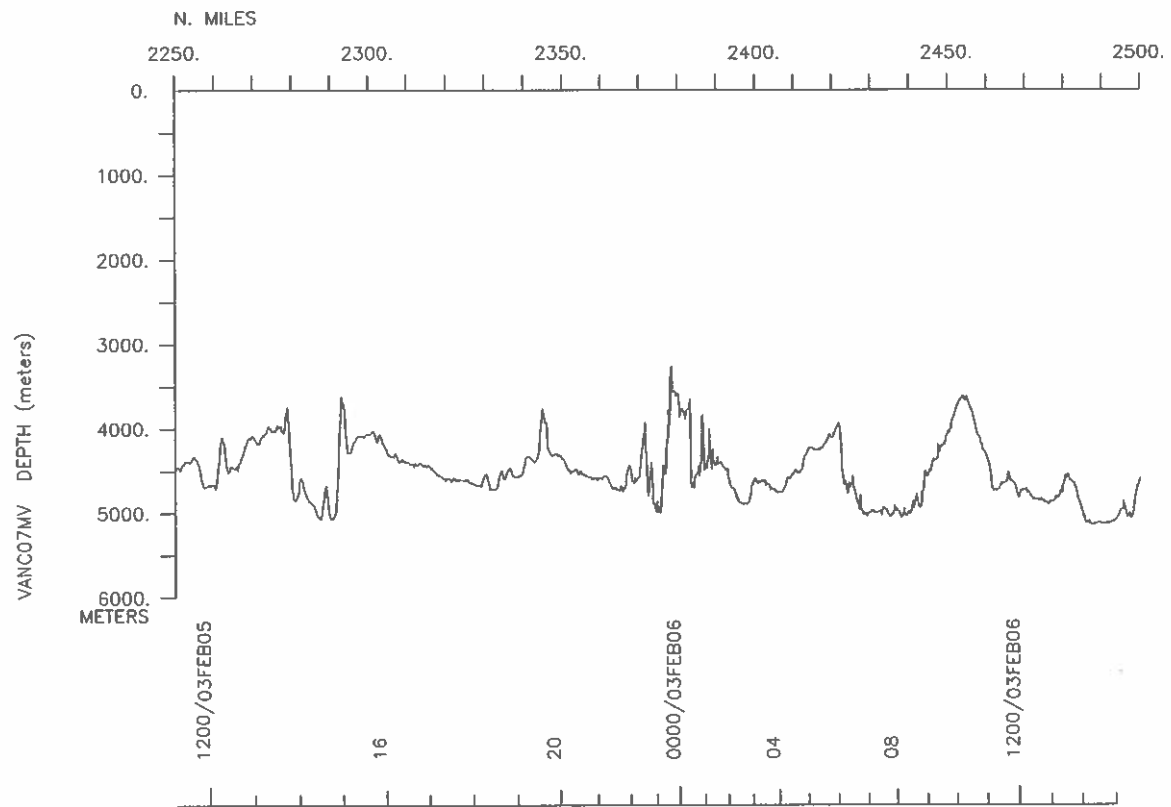
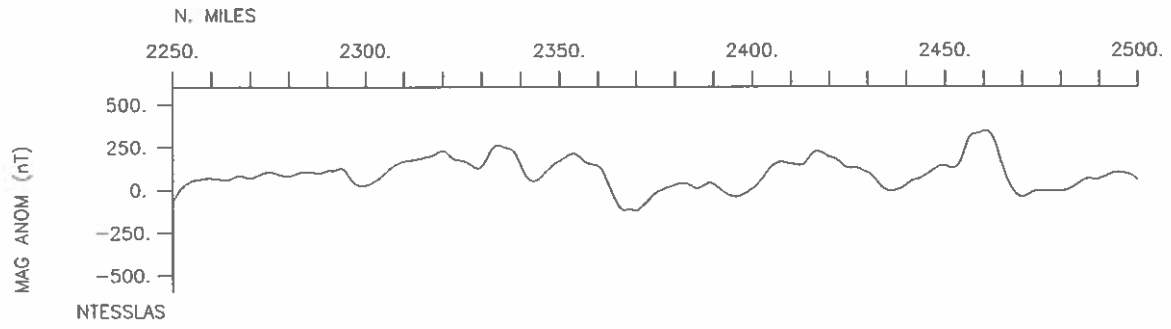
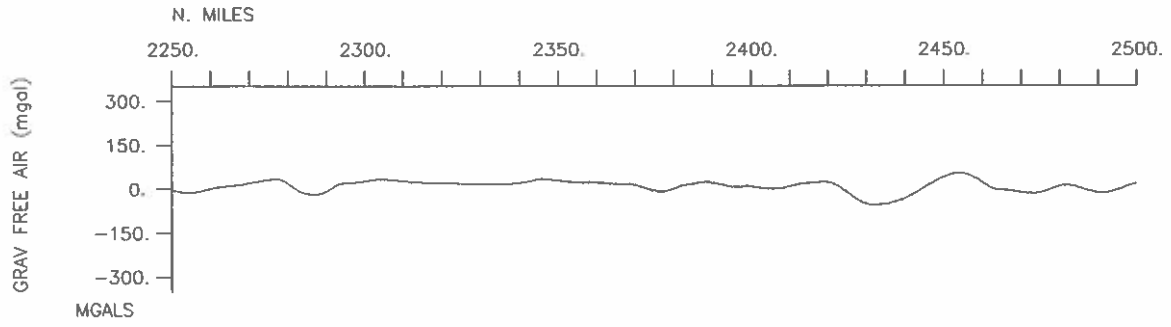


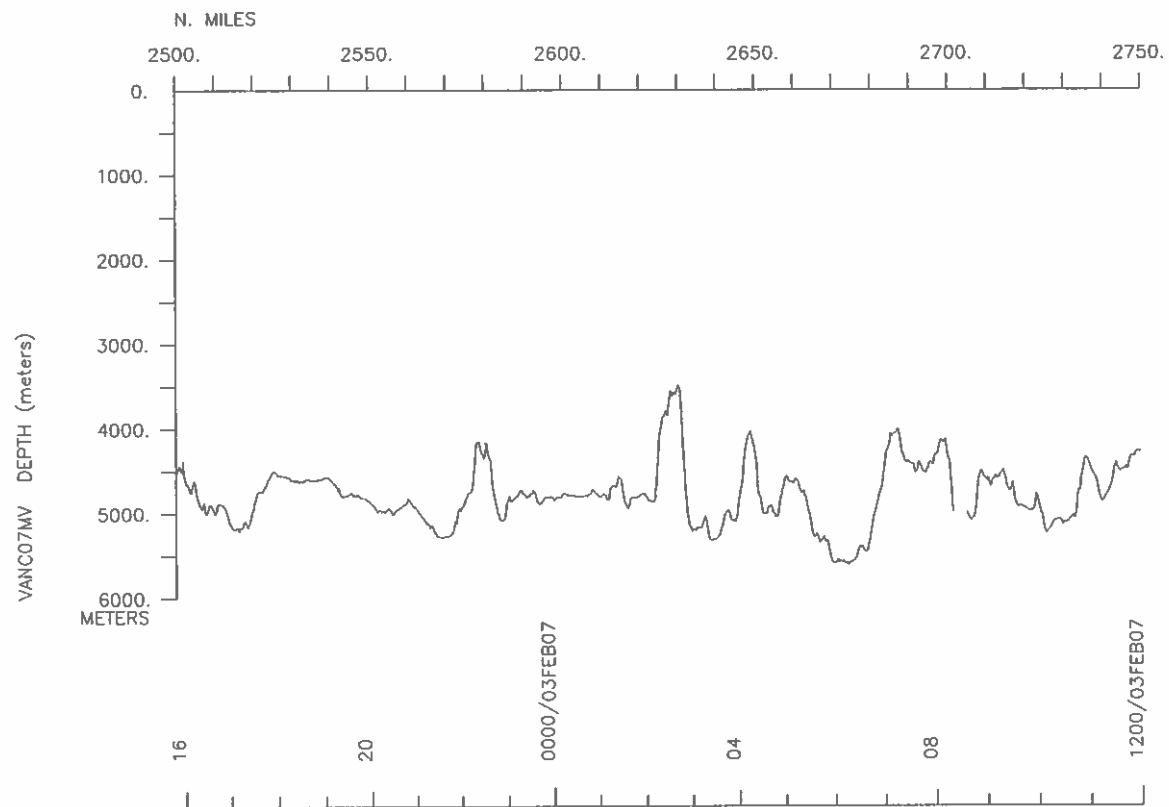
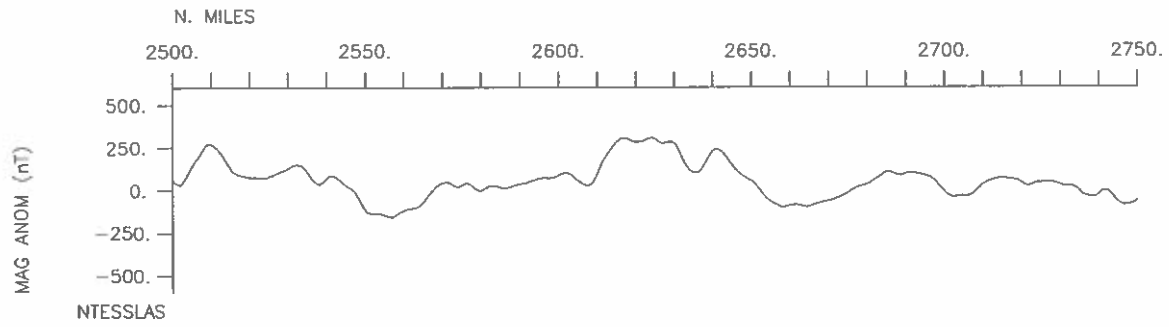
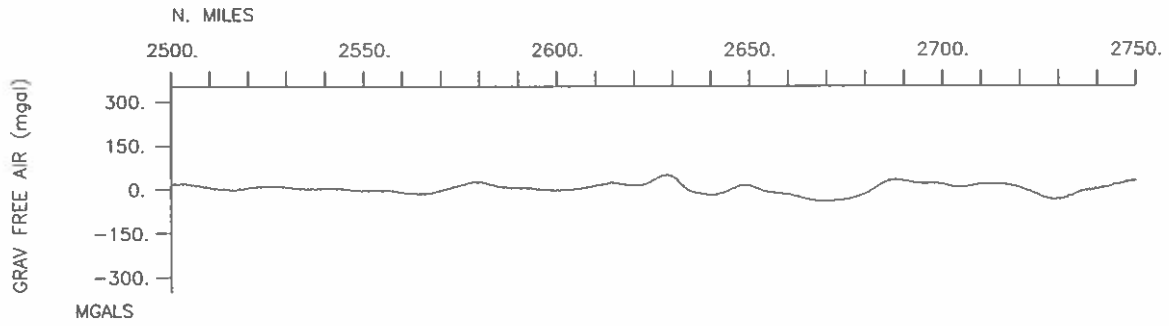


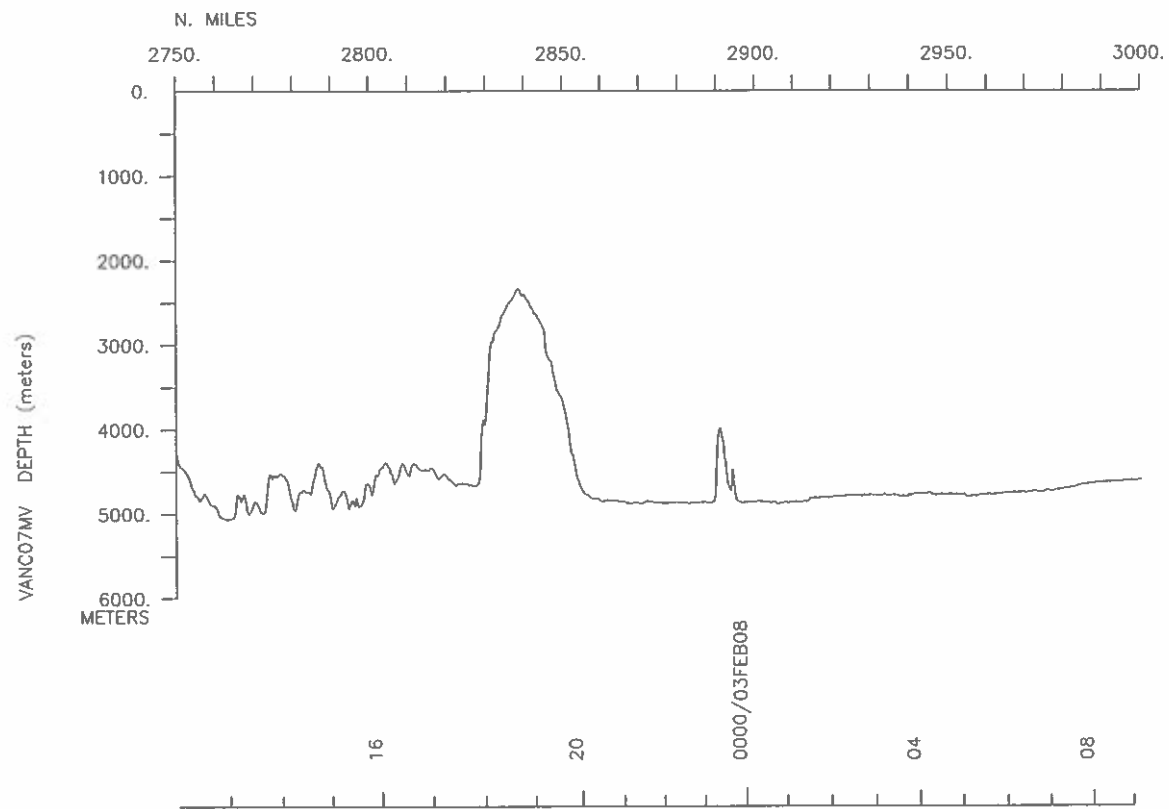
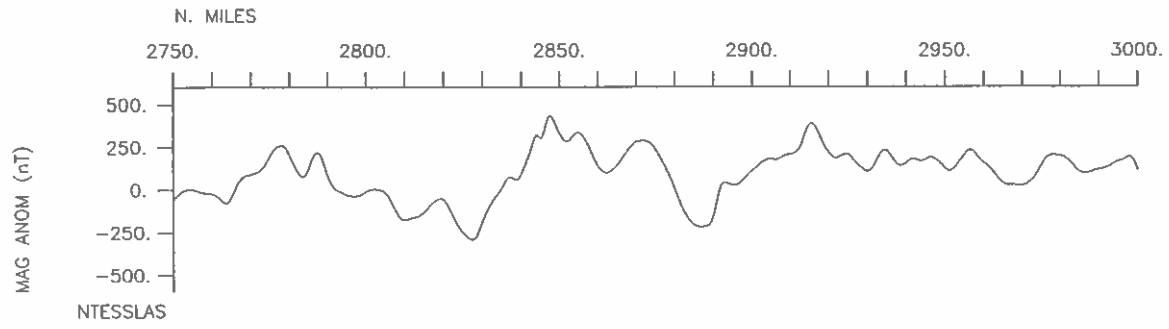
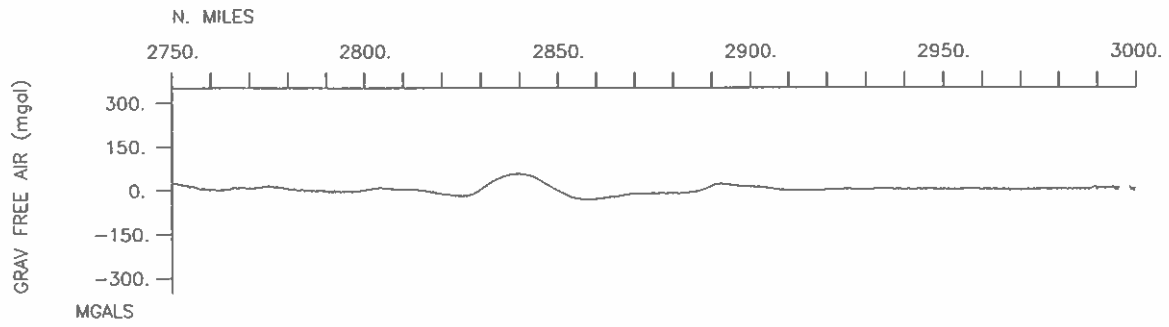


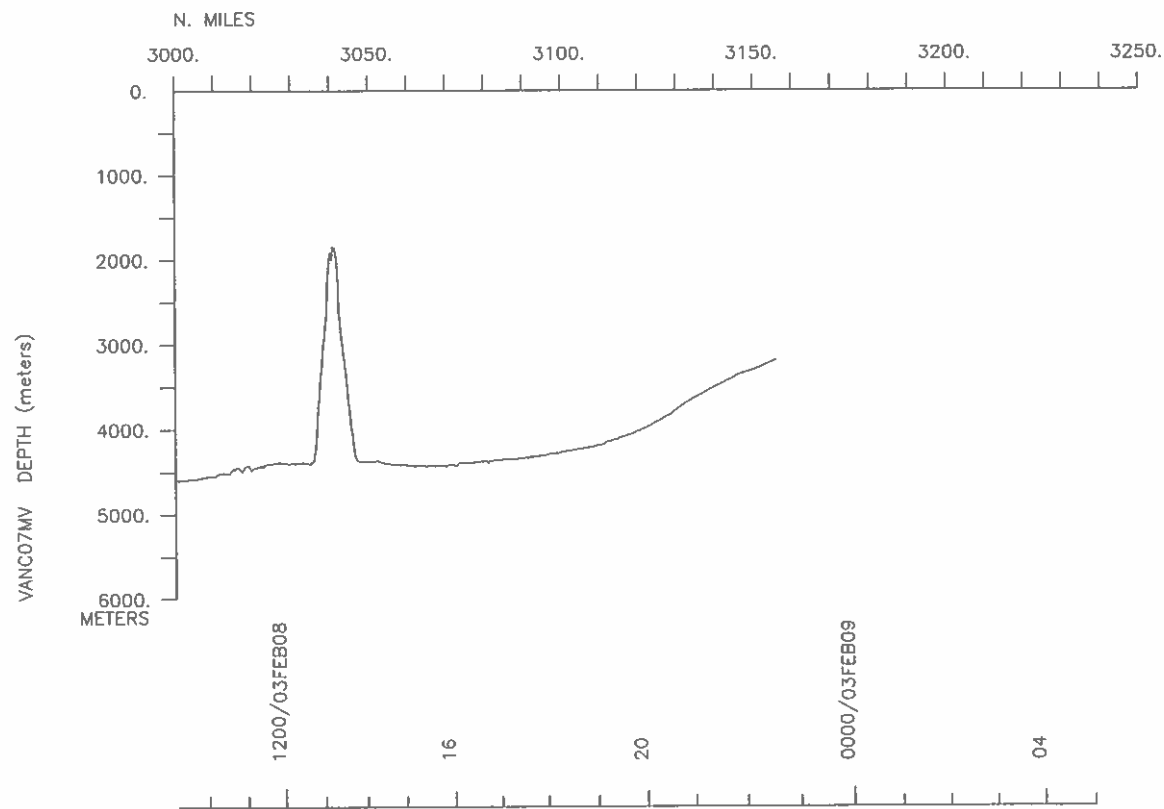
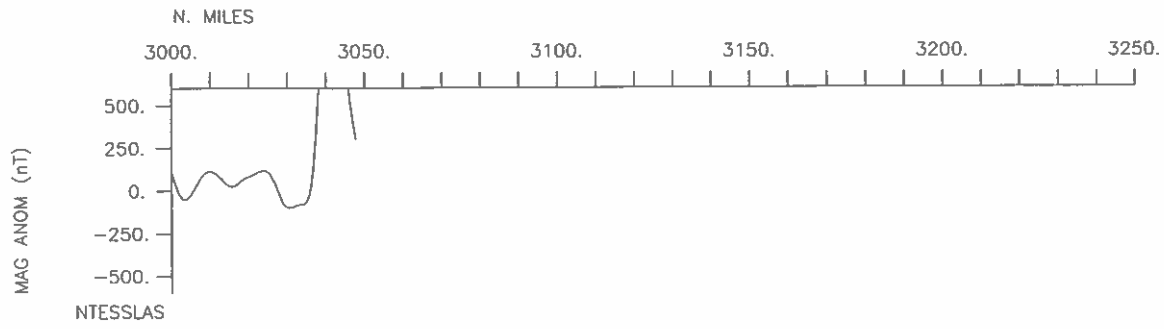
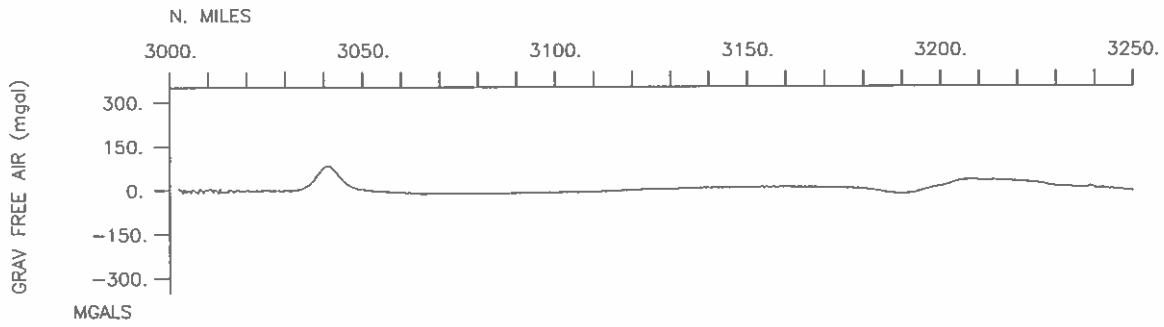


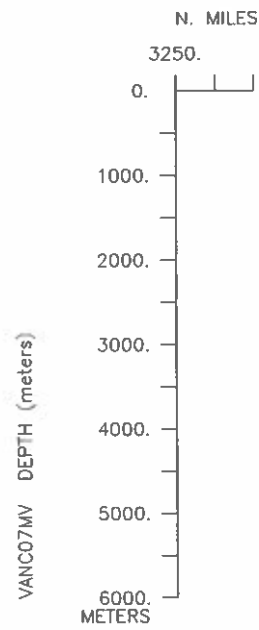
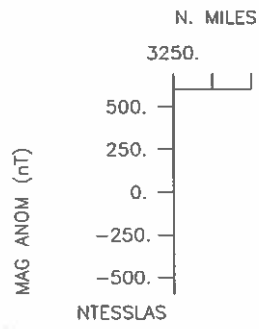
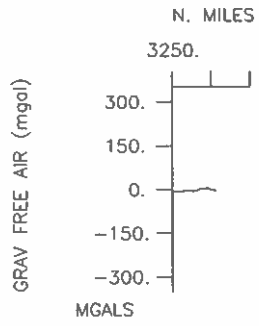












08

S.I.O. Sample Index

Vancouver Expedition

Leg 7

(VANC07MV)

R/V Melville

(Issued April 2003)

PORTS:

Cape Town, South Africa (19 January 2003)
to
Cape Town, South Africa (9 February 2003)

Chief Scientist : Henry Dick
Woods Hole Oceanographic Institution

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

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

GDC Cruise ID# 299

**** Ports ****

```
1030 190103 0 LGPT B Cape Town S.Africa GDC 33-54.00S 18-26.00E f VANC07MV
0830 090203 0 LGPT E Cape Town S.Africa GDC 33-54.00S 18-25.00E f VANC07MV
```

**** Personnel ****

```
# *****NAME***** *****TITLE***** *****AFFILIATION***** **CRID**
#-----
PECS WHOI Dick, H. Chief Scientist Woods Hole VANC07MV
PESP WHOI Lin, J. Co-Chief Sci. Woods Hole VANC07MV
PESP WHOI Bach, W. Scientist Woods Hole VANC07MV
PESP WHOI Bryan, W. Scientist Woods Hole VANC07MV
PEST SIX Coe, N. Grad student Univ. of Cape Town VANC07MV
PECT STS Davis, G. Computer Tech Scripps Institution VANC07MV
PEST SIX Eick, B. Grad student U. of Stellenbosch VANC07MV
PERT STS Engstrom, T. Resident Tech Scripps Institution VANC07MV
PESP SIX Grindlay, N. Scientist UNC Wilmington VANC07MV
PESP JPN Kumagai, H. Scientist JAMSTEC VANC07MV
PERT STS Pillard, E. Resident Tech Scripps Institution VANC07MV
PEST SIX Razak, N. Grad student Univ. of Cape Town VANC07MV
PESP WHOI Salters, V. Scientist Woods Hole VANC07MV
PEST SIX Smit, A. Grad student Univ. of Cape Town VANC07MV
PEST WHOI Stansish, J. Grad student Woods Hole VANC07MV
PEST SIX Stewert, H. Grad student Univ. of Cape Town VANC07MV
PEST SIX Van Ark, E. Grad student Woods Hole VANC07MV
PEST WHOI Warren, J. Grad student Woods Hole VANC07MV
```

**** 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 DDMYY 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 ****

```
0828 200103 0 LBUW B Underway Watch Log STS 37-15.11S 18-55.51E g VANC07MV
1445 080203 0 LBUW E Underway Watch Log STS 36-57.58S 16-56.25E g VANC07MV
```

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

```
1441 190103 0 MBSR B v.beam&sidescan GDC 34-23.53S 18-17.47E g VANC07MV
2235 080203 0 MBSR E v.beam&sidescan GDC 35-23.66S 17-38.50E g VANC07MV
```

**** Digital Gravity ****

```
1030 190103 0 GVDD B Digital gravity GDC 33-54.97S 18-26.99E g VANC07MV
0830 090203 0 GVDD E Digital gravity GDC 33-54.22S 18-25.41E g VANC07MV
```

#GMT	DDMMYY	SAMP	B	SAMPLE	DISP				p	CRUISE
#TIME	DATE	TZ	CODE	E IDENTIFIER	CODE	LATITUDE	LONGITUDE		c	LEG-SHIP
#	-----	---	---	-----	---	-----	-----	-----	---	-----
*** Digital Magnetics (Earth Total Field) ***										
0828	200103	0	MGDD	B Digital magnetics	GDC	37-15.11S	18-55.51E	g		VANC07MV
1410	080203	0	MGDD	E Digital magnetics	GDC	37-02.92S	16-53.82E	g		VANC07MV
*** Integrated Meteorological Acquisition System ***										
1030	190103	0	IMET	B Weather Measurements	GDC	33-54.97S	18-26.99E	g		VANC07MV
0830	090203	0	IMET	E Weather Measurements	GDC	33-54.22S	18-25.41E	g		VANC07MV
*** Acoustic Doppler Current Profiler ***										
1030	190103	0	ADCP	B 300khz Current Meas.	GDC	33-54.97S	18-26.99E	g		VANC07MV
0830	090203	0	ADCP	E 300khz Current Meas.	GDC	33-54.22S	18-25.41E	g		VANC07MV
*** Dredges ***										
0619	240103	0	DRRO	X Dredge 66a with MAPR	WHOI	53-16.65S	23-16.05E	g		VANC07MV
1051	240103	0	DRRO	B Dredge 66b with MAPR	WHOI	53-16.63S	23-16.15E	g		VANC07MV
1257	240103	0	DRRO	E Dr. 66b 3861-3200m	WHOI	53-17.05S	23-15.09E	g		VANC07MV
1743	240103	0	DRRO	B Dredge 67 with MAPR	WHOI	53-17.12S	23-01.18E	g		VANC07MV
1915	240103	0	DRRO	E Dr. 67 3756-3206m	WHOI	53-17.40S	23-00.79E	g		VANC07MV
0021	250103	0	DRRO	B Dredge 68 with MAPR	WHOI	53-13.64S	22-47.47E	g		VANC07MV
0156	250103	0	DRRO	E Dr. 68 3323-2962m	WHOI	53-14.15S	22-46.95E	g		VANC07MV
0659	250103	0	DRRO	B Dredge 69 with MAPR	WHOI	53-08.15S	22-26.97E	g		VANC07MV
0930	250103	0	DRRO	E Dr. 69 3864-2964m	WHOI	53-08.71S	22-26.40E	g		VANC07MV
1529	250103	0	DRRO	B Dredge 70 with MAPR	WHOI	53-02.72S	21-58.61E	g		VANC07MV
1741	250103	0	DRRO	E Dr. 70 3869-3428m	WHOI	53-03.12S	21-57.96E	g		VANC07MV
2335	250103	0	DRRO	X Dredge 71a with MAPR	WHOI	53-05.54S	21-28.34E	g		VANC07MV
1158	260103	0	DRRO	B Dredge 71b with MAPR	WHOI	53-05.48S	21-28.36E	g		VANC07MV
1343	260103	0	DRRO	E Dr. 71b 3281-2961m	WHOI	53-05.75S	21-27.68E	g		VANC07MV
1840	260103	0	DRRO	B Dredge 72 with MAPR	WHOI	53-00.40S	20-56.10E	g		VANC07MV
2052	260103	0	DRRO	E Dr. 72 2949-2334m	WHOI	53-00.93S	20-55.90E	g		VANC07MV
0112	270103	0	DRRO	B Dredge 73 with MAPR	WHOI	52-58.67S	20-41.48E	g		VANC07MV
0249	270103	0	DRRO	E Dr. 73 3797-3483m	WHOI	52-59.35S	20-41.00E	g		VANC07MV
0948	270103	0	DRRO	B Dredge 74 with MAPR	WHOI	52-54.22S	19-46.96E	g		VANC07MV
1203	270103	0	DRRO	E Dr. 74 4130-3575m	WHOI	52-54.55S	19-46.16E	g		VANC07MV
1557	270103	0	DRRO	B Dredge 75 with MAPR	WHOI	52-59.70S	19-46.48E	g		VANC07MV
1759	270103	0	DRRO	E Dr. 75 1731-1328m	WHOI	52-59.85S	19-45.61E	g		VANC07MV
0342	280103	0	DRRO	B Dredge 76 with MAPR	WHOI	52-37.85S	17-55.30E	g		VANC07MV
0807	280103	0	DRRO	E Dr. 76 3424-3697m	WHOI	52-38.30S	17-54.40E	g		VANC07MV
1507	280103	0	DRRO	B Dredge 77 with MAPR	WHOI	52-25.32S	17-03.86E	g		VANC07MV
1715	280103	0	DRRO	E Dr. 77 3063-2332m	WHOI	52-25.70S	17-03.10E	g		VANC07MV
2228	280103	0	DRRO	B Dredge 78 with MAPR	WHOI	52-22.85S	16-38.02E	g		VANC07MV
0050	290103	0	DRRO	E Dr. 78 3901-3667m	WHOI	52-23.65S	16-37.00E	g		VANC07MV

#	GMT	DDMMYY	SAMP	B	SAMPLE	DISP	LATITUDE	LONGITUDE	p	CRUISE
#	TIME	DATE	TZ	CODE	E IDENTIFIER	CODE			c	LEG-SHIP
0637	290103	0	DRRO	B	Dredge 79 with MAPR	WHOI	52-16.83S	16-07.37E	g	VANC07MV
0826	290103	0	DRRO	E	Dr. 79 4110-4151m	WHOI	52-17.30S	16-06.60E	g	VANC07MV
1304	290103	0	DRRO	X	Dredge 80 with MAPR	WHOI	52-13.95S	16-00.30E	g	VANC07MV
1940	290103	0	DRRO	X	Dredge 81 with MAPR	WHOI	52-13.68S	15-47.38E	g	VANC07MV
0122	300103	0	DRRO	B	Dredge 82 with MAPR	WHOI	52-12.16S	15-39.40E	g	VANC07MV
0323	300103	0	DRRO	E	Dr. 82 4242-3943m	WHOI	52-11.48S	15-40.12E	g	VANC07MV
0815	300103	0	DRRO	B	Dredge 83 with MAPR	WHOI	52-10.38S	15-50.23E	g	VANC07MV
1133	300103	0	DRRO	E	Dr. 83 3976-3591m	WHOI	52-09.21S	15-50.44E	g	VANC07MV
1941	300103	0	DRRO	B	Dredge 84 with MAPR	WHOI	52-09.36S	15-25.68E	g	VANC07MV
2128	300103	0	DRRO	E	Dr. 84 4038-3829m	WHOI	52-08.85S	15-25.30E	g	VANC07MV
0215	310103	0	DRRO	B	Dredge 85 with MAPR	WHOI	52-15.23S	15-13.95E	g	VANC07MV
0407	310103	0	DRRO	E	Dr. 85 4190-3547m	WHOI	52-15.90S	15-13.95E	g	VANC07MV
0829	310103	0	DRRO	B	Dredge 86 with MAPR	WHOI	52-08.59S	15-09.39E	g	VANC07MV
1152	310103	0	DRRO	E	Dr. 86 3738-3128m	WHOI	52-07.51S	15-09.12E	g	VANC07MV
1647	310103	0	DRRO	B	Dredge 87 with MAPR	WHOI	52-14.10S	14-47.35E	g	VANC07MV
1914	310103	0	DRRO	E	Dr. 87 3546-3313m	WHOI	52-14.33S	14-46.53E	g	VANC07MV
2300	310103	0	DRRO	B	Dredge 88 with MAPR	WHOI	52-13.06S	14-42.32E	g	VANC07MV
0106	010203	0	DRRO	E	Dr. 88 2984-2696m	WHOI	52-13.47S	14-41.77E	g	VANC07MV
0550	010203	0	DRRO	B	Dredge 89 with MAPR	WHOI	52-14.82S	14-35.75E	g	VANC07MV
0834	010203	0	DRRO	E	Dr. 89 2439-1837m	WHOI	52-15.47S	14-35.62E	g	VANC07MV
1244	010203	0	DRRO	B	Dredge 90 with MAPR	WHOI	52-10.62S	14-21.12E	g	VANC07MV
1404	010203	0	DRRO	E	Dr. 90 3973-3839m	WHOI	52-10.68S	14-20.16E	g	VANC07MV
2119	010203	0	DRRO	B	Dredge with MAPR	WHOI	52-05.57S	13-15.98E	g	VANC07MV
2325	010203	0	DRRO	E	Dr. MAPR 3078-2514m	WHOI	52-05.00S	13-15.70E	g	VANC07MV
1801	020203	0	DRRO	B	Dredge 92 with MAPR	WHOI	52-51.31S	10-53.22E	g	VANC07MV
1957	020203	0	DRRO	E	Dr. 92 3700-3341m	WHOI	52-51.40S	10-52.20E	g	VANC07MV
0101	030203	0	DRRO	B	Dredge 93 with MAPR	WHOI	52-58.80S	10-32.84E	g	VANC07MV
0237	030203	0	DRRO	E	Dr. 93 3408-3216m	WHOI	52-58.92S	10-32.93E	g	VANC07MV
0743	030203	0	DRRO	B	Dredge 94 with MAPR	WHOI	52-59.35S	10-07.80E	g	VANC07MV
0944	030203	0	DRRO	E	Dr. 94 4482-4043m	WHOI	53-00.20S	10-07.75E	g	VANC07MV
1431	030203	0	DRRO	B	Dredge 95 with MAPR	WHOI	52-53.74S	9-56.40E	g	VANC07MV
1635	030203	0	DRRO	E	Dr. 95 4362-3898m	WHOI	52-53.05S	9-56.30E	g	VANC07MV
2118	030203	0	DRRO	B	Dredge 96 with MAPR	WHOI	53-08.47S	9-58.73E	g	VANC07MV
2244	030203	0	DRRO	E	Dr. 96 3134-2527m	WHOI	53-08.91S	9-58.43E	g	VANC07MV
**** Cores ****										
1536	300103	0	COGV	B	Grav.Core #66 4067m	WHOI	52-12.30S	15-30.70E	g	VANC07MV
**** Conductivity, Temperature, Depth ****										
0302	020203	0	TDCT	B	CTD #1 23 btls	WHOI	52-26.22S	13-18.73E	g	VANC07MV
0630	020203	0	TDCT	E	CTD #1 4250m	WHOI	52-26.22S	13-18.73E	g	VANC07MV
#	End Sample Index									VANC07MV