

*Report and Index of
Underway Marine Geophysical Data*

Vancouver Expedition

Leg 23

(VANC23MV)

R/V Melville

(Issued May 2004)

Ports:

Port Moresby, Papua New Guinea (29-Feb-04)
to
Cairns, Australia (09-Mar-04)

Chief Scientist: Neal Driscoll
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Computer Tech - Steve Foley
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.

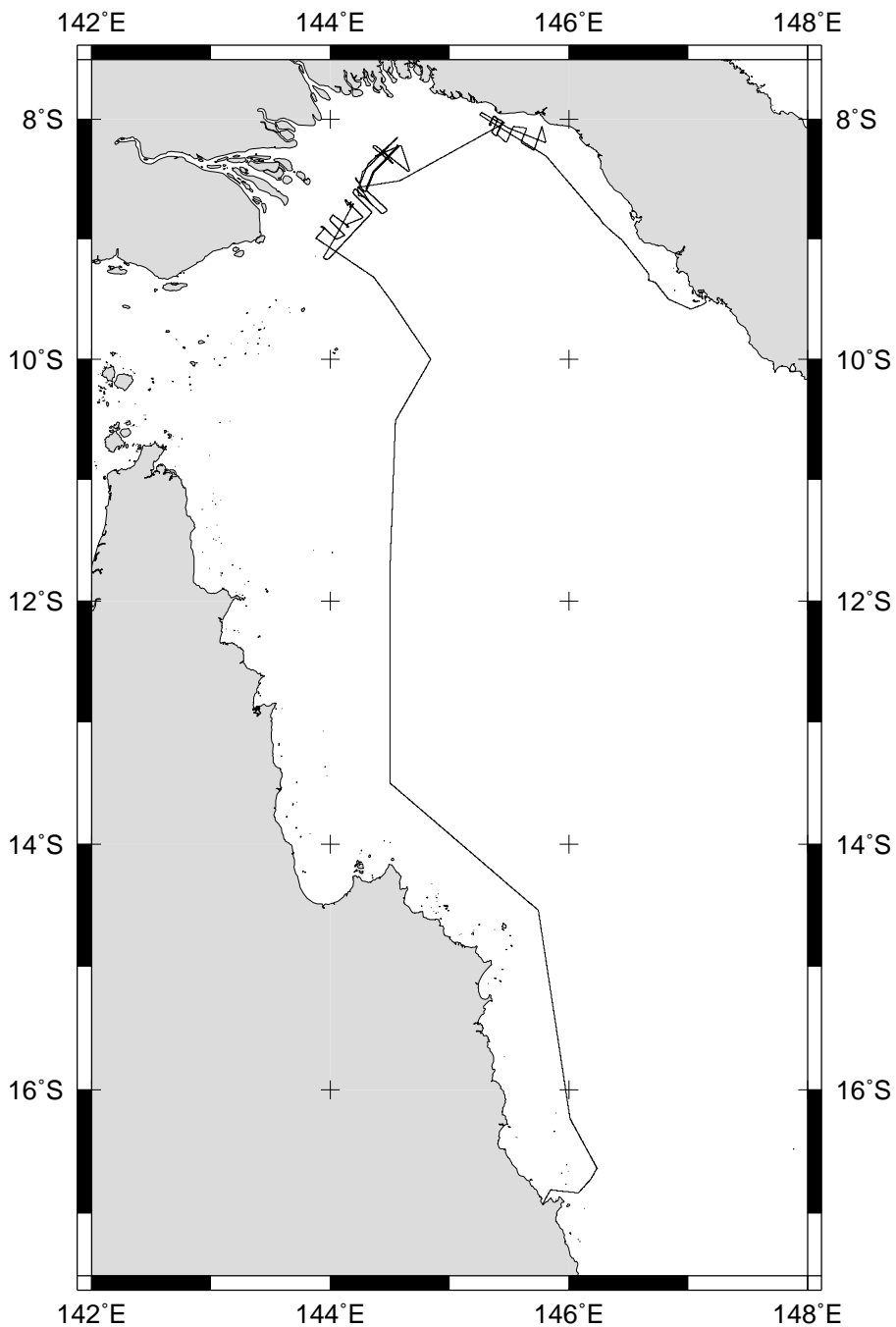
Sample Index - list of begin/end times and positions of all underway records as well as samples and measurements from other disciplines collected on the leg.

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

Rev 05/2002



VANCOUVER EXPEDITION LEG 23 (VANC23MV)

CHIEF SCIENTIST: Neal Driscoll, Scripps Institution of Oceanography

PORTS: Port Moresby, Papua New Guinea - Cairns, Australia

DATES: 29 February 9 March 2004

SHIP: R/V Melville

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

Cruise-1373 miles

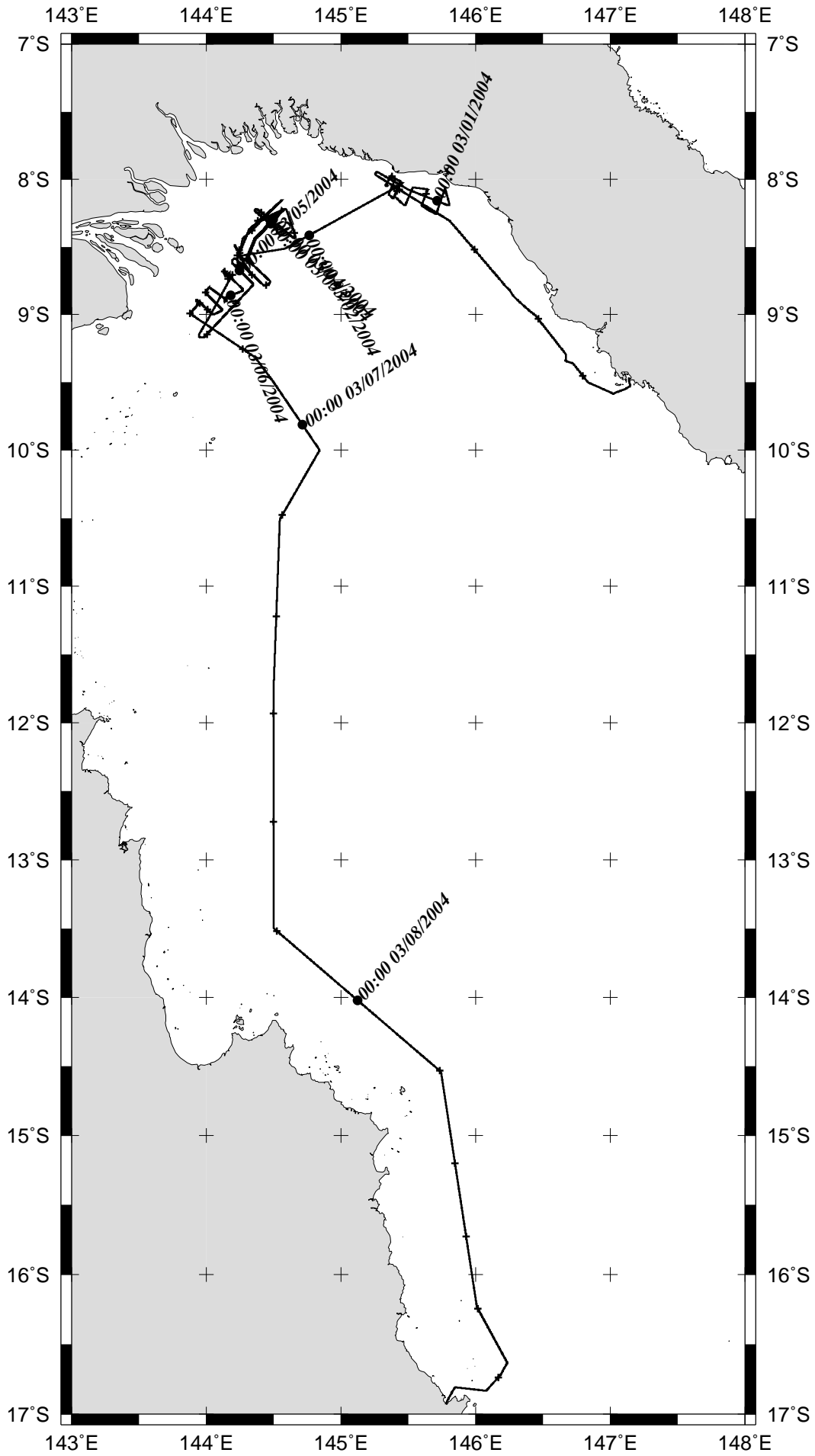
Magnetics-none collected

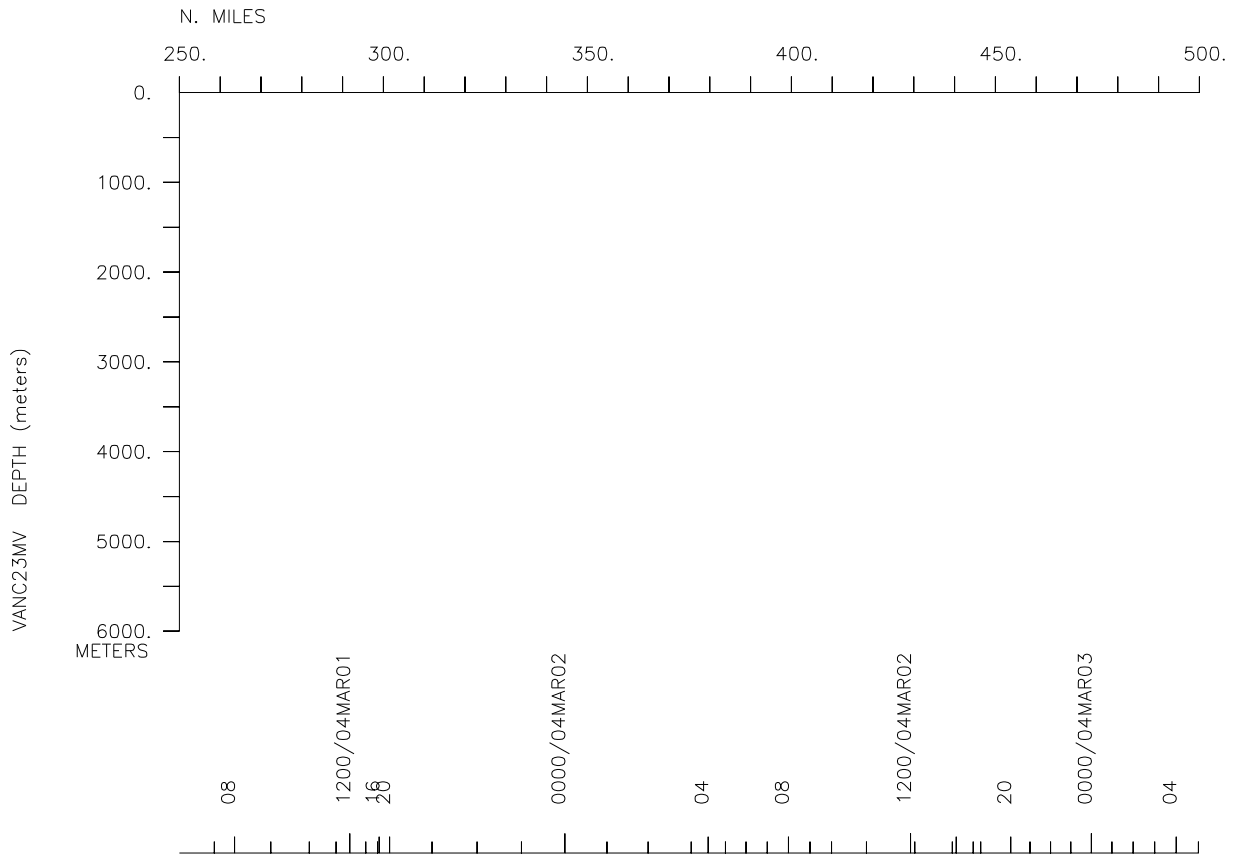
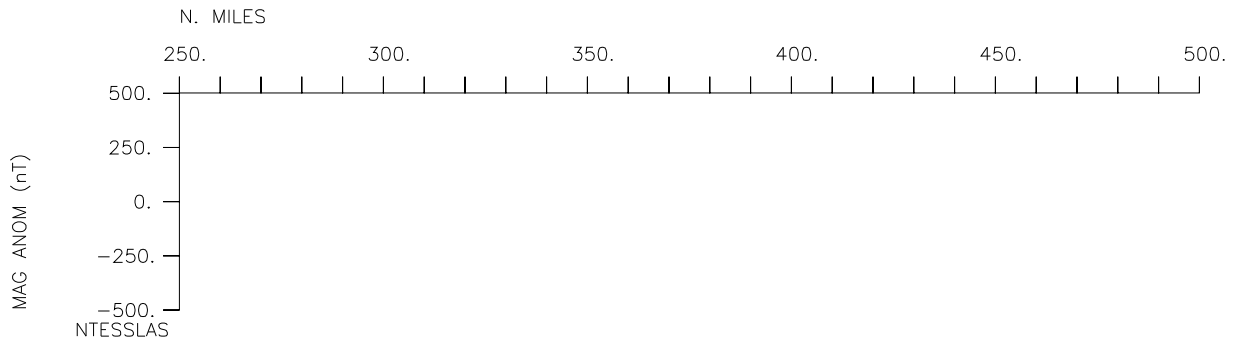
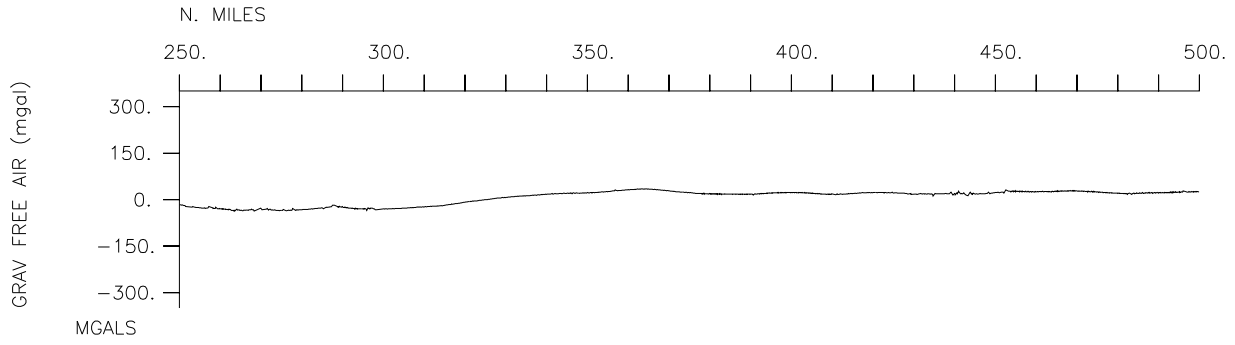
Bathymetry-572 miles

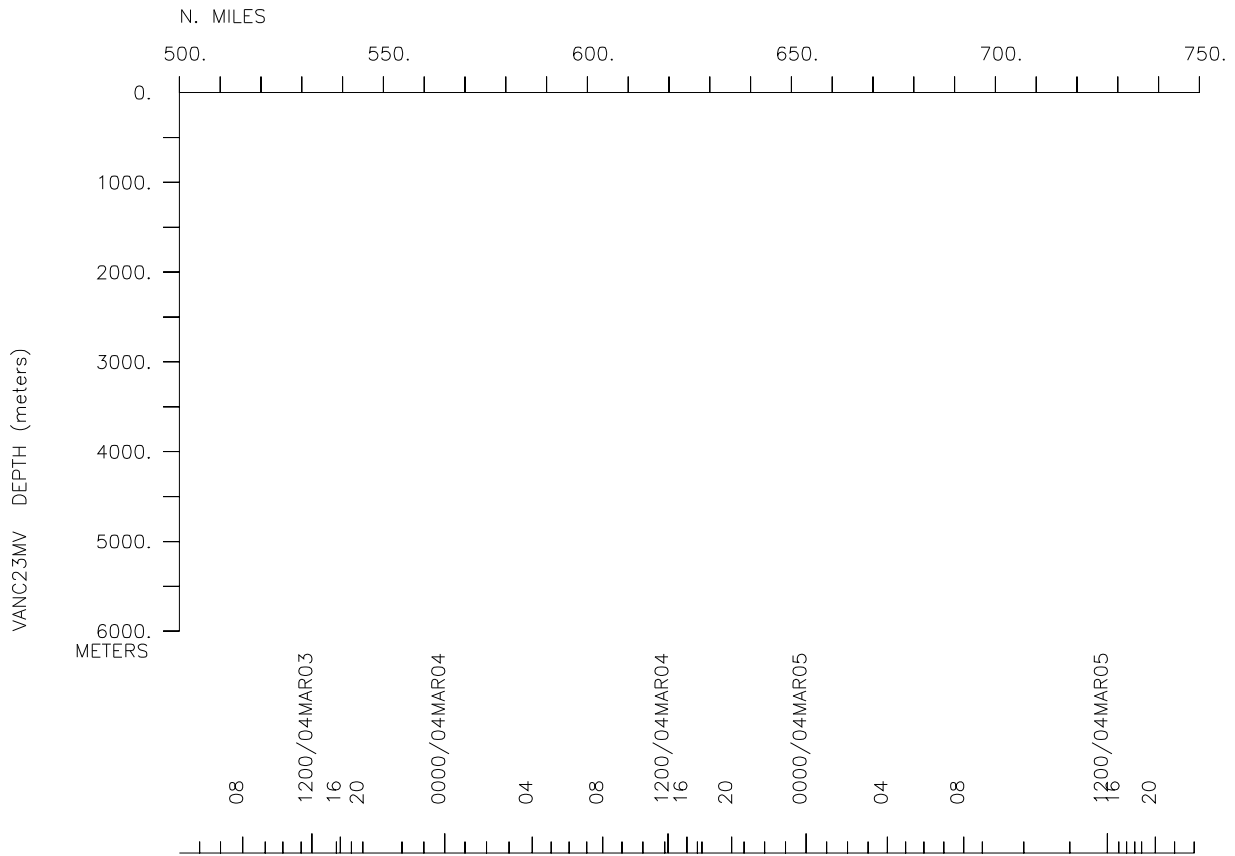
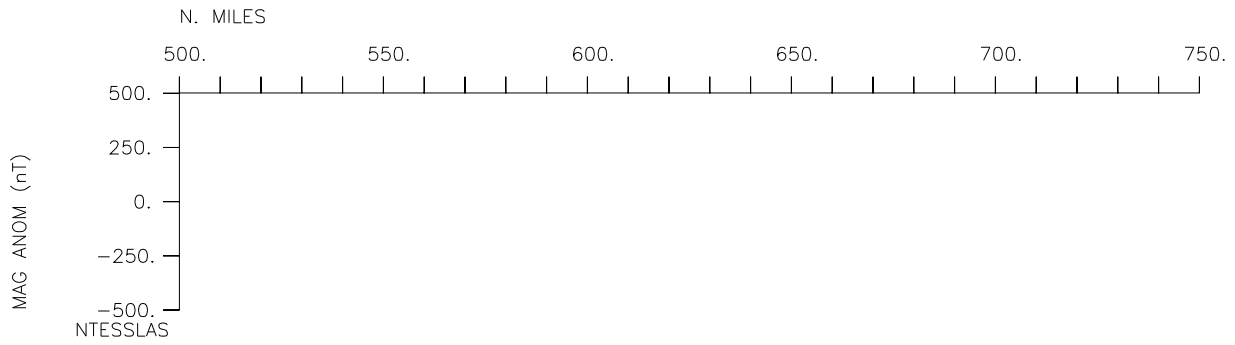
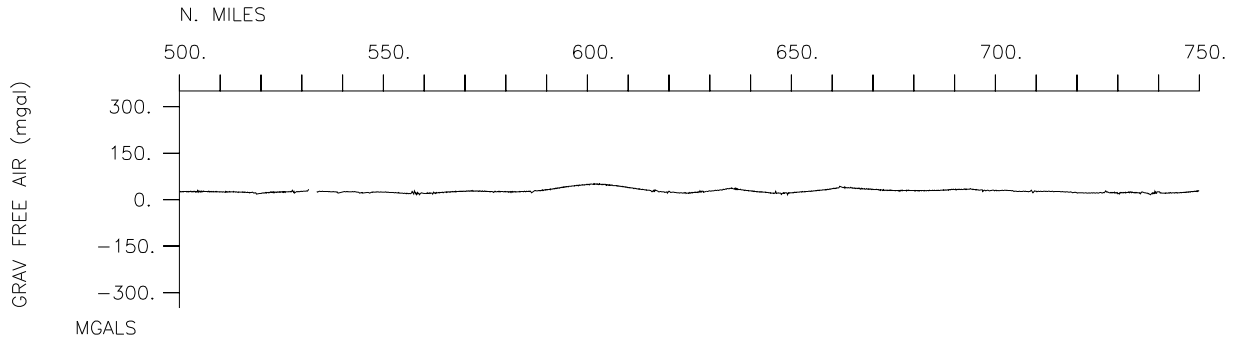
Seismic Reflection-none collected

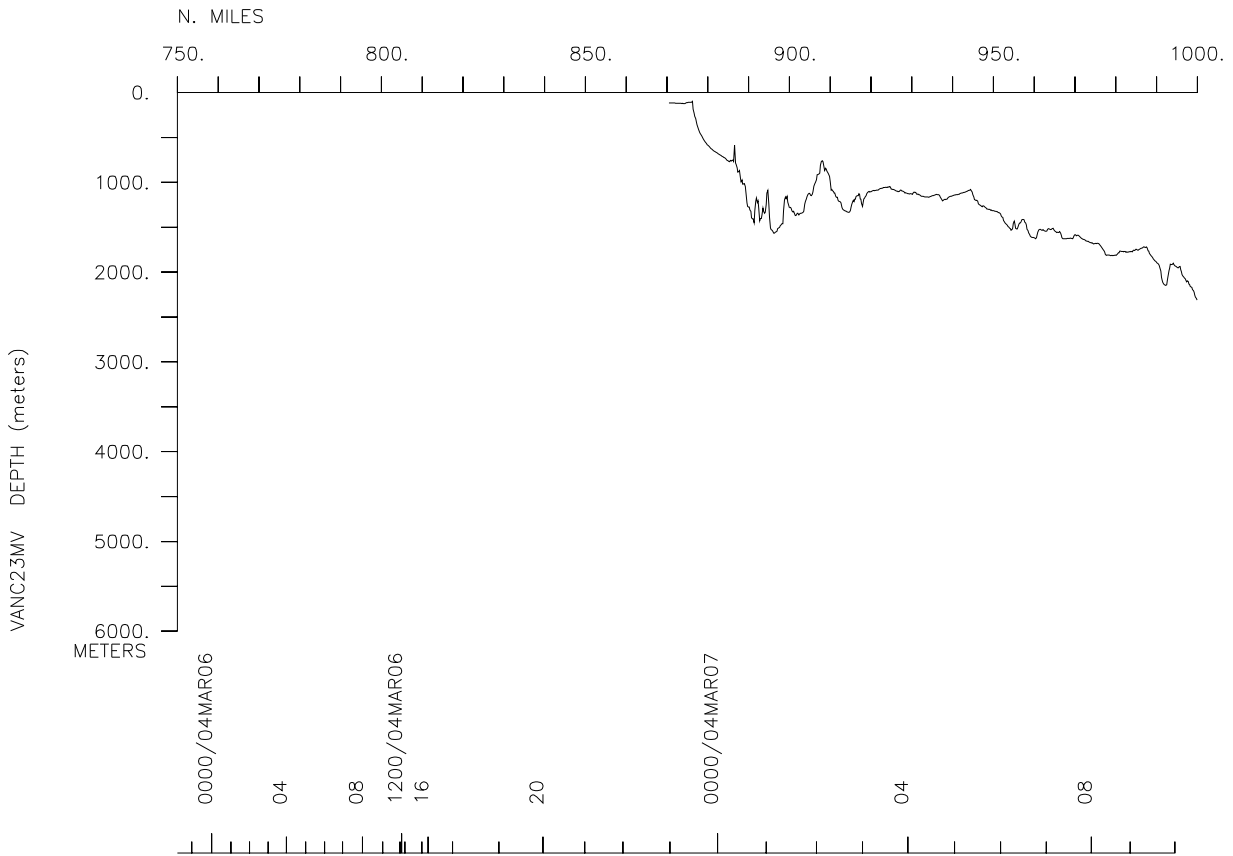
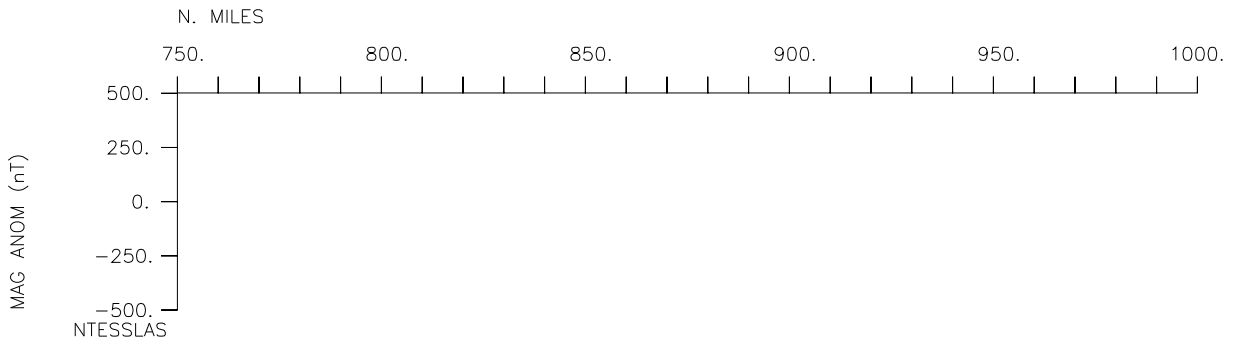
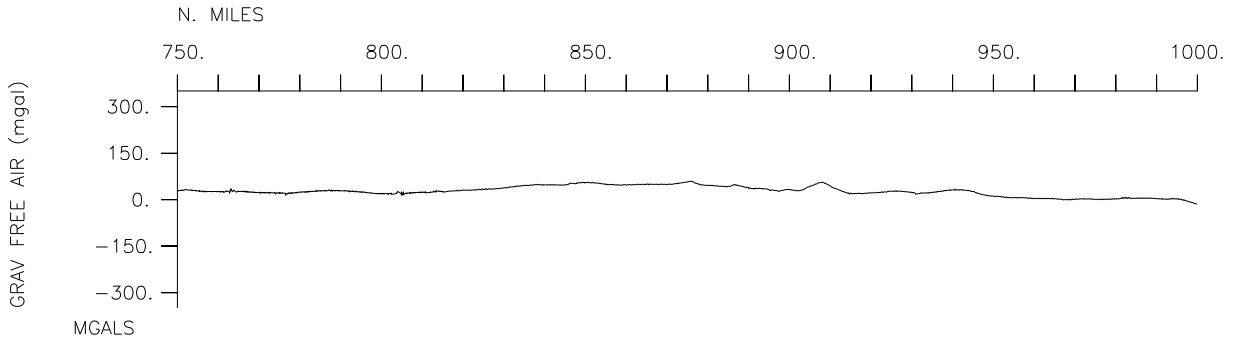
Multibeam-572 miles

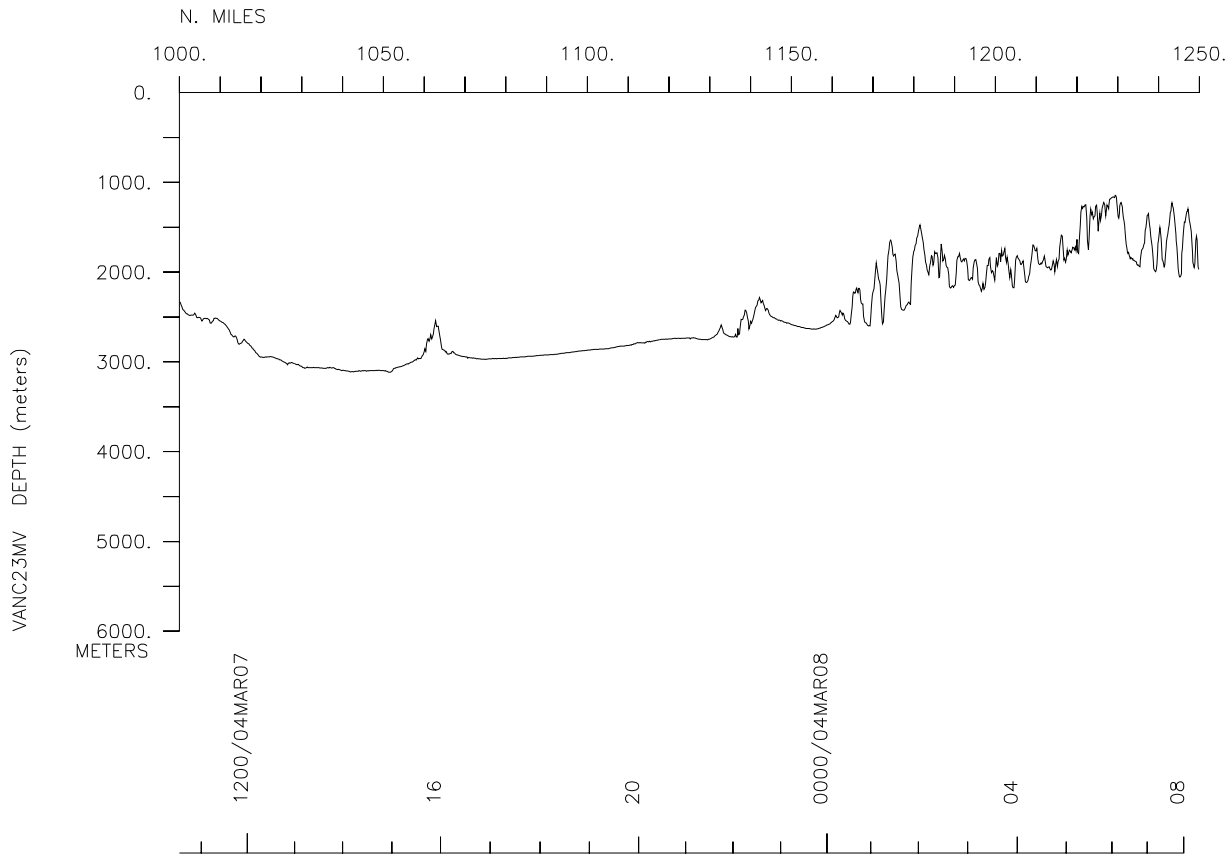
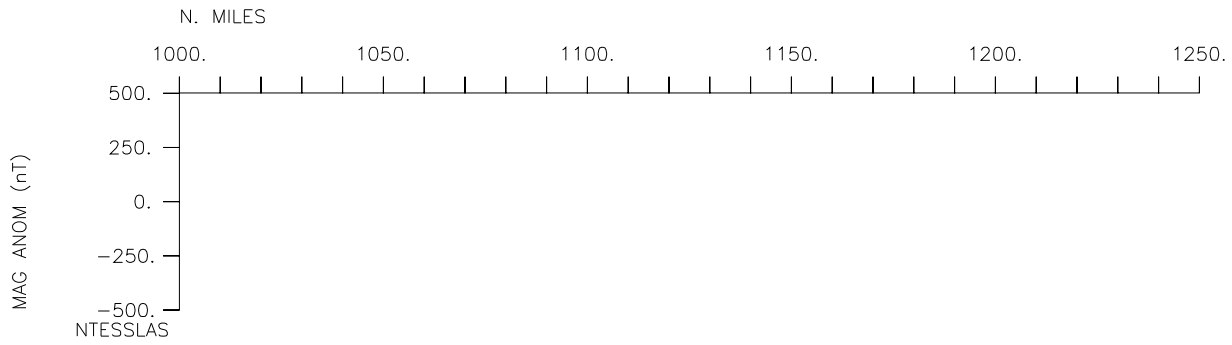
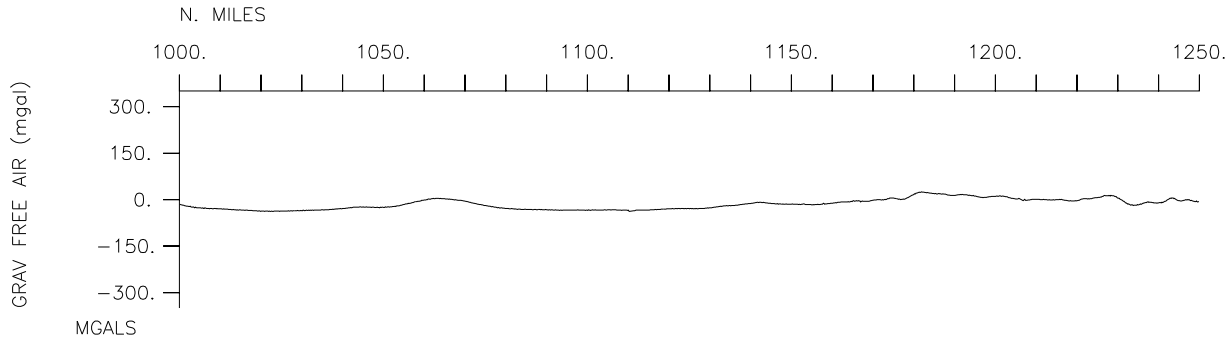
Gravity-1373 miles

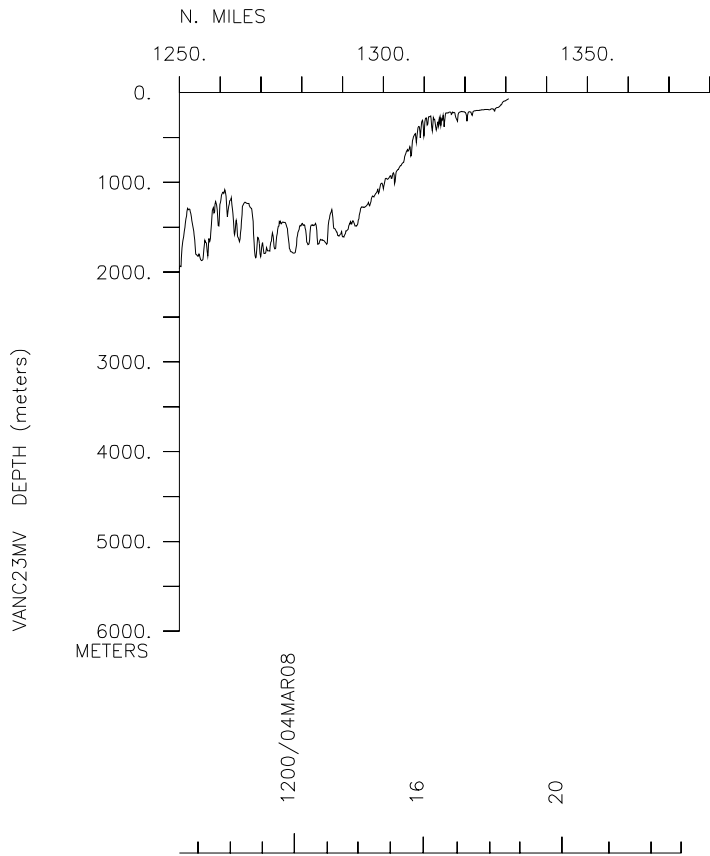
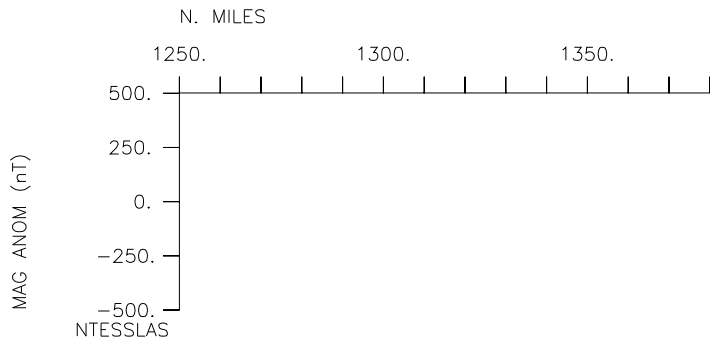
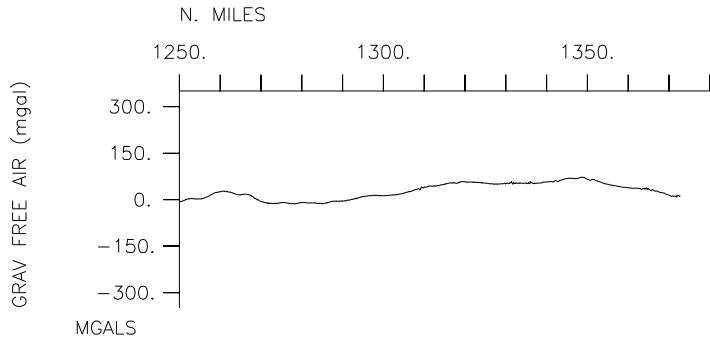












#*** Ports ***

```
0800 290204   LGPT B Port Moresby,N.Guinea   09-28.00S 147-09.00E f VANC23MV
0800 090304   LGPT E Cairns, Australia               16-55.00S 145-47.00E f VANC23MV
```

#*** Personnel ***

```
#          *****NAME***** *****TITLE***** *****AFFILIATION***** **CRID**
#-----
PECS SIO  Driscoll, N.           Chief Scientist   Scripps Institution VANC23MV
PESP SIO  Babcock, J.           Scientist         Scripps Institution VANC23MV
PESP SIO  Elwood, D.            Scientist         Scripps Institution VANC23MV
PESP SIX  Niemitz, M.           Scientist         William & Mary      VANC23MV
PESP SIO  Walsh, J.              Scientist         Scripps Institution VANC23MV
PECT STS  Foley, S             Computer Tech     Scripps Institution VANC23MV
PERT STS  Ravenhill, G.        Resident Tech     Scripps Institution VANC23MV
PERT STS  Roswell, j.          Resident Tech     Scripps Institution VANC23MV
PERT OSU  Moser, C.            Marine Tech       Oregon State Univ.  VANC23MV
PERT OSU  Hubbard, D.           Marine Tech       Oregon State Univ.  VANC23MV
PEST SIO  Fenwick, R.           Grad student     Scripps Institution VANC23MV
PEST SIO  Hill, J.             Grad student     Scripps Institution VANC23MV
```

#*** 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 ***
```

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

```
0500 290204  0 MBSR B v.beam & sidescan   GDC   9-28.13S 147-08.43E g VANC23MV
2300 080304  0 MBSR E v.beam & sidescan   GDC  16-55.75S 145-46.81E g VANC23MV
```

#*** Digital Gravity ***

```
0525 290204  0 GVDD B Digital Gravity     GDC   9-28.47S 147-08.31E g VANC23MV
2254 080304  0 GVDD E Digital Gravity     GDC  16-55.65S 145-46.84E g VANC23MV
```

#*** Integrated Meteorological Acquisition System ***

```
0800 290204  0 IMET B Weather Measurements GDC   9-27.07S 146-47.68E g VANC23MV
2300 080304  0 IMET E Weather Measurements GDC  16-55.77S 145-46.80E g VANC23MV
```

#*** Acoustic Doppler Current Profiler ***

```
0800 290204  0 ADCP B 300khz Current Meas. GDC   9-27.07S 146-47.68E g VANC23MV
2300 080304  0 ADCP E Current Measurements GDC  16-55.77S 145-46.80E g VANC23MV
```

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

*** Echo Sounder Records ***

0800	290204	0	DPR3	B	Echosounder	3.5kHz	GDC	9-27.07S	146-47.68E	g	VANC23MV
2300	080304	0	DPR3	E	Echosounder	3.5kHz	GDC	16-55.77S	145-46.80E	g	VANC23MV

*** Towed Subbottom Depth Profiler ***

1221	290204	0	DPXX	B	CHIRP	#1	SIO	8-59.34S	146-25.27E	g	VANC23MV
1317	010304	0	DPXX	E	CHIRP	#1	SIO	8-01.64S	145-27.26E	g	VANC23MV
2000	020304	0	DPXX	B	CHIRP	#2	SIO	8-35.95S	144-18.12E	g	VANC23MV
1042	030304	0	DPXX	E	CHIRP	#2	SIO	8-19.38S	144-27.99E	g	VANC23MV
2238	030304	0	DPXX	B	CHIRP	#3	SIO	8-13.35S	144-34.07E	g	VANC23MV
2027	040304	0	DPXX	E	CHIRP	#4	SIO	8-41.90S	144-20.00E	g	VANC23MV
0859	050304	0	DPXX	B	CHIRP	#4	SIO	9-09.33S	143-56.68E	g	VANC23MV
0925	060304	0	DPXX	E	CHIRP	#5	SIO	8-53.60S	143-55.57E	g	VANC23MV

*** Piston Cores ***

1754	010304	0	COPS	PSTN	#38	21M	SIO	8-02.78S	145-25.94E	g	VANC23MV
1247	020304	0	COPS	PSTN	#39	32M	SIO	8-22.79S	144-20.21E	g	VANC23MV
1545	020304	0	COPS	PSTN	#40	26M	SIO	8-31.40S	144-14.71E	g	VANC23MV
1211	030304	0	COPS	PSTN	#42	46M	SIO	8-22.20S	144-31.50E	g	VANC23MV
1547	030304	0	COPS	PSTN	#43	32M	SIO	8-17.03S	144-27.49E	g	VANC23MV
1917	030304	0	COPS	PSTN	#44	22M	SIO	8-18.45S	144-22.87E	g	VANC23MV
1236	040304	0	COPS	PSTN	#45	30M	SIO	8-38.13S	144-13.99E	g	VANC23MV
1628	040304	0	COPS	PSTN	#46	27M	SIO	8-33.83S	144-13.82E	g	VANC23MV
1244	050304	0	COPS	PSTN	#48	27M	SIO	8-42.44S	144-11.52E	g	VANC23MV
1538	050304	0	COPS	PSTN	#49	31M	SIO	8-44.15S	144-09.70E	g	VANC23MV
1111	060304	0	COPS	PSTN	#52	40M	SIO	8-54.76S	143-57.24E	g	VANC23MV
1319	060304	0	COPS	PSTN	#53	37M	SIO	8-55.41S	143-56.39E	g	VANC23MV
1603	060304	0	COPS	PSTN	#54	29M	SIO	8-59.51S	143-52.62E	g	VANC23MV

*** Gravoity Cores ***

1438	010304	0	COGV	GRVTY	#37	34M	SIO	8-02.59S	145-26.04E	g	VANC23MV
1822	020304	0	COGV	GRVTY	#41	29M	SIO	8-29.43S	144-12.68E	g	VANC23MV
1847	040304	0	COGV	GRVTY	#47	64M	SIO	8-36.21S	144-16.31E	g	VANC23MV
1733	050304	0	COGV	GRVTY	#50	29M	SIO	8-41.42S	144-10.37E	g	VANC23MV
1838	050304	0	COGV	GRVTY	#51	31M	SIO	8-43.24S	144-08.65E	g	VANC23MV

*** Expendable Bathythermographs ***

0042	070304	0	BTXP	MK21	#	1	Fast_Deep	GDC	9-55.58S	144-47.48E	g	VANC23MV
0205	080304	0	BTXP	MK21	#	2	Fast_Deep	GDC	14-16.62S	145-25.76E	g	VANC23MV

#							End Sample Index				VANC23MV
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