

*Report and Index of  
Underway Marine Geophysical Data*

**Tui Malila**

**Leg 01**

**(TUIM01MV)**

R/V Melville

(Issued Mar 2005)

**Ports:**

San Diego, CA (30-Dec-2004)

to

Honolulu, HI (25-Jan-2005)

**Chief Scientist:** Gabi Laske  
Scripps Institution of Oceanography  
glaske@ucsd.edu

Computer Tech - Boguslaw Malecki  
Resident Tech - Cambria Colt

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#306*

## **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.

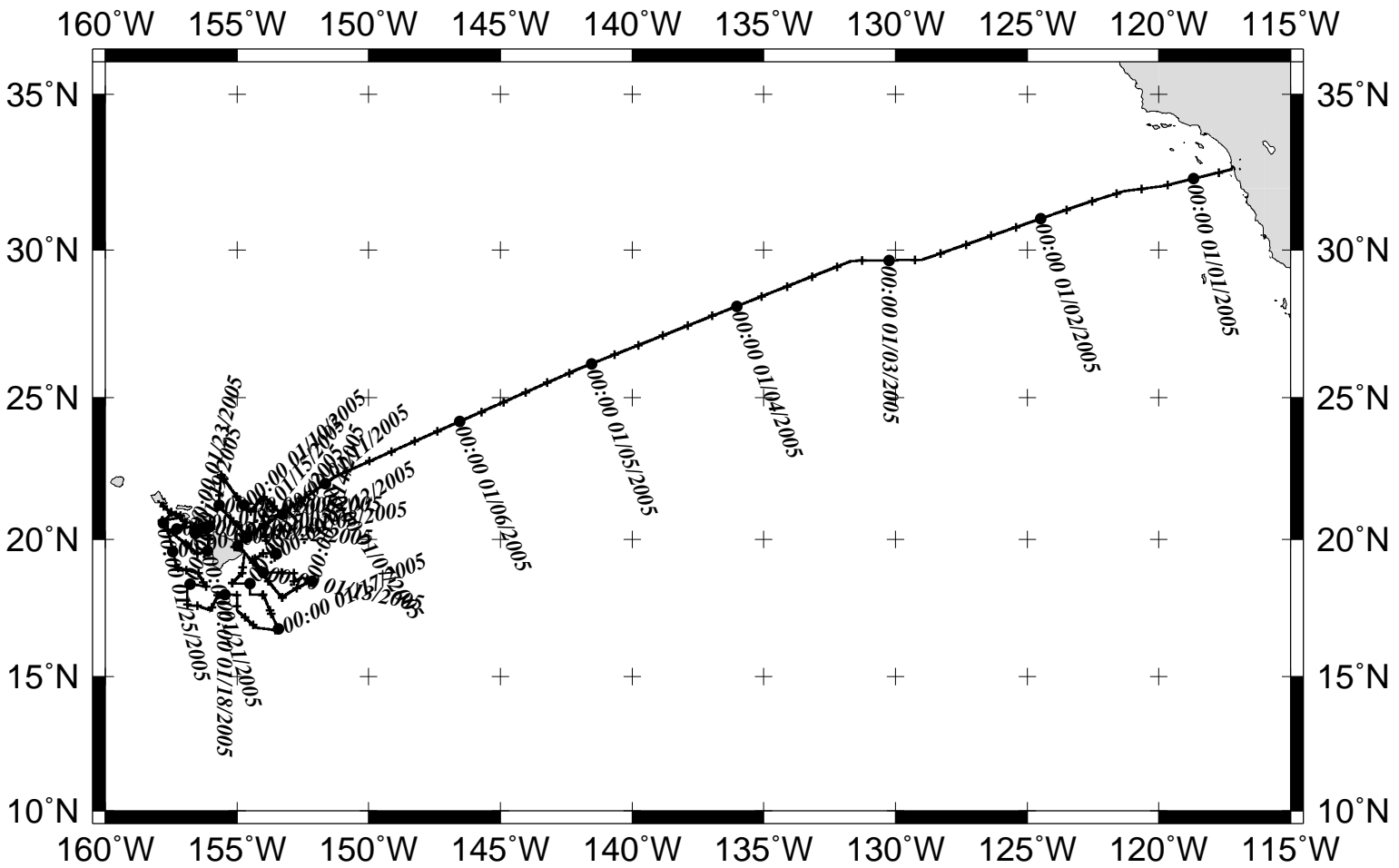
### **Note:**

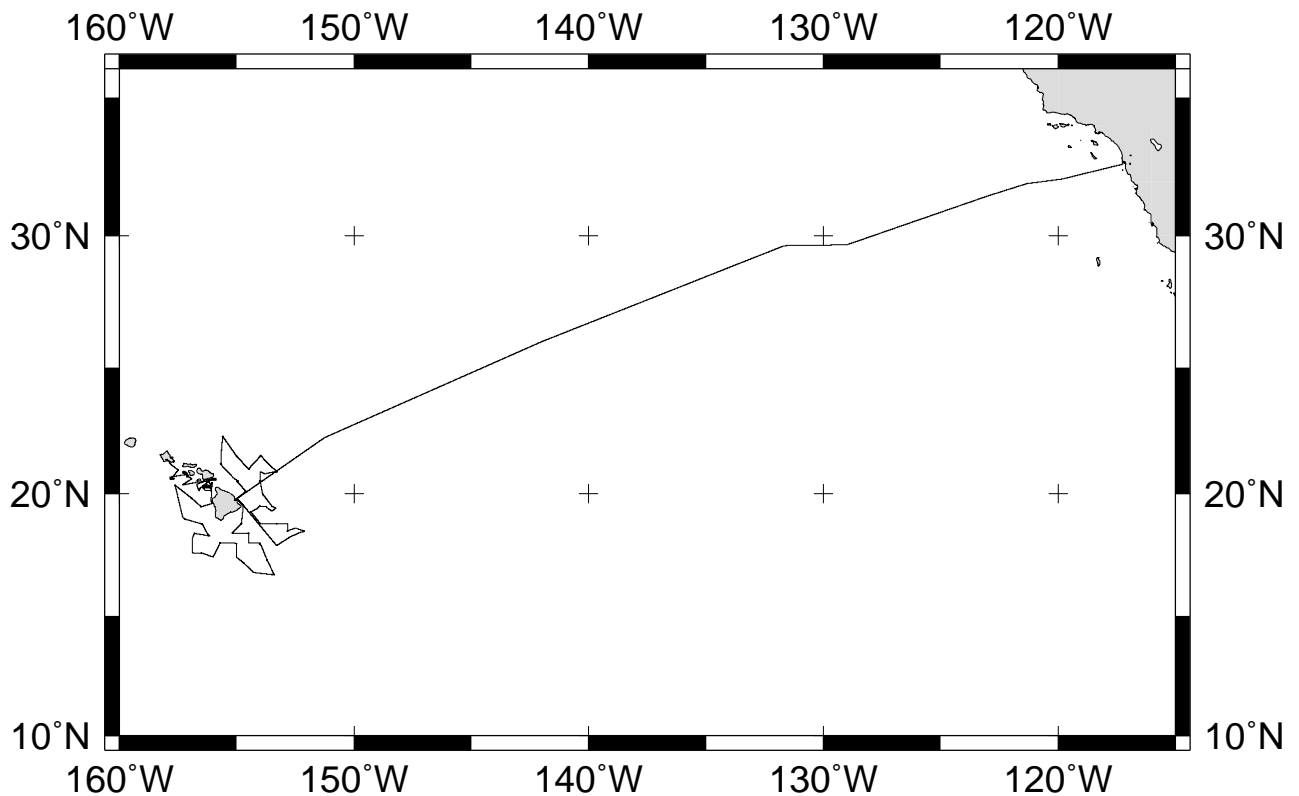
For information on the availability of this current digital data as well as archived digital data contact:

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

Rev 05/2002

# TUIM01MV





**TUI MALILA EXPEDITION LEG 1 (TUIM01MV)**

=====

**CHIEF SCIENTIST: Gabe Laske, Scripps Institution**

**PORTS: San Diego, Calif - Honolulu, Hawaii**

**DATES: 30 December 2004 - 25 January 2005**

**SHIP: R/V Melville**

**TOTAL MILEAGE OF UNDERWAY DATA COLLECTED**

**Cruise-5002 miles**

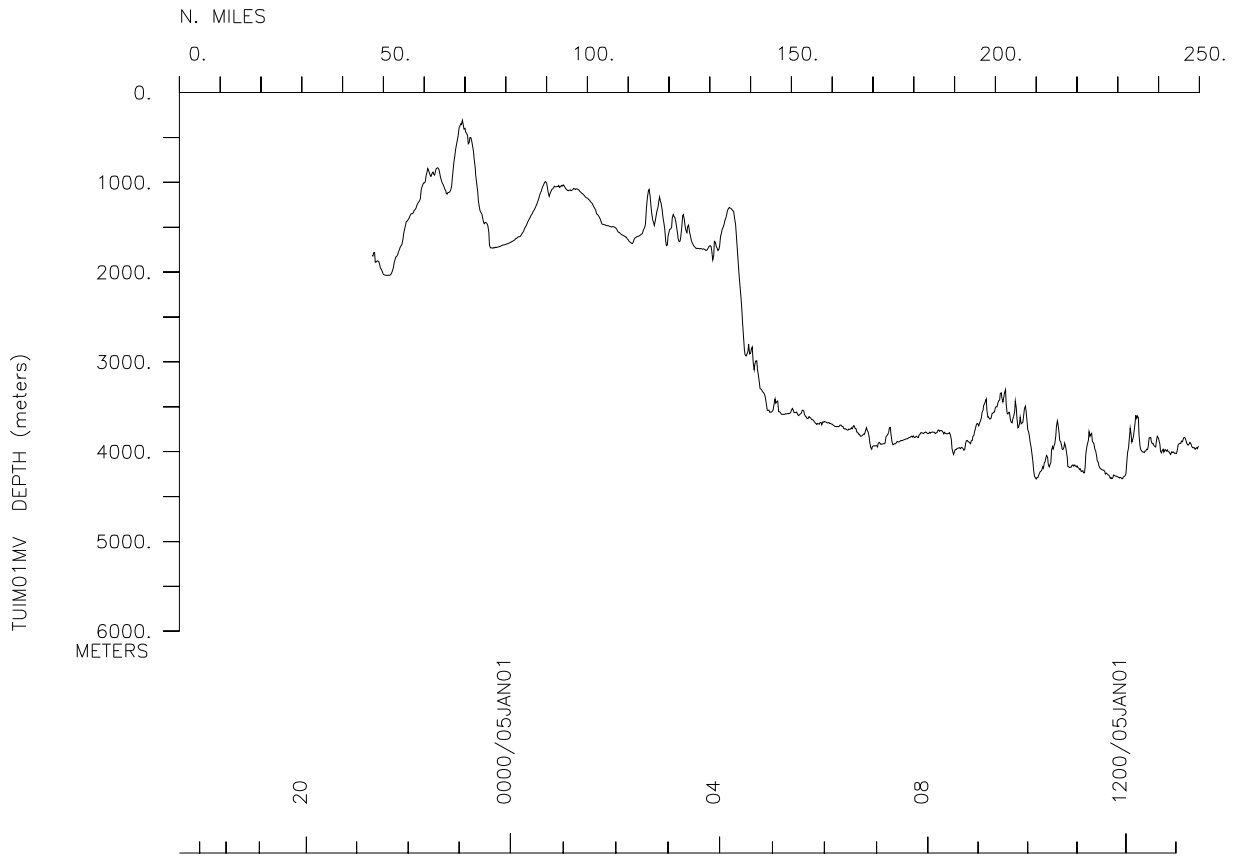
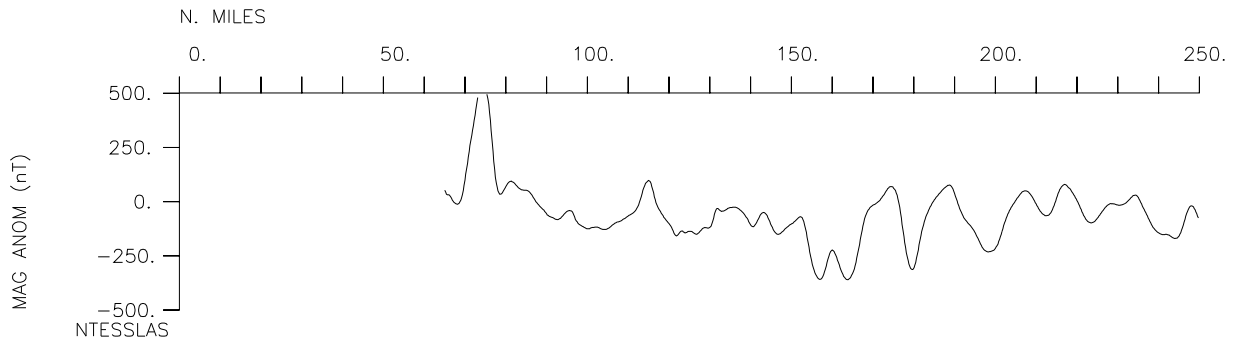
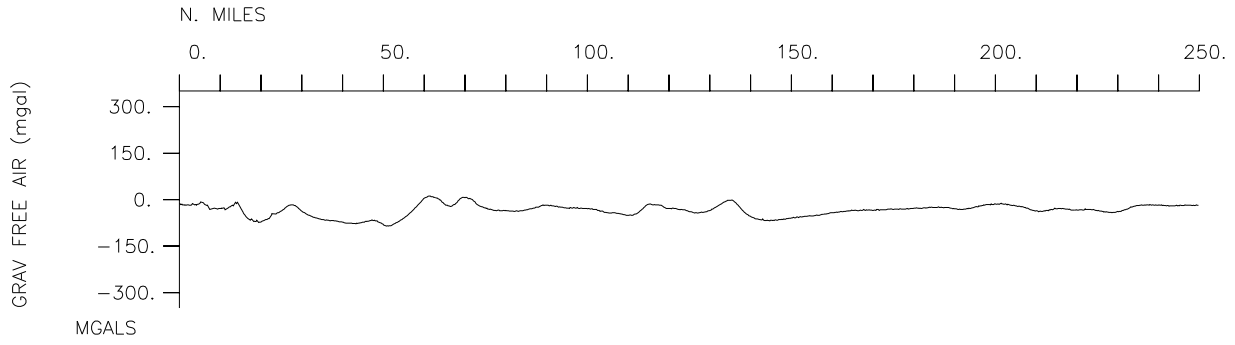
**Magnetics-1626 miles**

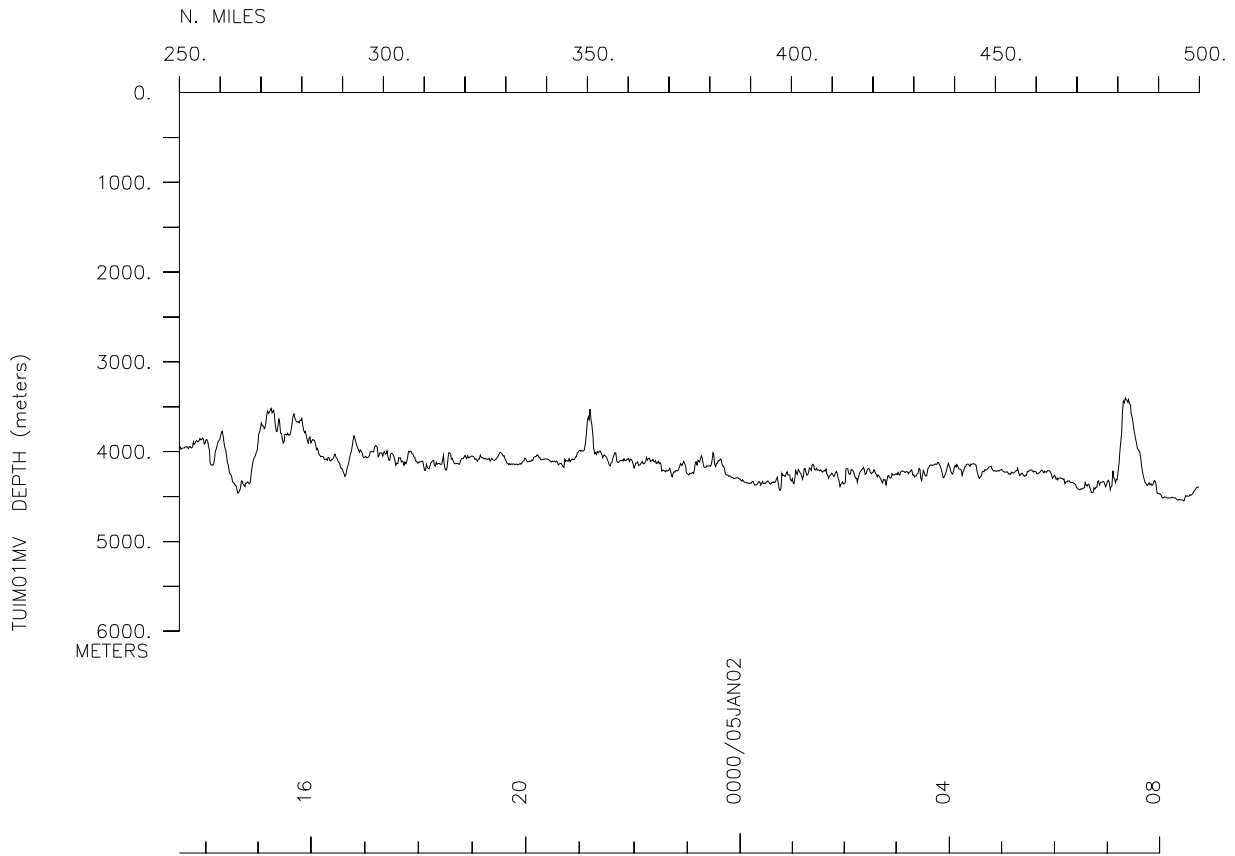
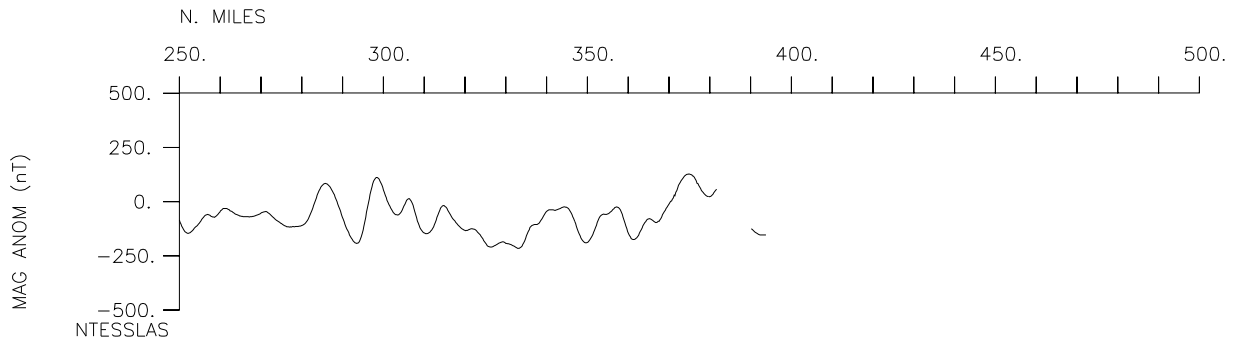
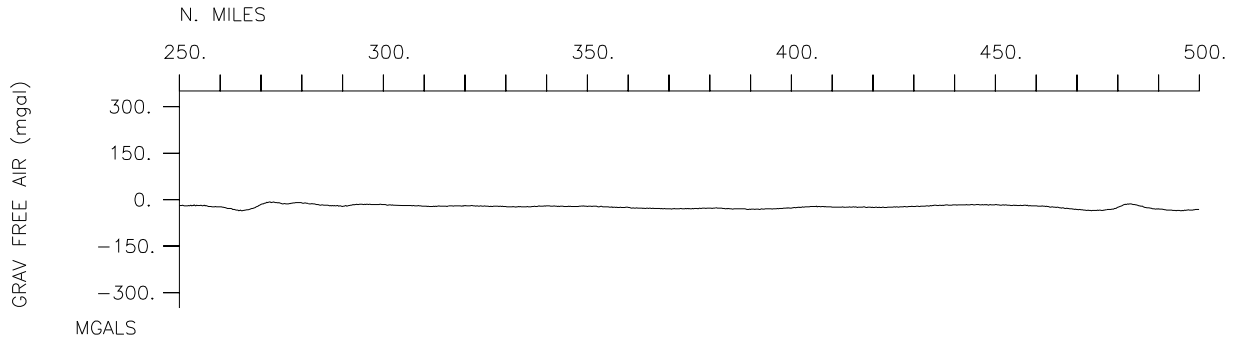
**Bathymetry-4878 miles**

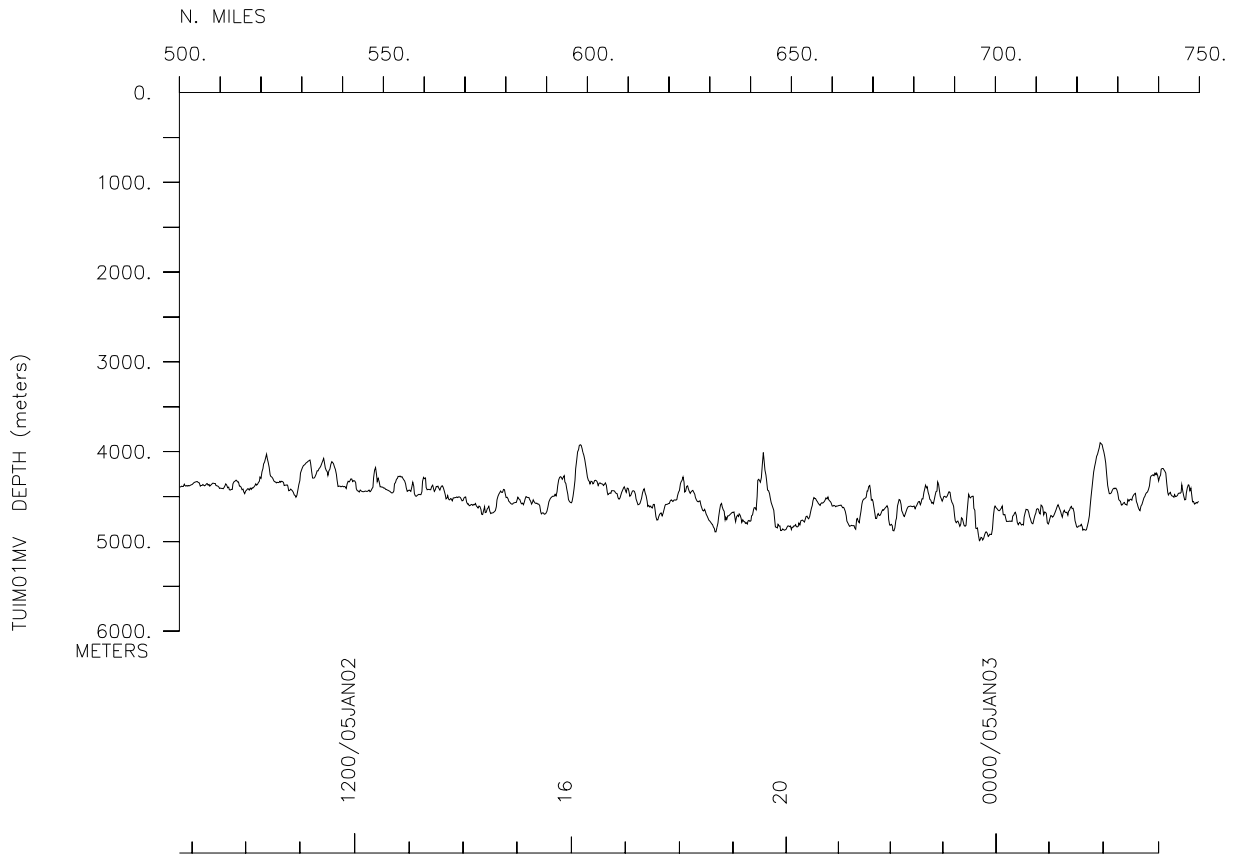
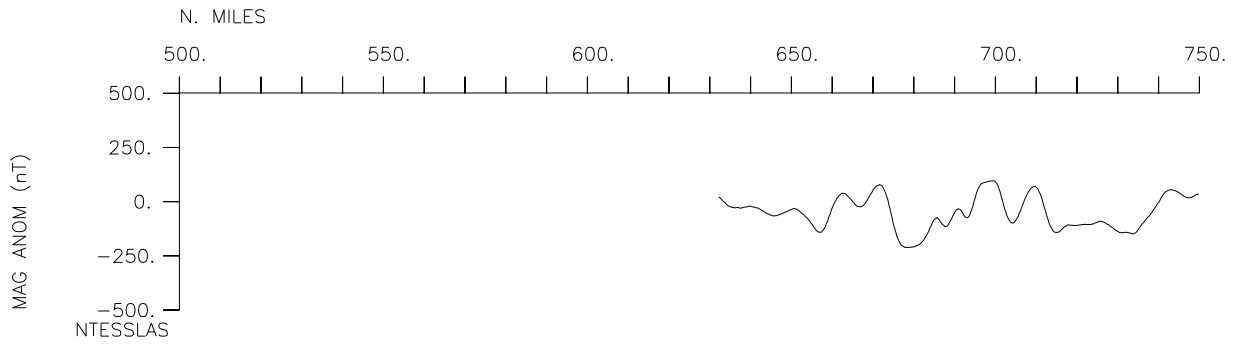
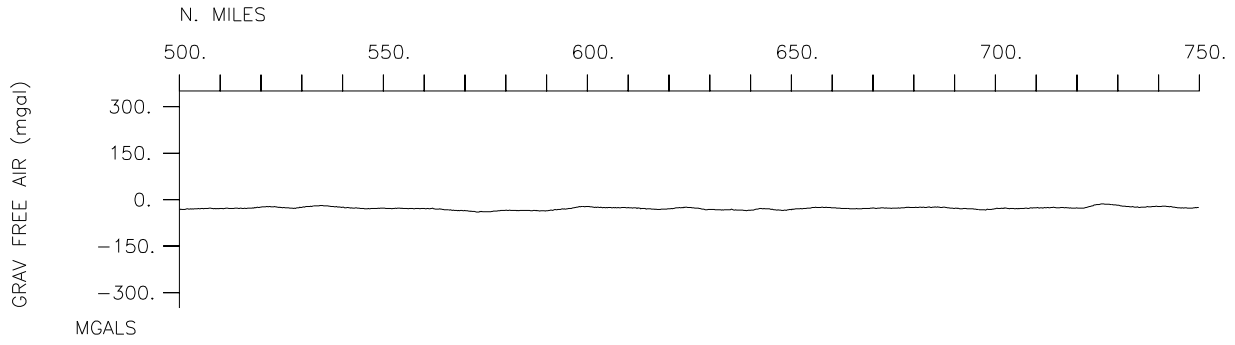
**Seismic Reflection-none collected**

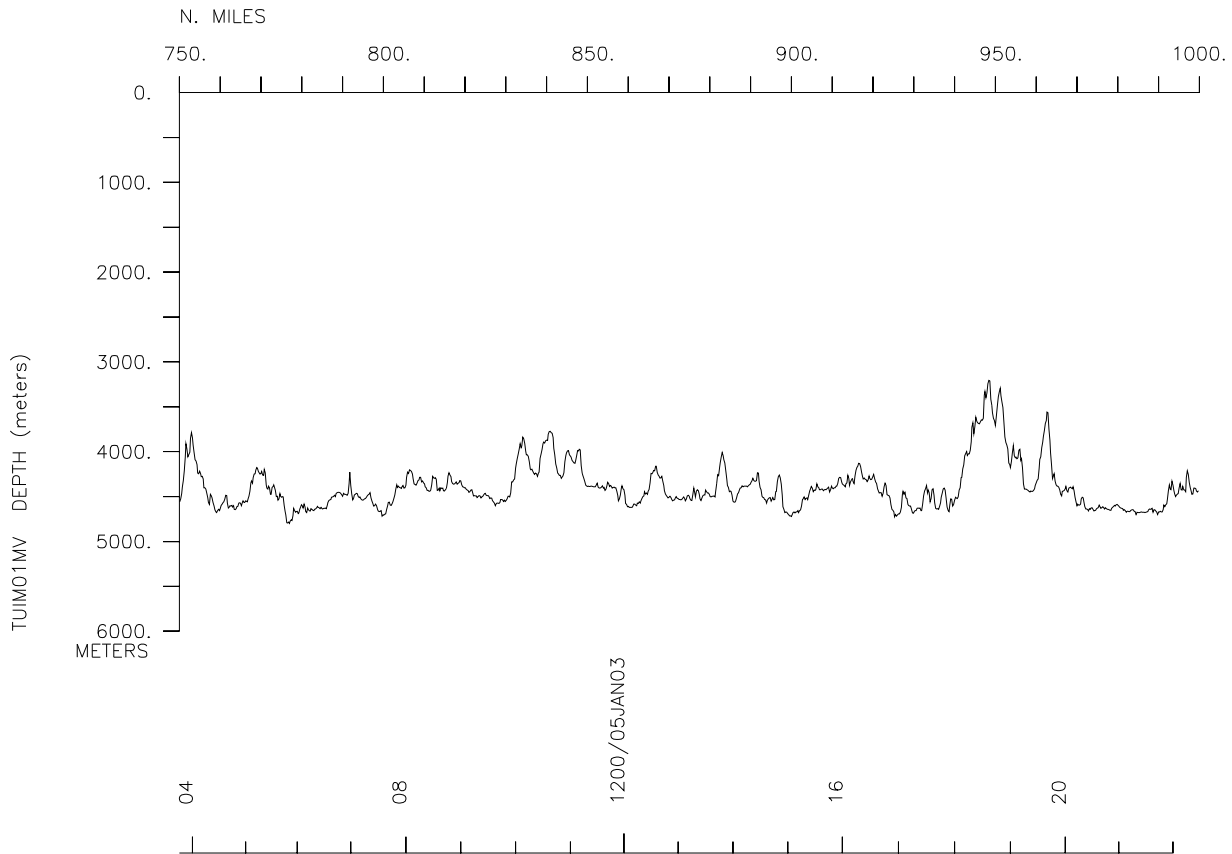
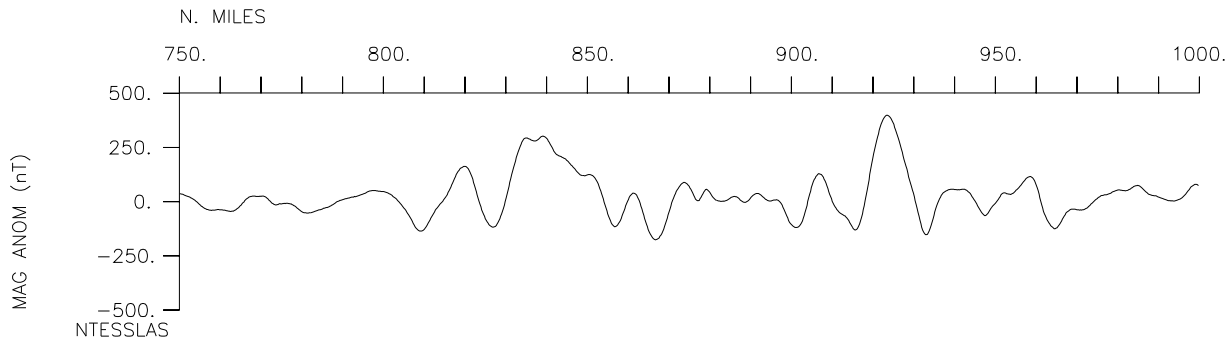
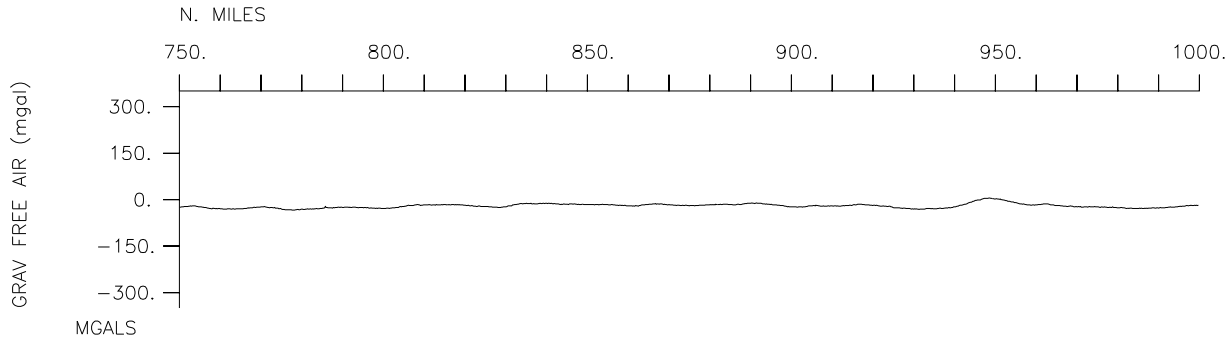
**Multibeam-4878 miles**

**Gravity-5002 miles**

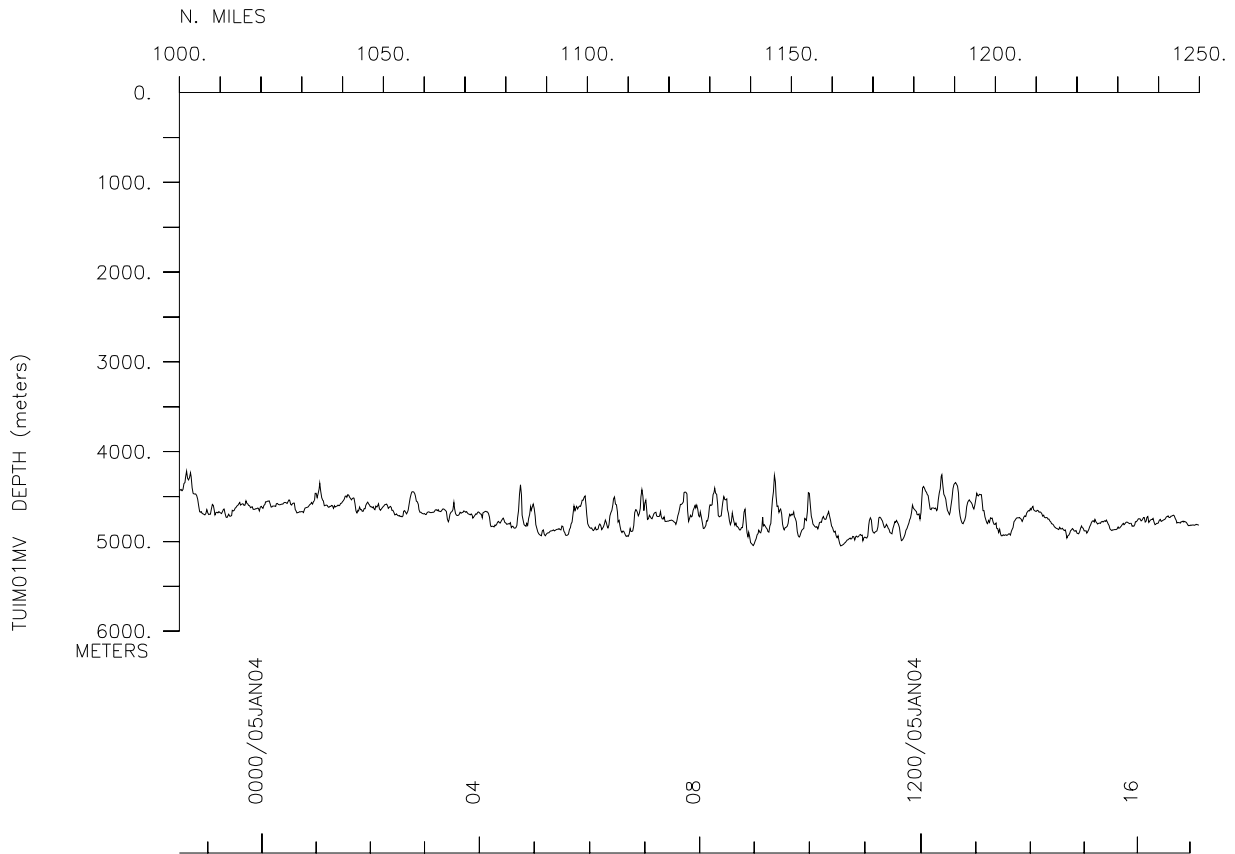
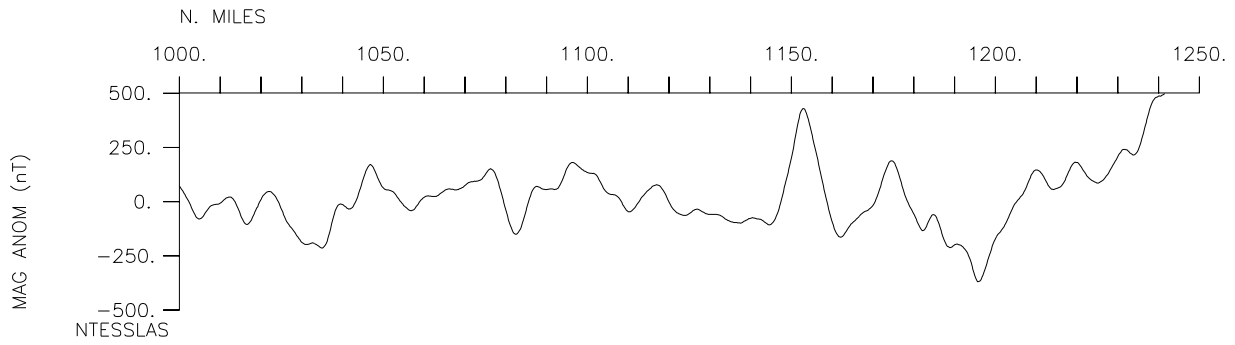
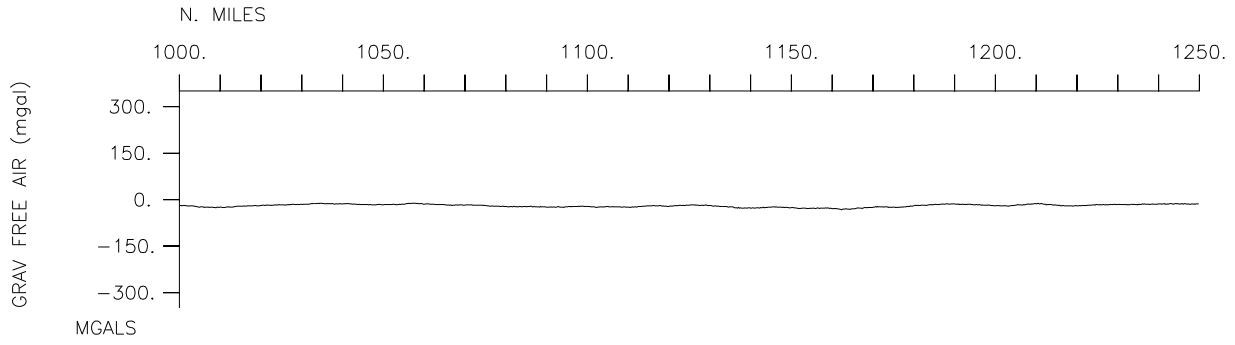


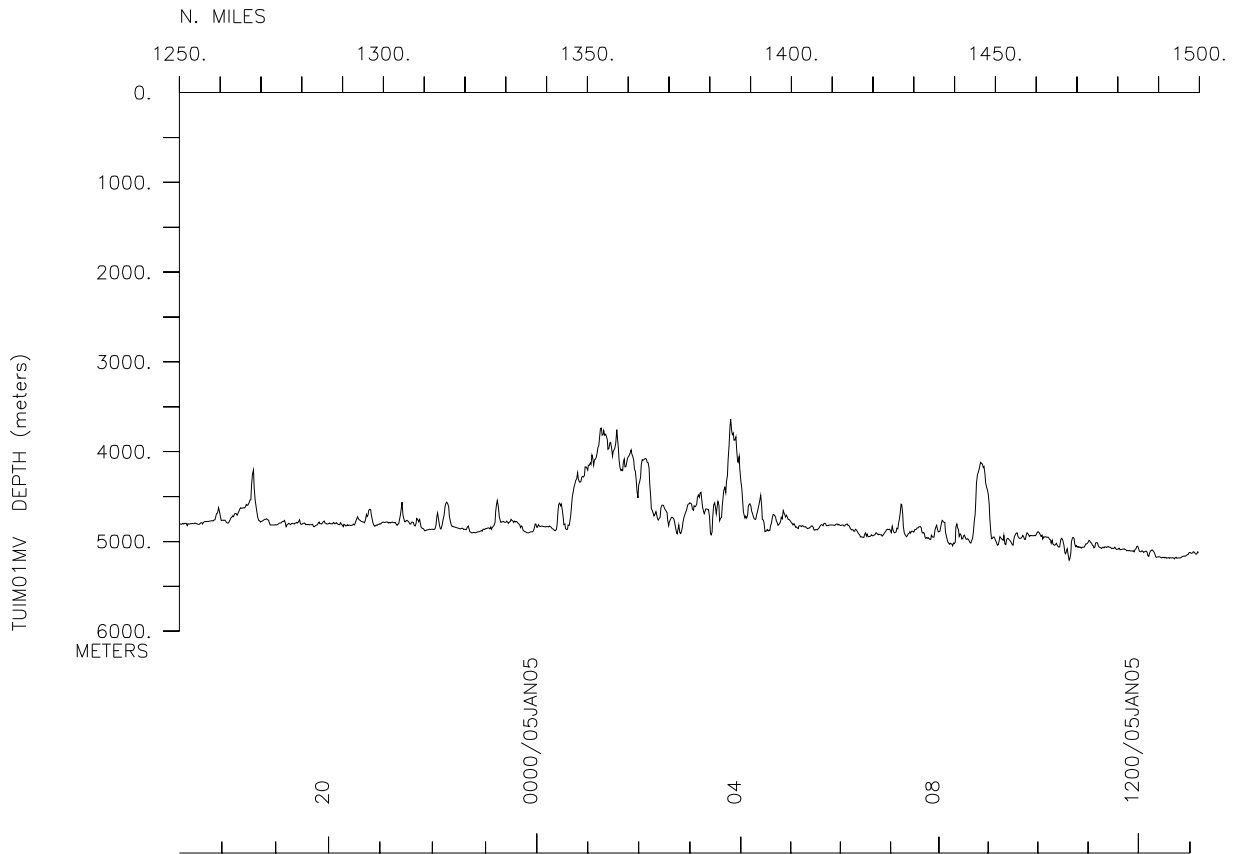
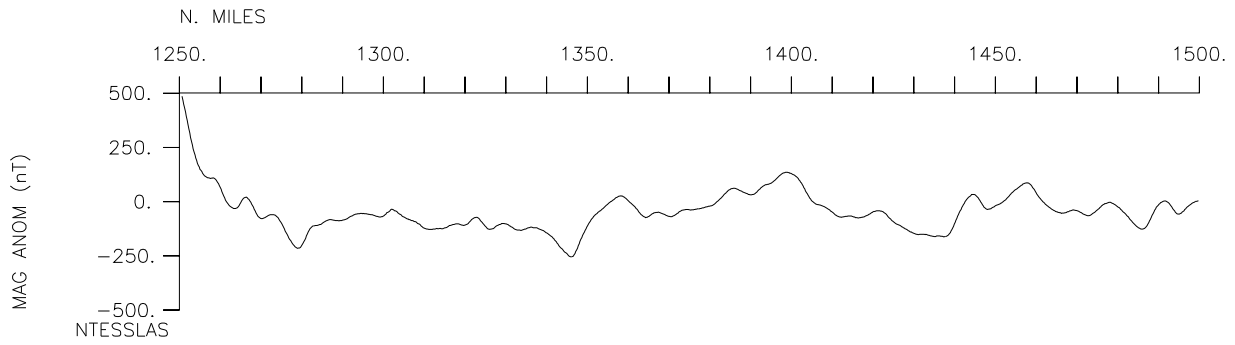
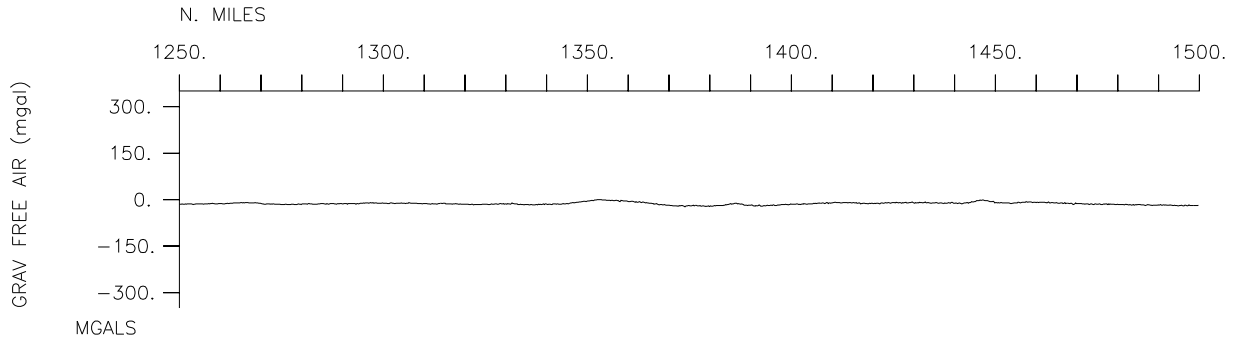


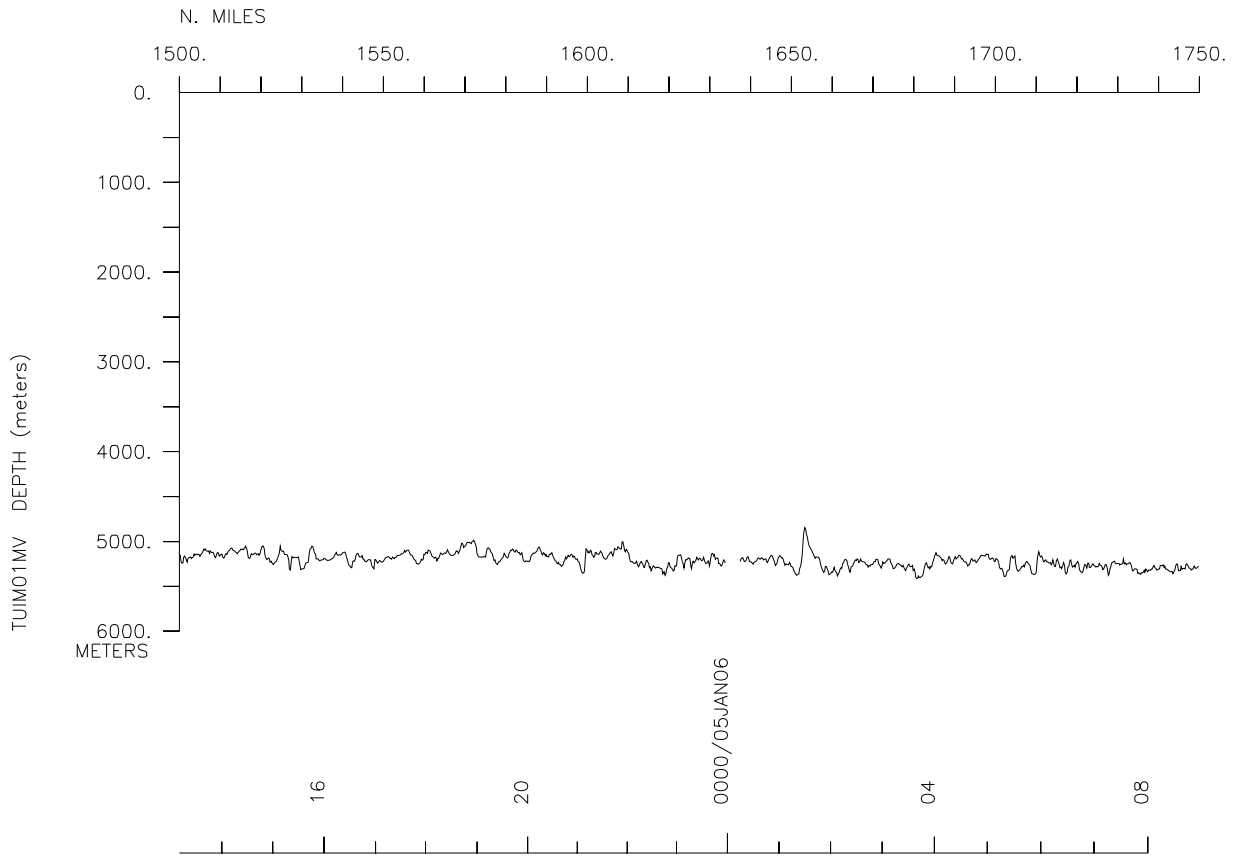
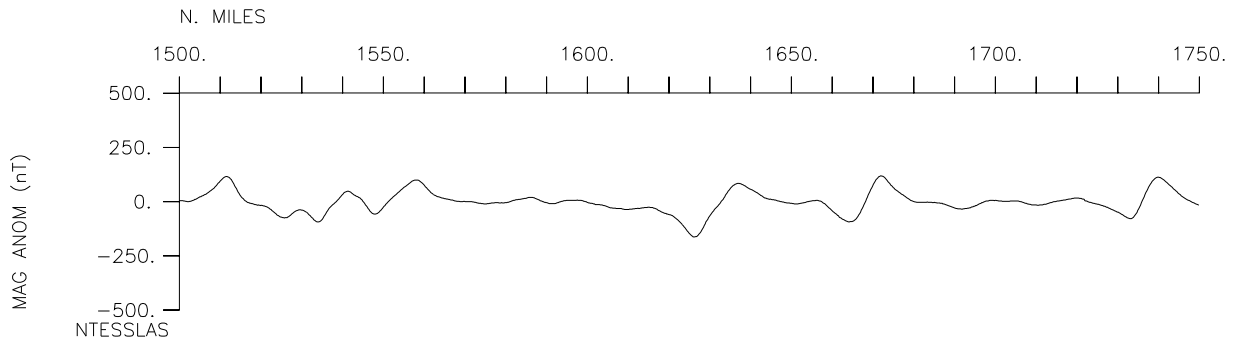
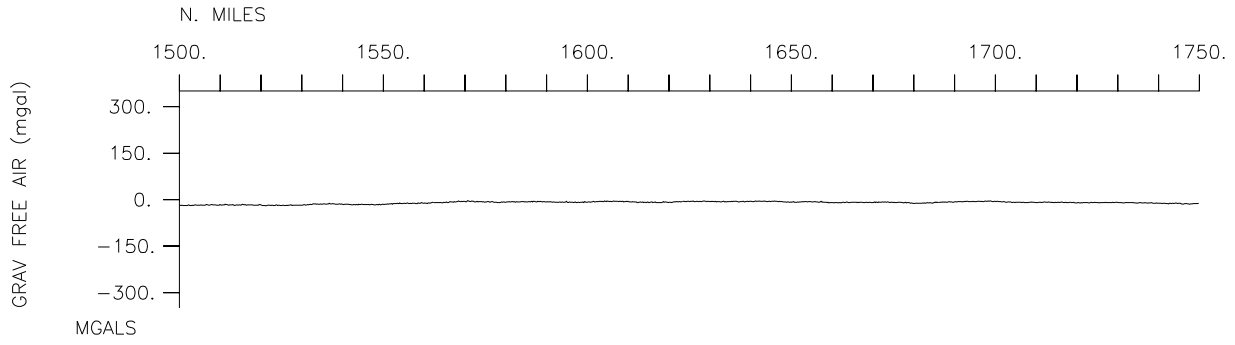


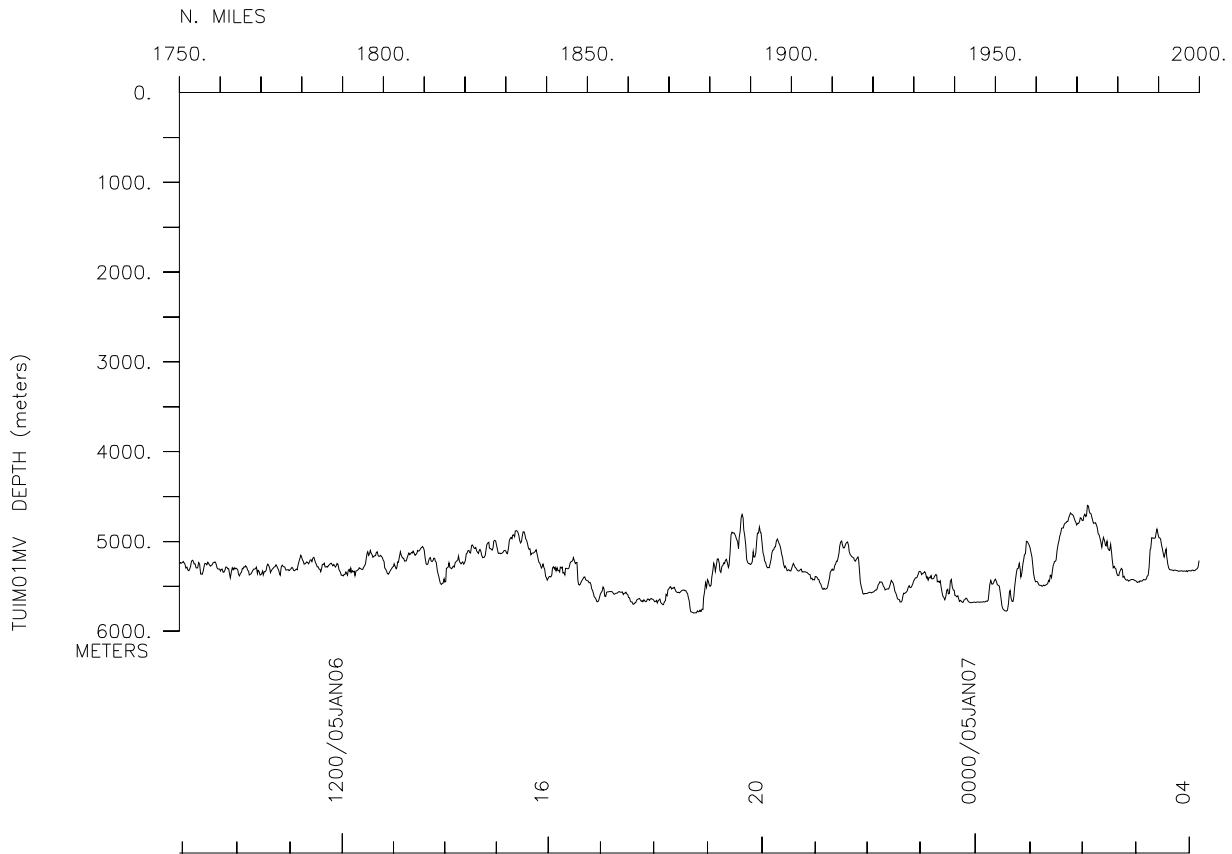
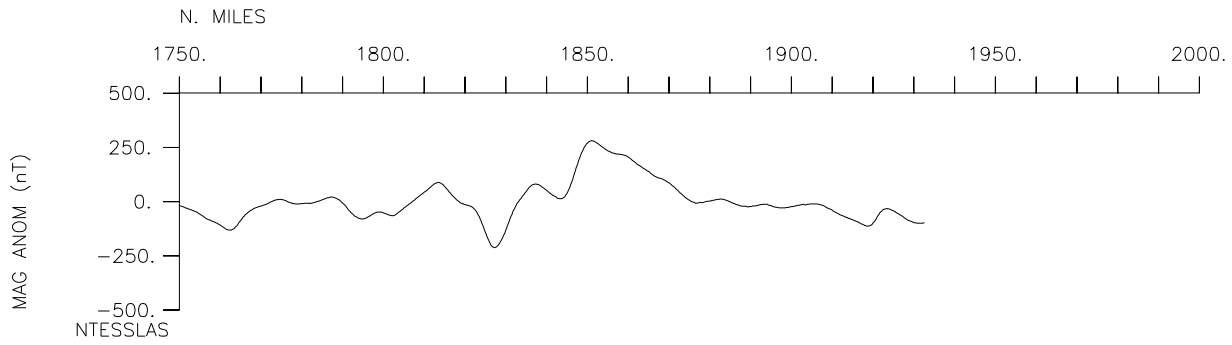
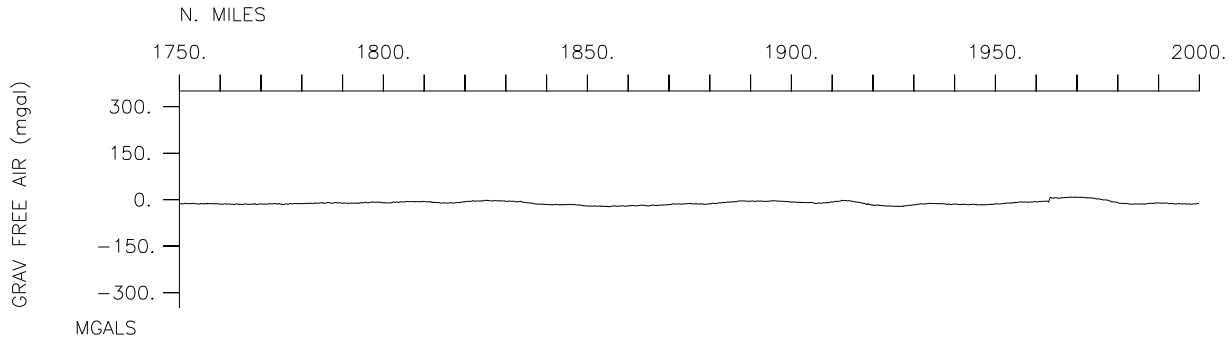


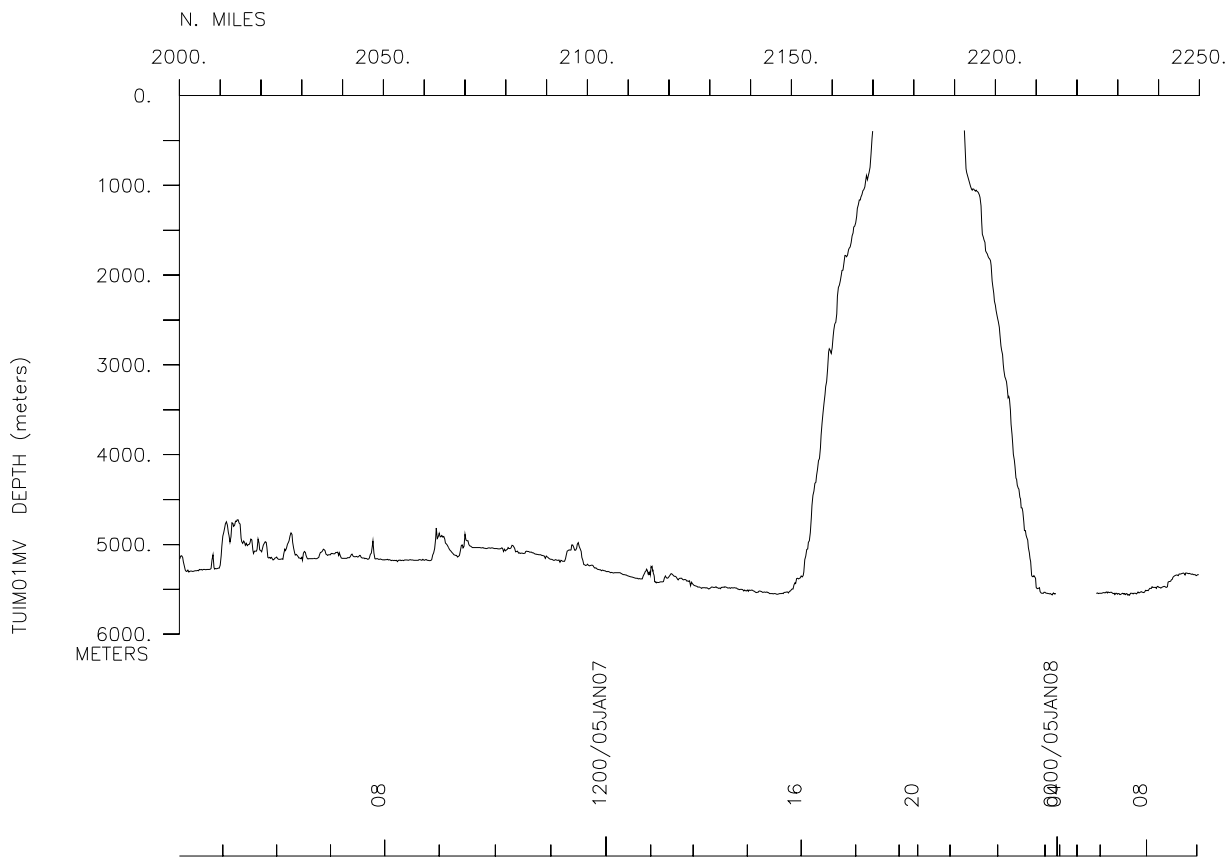
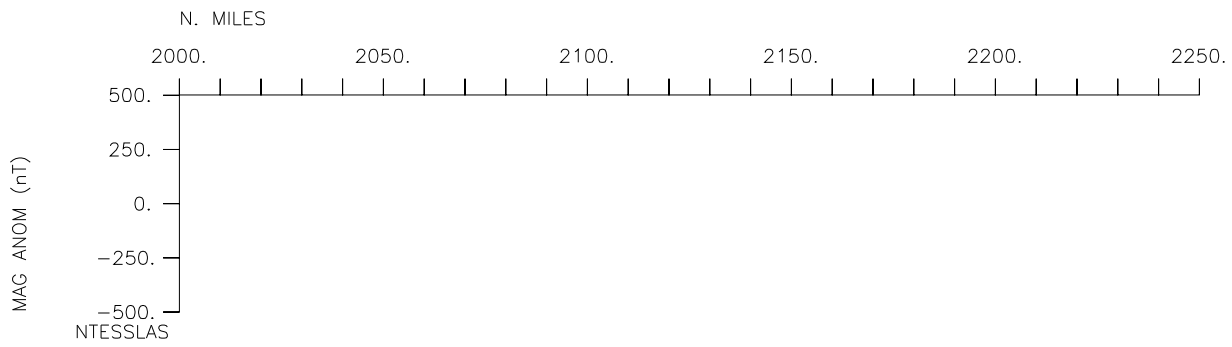
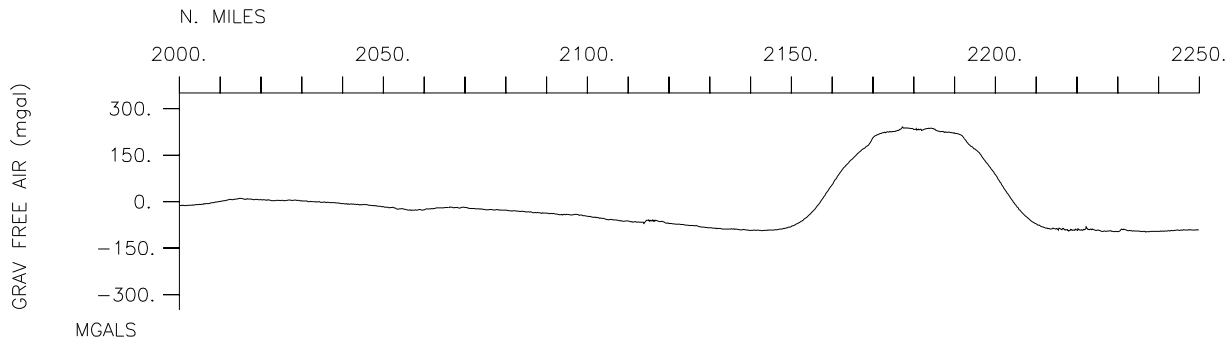


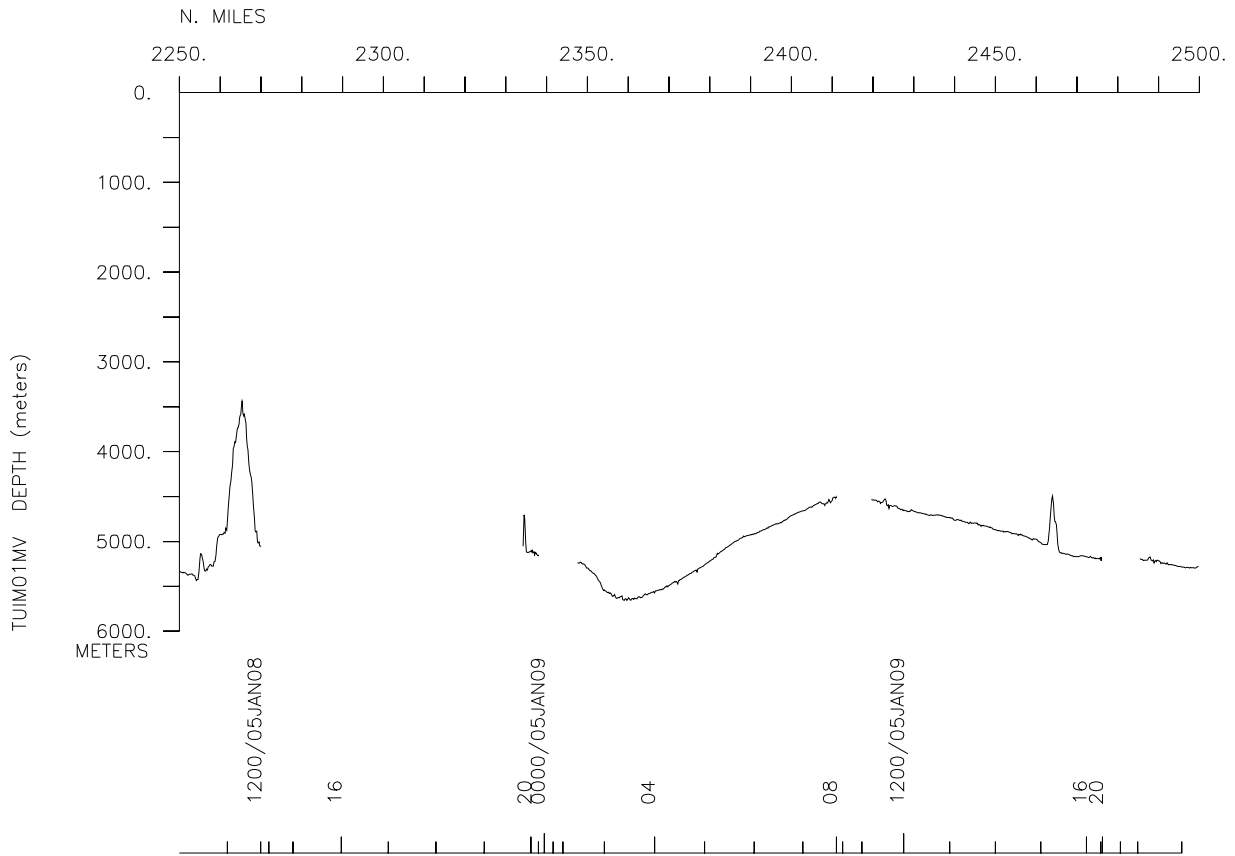
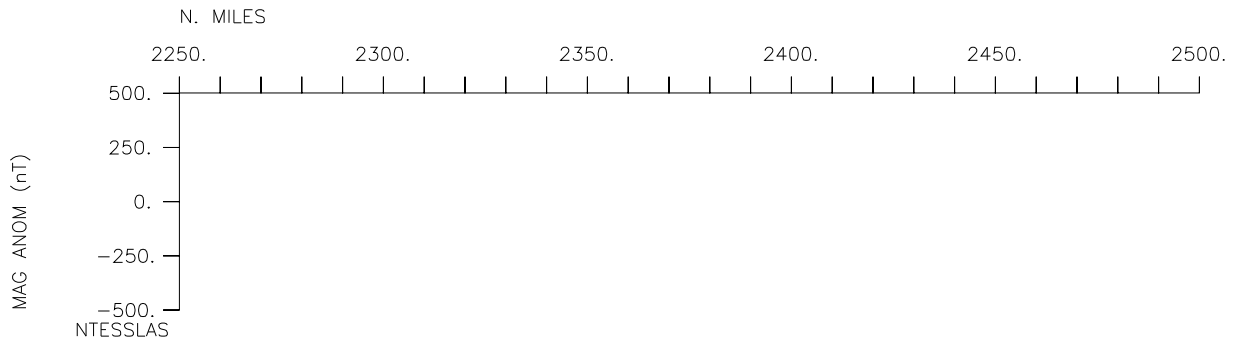
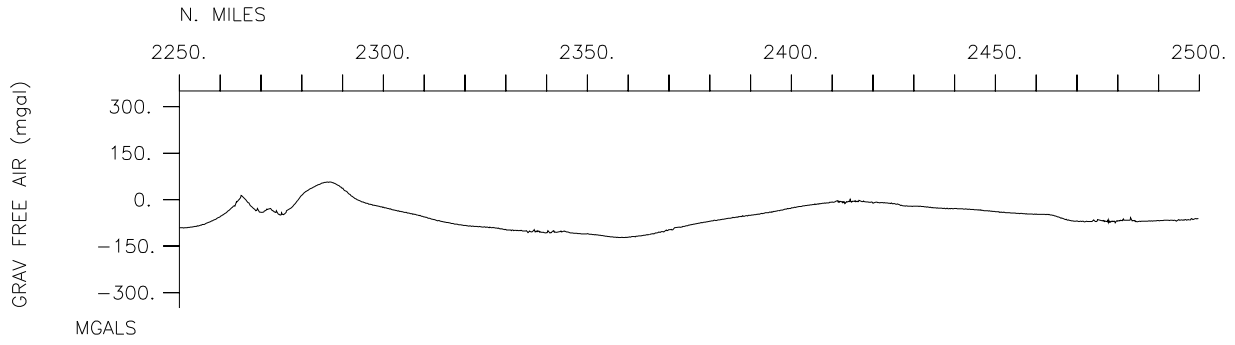


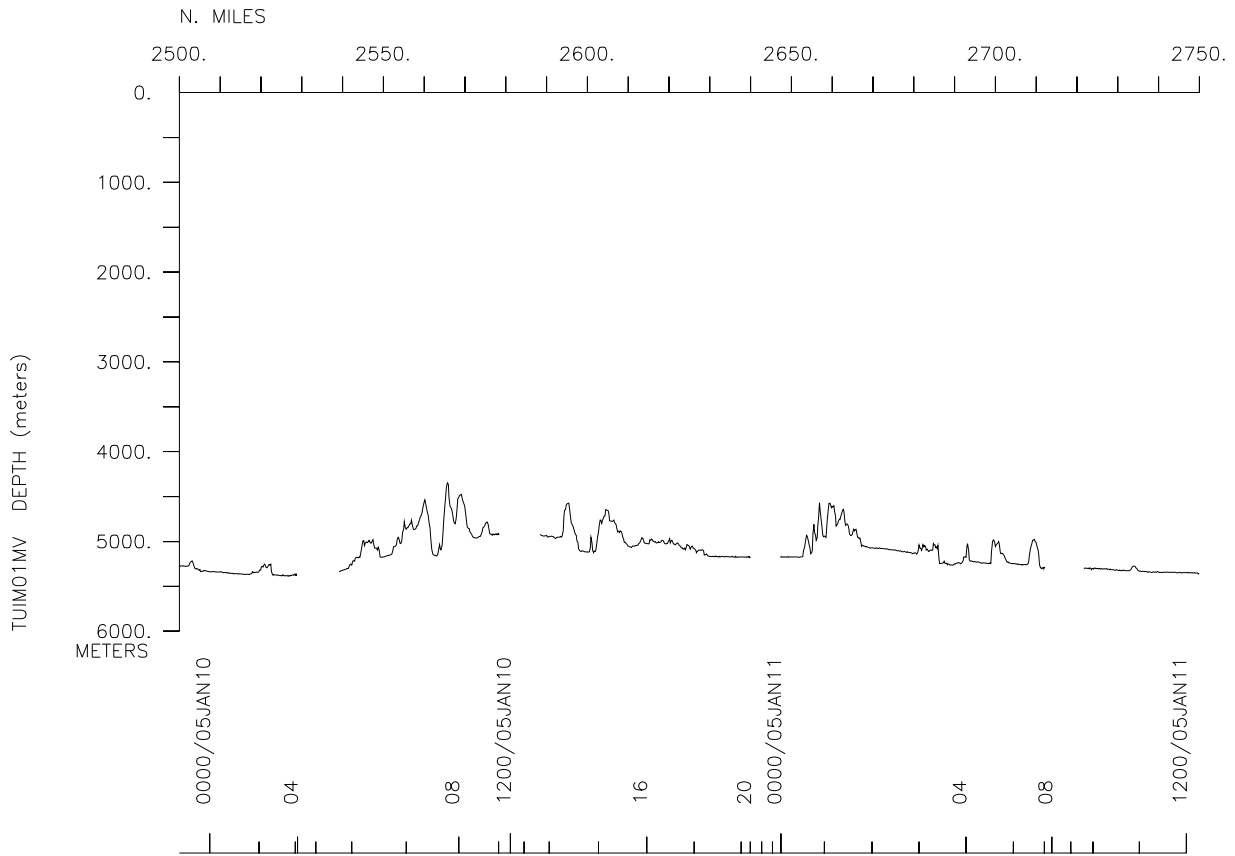
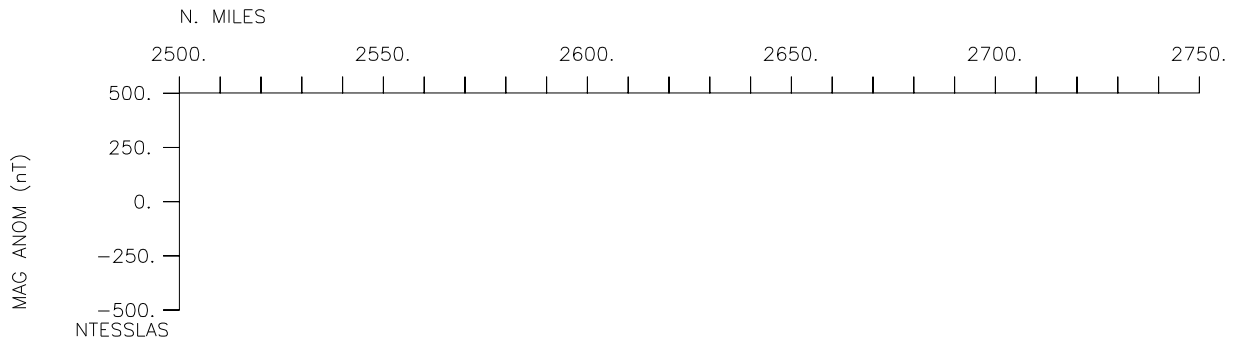
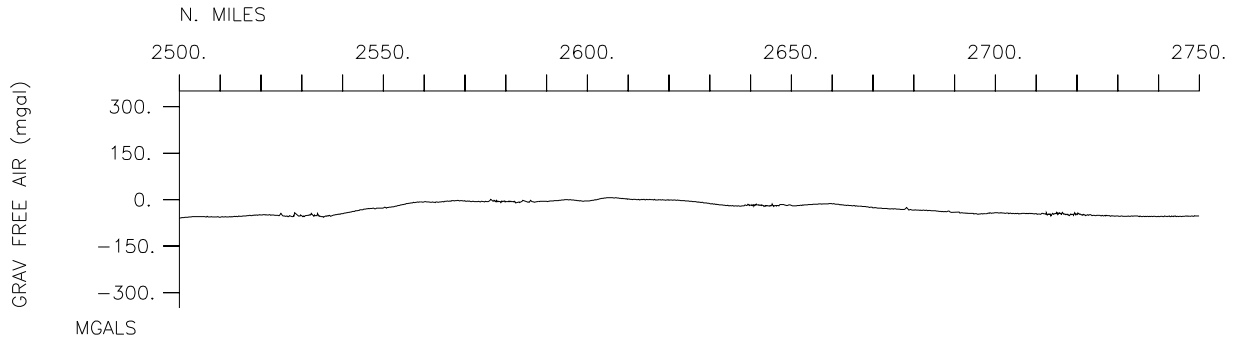


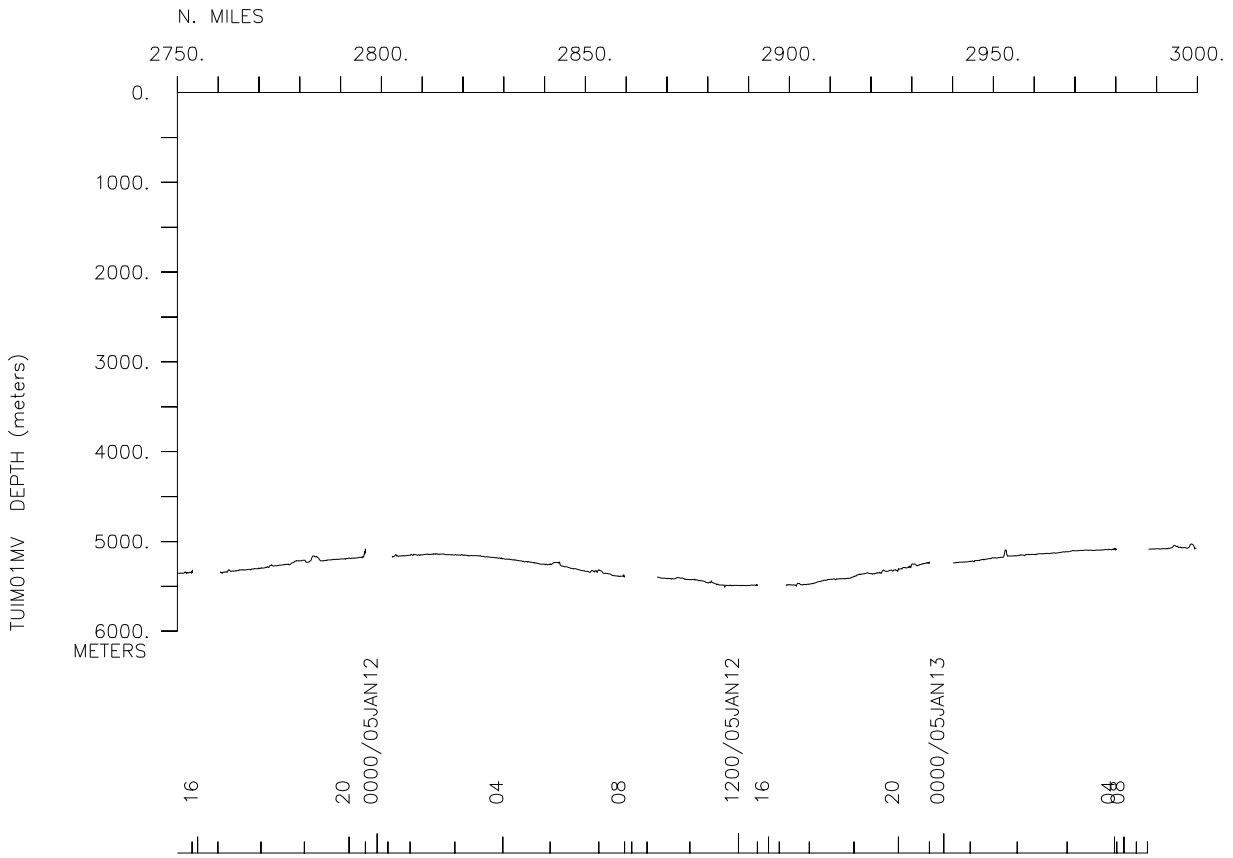
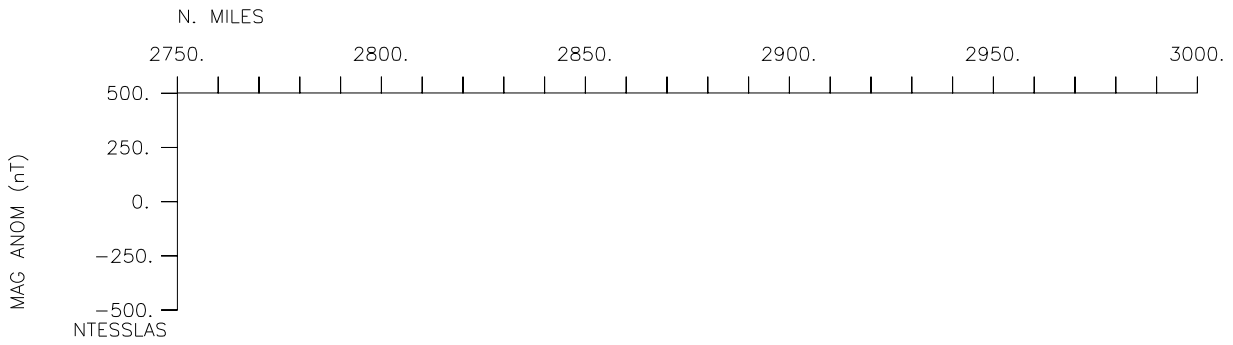
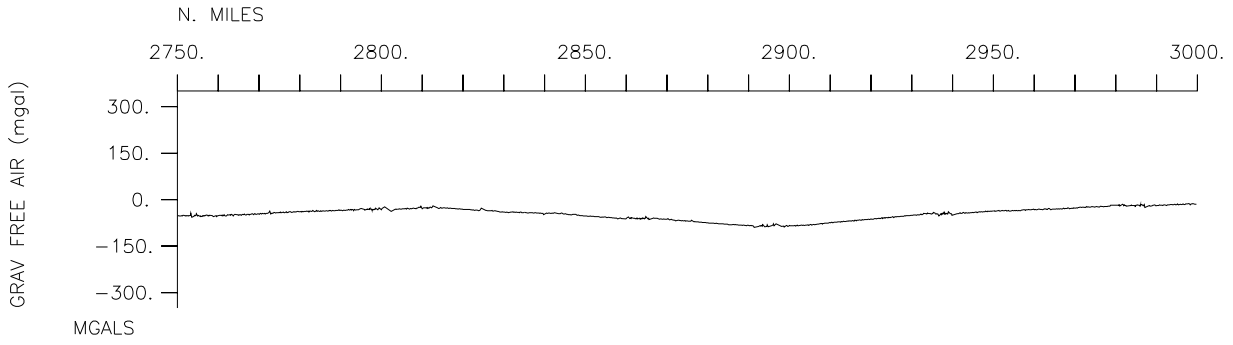




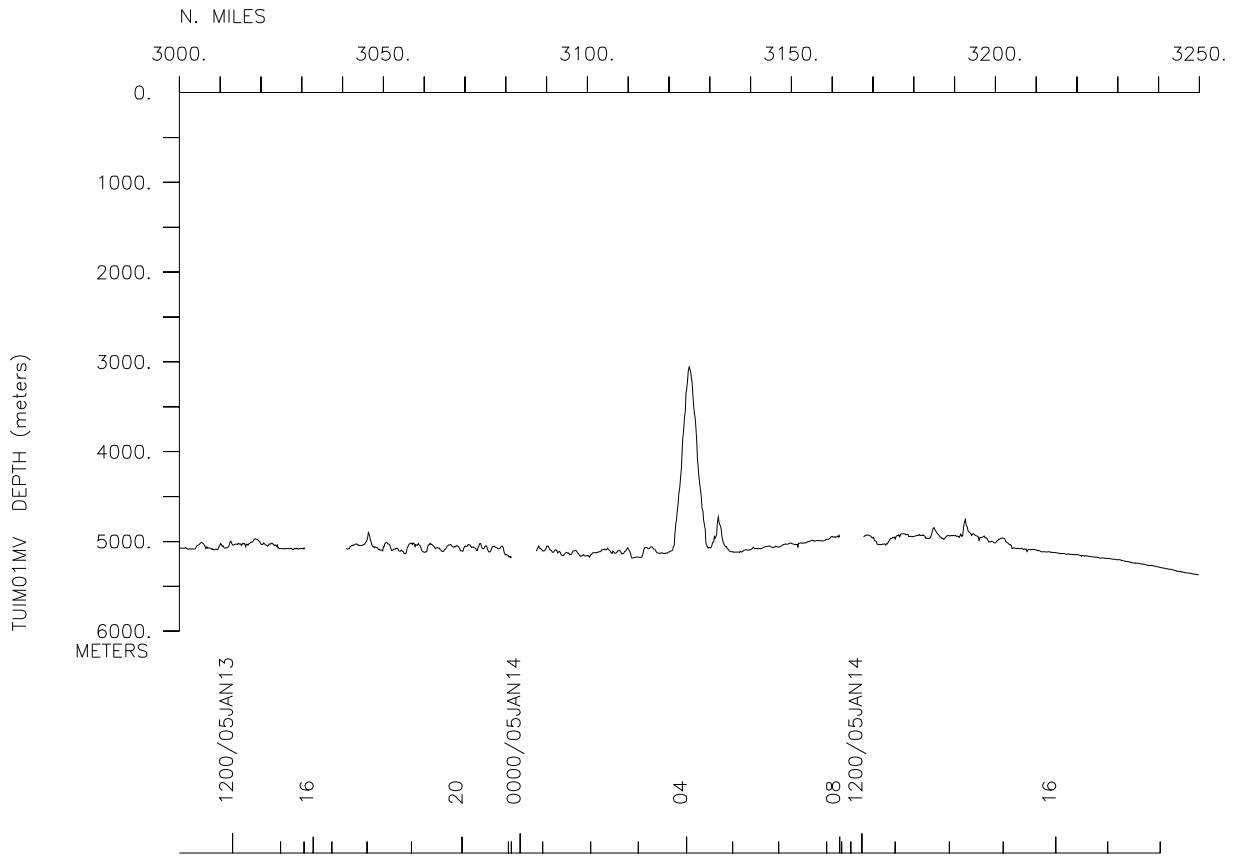
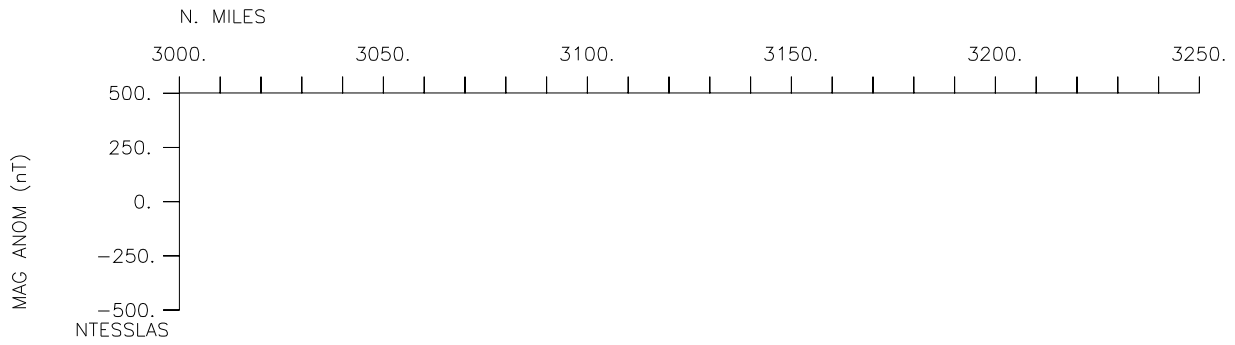
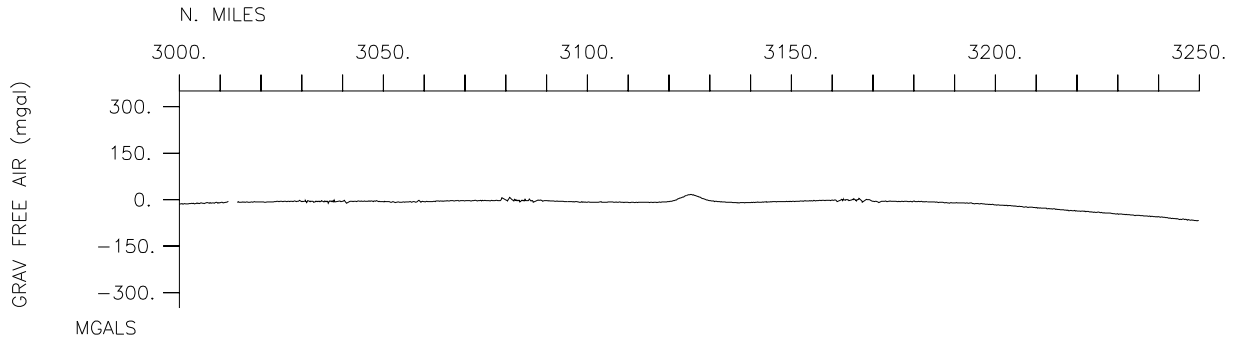


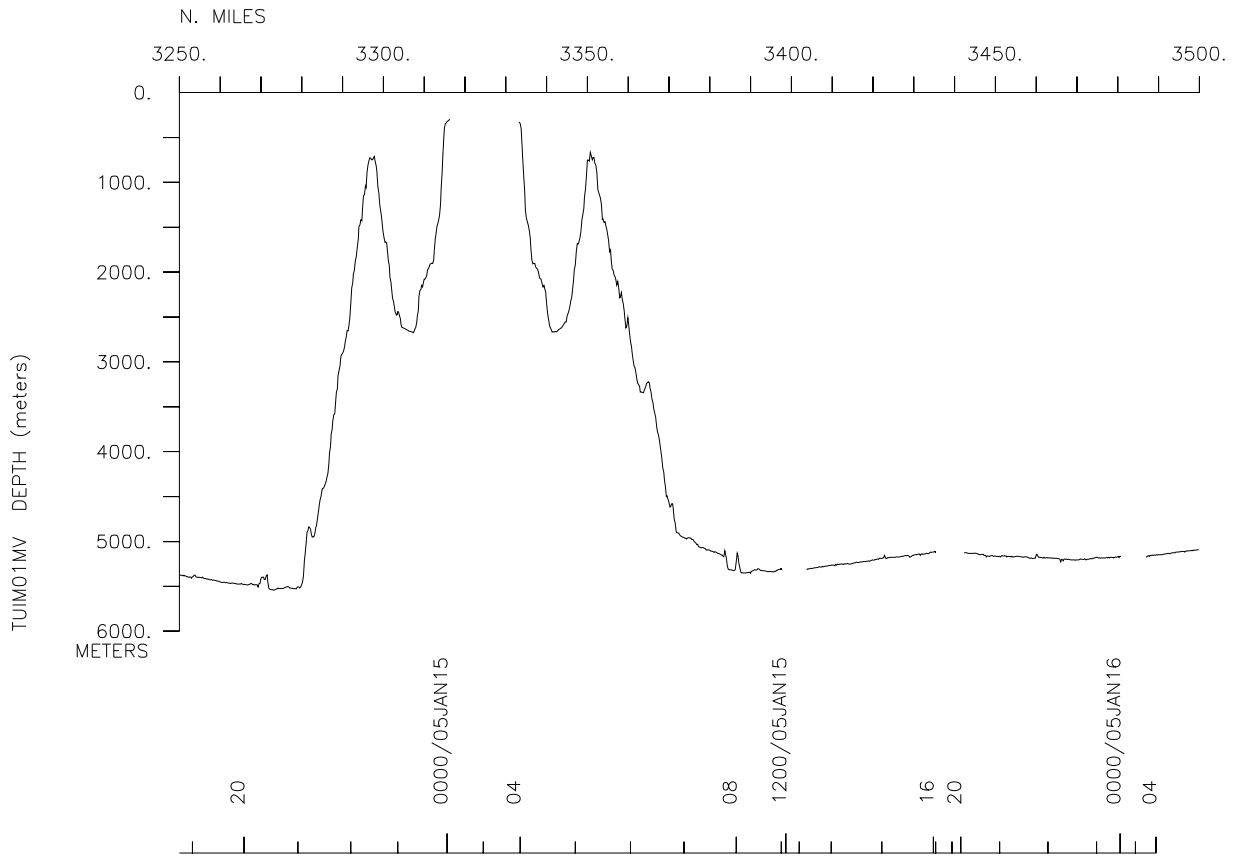
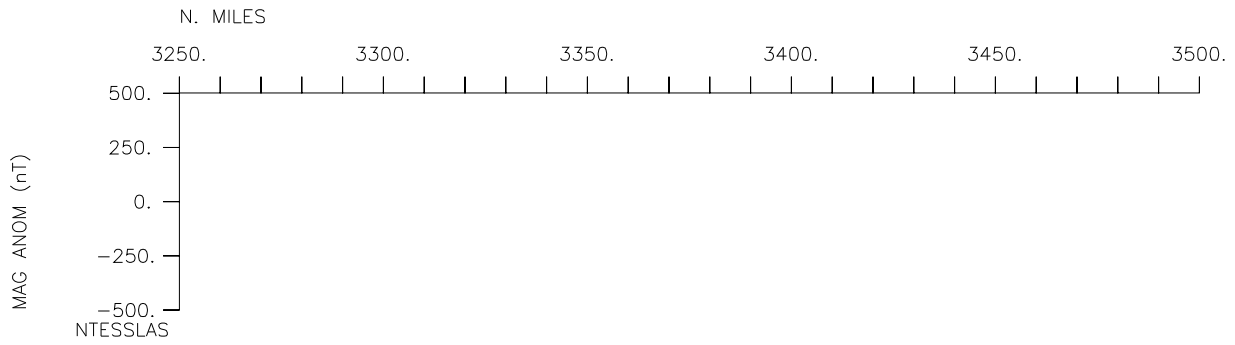
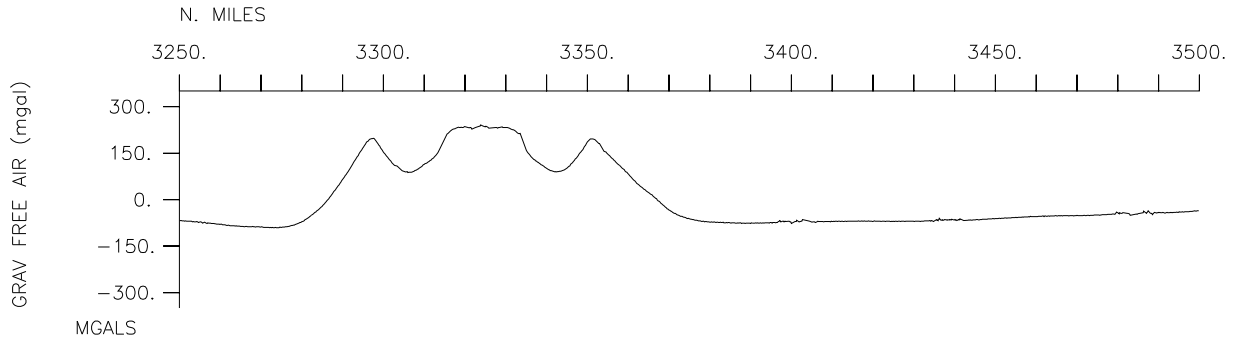


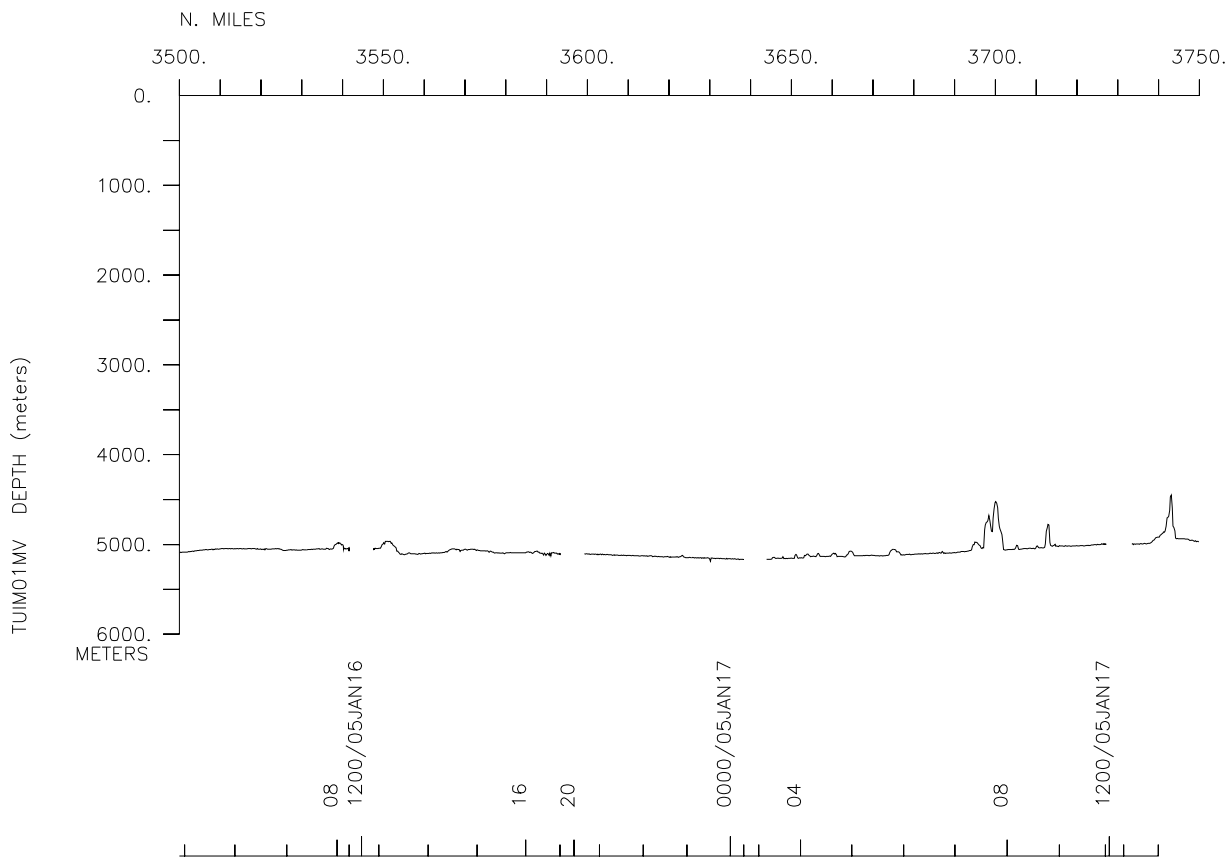
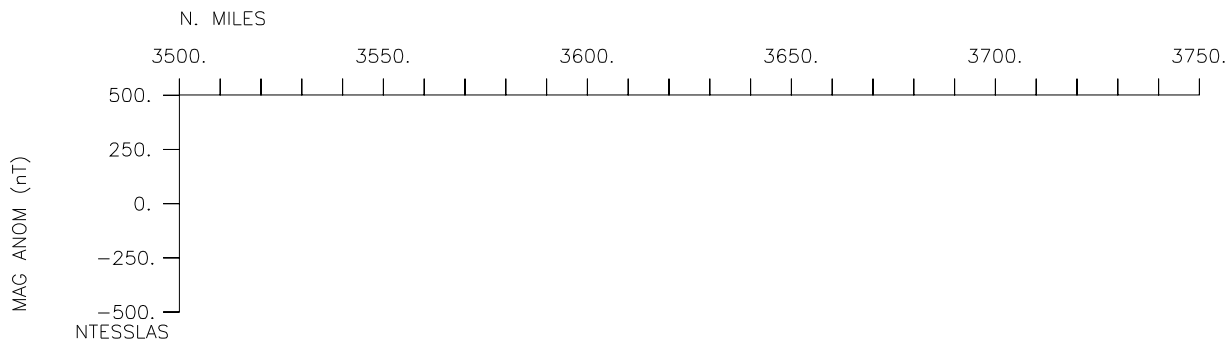
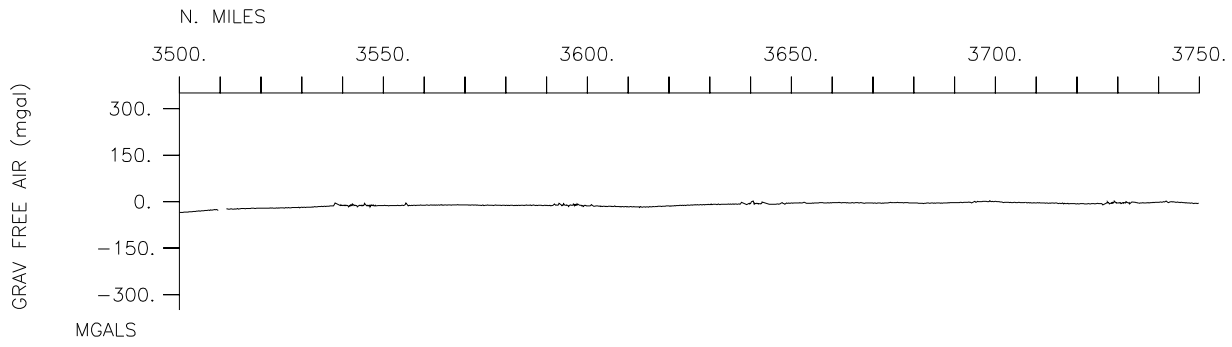


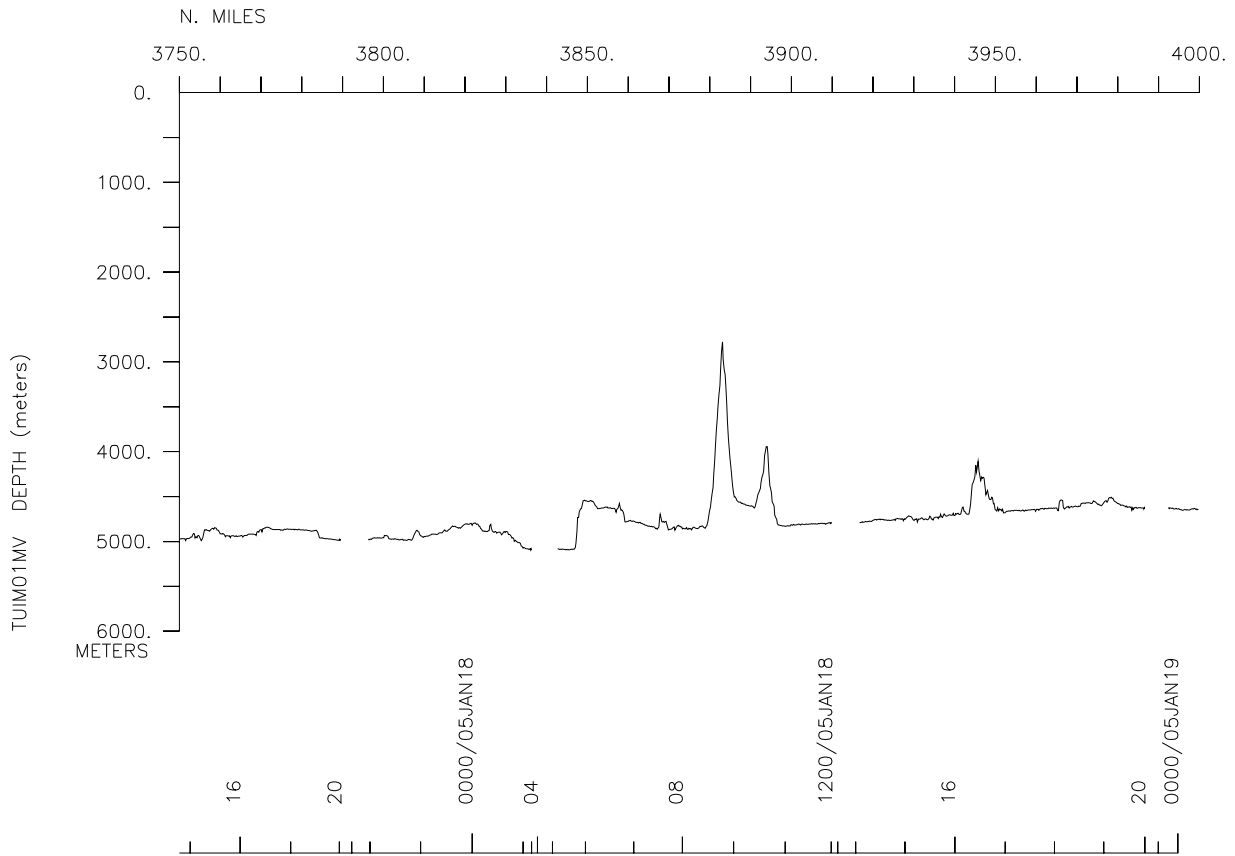
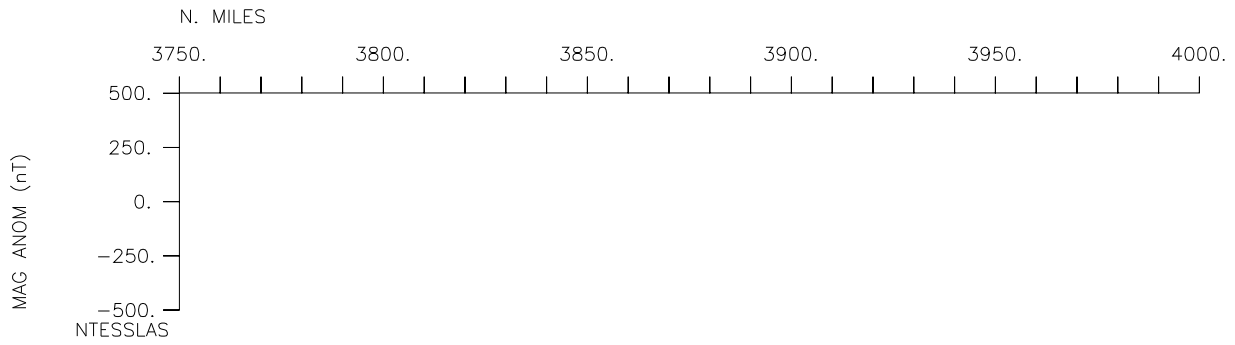
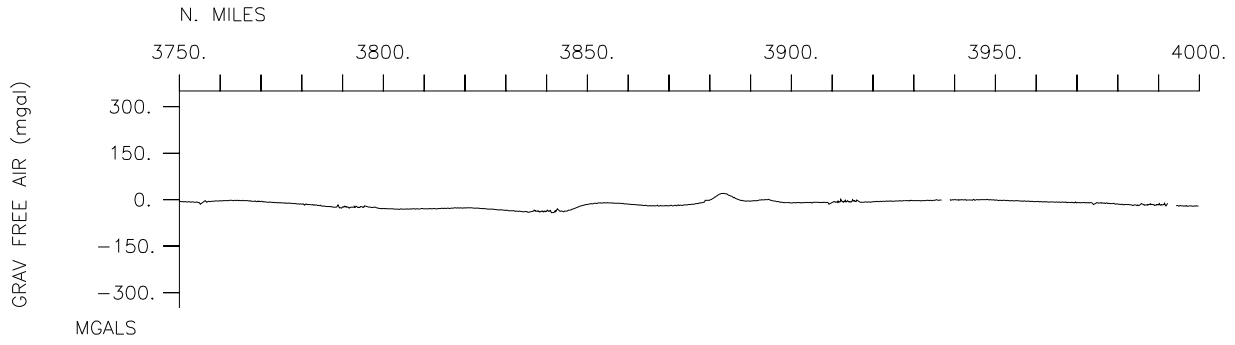


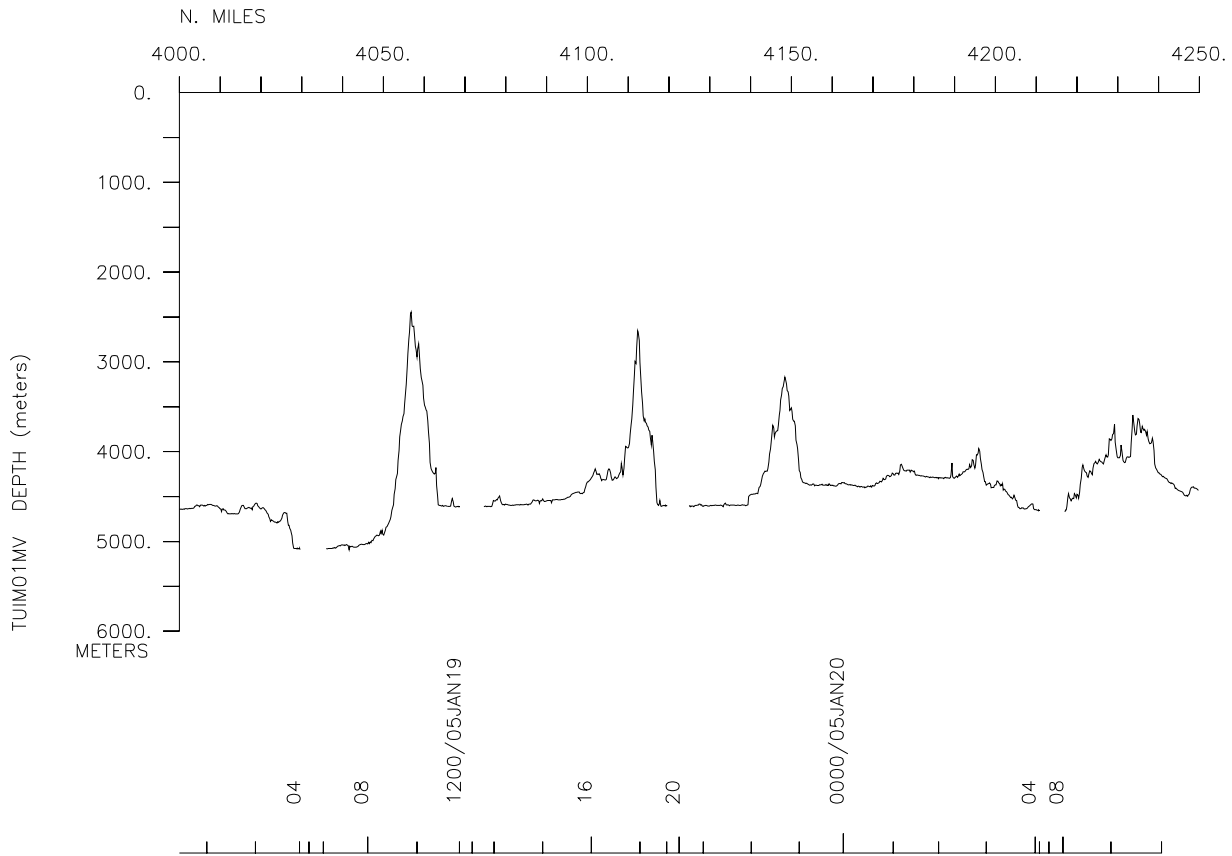
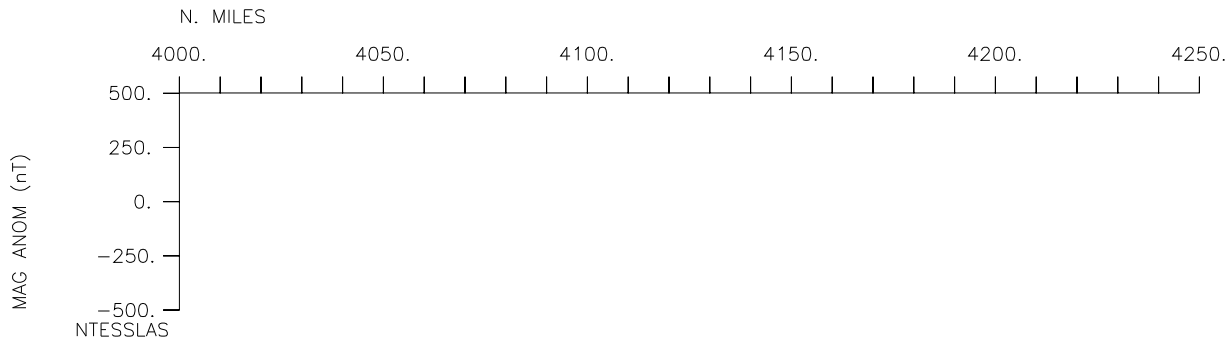
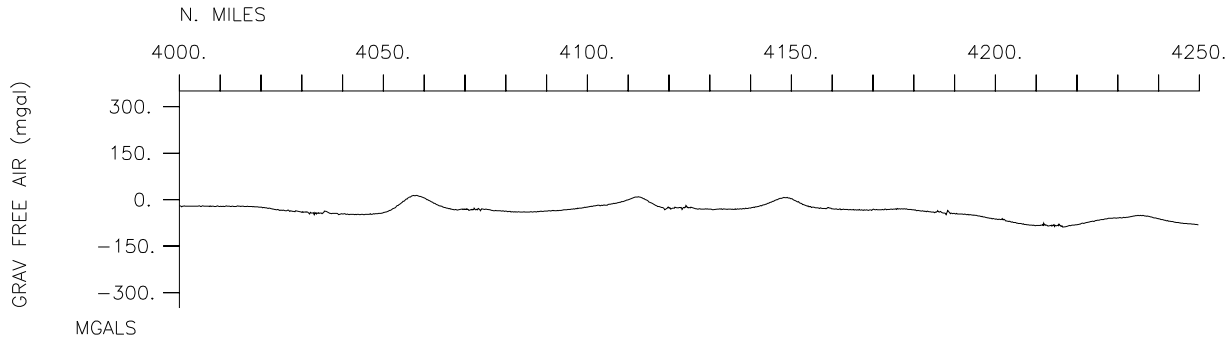


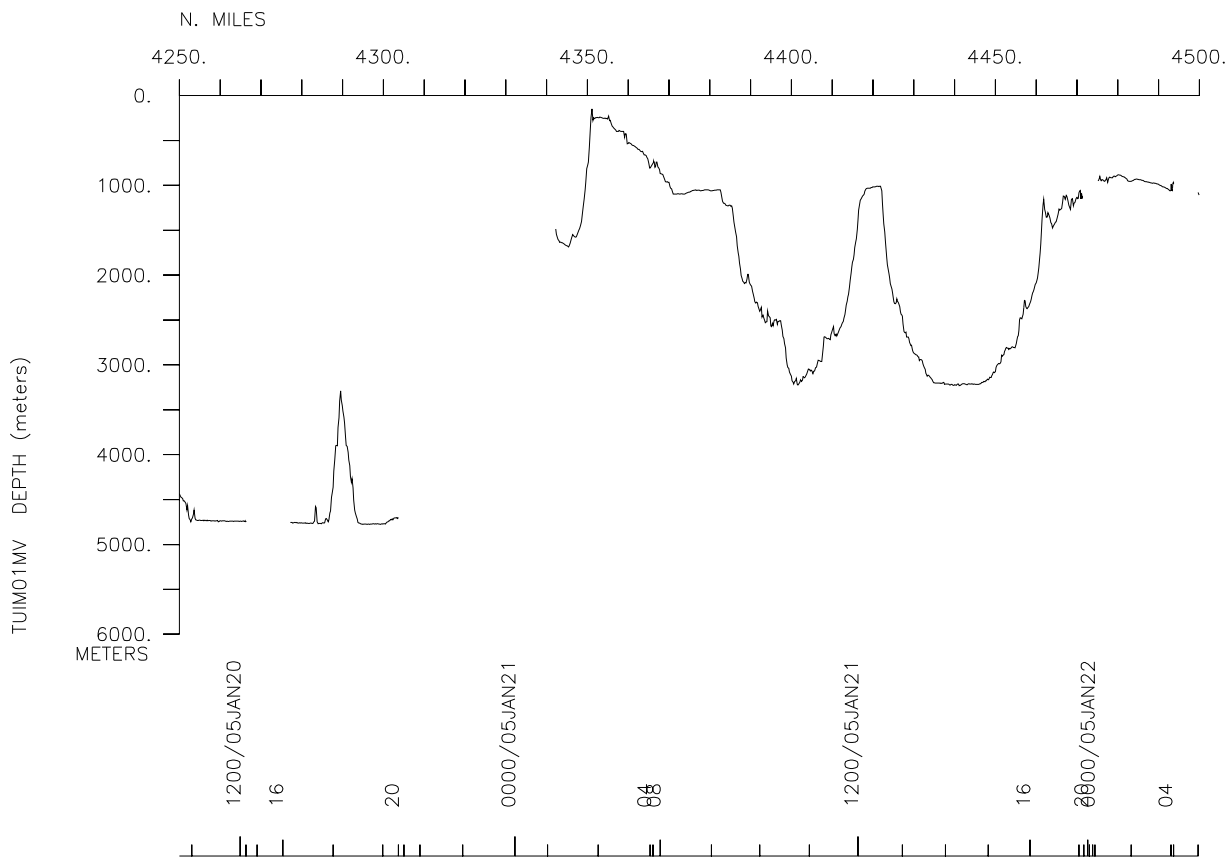
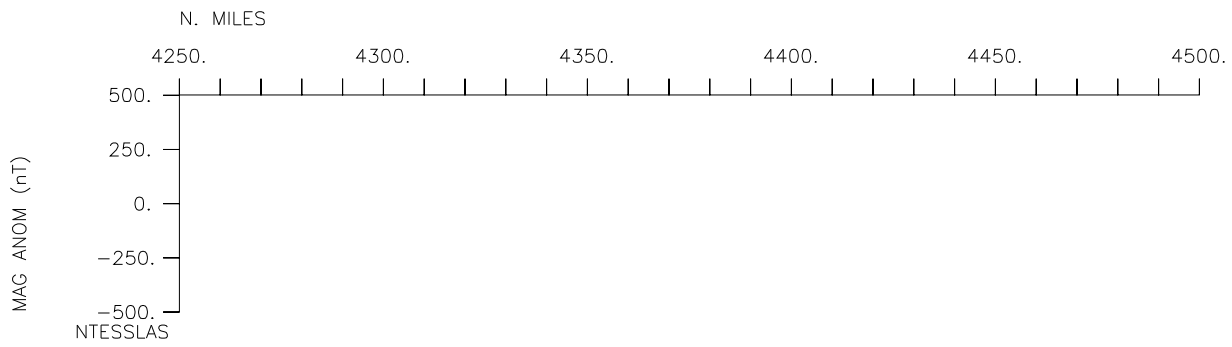
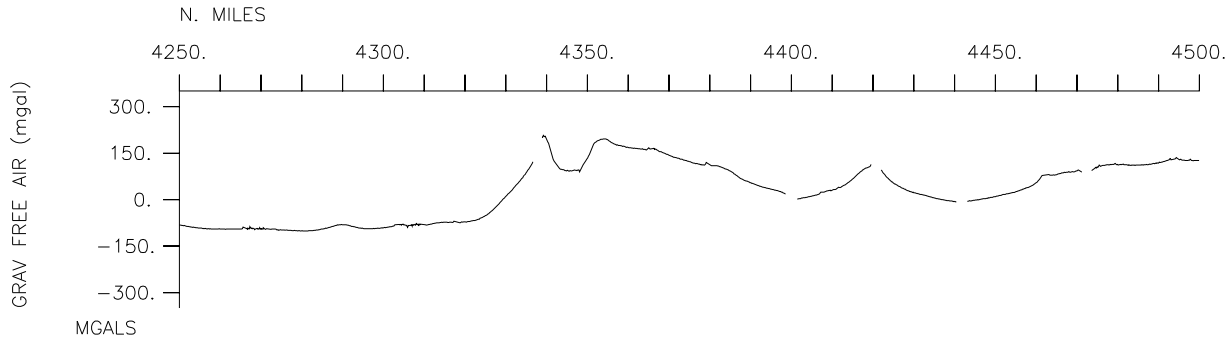


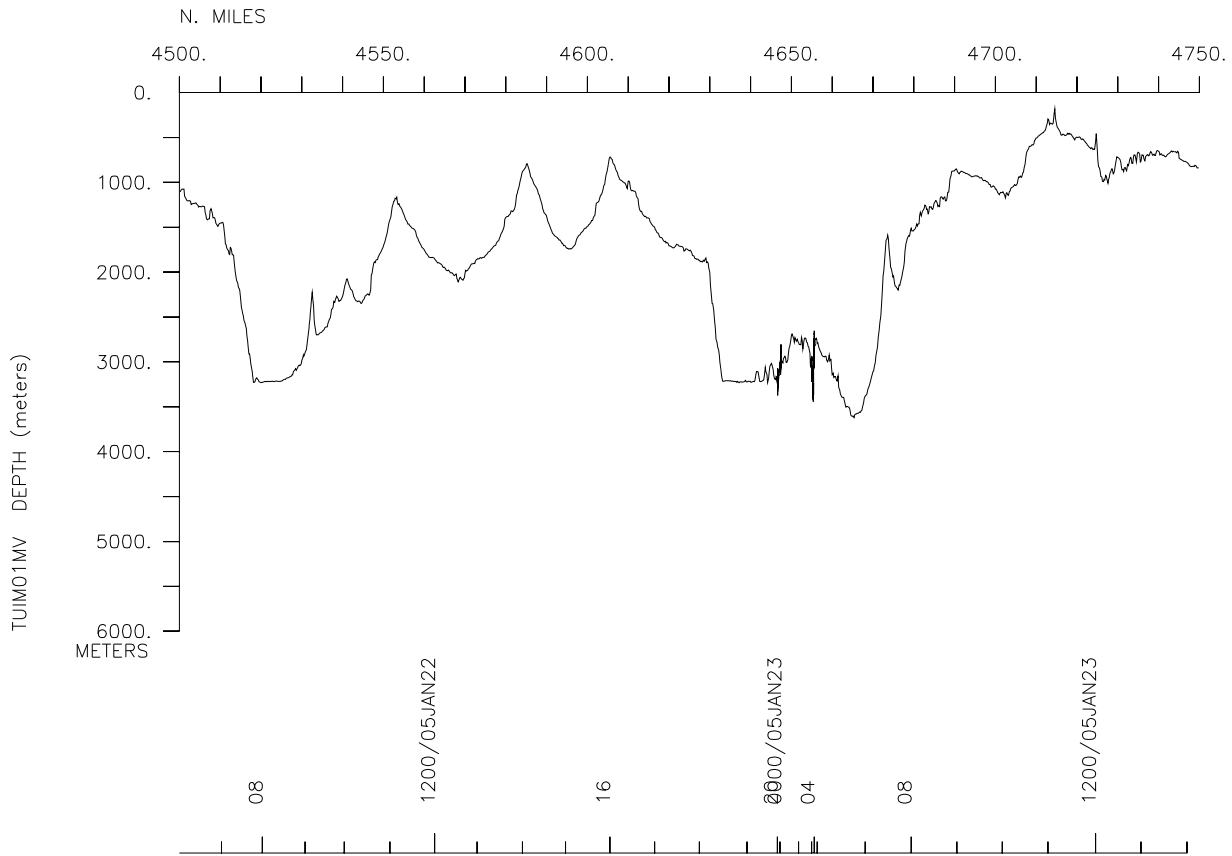
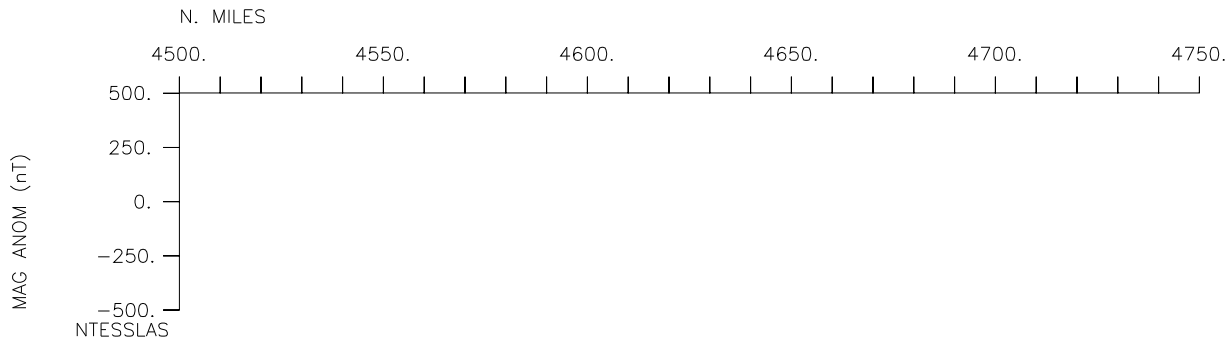
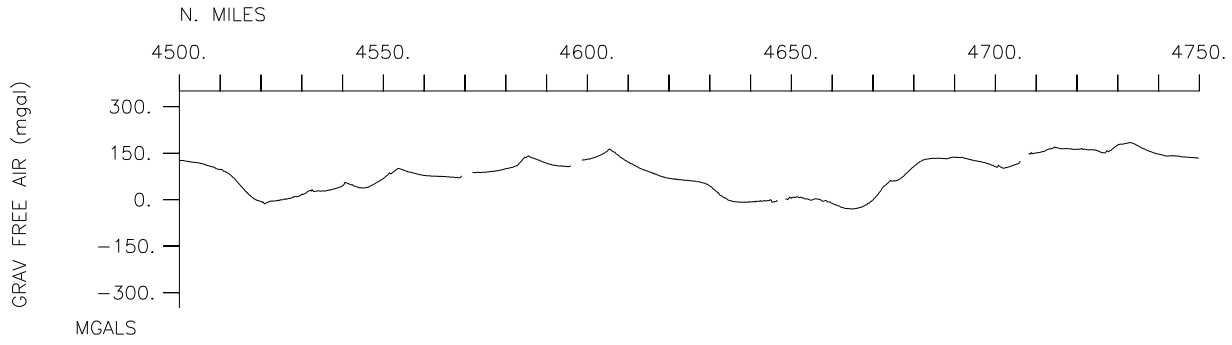


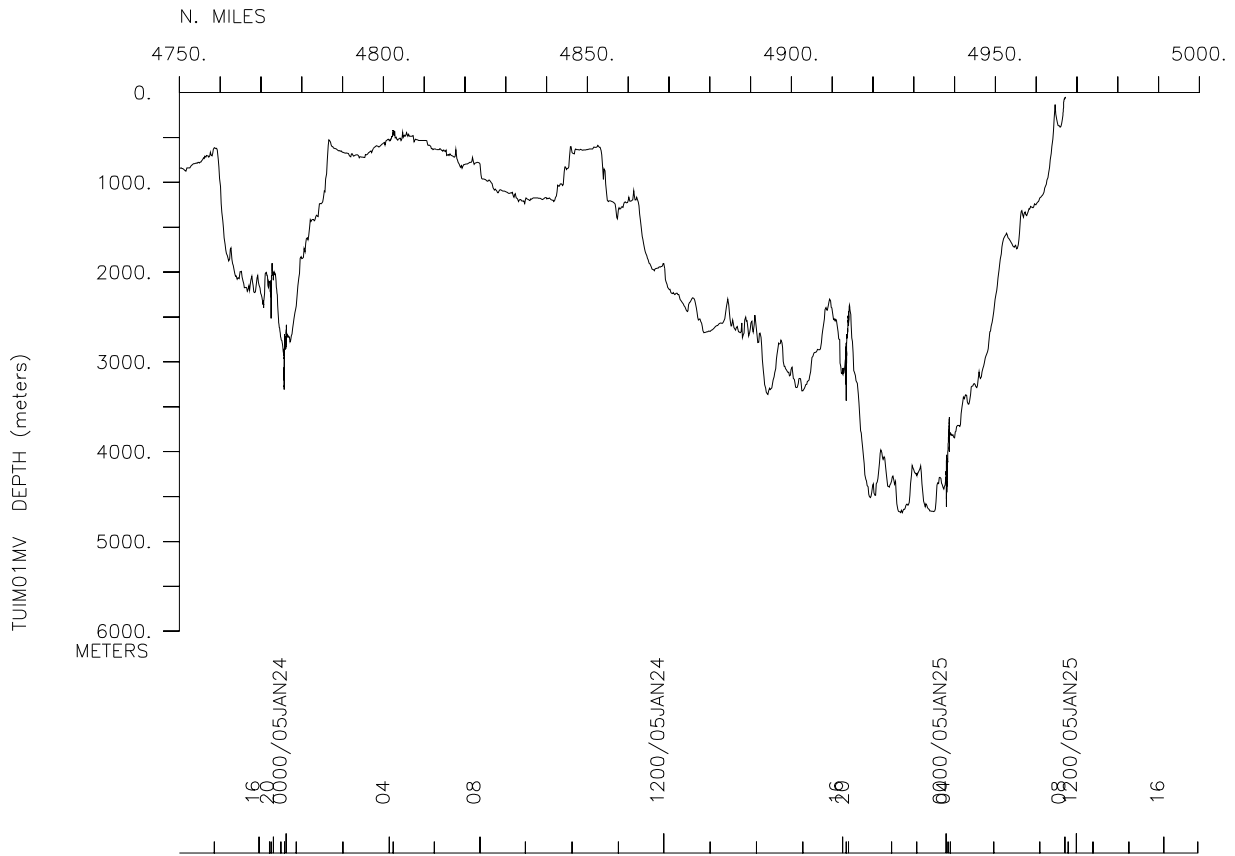
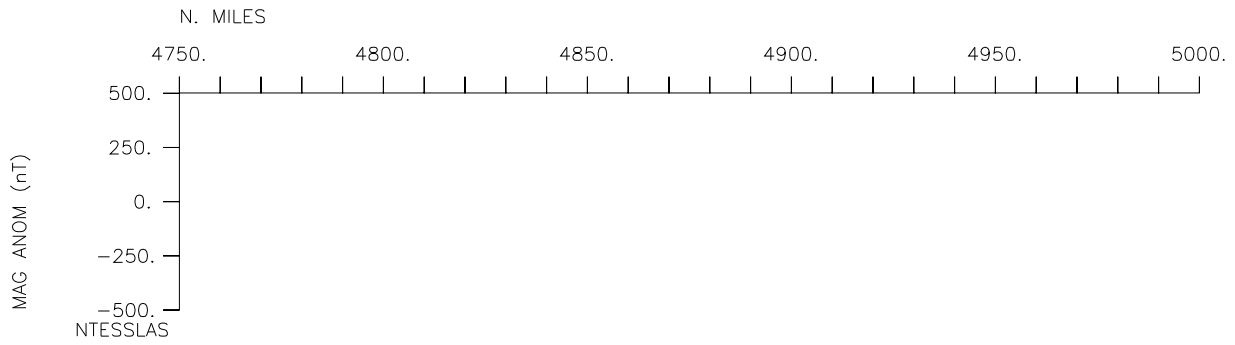
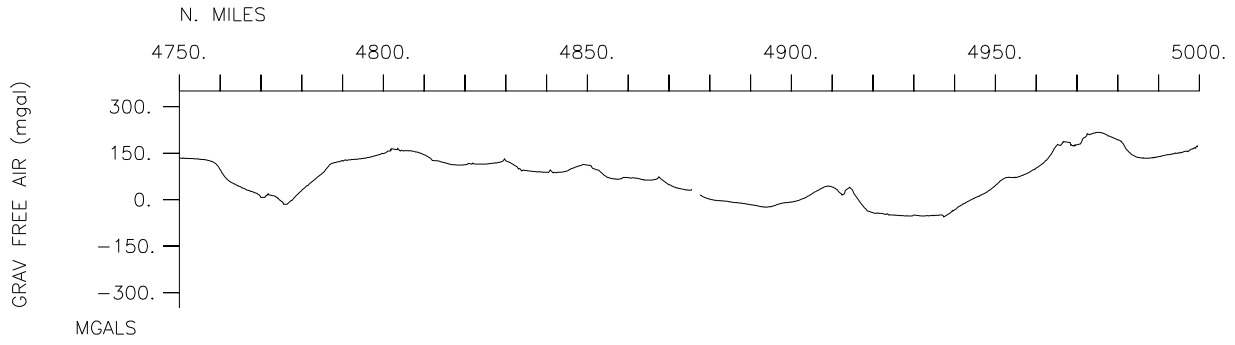




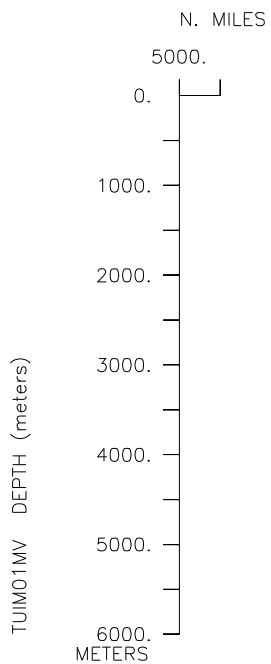
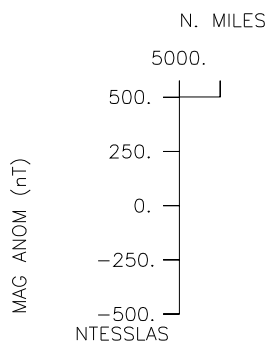
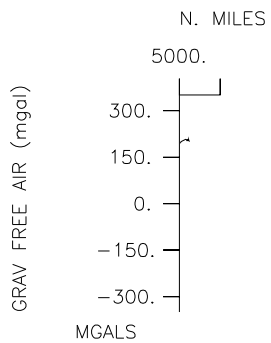












\*\*\*\* Ports \*\*\*\*

1618	311204	LGPT B	San Diego, Calif	32-40.00N	117-14.00W	f	TUIM01MV
2350	250105	LGPT E	Honolulu, Hawaii	21-18.00N	157-52.00W	f	TUIM01MV
1842	070105	LGSS B	Hilo, Hawaii	19-44.00N	155-04.00W	f	TUIM01MV
2012	070105	LGSS E	Hilo, Hawaii	19-44.00N	155-04.00W	f	TUIM01MV

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

#	*****NAME*****	*****TITLE*****	*****AFFILIATION*****	**CRID**
PECS	IGPP Laske, G.	Chief Scientist	Scripps Institution	TUIM01MV
PESP	WHOI Collins, J.	Scientist	Woods Hole	TUIM01MV
PESP	SIX Steffen, E.	Scientist	ARGO	TUIM01MV
PESP	SIX Weeraratne, D.	Scientist	CTW	TUIM01MV
PESP	WHOI Bender, V.	Technician	Woods Hole	TUIM01MV
PESP	WHOI Handy, R.	Technician	Woods Hole	TUIM01MV
PESP	WHOI Peal, K.	Technician	Woods Hole	TUIM01MV
PESP	WHOI Ryder, J.	Technician	Woods Hole	TUIM01MV
PESP	IGPP Floyd, R.	Technician	Scripps Institution	TUIM01MV
PESP	IGPP Georgief, P.	Technician	Scripps Institution	TUIM01MV
PESP	IGPP Gibaud, M.	Technician	Scripps Institution	TUIM01MV
PESP	IGPP Hollinshead, C.	Technician	Scripps Institution	TUIM01MV
PEST	UCSD Petra, B.	Grad student	U. of C. San Diego	TUIM01MV
PEST	SIX Leahy, M.	Grad student	Yale University	TUIM01MV
PEST	SIX Nobel, J.	Student	State U., New York	TUIM01MV
PEOB	UCSD Chi, W.C.	Observer	U. of C. San Diego	TUIM01MV
PEOB	SIX Clague, D.	Observer	MontereyBayAqua.R.I.	TUIM01MV
PEOB	UCSD Geli, L.	Observer	U. of C. San Diego	TUIM01MV
PEOB	WHOI Lin, C.R.	Observer	Woods Hole	TUIM01MV
PEOB	WHOI Wang, T.Y.	Observer	Woods Hole	TUIM01MV
PECT	STS Davis, G.	Computer tech	Scripps Institution	TUIM01MV
PECT	STS Malecki, B.	Computer tech	Scripps Institution	TUIM01MV
PERT	STS Colt, C.	Resident tech	Scripps Institution	TUIM01MV

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

2015	070105	0	LBUW B	Underway log book	STS	19-44.19N	155-04.91W	g	TUIM01MV
0100	200105	0	LBUW E	Underway log book	STS	19-45.95N	157-28.82W	g	TUIM01MV

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

2118	311204	0	MBSR B	v.beam&sidescan	GDC	32-27.33N	118-02.35W	g	TUIM01MV
0829	250105	0	MBSR E	v.beam&sidescan	GDC	20-58.22N	157-29.69W	g	TUIM01MV

#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) ***										
2243	311204	0	MGDD	B digital magnetics	GDC	32-23.07N	118-22.89W	g		TUIM01MV
2305	060105	0	MGDD	E digital magnetics	GDC	22-06.79N	151-27.67W	g		TUIM01MV
*** Digital Gravity ***										
1613	311204	0	GVDD	B digital gravity data	GDC	32-42.40N	117-14.18W	g		TUIM01MV
1729	250105	0	GVDD	E digital gravity data	GDC	21-18.91N	157-53.01W	g		TUIM01MV
*** Integrated Meteorological Acquisition System ***										
1613	311204	0	IMET	B weather measurements	GDC	32-42.40N	117-14.18W	g		TUIM01MV
1729	250105	0	IMET	E weather measurements	GDC	21-18.91N	157-53.01W	g		TUIM01MV
*** Acoustic Doppler Current Profiler ***										
1613	311204	0	ADCP	B current measurements	GDC	32-42.40N	117-14.18W	g		TUIM01MV
1729	250105	0	ADCP	E current measurements	GDC	21-18.91N	157-53.01W	g		TUIM01MV
*** Argo Floats ***										
0926	010105	0	TDCT	ARGOS #1749	IGPP	31-57.19N	121-00.31W	g		TUIM01MV
2104	010105	0	TDCT	ARGOS #1750	IGPP	31-14.26N	123-46.17W	g		TUIM01MV
2311	020105	0	TDCT	ARGOS #1751	IGPP	29-39.22N	130-02.43W	g		TUIM01MV
1115	030105	0	TDCT	ARGOS #1756	IGPP	29-10.45N	132-59.83W	g		TUIM01MV
1241	040105	0	TDCT	ARGOS #1774	IGPP	27-04.08N	139-00.01W	g		TUIM01MV
2338	040105	0	TDCT	ARGOS #1775	IGPP	26-11.55N	141-27.68W	g		TUIM01MV
1144	050105	0	TDCT	ARGOS #1772	IGPP	25-12.27N	143-59.12W	g		TUIM01MV
2347	050105	0	TDCT	ARGOS #1773	IGPP	24-11.44N	146-29.82W	g		TUIM01MV
*** Hydrocast ***										
0038	080105	0	HCNA	B Rosette deployed	IGPP	20-05.86N	154-36.62W	g		TUIM01MV
0430	080105	0	HCNA	E Rosette on deck	IGPP	20-05.86N	154-36.62W	g		TUIM01MV
*** Ocean Bottom Seismometers ***										
0000	080105	0	SBOB	OBS #1 deployed	IGPP	20-05.40N	154-36.99W	g		TUIM01MV
1100	080105	0	SBOB	OBS #2 deployed	IGPP	20-30.00N	154-56.28W	g		TUIM01MV
2036	080105	0	SBOB	OBS #3 deployed	IGPP	21-12.47N	155-40.86W	g		TUIM01MV
0755	090105	0	SBOB	OBS #4 deployed	IGPP	22-17.61N	155-35.67W	g		TUIM01MV
1730	090105	0	SBOB	OBS #5 deployed	IGPP	21-30.26N	154-59.66W	g		TUIM01MV
0222	100105	0	SBOB	OBS #6 deployed	IGPP	21-00.00N	154-28.98W	g		TUIM01MV
0903	100105	0	SBOB	OBS #7 deployed	IGPP	21-31.18N	153-59.22W	g		TUIM01MV
1830	100105	0	SBOB	OBS #8 deployed	IGPP	20-53.57N	153-17.65W	g		TUIM01MV
0551	110105	0	SBOB	OBS #9 deployed	IGPP	20-30.98N	154-00.00W	g		TUIM01MV
1351	110105	0	SBOB	OBS #10 deployed	IGPP	19-58.55N	153-53.88W	g		TUIM01MV
2043	110105	0	SBOB	OBS #11 deployed	IGPP	19-29.59N	153-30.07W	g		TUIM01MV
0638	120105	0	SBOB	OBS #12 deployed	IGPP	19-30.15N	154-00.91W	g		TUIM01MV
1241	120105	0	SBOB	OBS #13 deployed	IGPP	19-15.69N	154-23.70W	g		TUIM01MV
2057	120105	0	SBOB	OBS #14 deployed	IGPP	18-47.60N	153-59.71W	g		TUIM01MV
0452	130105	0	SBOB	OBS #15 deployed	IGPP	18-47.95N	153-18.06W	g		TUIM01MV
1343	130105	0	SBOB	OBS #16 deployed	IGPP	18-29.69N	152-50.38W	g		TUIM01MV
2110	130105	0	SBOB	OBS #17 deployed	IGPP	18-28.99N	152-08.02W	g		TUIM01MV

#GMT	DDMMYY	SAMP	B	SAMPLE	DISP				p	CRUISE
#TIME	DATE	TZ	CODE	E IDENTIFIER	CODE	LATITUDE	LONGITUDE		c	LEG-SHIP
#-----	--	---	-	-----	----	-----	-----	-----	-	-----
0245	140105	0	SBOB	X OBS failed	IGPP	18-20.85N	152-30.35W	g		TUIM01MV
0722	140105	0	SBOB	OBS #18 deployed	IGPP	17-54.35N	153-17.52W	g		TUIM01MV
0907	150105	0	SBOB	OBS #24 deployed	IGPP	18-48.14N	154-48.03W	g		TUIM01MV
1615	150105	0	SBOB	OBS #25 deployed	IGPP	18-25.03N	155-10.85W	g		TUIM01MV
2341	150105	0	SBOB	OBS #23 deployed	IGPP	18-23.95N	154-29.92W	g		TUIM01MV
0854	160105	0	SBOB	OBS #22 deployed	IGPP	17-59.03N	154-02.02W	g		TUIM01MV
1658	160105	0	SBOB	OBS #20 deployed	IGPP	17-17.97N	153-42.00W	g		TUIM01MV
0026	170105	0	SBOB	OBS #19 deployed	IGPP	16-42.73N	153-24.41W	g		TUIM01MV
1005	170105	0	SBOB	OBS #21 deployed	IGPP	17-10.82N	154-41.57W	g		TUIM01MV
1809	170105	0	SBOB	OBS #26 deployed	IGPP	17-58.65N	155-00.30W	g		TUIM01MV
0118	180105	0	SBOB	OBS #27 deployed	IGPP	18-00.05N	155-43.06W	g		TUIM01MV
1101	180105	0	SBOB	OBS #28 deployed	IGPP	17-36.02N	156-29.98W	g		TUIM01MV
1955	180105	0	SBOB	OBS #29 deployed	IGPP	18-24.21N	156-48.39W	g		TUIM01MV
0306	190105	0	SBOB	OBS #30 deployed	IGPP	18-18.04N	156-10.11W	g		TUIM01MV
1008	190105	0	SBOB	OBS #31 deployed	IGPP	18-46.46N	156-27.85W	g		TUIM01MV
1743	190105	0	SBOB	OBS #32 deployed	IGPP	18-59.00N	157-13.71W	g		TUIM01MV
0415	200105	0	SBOB	OBS #33 deployed	IGPP	20-20.71N	157-37.55W	g		TUIM01MV
1217	200105	0	SBOB	OBS #34 deployed	IGPP	19-49.99N	156-55.94W	g		TUIM01MV
1829	200105	0	SBOB	OBS #33 deployed	IGPP	19-28.60N	156-30.64W	g		TUIM01MV

## #\*\*\* Dredges \*\*\*

0330	210105	0	DRRO	B Dredge #1 delployed	IGPP	20-00.37N	156-04.20W	g		TUIM01MV
0400	210105	0	DRRO	E Dredge #1 on bottom	IGPP	20-00.38N	156-04.19W	g		TUIM01MV
1846	210105	0	DRRO	Dredge #2 on bottom	IGPP	20-27.43N	156-02.43W	g		TUIM01MV
2253	210105	0	DRRO	B Dredge #3 deployed	IGPP	20-27.30N	156-02.36W	g		TUIM01MV
2323	210105	0	DRRO	E Dredge #3 on bottom	IGPP	20-27.30N	156-02.36W	g		TUIM01MV
0336	220105	0	DRRO	B Dredge #4 deployed	IGPP	20-08.56N	156-04.62W	g		TUIM01MV
0404	220105	0	DRRO	E Dredge #4 on bottom	IGPP	20-08.55N	156-04.62W	g		TUIM01MV
1951	220105	0	DRRO	B Dredge #5 deployed	IGPP	20-12.49N	156-34.95W	g		TUIM01MV
2112	220105	0	DRRO	E Dredge #5 on bottom	IGPP	20-12.49N	156-34.94W	g		TUIM01MV
0133	230105	0	DRRO	B Dredge #6 deployed	IGPP	20-06.01N	156-35.94W	g		TUIM01MV
0250	230105	0	DRRO	E Dredge #6 on bottom	IGPP	20-06.01N	156-35.93W	g		TUIM01MV
1748	230105	0	DRRO	B Dredge #7 deployed	IGPP	20-22.62N	157-15.21W	g		TUIM01MV
1902	230105	0	DRRO	E Dredge #7 on bottom	IGPP	20-22.62N	157-15.21W	g		TUIM01MV
2217	230105	0	DRRO	B Dredge #8 deployed	IGPP	20-22.76N	157-17.62W	g		TUIM01MV
2325	230105	0	DRRO	E Dredge #8 on bottom	IGPP	20-22.75N	157-17.62W	g		TUIM01MV
0416	240105	0	DRRO	B Dredge #9 deployed	IGPP	20-36.28N	156-54.75W	g		TUIM01MV
0430	240105	0	DRRO	E Dredge #9 on bottom	IGPP	20-36.27N	156-54.75W	g		TUIM01MV

## #\*\*\* Expendable Bathythermographs \*\*\*

2055	311204	0	BTXP	TF_00001 Fast XBT	GDC	32-28.46N	117-56.85W	g		TUIM01MV
1757	010105	0	BTXP	TF_00002 Fast XBT	GDC	31-27.74N	123-00.88W	g		TUIM01MV
1916	020105	0	BTXP	TF_00003 Fast XBT	GDC	29-39.94N	129-04.48W	g		TUIM01MV
1924	020105	0	BTXP	TF_00004 Fast XBT	GDC	29-39.92N	129-06.48W	g		TUIM01MV
1933	020105	0	BTXP	TF_00005 Fast XBT	GDC	29-39.89N	129-08.72W	g		TUIM01MV
1936	020105	0	BTXP	TF_00006 Fast XBT	GDC	29-39.88N	129-09.47W	g		TUIM01MV
1859	030105	0	BTXP	TF_00007 Fast XBT	GDC	28-31.89N	134-50.56W	g		TUIM01MV
1905	030105	0	BTXP	TF_00008 Fast XBT	GDC	28-31.39N	134-52.02W	g		TUIM01MV
2013	040105	0	BTXP	TF_00009 Fast XBT	GDC	26-27.70N	140-42.39W	g		TUIM01MV
2021	040105	0	BTXP	TF_00010 Fast XBT	GDC	26-27.08N	140-44.13W	g		TUIM01MV
2138	040105	0	BTXP	TF_00011 Fast XBT	GDC	26-21.11N	141-00.89W	g		TUIM01MV
2145	040105	0	BTXP	TF_00012 Fast XBT	GDC	26-20.56N	141-02.45W	g		TUIM01MV
2334	050105	0	BTXP	TF_00013 Fast XBT	GDC	24-12.54N	146-27.10W	g		TUIM01MV

0026	070105	0	BTXP	TF_00015	Fast	XBT	GDC	21-56.30N	151-43.84W	g	TUIM01MV
0113	080105	0	BTXP	TF_00016	Fast	XBT	GDC	20-05.86N	154-36.62W	g	TUIM01MV
0116	080105	0	BTXP	TF_00017	Fast	XBT	GDC	20-05.86N	154-36.62W	g	TUIM01MV
0111	100105	0	BTXP	TF_00018	Fast	XBT	GDC	21-02.79N	154-32.79W	g	TUIM01MV
0331	120105	0	BTXP	TF_00019	Fast	XBT	GDC	19-18.34N	153-29.52W	g	TUIM01MV
0340	120105	0	BTXP	TF_00020	Fast	XBT	GDC	19-18.71N	153-31.05W	g	TUIM01MV
0348	140105	0	BTXP	TF_00021	Fast	XBT	GDC	18-15.71N	152-42.34W	g	TUIM01MV
1117	160105	0	BTXP	T5_00022			GDC	17-58.89N	154-02.00W	g	TUIM01MV
0244	170105	0	BTXP	T5_00023			GDC	16-42.96N	153-24.43W	g	TUIM01MV
0340	180105	0	BTXP	TF_00024	Fast	XBT	GDC	18-00.04N	155-43.15W	g	TUIM01MV
0256	200105	0	BTXP	TF_00025	Fast	XBT	GDC	20-07.38N	157-34.17W	g	TUIM01MV
0206	240105	0	BTXP	TF_00026	Fast	XBT	GDC	20-24.11N	157-14.60W	g	TUIM01MV
0213	240105	0	BTXP	TF_00027	Fast	XBT	GDC	20-24.84N	157-13.41W	g	TUIM01MV

# End Sample Index TUIM01MV