

*Report and Index of  
Underway Marine Geophysical Data*

**Vancouver Expedition**

**Leg 28**

**(VANC28MV)**

R/V Melville

(Issued Jul 2004)

**Ports:**

Port Moresby, Papua New Guinea (22-Apr-2004)

to

Port Moresby, Papua New Guinea (06-May-2004)

**Chief Scientist:** Chuck Nittrouer  
University of Washington  
nittroue@ocean.washington.edu

Computer Tech - Ronald L Moe  
Resident Tech - Geoff Ravenhill

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#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.

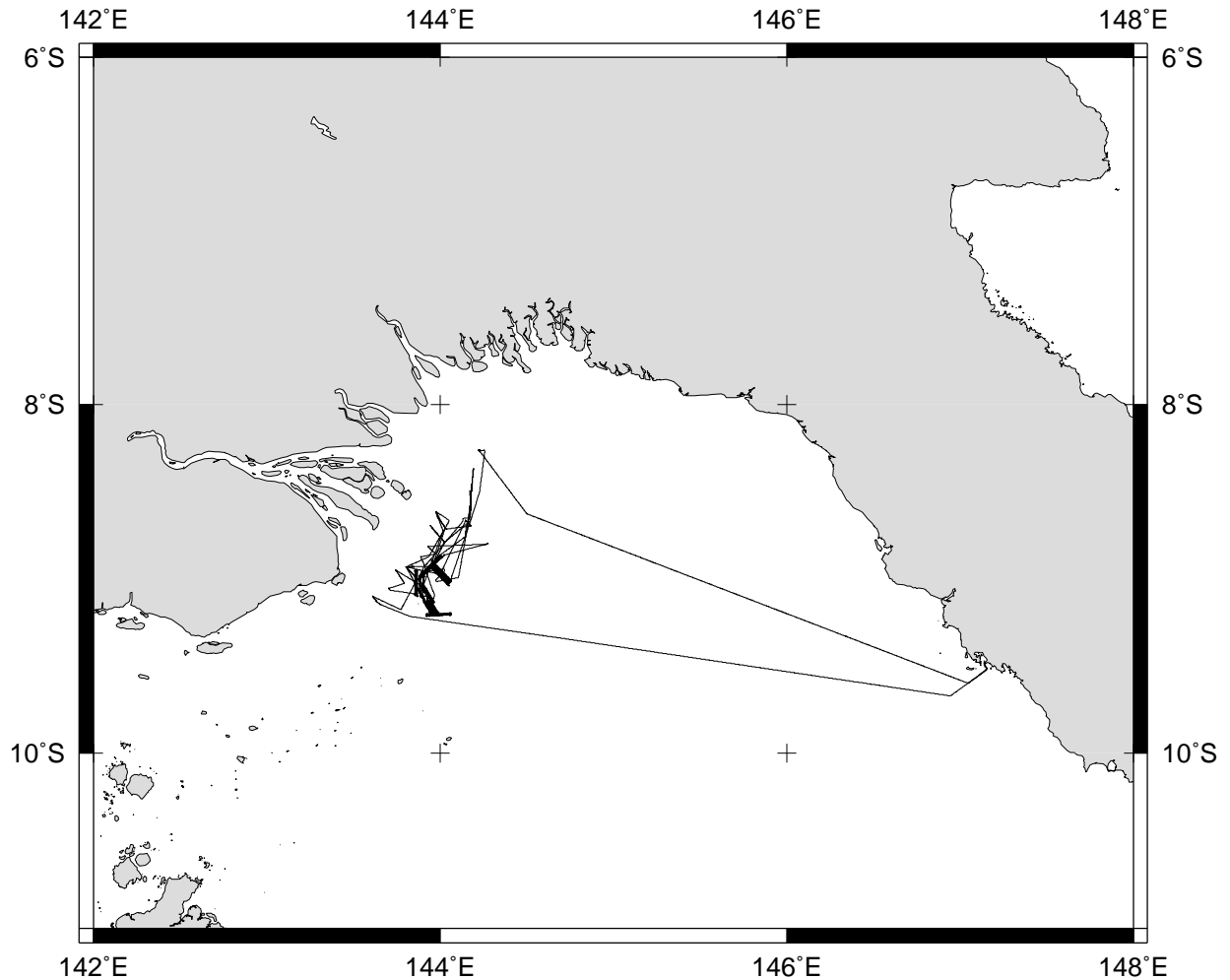
**Sample Index** - list of begin/end times and positions of all underway records as well as samples and measurements from other disciplines collected on the leg.

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

Rev 05/2002



**VANCOUVER EXPEDITION LEG 28 (VANC28MV)**

=====

**CHIEF SCIENTIST: Chuck Nittrouer, University of Washington**

**PORTS: Port Moresby - Port Moresby, Papua New Guinea**

**DATES: 22 April - 6 May 2004**

**SHIP: R/V Melville**

**TOTAL MILEAGE OF UNDERWAY DATA COLLECTED**

**Cruise-2028 miles**

**Magnetics-none collected**

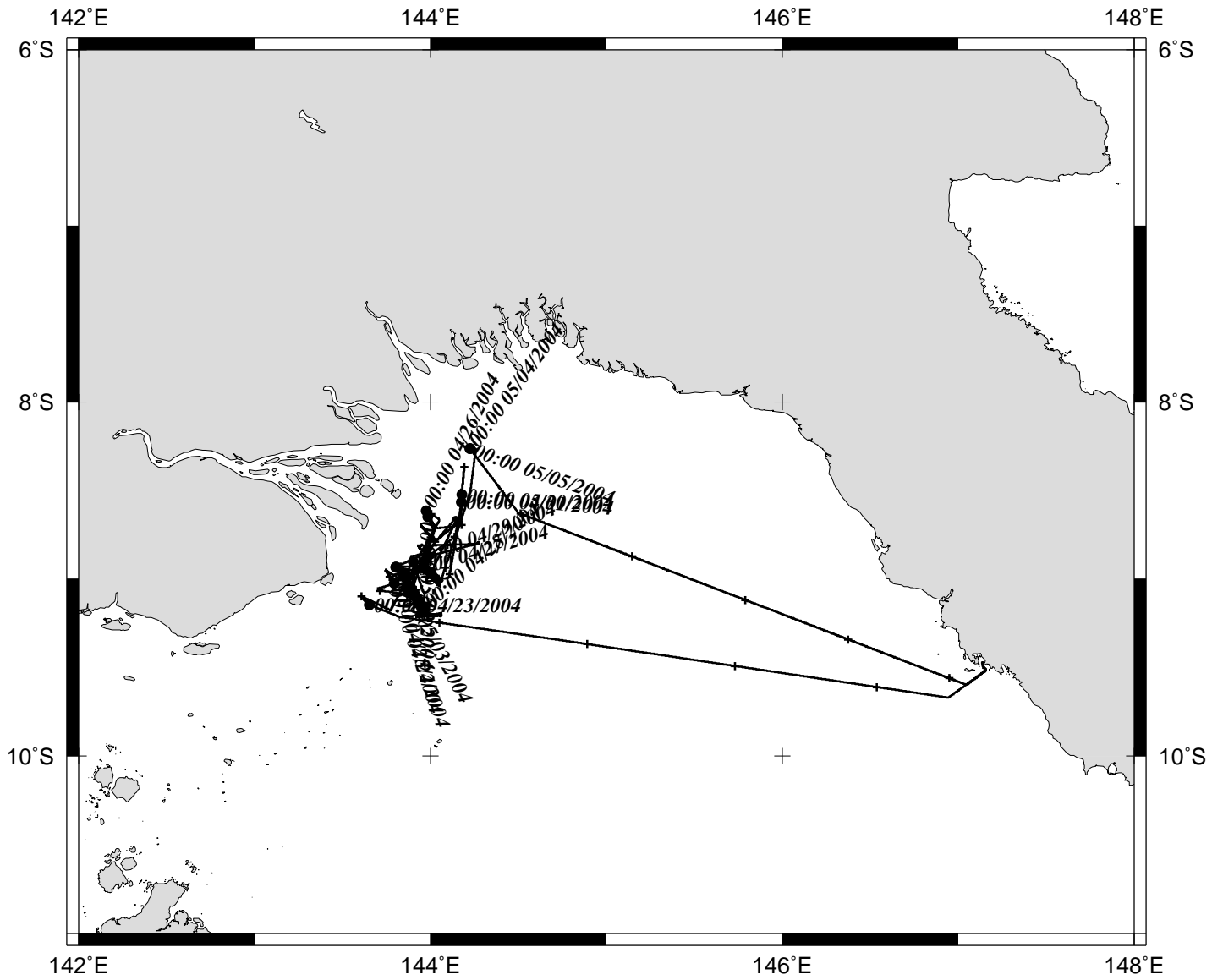
**Bathymetry-340 miles**

**Seismic Reflection-none collected**

**Multibeam-340 miles**

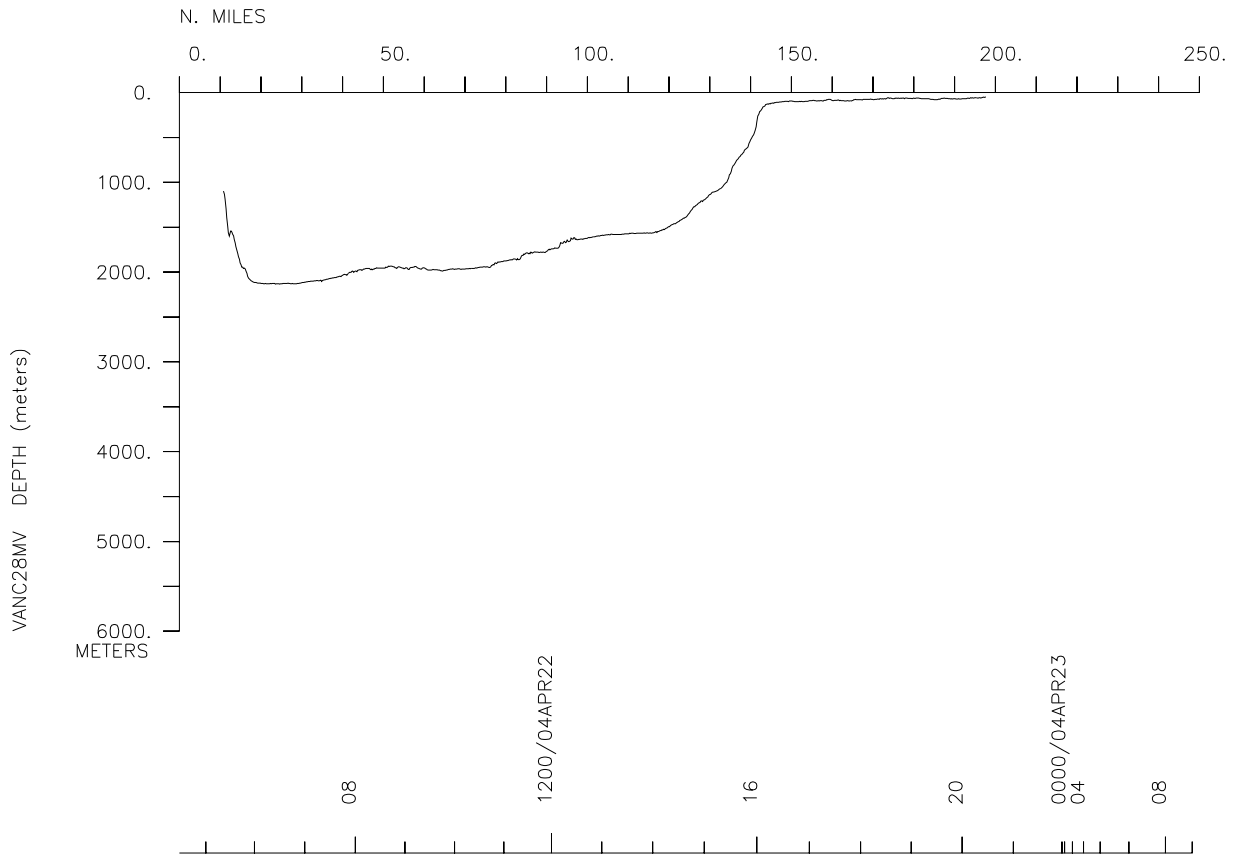
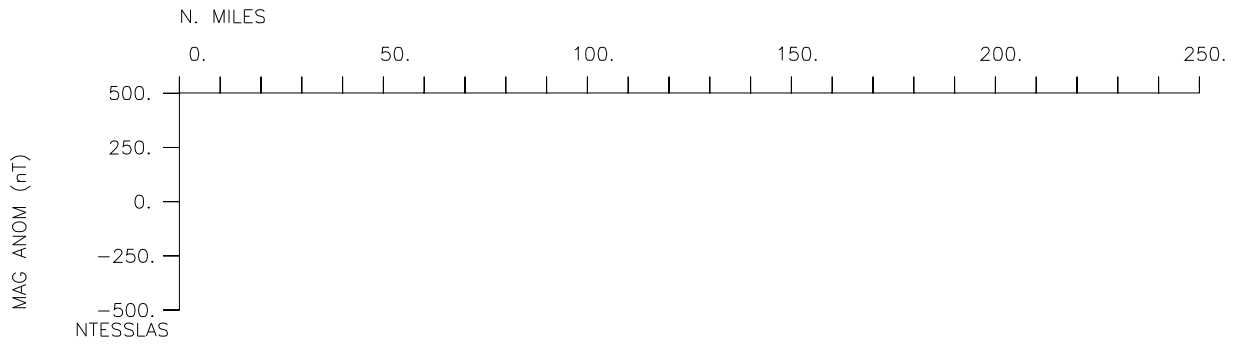
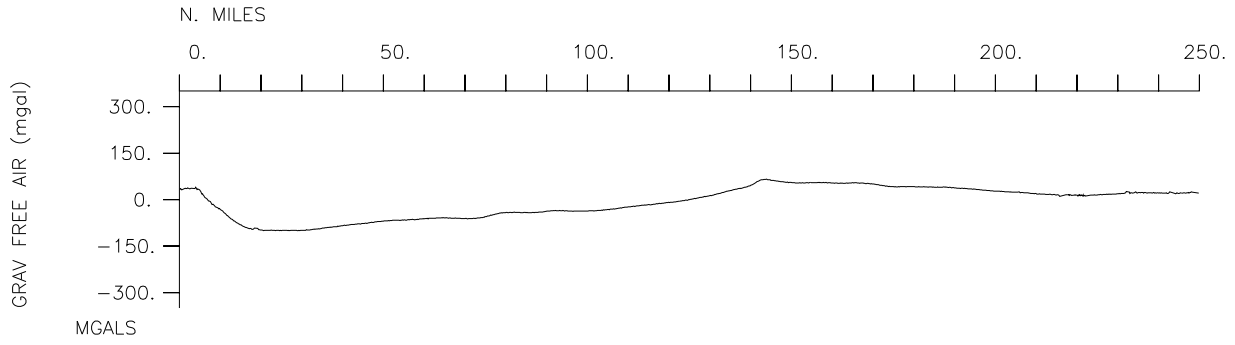
**Gravity-2028 miles**

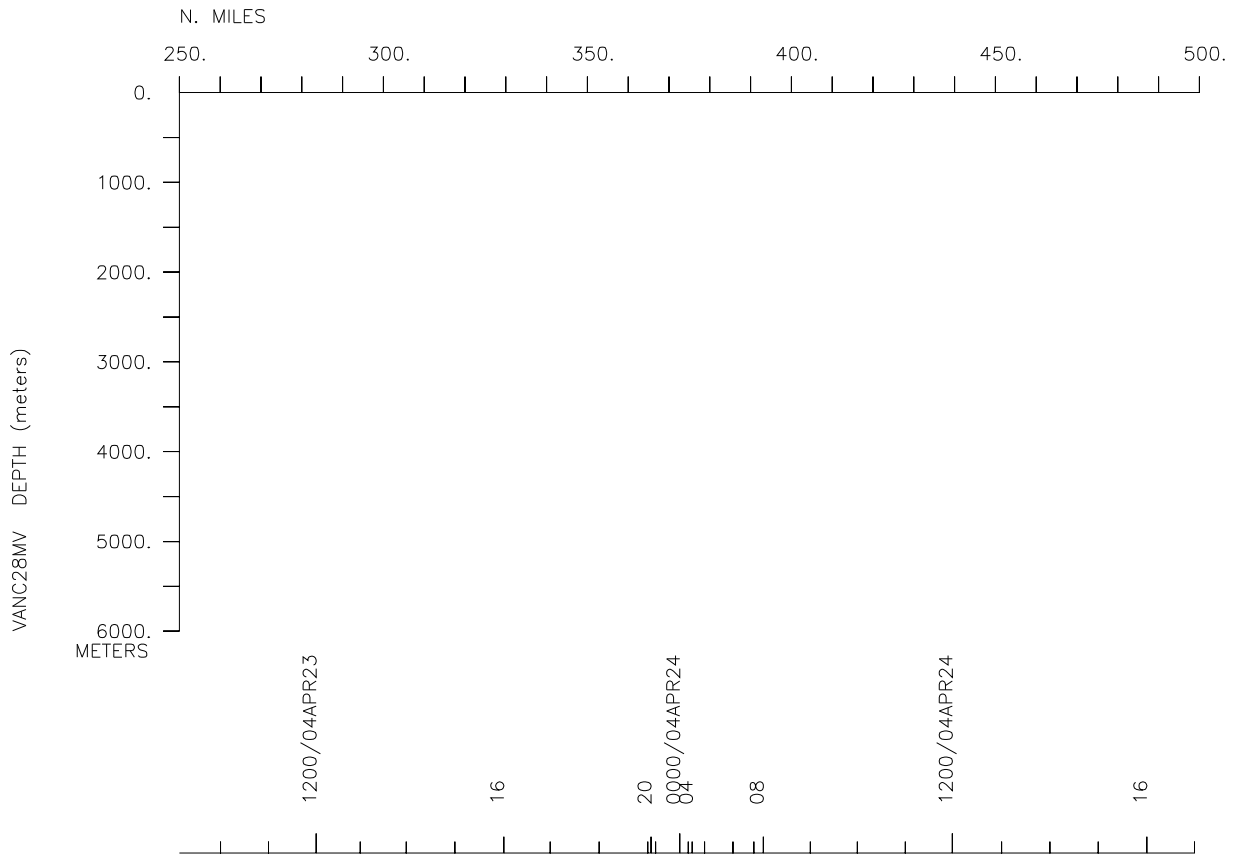
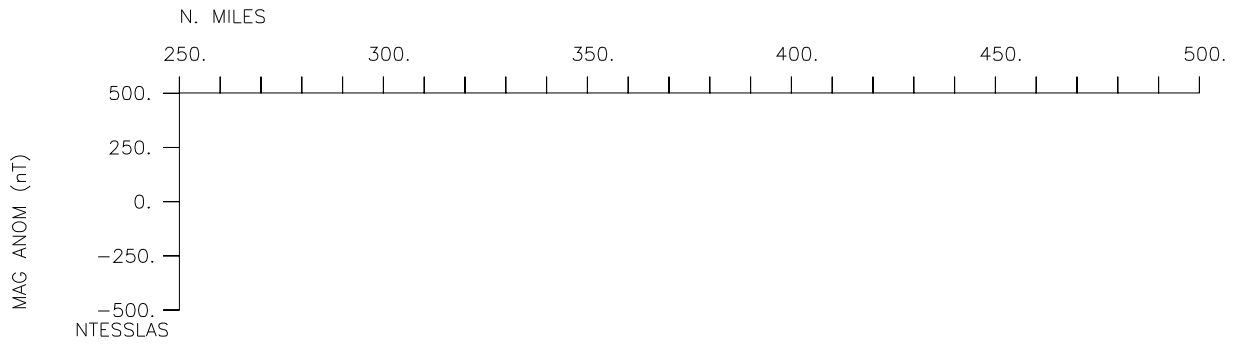
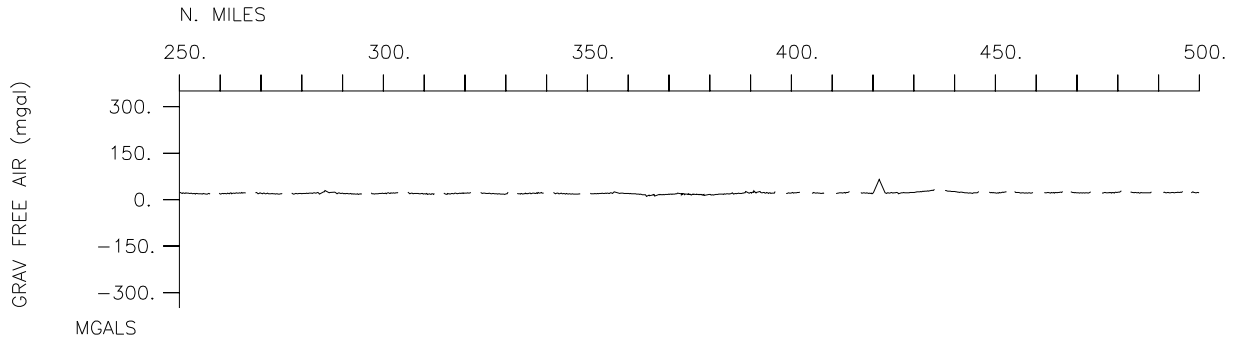
# VANC28MV

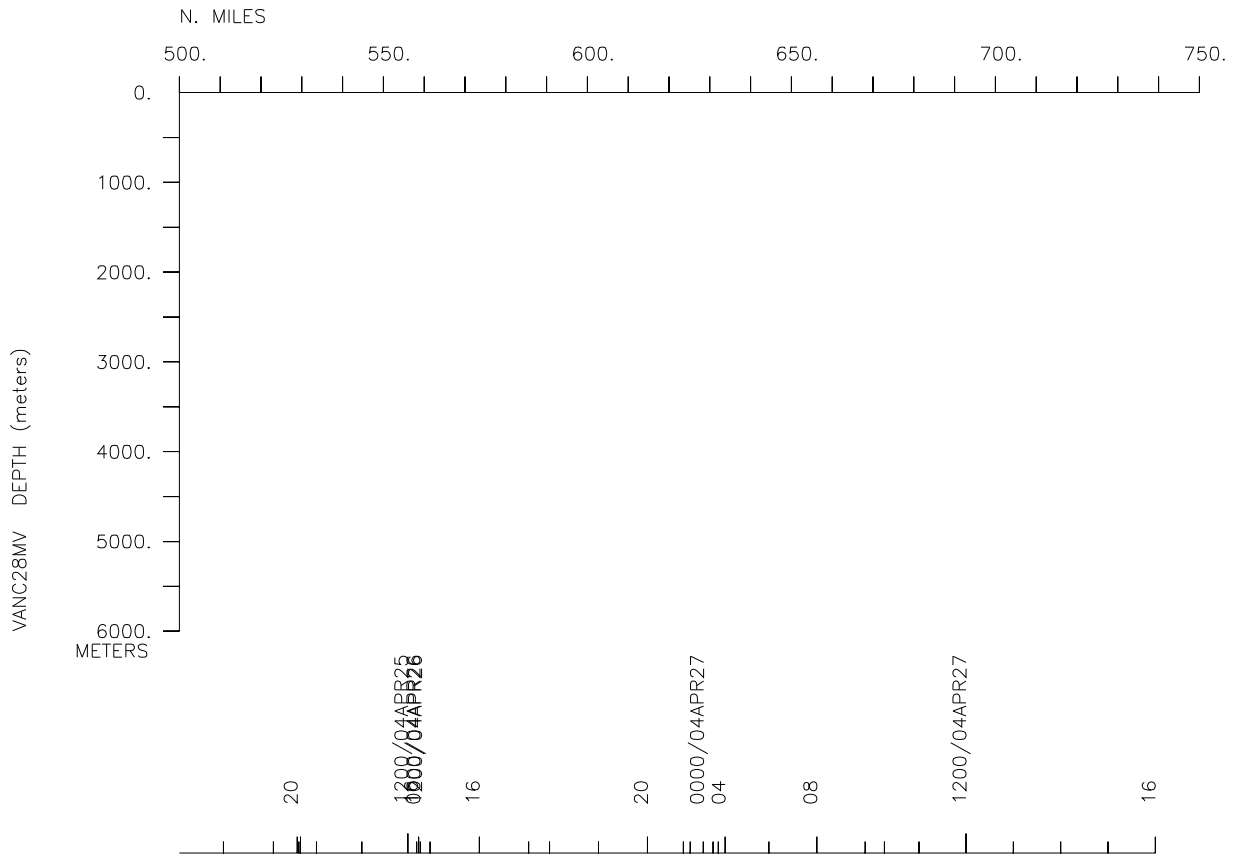
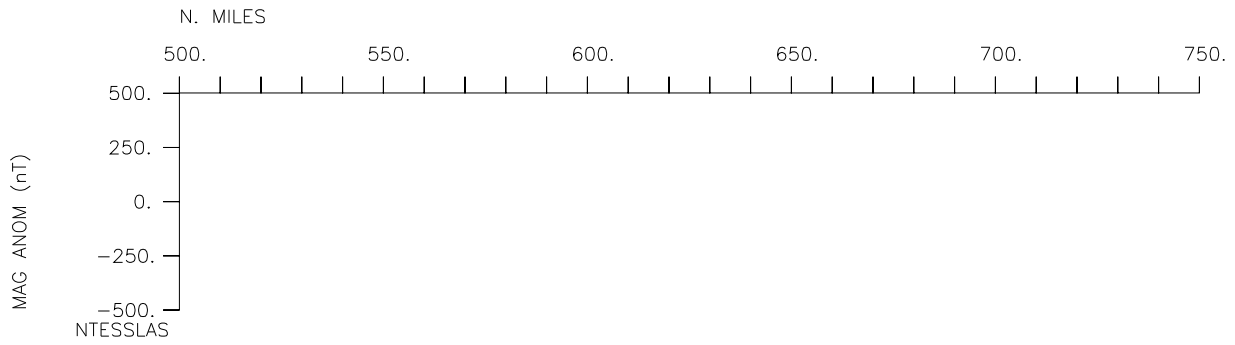
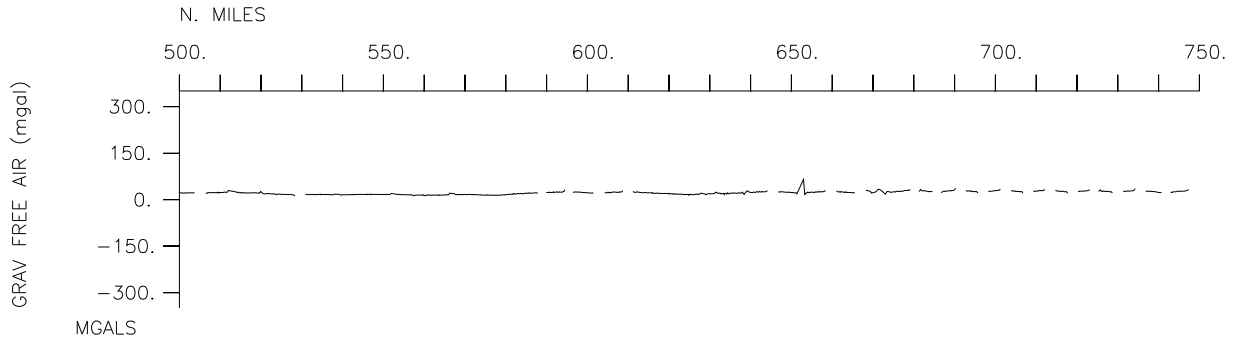


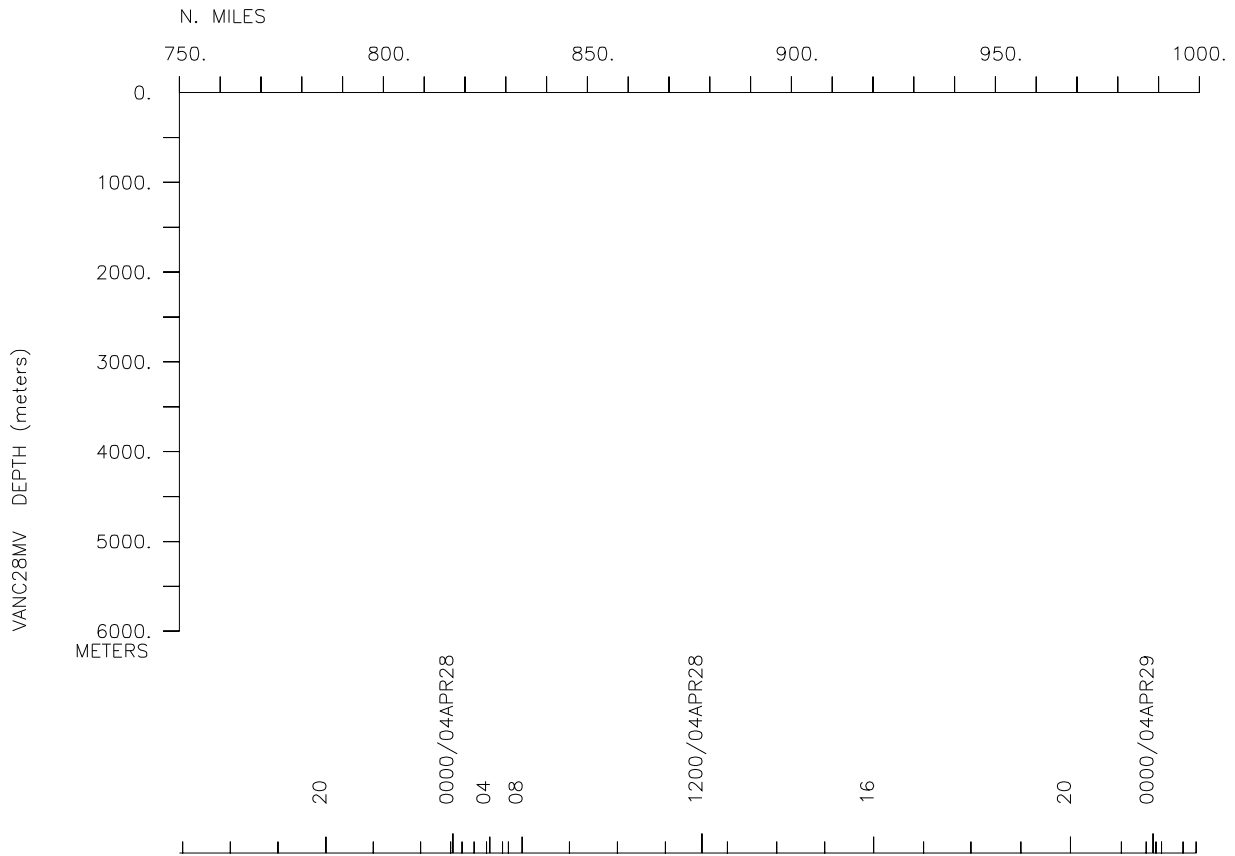
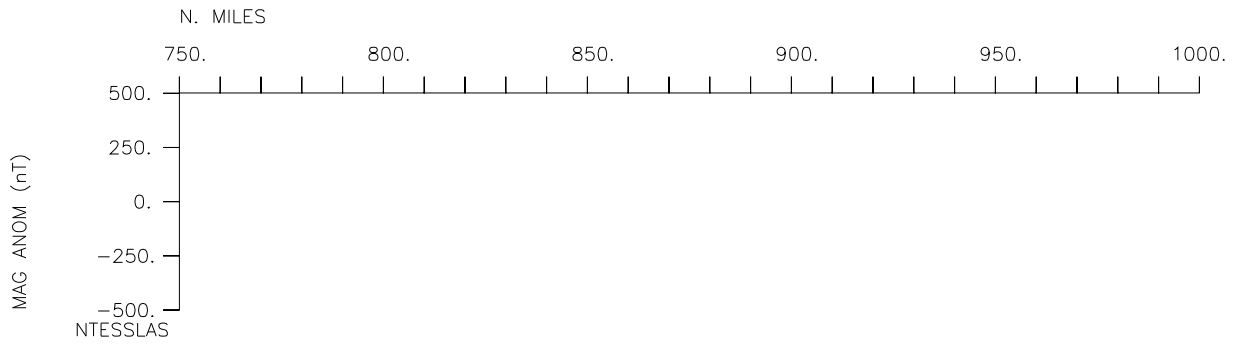
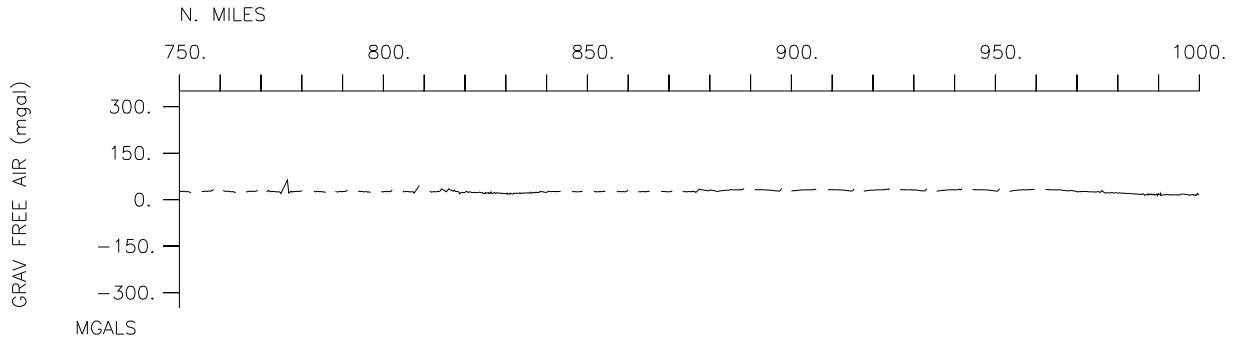
**GMT** 2004 Jul 20 14:33:30

:Port Moresby - Port Moresby, Papua New Guinea 22 April - 6 May 2004:

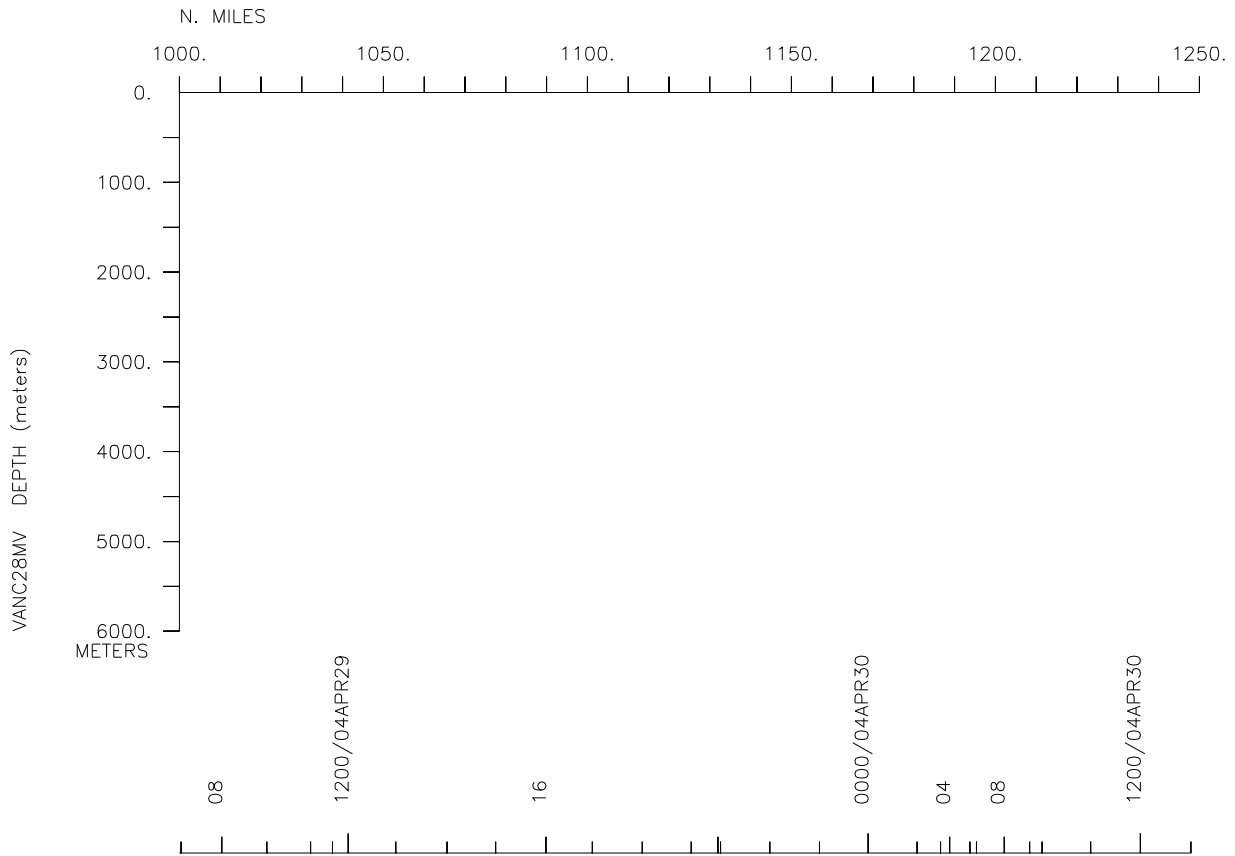
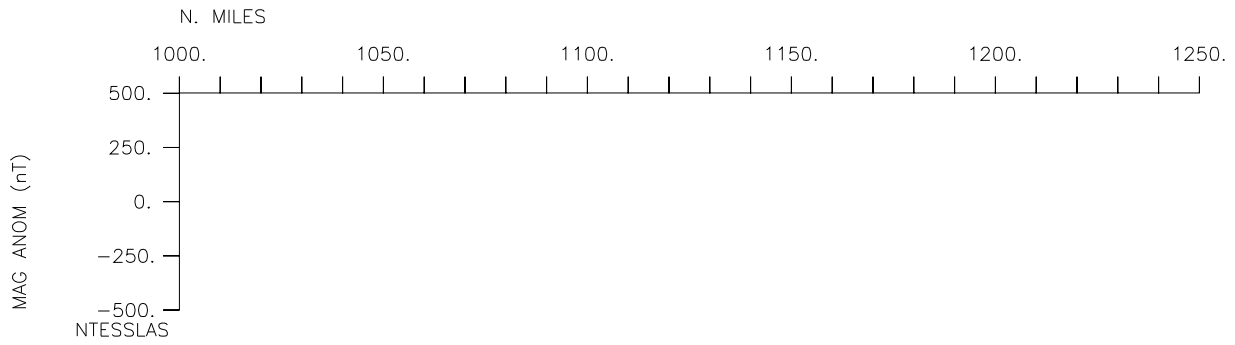
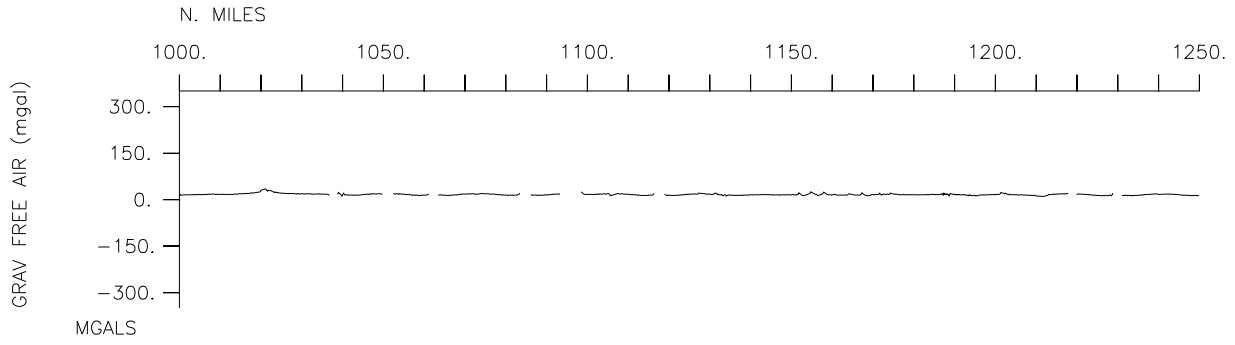


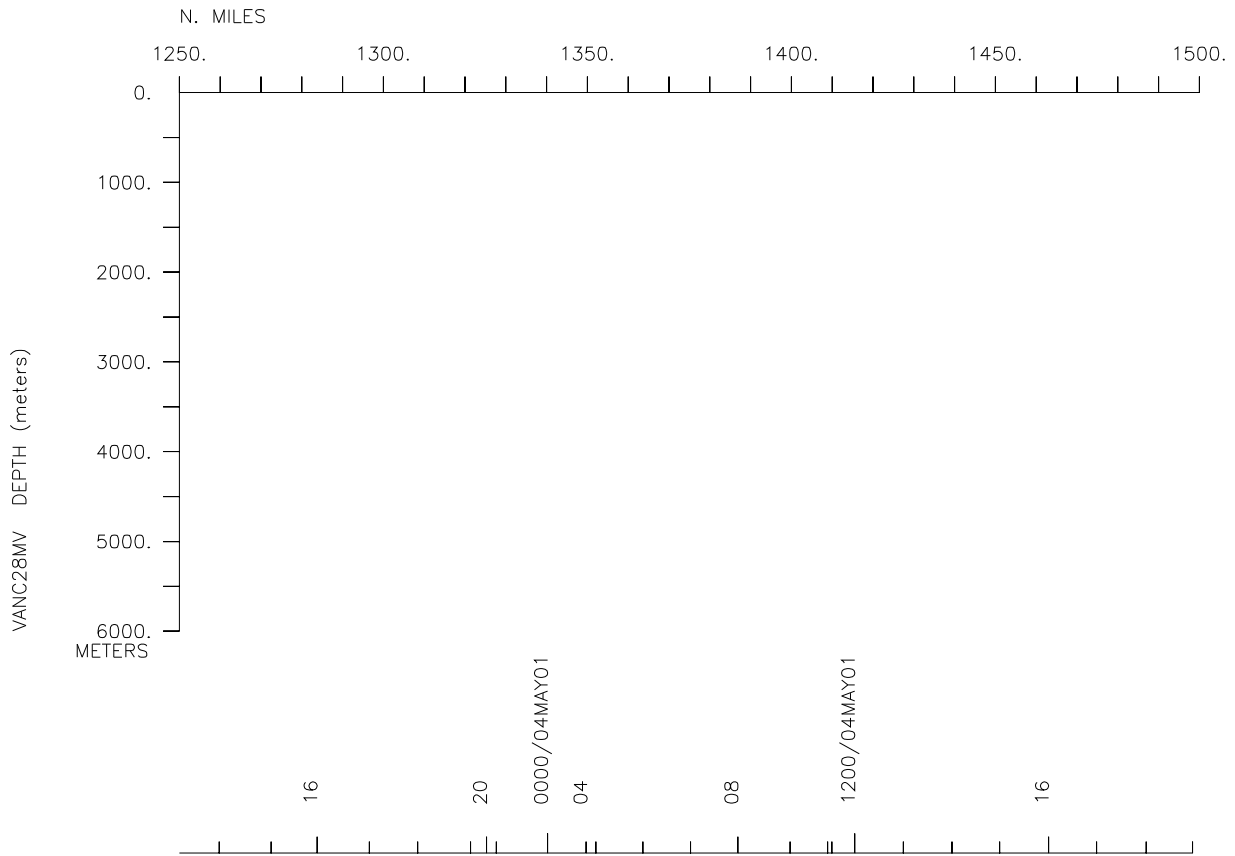
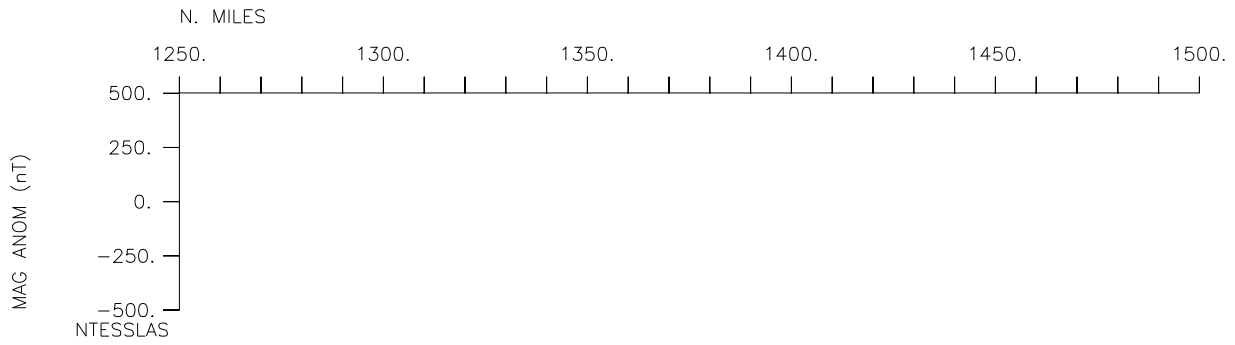
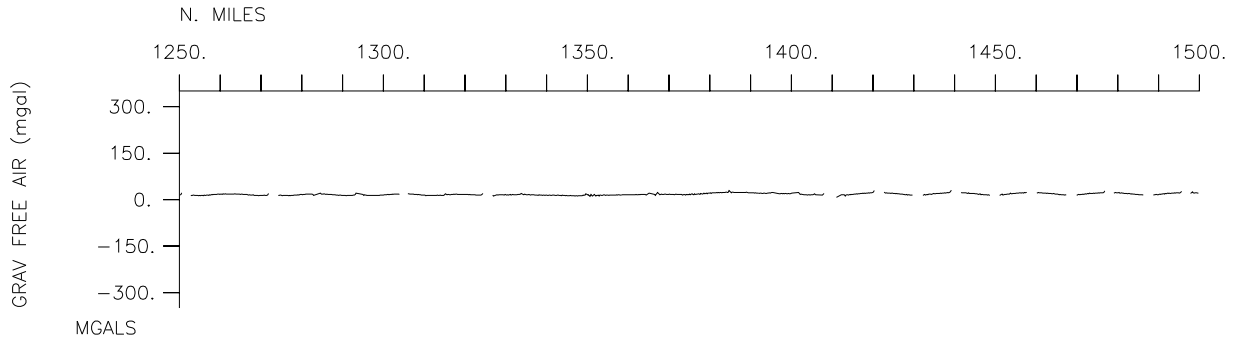


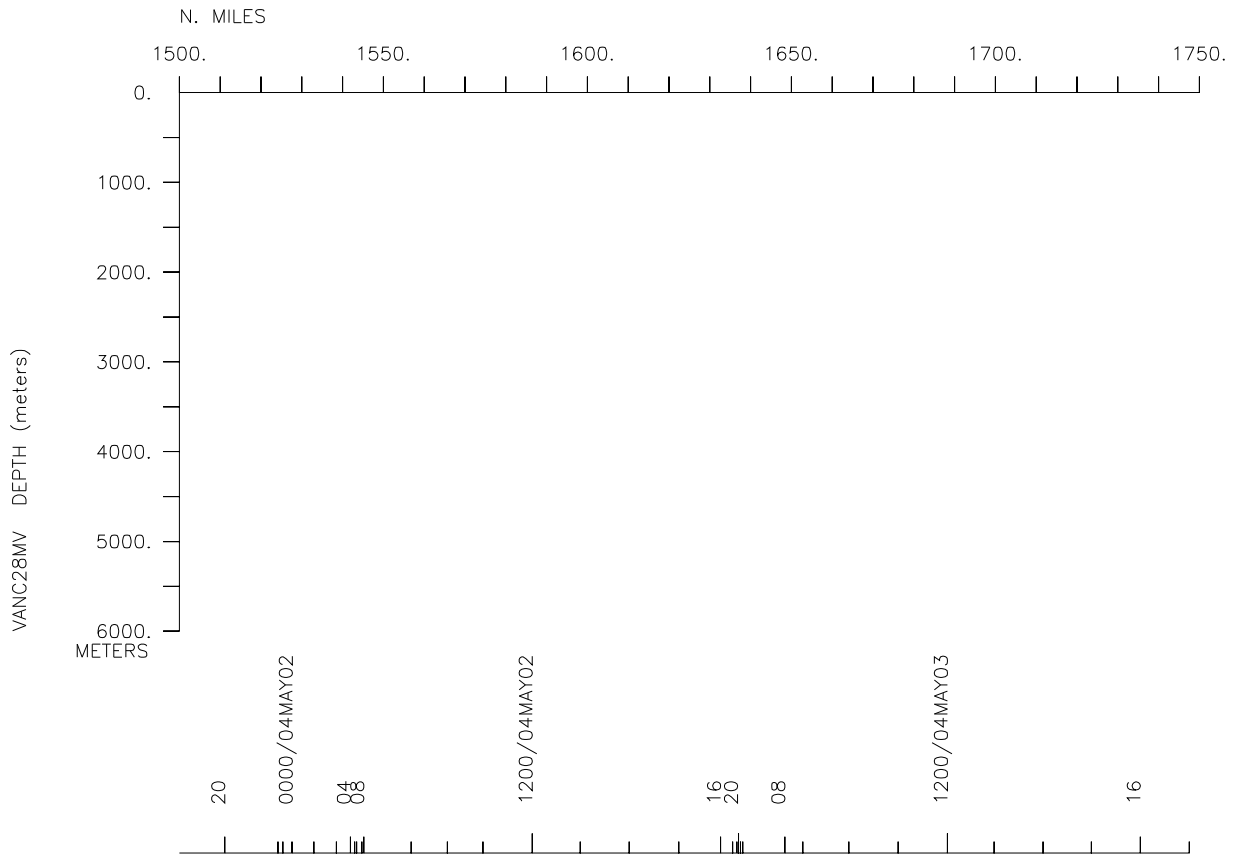
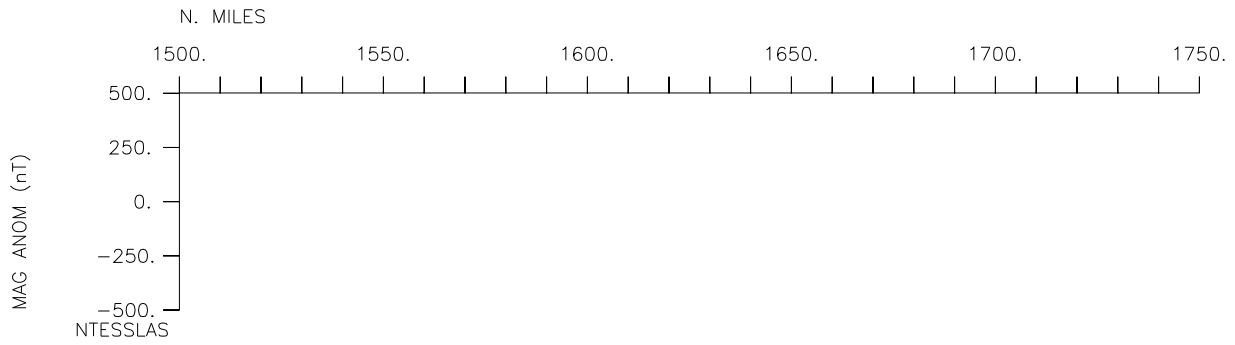
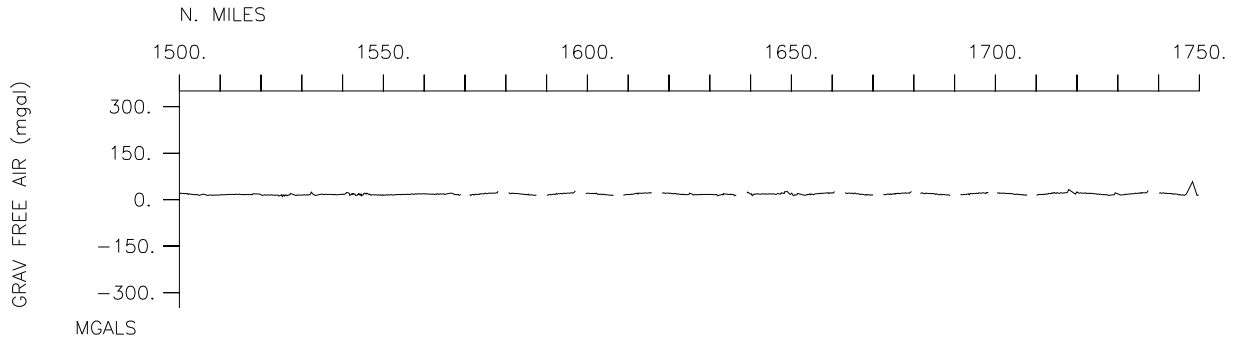


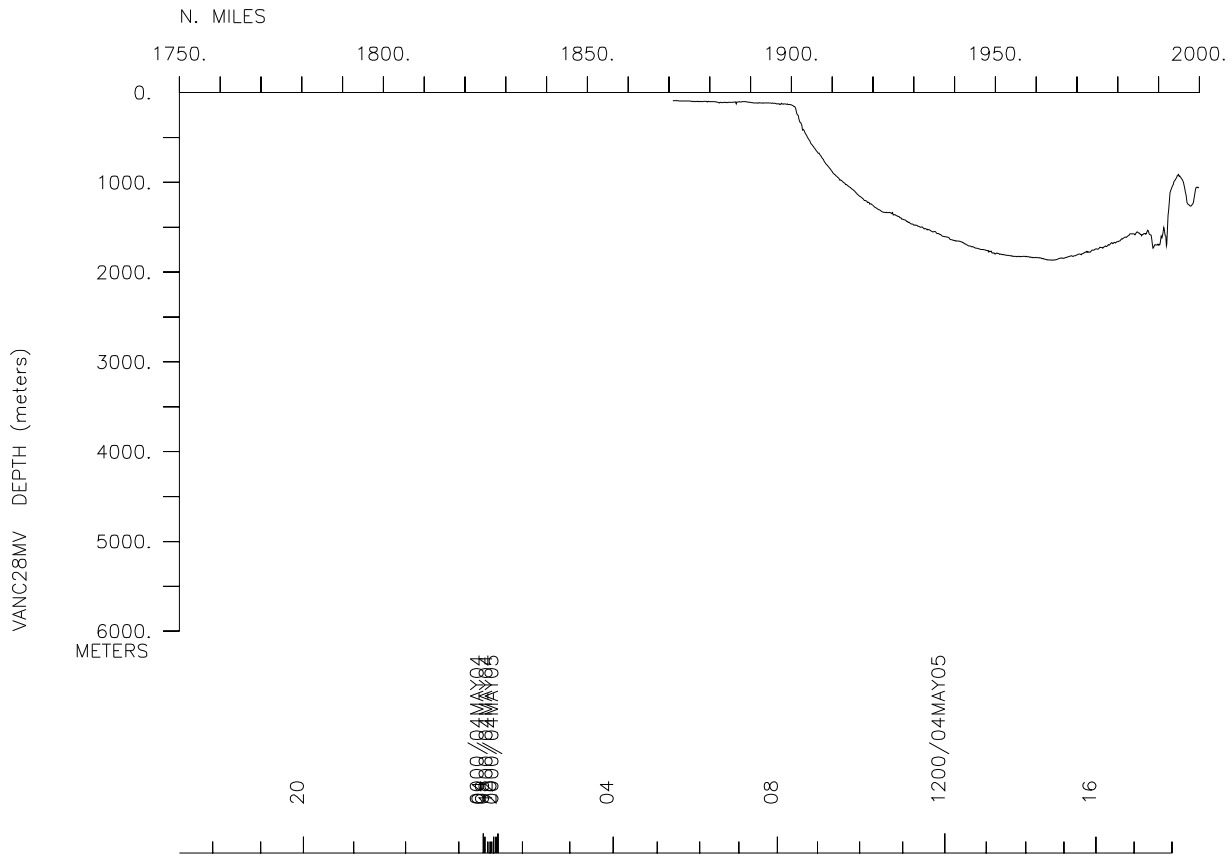
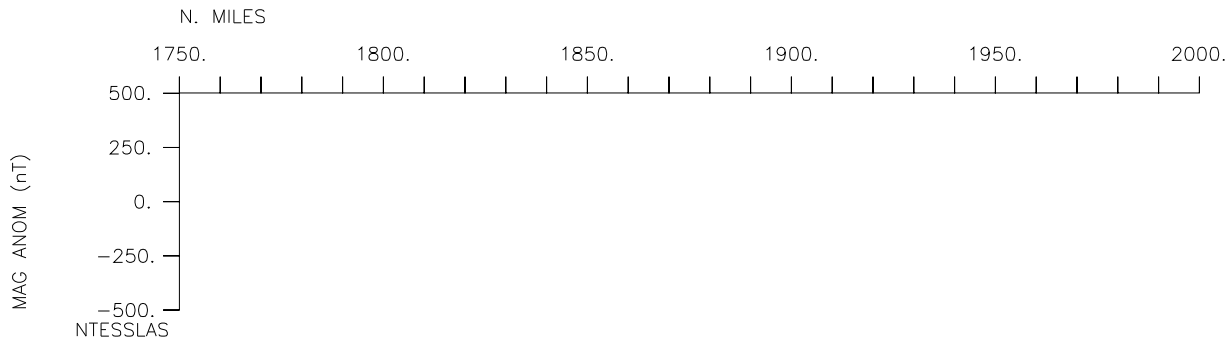
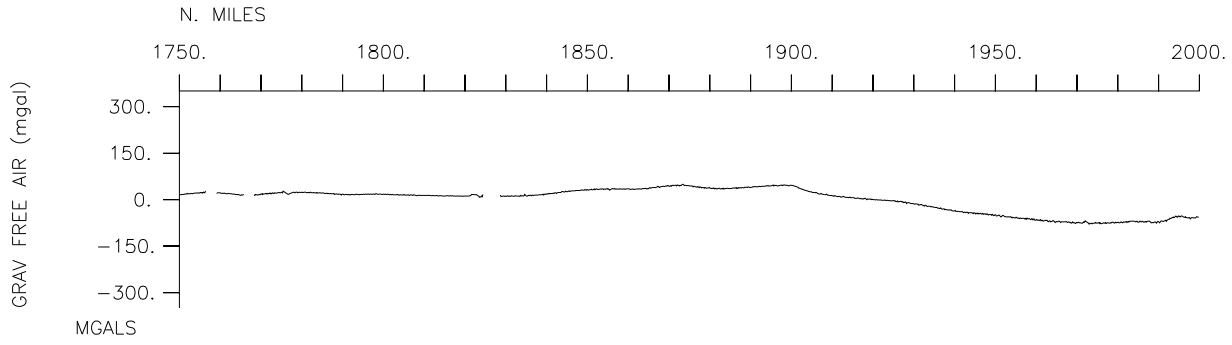


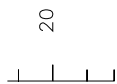
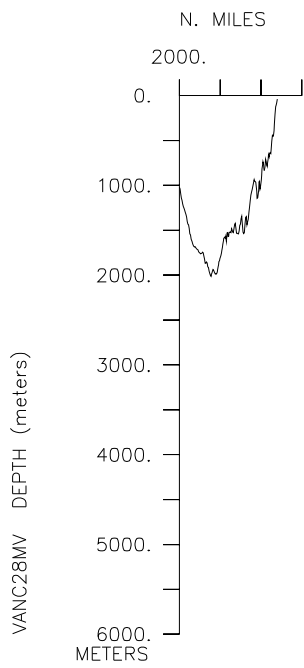
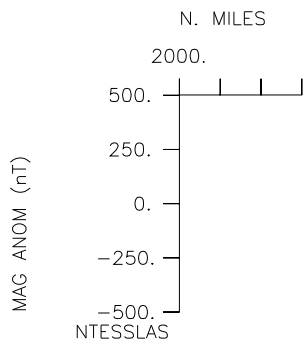
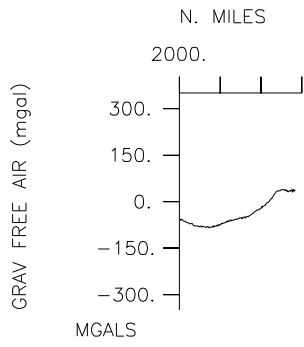












## #\*\*\* Ports \*\*\*

```
0418 220404   LGPT B Port Moresby, PNG.      09-28.00S 147-09.00E f VANC28MV
0800 050504   LGPT E Port Moresby, PNG.      09-28.00S 147-09.00E f VANC28MV
```

## #\*\*\* Personnel \*\*\*

```
# *****NAME***** *****TITLE***** *****AFFILIATION***** **CRID**
#-----
PECS UWA  Nittrouer, C.      Chief Scientist      Univ. of Washington  VANC28MV
PESP UWA  Ogston, A.          Scientist            Univ. of Washington  VANC28MV
PEST UWA  Crockett, J.      Grad student         Univ. of Washington  VANC28MV
PECT STS  Moe, R.            Computer Tech        Scripps Institution  VANC28MV
PESP SIX  Naar, D.          Scientist            Univ. South Florida  VANC28MV
PEST SIX  Gaydos, D.        Grad student         Univ. South Florida  VANC28MV
PEST UWA  Palinkas, C.       Grad student         Univ. of Washington  VANC28MV
PEST UWA  Lomnický, T.        Grad student         Univ. of Washington  VANC28MV
PEMT UWA  Feiger, G.         Technician           Univ. of Washington  VANC28MV
PEMT UWA  Nittrouer, D.        Technician           Univ. of Washington  VANC28MV
PEMT SIX  Monacci, N.          Technician           Univ. South Carolina VANC28MV
PEMT SIX  Donahue, B.         Technician           Univ. South Florida  VANC28MV
PEST SIX  Ciembronowiitcz, D.  Grad student         Univ. South Florida  VANC28MV
PEST SIX  Wolfson, M.            Grad student         Univ. South Florida  VANC28MV
PERT STS  Ravenhill, G.     Resident Tech        Scripps Institution  VANC28MV
PESP SIX  Mead, R.              Scientist            Univ. South Carolina VANC28MV
PEMT UWA  Presto, M.             Technician           Univ. of Washington  VANC28MV
```

## #\*\*\* 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 \*\*\*

```
0419 220404  0 LBUW B Underway log books  STS  9-28.21S 147-08.27E g VANC28MV
0800 050504  0 LBUW E Underway log books  STS  8-52.48S 145-08.71E g VANC28MV
```

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

```
0523 220404  0 MBSR B v.beam & sidescan  GDC  9-35.69S 147-03.11E g VANC28MV
2137 050504  0 MBSR E v.beam & sidescan  GDC  9-32.00S 147-08.21E g VANC28MV
```

## #\*\*\* Echo Sounder Records \*\*\*

```
0418 220404  0 DPR3 B Echosounder 3.5kHz  GDC  9-28.17S 147-08.29E g VANC28MV
0800 050504  0 DPR3 E Echosounder 3.5kHz  GDC  8-52.48S 145-08.71E g VANC28MV
```

#GMT	DDMMYY	SAMP	B	SAMPLE	DISP				p	CRUISE
#TIME	DATE	TZ	CODE	E IDENTIFIER	CODE	LATITUDE	LONGITUDE		c	LEG-SHIP
#-----	--	----	-	-----	----	-----	-----		-	-----
#*** Digital Gravity ***										
0418	220404	0	GVDD	B digital gravity	GDC	9-28.17S	147-08.29E	g		VANC28MV
0800	050504	0	GVDD	E digital gravity	GDC	8-52.48S	145-08.71E	g		VANC28MV
#*** Integrated Meteorological Acquisition System ***										
0418	220404	0	IMET	B Weather Measurements	GDC	9-28.17S	147-08.29E	g		VANC28MV
0800	050504	0	IMET	E Weather Measurements	GDC	8-52.48S	145-08.71E	g		VANC28MV
#*** Acoustic Doppler Current Profiler ***										
0418	220404	0	ADCP	B Current Measurements	GDC	9-28.17S	147-08.29E	g		VANC28MV
0800	050504	0	ADCP	E Current Measurements	GDC	8-52.48S	145-08.71E	g		VANC28MV
#*** Temperature, Conductivity, Depth ***										
#*** Samples to University of South Florida ***										
0823	230404	0	TDXX	SV #6	SIX	9-01.26S	143-51.32E	g		VANC28MV
0641	240404	0	TDXX	SV #7	SIX	9-02.65S	143-53.80E	g		VANC28MV
1726	260404	0	TDXX	SV #8	SIX	9-04.04S	143-53.51E	g		VANC28MV
0948	270404	0	TDXX	SV #9	SIX	9-06.13S	143-55.94E	g		VANC28MV
1206	280404	0	TDXX	SV #10	SIX	9-12.48S	143-57.93E	g		VANC28MV
1048	290404	0	TDXX	SV #11	SIX	8-51.97S	144-01.16E	g		VANC28MV
1116	290404	0	TDXX	SV #12	SIX	8-51.83S	144-01.40E	g		VANC28MV
0933	300404	0	TDXX	SV #13	SIX	8-55.07S	143-57.76E	g		VANC28MV
0959	010504	0	TDXX	SV #14	SIX	8-54.87S	143-57.55E	g		VANC28MV
0957	020504	0	TDXX	SV #15	SIX	8-58.50S	143-59.95E	g		VANC28MV
0807	030504	0	TDXX	SV #16	SIX	8-58.21S	143-58.82E	g		VANC28MV
#*** Hydrocast ***										
2236	220404	0	HCXX	BLISP #2 26M	UWA	9-08.86S	143-39.16E	g		VANC28MV
0058	230404	0	HCXX	BLISP #3 23M	UWA	9-07.72S	143-37.85E	g		VANC28MV
0303	230404	0	HCXX	BLISP #4 17M	UWA	9-06.03S	143-36.46E	g		VANC28MV
0337	230404	0	HCXX	BLISP #5 17M	UWA	9-06.03S	143-36.46E	g		VANC28MV
0604	230404	0	HCXX	BLISP #6 39M	UWA	9-10.70S	143-46.40E	g		VANC28MV
2003	230404	0	HCXX	BLISP #7 22M	UWA	9-04.11S	143-42.81E	g		VANC28MV
2138	230404	0	HCXX	BLISP #8 16M	UWA	9-03.43S	143-42.17E	g		VANC28MV
0005	240404	0	HCXX	BLISP #9 24M	UWA	9-01.63S	143-47.63E	g		VANC28MV
0230	240404	0	HCXX	BLISP #10 22M	UWA	8-59.42S	143-46.13E	g		VANC28MV
0507	240404	0	HCXX	BLISP #11 16M	UWA	8-57.05S	143-44.55E	g		VANC28MV
2006	240404	0	HCXX	BLISP #12 13M	UWA	8-56.02S	143-48.23E	g		VANC28MV
2103	240404	0	HCXX	BLISP #13 13M	UWA	8-56.02S	143-48.23E	g		VANC28MV
2204	240404	0	HCXX	BLISP #14 14M	UWA	8-56.02S	143-48.23E	g		VANC28MV
2307	240404	0	HCXX	BLISP #15 13M	UWA	8-56.02S	143-48.23E	g		VANC28MV
0002	250404	0	HCXX	BLISP #16 15M	UWA	8-56.02S	143-48.23E	g		VANC28MV
0106	250404	0	HCXX	BLISP #17 14M	UWA	8-56.02S	143-48.23E	g		VANC28MV
0202	250404	0	HCXX	BLISP #18 14M	UWA	8-56.02S	143-48.23E	g		VANC28MV
0307	250404	0	HCXX	BLISP #19 14M	UWA	8-56.02S	143-48.23E	g		VANC28MV

#GMT	DDMMYY	SAMP	B	SAMPLE	DISP				p	CRUISE
#TIME	DATE	TZ	CODE	E IDENTIFIER	CODE	LATITUDE	LONGITUDE		c	LEG-SHIP
#	---	---	---	---	---	---	---	---	---	---
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0503	250404	0	HCXX	BLISP #21	14M	UWA	8-56.02S	143-48.23E	g	VANC28MV
0605	250404	0	HCXX	BLISP #22	14M	UWA	8-56.02S	143-48.23E	g	VANC28MV
0700	250404	0	HCXX	BLISP #23	14M	UWA	8-56.02S	143-48.23E	g	VANC28MV
0805	250404	0	HCXX	BLISP #24	14M	UWA	8-56.02S	143-48.23E	g	VANC28MV
0902	250404	0	HCXX	BLISP #24	12M	UWA	8-56.02S	143-48.23E	g	VANC28MV
1307	250404	0	HCXX	BLISP #26	16M	UWA	8-36.91S	143-58.53E	g	VANC28MV
1404	250404	0	HCXX	BLISP #27	16M	UWA	8-36.92S	143-58.53E	g	VANC28MV
1503	250404	0	HCXX	BLISP #28	18M	UWA	8-36.91S	143-58.53E	g	VANC28MV
1603	250404	0	HCXX	BLISP #29	18M	UWA	8-36.91S	143-58.53E	g	VANC28MV
1700	250404	0	HCXX	BLISP #30	17M	UWA	8-36.91S	143-58.53E	g	VANC28MV
1759	250404	0	HCXX	BLISP #31	19M	UWA	8-36.91S	143-58.53E	g	VANC28MV
1904	250404	0	HCXX	BLISP #32	19M	UWA	8-36.91S	143-58.53E	g	VANC28MV
2001	250404	0	HCXX	BLISP #33	19M	UWA	8-36.91S	143-58.53E	g	VANC28MV
2103	250404	0	HCXX	BLISP #34	19M	UWA	8-36.91S	143-58.53E	g	VANC28MV
2201	250404	0	HCXX	BLISP #35	18M	UWA	8-36.91S	143-58.53E	g	VANC28MV
2303	250404	0	HCXX	BLISP #36	19M	UWA	8-36.92S	143-58.53E	g	VANC28MV
0006	260404	0	HCXX	BLISP #37	18M	UWA	8-36.91S	143-58.53E	g	VANC28MV
0020	260404	0	HCXX	BLISP #38	18M	UWA	8-36.91S	143-58.53E	g	VANC28MV
0206	260404	0	HCXX	BLISP #40	17M	UWA	8-36.91S	143-58.53E	g	VANC28MV
0305	260404	0	HCXX	BLISP #41	18M	UWA	8-36.91S	143-58.53E	g	VANC28MV
0406	260404	0	HCXX	BLISP #42	17M	UWA	8-36.91S	143-58.53E	g	VANC28MV
0506	260404	0	HCXX	BLISP #43	18M	UWA	8-36.91S	143-58.53E	g	VANC28MV
0603	260404	0	HCXX	BLISP #44	17M	UWA	8-36.91S	143-58.53E	g	VANC28MV
0659	260404	0	HCXX	BLISP #45	17M	UWA	8-36.91S	143-58.53E	g	VANC28MV
0802	260404	0	HCXX	BLISP #46	17M	UWA	8-36.91S	143-58.53E	g	VANC28MV
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1006	260404	0	HCXX	BLISP #48	17M	UWA	8-36.91S	143-58.53E	g	VANC28MV
1102	260404	0	HCXX	BLISP #49	18M	UWA	8-36.91S	143-58.53E	g	VANC28MV
1203	260404	0	HCXX	BLISP #50	18M	UWA	8-36.91S	143-58.53E	g	VANC28MV
1300	260404	0	HCXX	BLISP #51	18M	UWA	8-36.91S	143-58.53E	g	VANC28MV
1405	260404	0	HCXX	BLISP #52	17M	UWA	8-36.91S	143-58.53E	g	VANC28MV
2200	260404	0	HCXX	BLISP #53	15M	UWA	8-56.02S	143-48.23E	g	VANC28MV
2305	260404	0	HCXX	BLISP #54	36M	UWA	8-58.36S	143-50.33E	g	VANC28MV
0122	270404	0	HCXX	BLISP #54	47M	UWA	9-00.81S	143-52.89E	g	VANC28MV
0410	270404	0	HCXX	BLISP #55	71M	UWA	8-59.33S	143-52.92E	g	VANC28MV
0404	280404	0	HCXX	BLISP #56	63M	UWA	9-03.53S	143-53.11E	g	VANC28MV
0528	280404	0	HCXX	BLISP #57	74M	UWA	8-59.20S	143-52.91E	g	VANC28MV
2157	280404	0	HCXX	BLISP #58	34M	UWA	8-55.81S	143-54.55E	g	VANC28MV
0033	290404	0	HCXX	BLISP #59	21M	UWA	8-53.70S	143-53.70E	g	VANC28MV
0216	290404	0	HCXX	BLISP #60	15M	UWA	8-52.44S	143-53.16E	g	VANC28MV
0313	290404	0	HCXX	BLISP #61	30M	UWA	8-51.49S	143-58.40E	g	VANC28MV
0520	290404	0	HCXX	BLISP #62	18M	UWA	8-49.62S	143-56.32E	g	VANC28MV
0655	290404	0	HCXX	BLISP #63	15M	UWA	8-48.89S	143-55.75E	g	VANC28MV
0206	300404	0	HCXX	BLISP #64	31M	UWA	8-47.45S	144-01.53E	g	VANC28MV
0419	300404	0	HCXX	BLISP #65	19M	UWA	8-45.93S	144-00.11E	g	VANC28MV
0643	300404	0	HCXX	BLISP #66	15M	UWA	8-41.82S	143-56.60E	g	VANC28MV
2037	300404	0	HCXX	BLISP #67	68M	UWA	8-45.87S	144-08.29E	g	VANC28MV
2229	300404	0	HCXX	BLISP #68	69M	UWA	8-45.87S	144-08.29E	g	VANC28MV
2215	010504	0	HCXX	BLISP #69	20M	UWA	8-36.91S	143-58.53E	g	VANC28MV
2305	010504	0	HCXX	BLISP #70	20M	UWA	8-38.94S	143-59.09E	g	VANC28MV



#GMT	DDMMYY	SAMP	B	SAMPLE	DISP				p	CRUISE
#TIME	DATE	TZ	CODE	E IDENTIFIER	CODE	LATITUDE	LONGITUDE		c	LEG-SHIP
#	---	---	---	---	---	---	---	---	---	---
0116	020504	0	HCXX	BLISP #71 32M	UWA	8-42.93S	144-02.18E	g		VANC28MV
0338	020504	0	HCXX	BLISP #71 33M	UWA	8-41.85S	144-10.65E	g		VANC28MV
0516	020504	0	HCXX	BLISP #72 22M	UWA	8-40.95S	144-09.74E	g		VANC28MV
0632	020504	0	HCXX	BLISP #73 16M	UWA	8-40.07S	144-08.84E	g		VANC28MV
0748	020504	0	HCXX	BLISP #74 14M	UWA	8-39.90S	144-08.70E	g		VANC28MV
1731	020504	0	HCXX	BLISP #75 12M	UWA	8-56.02S	143-48.23E	g		VANC28MV
1832	020504	0	HCXX	BLISP #76 13M	UWA	8-56.02S	143-48.23E	g		VANC28MV
1930	020504	0	HCXX	BLISP #77 14M	UWA	8-56.02S	143-48.23E	g		VANC28MV
2032	020504	0	HCXX	BLISP #78 15M	UWA	8-56.02S	143-48.23E	g		VANC28MV
2122	020504	0	HCXX	BLISP #79 16M	UWA	8-56.02S	143-48.23E	g		VANC28MV
2237	020504	0	HCXX	BLISP #80 16M	UWA	8-56.02S	143-48.23E	g		VANC28MV
2336	020504	0	HCXX	BLISP #81 16M	UWA	8-56.02S	143-48.23E	g		VANC28MV
0039	030504	0	HCXX	BLISP #82 16M	UWA	8-56.02S	143-48.23E	g		VANC28MV
0155	030504	0	HCXX	BLISP #83 16M	UWA	8-56.02S	143-48.23E	g		VANC28MV
0236	030504	0	HCXX	BLISP #84 16M	UWA	8-56.02S	143-48.23E	g		VANC28MV
0337	030504	0	HCXX	BLISP #85 14M	UWA	8-56.01S	143-48.23E	g		VANC28MV
0406	030504	0	HCXX	BLISP #86 14M	UWA	8-56.02S	143-48.23E	g		VANC28MV
0441	030504	0	HCXX	BLISP #87 14M	UWA	8-56.02S	143-48.23E	g		VANC28MV
0539	030504	0	HCXX	BLISP #88 12M	UWA	8-56.02S	143-48.23E	g		VANC28MV
0631	030504	0	HCXX	BLISP #89 12M	UWA	8-56.02S	143-48.23E	g		VANC28MV
0005	040504	0	HCXX	BLISP #90 17M	UWA	8-15.81S	144-13.44E	g		VANC28MV
0101	040504	0	HCXX	BLISP #91 16M	UWA	8-15.81S	144-13.44E	g		VANC28MV
0203	040504	0	HCXX	BLISP #92 17M	UWA	8-15.81S	144-13.44E	g		VANC28MV
0304	040504	0	HCXX	BLISP #93 17M	UWA	8-15.81S	144-13.44E	g		VANC28MV
0404	040504	0	HCXX	BLISP #94 16M	UWA	8-15.80S	144-13.44E	g		VANC28MV
0503	040504	0	HCXX	BLISP #95 14M	UWA	8-15.81S	144-13.44E	g		VANC28MV
0602	040504	0	HCXX	BLISP #96 11M	UWA	8-15.80S	144-13.44E	g		VANC28MV
0650	040504	0	HCXX	BLISP #97 11M	UWA	8-15.79S	144-13.40E	g		VANC28MV
0801	040504	0	HCXX	BLISP #98 16M	UWA	8-15.81S	144-13.44E	g		VANC28MV
0905	040504	0	HCXX	BLISP #99 16M	UWA	8-15.81S	144-13.42E	g		VANC28MV
1009	040504	0	HCXX	BLISP #100 17M	UWA	8-15.82S	144-13.41E	g		VANC28MV
1105	040504	0	HCXX	BLISP #101 17M	UWA	8-15.81S	144-13.44E	g		VANC28MV
1205	040504	0	HCXX	BLISP #102 16M	UWA	8-15.81S	144-13.44E	g		VANC28MV
1305	040504	0	HCXX	BLISP #103 15M	UWA	8-15.81S	144-13.44E	g		VANC28MV
1405	040504	0	HCXX	BLISP #104 15M	UWA	8-15.81S	144-13.44E	g		VANC28MV
1504	040504	0	HCXX	BLISP #105 16M	UWA	8-15.81S	144-13.44E	g		VANC28MV
1600	040504	0	HCXX	BLISP #106 19M	UWA	8-15.80S	144-13.44E	g		VANC28MV
1702	040504	0	HCXX	BLISP #107 18M	UWA	8-15.81S	144-13.44E	g		VANC28MV
1801	040504	0	HCXX	BLISP #108 12M	UWA	8-15.81S	144-13.44E	g		VANC28MV
1903	040504	0	HCXX	BLISP #109 12M	UWA	8-15.81S	144-13.44E	g		VANC28MV
2000	040504	0	HCXX	BLISP #110 12M	UWA	8-15.81S	144-13.44E	g		VANC28MV
2059	040504	0	HCXX	BLISP #111 14M	UWA	8-15.80S	144-13.45E	g		VANC28MV
2215	040504	0	HCXX	BLISP #112 17M	UWA	8-15.81S	144-13.44E	g		VANC28MV
2303	040504	0	HCXX	BLISP #113 18M	UWA	8-15.81S	144-13.44E	g		VANC28MV
0001	050504	0	HCXX	BLISP #114 15M	UWA	8-15.81S	144-13.44E	g		VANC28MV

#GMT	DDMMYY	SAMP	B	SAMPLE	DISP				p	CRUISE
#TIME	DATE	TZ	CODE	E IDENTIFIER	CODE	LATITUDE	LONGITUDE		c	LEG-SHIP
#-----	----	--	----	-----	-----	-----	-----	-----	-----	-----
#*** Conductivity, Temperature, Depth ***										
#*** Samples go to University of South Carolina ***										
2258	220404	0	TDCT	CTD #4	22M	SIX	9-08.88S	143-39.16E	g	VANC28MV
0111	230404	0	TDCT	CTD #5	23M	SIX	9-07.72S	143-37.85E	g	VANC28MV
0319	230404	0	TDCT	CTD #6	13M	SIX	9-06.03S	143-36.46E	g	VANC28MV
0620	230404	0	TDCT	CTD #7	34M	SIX	9-10.70S	143-46.40E	g	VANC28MV
2018	230404	0	TDCT	CTD #8	21M	SIX	9-04.10S	143-42.81E	g	VANC28MV
2152	230404	0	TDCT	CTD #9	13M	SIX	9-03.43S	143-42.17E	g	VANC28MV
0020	240404	0	TDCT	CTD #10	26M	SIX	9-01.62S	143-47.63E	g	VANC28MV
0247	240404	0	TDCT	CTD #11	16M	SIX	8-59.43S	143-46.13E	g	VANC28MV
2021	240404	0	TDCT	CTD #12	12M	SIX	8-56.02S	143-48.23E	g	VANC28MV
2219	240404	0	TDCT	CTD #13	11M	SIX	8-56.02S	143-48.23E	g	VANC28MV
0015	250404	0	TDCT	CTD #14	13M	SIX	8-56.02S	143-48.23E	g	VANC28MV
0214	250404	0	TDCT	CTD #15	9M	SIX	8-56.02S	143-48.23E	g	VANC28MV
0424	250404	0	TDCT	CTD #16	12M	SIX	8-56.02S	143-48.23E	g	VANC28MV
0616	250404	0	TDCT	CTD #17	13M	SIX	8-56.02S	143-48.23E	g	VANC28MV
0818	250404	0	TDCT	CTD #18	13M	SIX	8-56.02S	143-48.23E	g	VANC28MV
1316	250404	0	TDCT	CTD #19	13M	SIX	8-36.91S	143-58.53E	g	VANC28MV
1715	250404	0	TDCT	CTD #20	15M	SIX	8-36.91S	143-58.53E	g	VANC28MV
1917	250404	0	TDCT	CTD #21	15M	SIX	8-36.91S	143-58.53E	g	VANC28MV
2115	250404	0	TDCT	CTD #22	15M	SIX	8-36.91S	143-58.53E	g	VANC28MV
2318	250404	0	TDCT	CTD #23	13M	SIX	8-36.91S	143-58.53E	g	VANC28MV
0127	260404	0	TDCT	CTD #24	14M	SIX	8-36.91S	143-58.53E	g	VANC28MV
0320	260404	0	TDCT	CTD #25	12M	SIX	8-36.91S	143-58.53E	g	VANC28MV
0520	260404	0	TDCT	CTD #26	12M	SIX	8-36.91S	143-58.53E	g	VANC28MV
0708	260404	0	TDCT	CTD #27	12M	SIX	8-36.91S	143-58.53E	g	VANC28MV
0910	260404	0	TDCT	CTD #28	12M	SIX	8-36.91S	143-58.53E	g	VANC28MV
1114	260404	0	TDCT	CTD #29	12M	SIX	8-36.91S	143-58.53E	g	VANC28MV
1312	260404	0	TDCT	CTD #30	12M	SIX	8-36.91S	143-58.53E	g	VANC28MV
2212	260404	0	TDCT	CTD #31	12M	SIX	8-56.02S	143-48.23E	g	VANC28MV
2321	260404	0	TDCT	CTD #32	24M	SIX	8-58.36S	143-50.33E	g	VANC28MV
0030	270404	0	TDCT	CTD #33	24M	SIX	8-58.36S	143-50.33E	g	VANC28MV
0146	270404	0	TDCT	CTD #34	40M	SIX	9-00.80S	143-52.89E	g	VANC28MV
0434	270404	0	TDCT	CTD #35	68M	SIX	8-59.33S	143-52.92E	g	VANC28MV
2304	270404	0	TDCT	CTD #36	50M	SIX	9-10.01S	143-57.97E	g	VANC28MV
0039	280404	0	TDCT	CTD #37	56M	SIX	9-08.09S	143-56.27E	g	VANC28MV
0241	280404	0	TDCT	CTD #38	51M	SIX	9-03.09S	143-53.71E	g	VANC28MV
0351	280404	0	TDCT	CTD #39	57M	SIX	9-03.53S	143-53.11E	g	VANC28MV
0557	280404	0	TDCT	CTD #40	24M	SIX	8-59.21S	143-52.91E	g	VANC28MV
2220	280404	0	TDCT	CTD #41	37M	SIX	8-55.81S	143-54.55E	g	VANC28MV
0044	290404	0	TDCT	CTD #42	18M	SIX	8-53.70S	143-53.70E	g	VANC28MV
0328	290404	0	TDCT	CTD #43	18M	SIX	8-51.50S	143-58.40E	g	VANC28MV
0551	290404	0	TDCT	CTD #44	18M	SIX	8-49.62S	143-56.32E	g	VANC28MV
0223	300404	0	TDCT	CTD #45	30M	SIX	8-47.45S	144-01.53E	g	VANC28MV
0429	300404	0	TDCT	CTD #46	16M	SIX	8-45.93S	144-00.11E	g	VANC28MV
2055	300404	0	TDCT	CTD #47	59M	SIX	8-45.87S	144-08.29E	g	VANC28MV
2316	010504	0	TDCT	CTD #48	18M	SIX	8-38.95S	143-59.09E	g	VANC28MV
0132	020504	0	TDCT	CTD #49	29M	SIX	8-42.93S	144-02.18E	g	VANC28MV
0354	020504	0	TDCT	CTD #50	28M	SIX	8-41.86S	144-10.63E	g	VANC28MV
0530	020504	0	TDCT	CTD #51	12M	SIX	8-40.96S	144-09.73E	g	VANC28MV
0640	020504	0	TDCT	CTD #52	12M	SIX	8-40.07S	144-08.84E	g	VANC28MV
1751	020504	0	TDCT	CTD #53	11M	SIX	8-56.02S	143-48.23E	g	VANC28MV
1941	020504	0	TDCT	CTD #54	12M	SIX	8-56.02S	143-48.23E	g	VANC28MV
2132	020504	0	TDCT	CTD #55	13M	SIX	8-56.02S	143-48.23E	g	VANC28MV
2349	020504	0	TDCT	CTD #56	11M	SIX	8-56.02S	143-48.23E	g	VANC28MV
0207	030504	0	TDCT	CTD #57	11M	SIX	8-56.02S	143-48.23E	g	VANC28MV
0350	030504	0	TDCT	CTD #58	10M	SIX	8-56.02S	143-48.23E	g	VANC28MV

#GMT	DDMMYY	SAMP	B	SAMPLE	DISP				p	CRUISE
#TIME	DATE	TZ	CODE	E IDENTIFIER	CODE	LATITUDE	LONGITUDE		c	LEG-SHIP
0551	030504	0	TDCT	CTD #60	8M	SIX	8-56.02S	143-48.23E	g	VANC28MV
0016	040504	0	TDCT	CTD #61	13M	SIX	8-15.81S	144-13.44E	g	VANC28MV
0218	040504	0	TDCT	CTD #62	14M	SIX	8-15.81S	144-13.44E	g	VANC28MV
0421	040504	0	TDCT	CTD #63	9M	SIX	8-15.81S	144-13.44E	g	VANC28MV
0611	040504	0	TDCT	CTD #64	8M	SIX	8-15.77S	144-13.44E	g	VANC28MV
0811	040504	0	TDCT	CTD #65	11M	SIX	8-15.81S	144-13.44E	g	VANC28MV
1043	040504	0	TDCT	CTD #66	11M	SIX	8-15.80S	144-13.45E	g	VANC28MV
1217	040504	0	TDCT	CTD #67	13M	SIX	8-15.81S	144-13.44E	g	VANC28MV
1419	040504	0	TDCT	CTD #68	13M	SIX	8-15.81S	144-13.44E	g	VANC28MV
1616	040504	0	TDCT	CTD #69	15M	SIX	8-15.81S	144-13.44E	g	VANC28MV
1820	040504	0	TDCT	CTD #70	11M	SIX	8-15.81S	144-13.44E	g	VANC28MV
2014	040504	0	TDCT	CTD #71	11M	SIX	8-15.81S	144-13.44E	g	VANC28MV
2229	040504	0	TDCT	CTD #72	14M	SIX	8-15.81S	144-13.44E	g	VANC28MV

## #\*\*\* Box Cores \*\*\*

0000	230404	0	COBX	BOX #11	25M	UWA	9-08.88S	143-39.16E	g	VANC28MV
0135	230404	0	COBX	BOX #12	23M	UWA	9-07.72S	143-37.85E	g	VANC28MV
0419	230404	0	COBX	BOX #13	14M	UWA	9-06.03S	143-36.46E	g	VANC28MV
0635	230404	0	COBX	BOX #14	39M	UWA	9-10.70S	143-46.40E	g	VANC28MV
2055	230404	0	COBX	BOX #15	22M	UWA	9-04.11S	143-42.80E	g	VANC28MV
2206	230404	0	COBX	BOX #16	17M	UWA	9-03.43S	143-42.17E	g	VANC28MV
0104	240404	0	COBX	BOX #17	28M	UWA	9-01.63S	143-47.63E	g	VANC28MV
0306	240404	0	COBX	BOX #18	20M	UWA	8-59.42S	143-46.13E	g	VANC28MV
2117	240404	0	COBX	BOX #19	16M	UWA	8-56.02S	143-48.23E	g	VANC28MV
2322	240404	0	COBX	BOX #20	15M	UWA	8-56.02S	143-48.23E	g	VANC28MV
0119	250404	0	COBX	BOX #21	19M	UWA	8-56.02S	143-48.23E	g	VANC28MV
0322	250404	0	COBX	BOX #22	16M	UWA	8-56.02S	143-48.23E	g	VANC28MV
0516	250404	0	COBX	BOX #23	13M	UWA	8-56.02S	143-48.23E	g	VANC28MV
0710	250404	0	COBX	BOX #24	15M	UWA	8-56.02S	143-48.23E	g	VANC28MV
0917	250404	0	COBX	BOX #25	13M	UWA	8-56.02S	143-48.23E	g	VANC28MV
1420	250404	0	COBX	BOX #26	16M	UWA	8-36.91S	143-58.53E	g	VANC28MV
1616	250404	0	COBX	BOX #27	19M	UWA	8-36.91S	143-58.53E	g	VANC28MV
1813	250404	0	COBX	BOX #28	18M	UWA	8-36.91S	143-58.53E	g	VANC28MV
2013	250404	0	COBX	BOX #29	18M	UWA	8-36.91S	143-58.53E	g	VANC28MV
2215	250404	0	COBX	BOX #30	18M	UWA	8-36.91S	143-58.53E	g	VANC28MV
0000	260404	0	COBX	BOX #31	18M	UWA	8-36.91S	143-58.53E	g	VANC28MV
0218	260404	0	COBX	BOX #32	17M	UWA	8-36.91S	143-58.53E	g	VANC28MV
0418	260404	0	COBX	BOX #33	17M	UWA	8-36.91S	143-58.53E	g	VANC28MV
0613	260404	0	COBX	BOX #34	20M	UWA	8-36.91S	143-58.53E	g	VANC28MV
0817	260404	0	COBX	BOX #35	20M	UWA	8-36.91S	143-58.53E	g	VANC28MV
1032	260404	0	COBX	BOX #36	18M	UWA	8-36.91S	143-58.53E	g	VANC28MV
1216	260404	0	COBX	BOX #37	18M	UWA	8-36.91S	143-58.53E	g	VANC28MV
1420	260404	0	COBX	BOX #38	18M	UWA	8-36.91S	143-58.53E	g	VANC28MV
2339	260404	0	COBX	BOX #39	26M	UWA	8-58.36S	143-50.33E	g	VANC28MV
0313	270404	0	COBX	BOX #40	46M	UWA	9-00.80S	143-52.89E	g	VANC28MV
0459	270404	0	COBX	BOX #41	74M	UWA	8-59.33S	143-52.92E	g	VANC28MV
2335	270404	0	COBX	BOX #42	52M	UWA	9-10.01S	143-57.97E	g	VANC28MV
0100	280404	0	COBX	BOX #43	62M	UWA	9-08.09S	143-56.27E	g	VANC28MV
0126	280404	0	COBX	BOX #44	65M	UWA	9-08.12S	143-56.27E	g	VANC28MV
0258	280404	0	COBX	BOX #45	57M	UWA	9-03.09S	143-53.71E	g	VANC28MV
0422	280404	0	COBX	BOX #46	62M	UWA	9-03.53S	143-53.11E	g	VANC28MV

#GMT	DDMMYY	SAMP	B	SAMPLE	DISP				p	CRUISE	
#TIME	DATE	TZ	CODE	E	IDENTIFIER	CODE	LATITUDE	LONGITUDE	c	LEG-SHIP	
#	---	---	---	---	---	---	---	---	---	---	
0619	280404	0	COBX	BOX	#47	75M	UWA	8-59.21S	143-52.91E	g	VANC28MV
2245	280404	0	COBX	BOX	#48	39M	UWA	8-55.81S	143-54.55E	g	VANC28MV
0117	290404	0	COBX	BOX	#49	22M	UWA	8-53.70S	143-53.70E	g	VANC28MV
0342	290404	0	COBX	BOX	#50	29M	UWA	8-51.50S	143-58.40E	g	VANC28MV
0613	290404	0	COBX	BOX	#51	20M	UWA	8-49.62S	143-56.32E	g	VANC28MV
0240	300404	0	COBX	BOX	#52	30M	UWA	8-47.44S	144-01.51E	g	VANC28MV
0509	300404	0	COBX	BOX	#53	19M	UWA	8-45.93S	144-00.11E	g	VANC28MV
2113	300404	0	COBX	BOX	#54	68M	UWA	8-45.87S	144-08.29E	g	VANC28MV
0007	020504	0	COBX	BOX	#55	22M	UWA	8-38.95S	143-59.09E	g	VANC28MV
0150	020504	0	COBX	BOX	#56	34M	UWA	8-42.93S	144-02.18E	g	VANC28MV
0434	020504	0	COBX	BOX	#57	32M	UWA	8-41.86S	144-10.63E	g	VANC28MV
0544	020504	0	COBX	BOX	#58	22M	UWA	8-40.96S	144-09.72E	g	VANC28MV
0658	020504	0	COBX	BOX	#59	18M	UWA	8-40.08S	144-08.82E	g	VANC28MV
1844	020504	0	COBX	BOX	#60	14M	UWA	8-56.02S	143-48.23E	g	VANC28MV
2042	020504	0	COBX	BOX	#61	15M	UWA	8-56.02S	143-48.23E	g	VANC28MV
2246	020504	0	COBX	BOX	#62	15M	UWA	8-56.02S	143-48.23E	g	VANC28MV
0049	030504	0	COBX	BOX	#63	16M	UWA	8-56.02S	143-48.23E	g	VANC28MV
0247	030504	0	COBX	BOX	#64	14M	UWA	8-56.02S	143-48.23E	g	VANC28MV
0451	030504	0	COBX	BOX	#65	13M	UWA	8-56.02S	143-48.23E	g	VANC28MV
0642	030504	0	COBX	BOX	#66	13M	UWA	8-56.02S	143-48.23E	g	VANC28MV
0113	040504	0	COBX	BOX	#67	15M	UWA	8-15.81S	144-13.44E	g	VANC28MV
0315	040504	0	COBX	BOX	#68	13M	UWA	8-15.81S	144-13.44E	g	VANC28MV
0514	040504	0	COBX	BOX	#69	12M	UWA	8-15.81S	144-13.44E	g	VANC28MV
0703	040504	0	COBX	BOX	#70	15M	UWA	8-15.81S	144-13.43E	g	VANC28MV
0919	040504	0	COBX	BOX	#71	10M	UWA	8-15.81S	144-13.44E	g	VANC28MV
1117	040504	0	COBX	BOX	#72	21M	UWA	8-15.81S	144-13.44E	g	VANC28MV
1316	040504	0	COBX	BOX	#73	16M	UWA	8-15.81S	144-13.44E	g	VANC28MV
1517	040504	0	COBX	BOX	#74	14M	UWA	8-15.81S	144-13.44E	g	VANC28MV
1716	040504	0	COBX	BOX	#75	14M	UWA	8-15.81S	144-13.44E	g	VANC28MV
1916	040504	0	COBX	BOX	#76	14M	UWA	8-15.81S	144-13.44E	g	VANC28MV
2113	040504	0	COBX	BOX	#77	15M	UWA	8-15.81S	144-13.44E	g	VANC28MV
2318	040504	0	COBX	BOX	#78	15M	UWA	8-15.81S	144-13.44E	g	VANC28MV

\*\*\* Multi Cores \*\*\*

2332	220404	0	COMC	MULTI	#1	25M	SIX	9-08.87S	143-39.16E	g	VANC28MV
0200	230404	0	COMC	MULTI	#2	25M	SIX	9-07.73S	143-37.85E	g	VANC28MV
0353	230404	0	COMC	MULTI	#3	20M	SIX	9-06.03S	143-36.46E	g	VANC28MV
0659	230404	0	COMC	MULTI	#4	39M	SIX	9-10.70S	143-46.40E	g	VANC28MV
2030	230404	0	COMC	MULTI	#5	21M	SIX	9-04.11S	143-42.80E	g	VANC28MV
2237	230404	0	COMC	MULTI	#6	14M	SIX	9-03.43S	143-42.17E	g	VANC28MV
0041	240404	0	COMC	MULTI	#7	26M	SIX	9-01.62S	143-47.63E	g	VANC28MV
0333	240404	0	COMC	MULTI	#8	20M	SIX	8-59.42S	143-46.13E	g	VANC28MV
0349	240404	0	COMC	MULTI	#9	19M	SIX	8-59.43S	143-46.13E	g	VANC28MV
0008	270404	0	COMC	MULTI	#10	26M	SIX	8-58.36S	143-50.33E	g	VANC28MV
0223	270404	0	COMC	MULTI	#11	47M	SIX	9-00.80S	143-52.89E	g	VANC28MV
0247	270404	0	COMC	MULTI	#12	47M	SIX	9-00.80S	143-52.89E	g	VANC28MV
0536	270404	0	COMC	MULTI	#13	74M	SIX	8-59.33S	143-52.92E	g	VANC28MV
2318	280404	0	COMC	MULTI	#14	42M	SIX	8-55.81S	143-54.55E	g	VANC28MV

#GMT	DDMMYY	SAMP	B	SAMPLE	DISP				p	CRUISE
#TIME	DATE	TZ	CODE	E IDENTIFIER	CODE	LATITUDE	LONGITUDE		c	LEG-SHIP
#	---	--	---	-	---	---	---	---	-	---
0056	290404	0	COMC	MULTI #15 20M	SIX	8-53.70S	143-53.70E		g	VANC28MV
0411	290404	0	COMC	MULTI #16 30M	SIX	8-51.50S	143-58.40E		g	VANC28MV
1310	290404	0	COMC	MULTI #17 31M	SIX	8-57.30S	143-55.84E		g	VANC28MV
0445	300404	0	COMC	MULTI #18 19M	SIX	8-45.93S	144-00.11E		g	VANC28MV
2202	300404	0	COMC	MULTI #19 68M	SIX	8-45.87S	144-08.29E		g	VANC28MV
0342	010504	0	COMC	MULTI #20 22M	SIX	8-22.04S	144-11.58E		g	VANC28MV
0222	020504	0	COMC	MULTI #21 33M	SIX	8-42.93S	144-02.18E		g	VANC28MV
0411	020504	0	COMC	MULTI #22 32M	SIX	8-41.86S	144-10.63E		g	VANC28MV
0714	020504	0	COMC	MULTI #23 17M	SIX	8-40.08S	144-08.82E		g	VANC28MV

\*\*\*\* Piston Cores \*\*\*\*

0714	280404	0	COPS	PSTN #1 62M	UWA	8-59.21S	143-52.90E		g	VANC28MV
2030	290404	0	COPS	PSTN #2 30M	UWA	8-55.81S	143-54.55E		g	VANC28MV
0804	300404	0	COPS	PSTN #3 17M	UWA	8-47.47S	144-01.54E		g	VANC28MV

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

0731	220404	0	BTXP	MK21 # 17 Fast_Deep	GDC	9-37.61S	146-38.15E		g	VANC28MV
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# End Sample Index VANC28MV