

REPORT AND INDEX OF
UNDERWAY MARINE GEOPHYSICAL DATA

PANORAMA EXPEDITION

LEG 6

(PANR06MV)

(R/V Melville)

(Issued July 1998)

Ports:

Papeete, Tahiti (18 April 1998)

to

Honolulu, Hawaii (7 June 1998)

Chief Scientist:

Jeffrey Gee (Scripps Institution)
email: jsgee@ucsd.edu

Marc Silver, Computer Technician
Gene Pillard, Resident Marine Technician

Post-Cruise Processing and Report Preparation by the
Geological Data Center, Scripps Institution of Oceanography
La Jolla, California 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 Geological Data Center, Scripps Institution of Oceanography, La Jolla, California 92093-0223*

GDC Cruise I.D.# 278

**REPORT AND INDEX OF NAVIGATION
AND UNDERWAY GEOPHYSICAL DATA**

Processed by the Geological Data Center
Scripps Institution of Oceanography

Contents:

Index Chart - gives track of cruise leg, dates, ports, and mileage of each type of data collected.

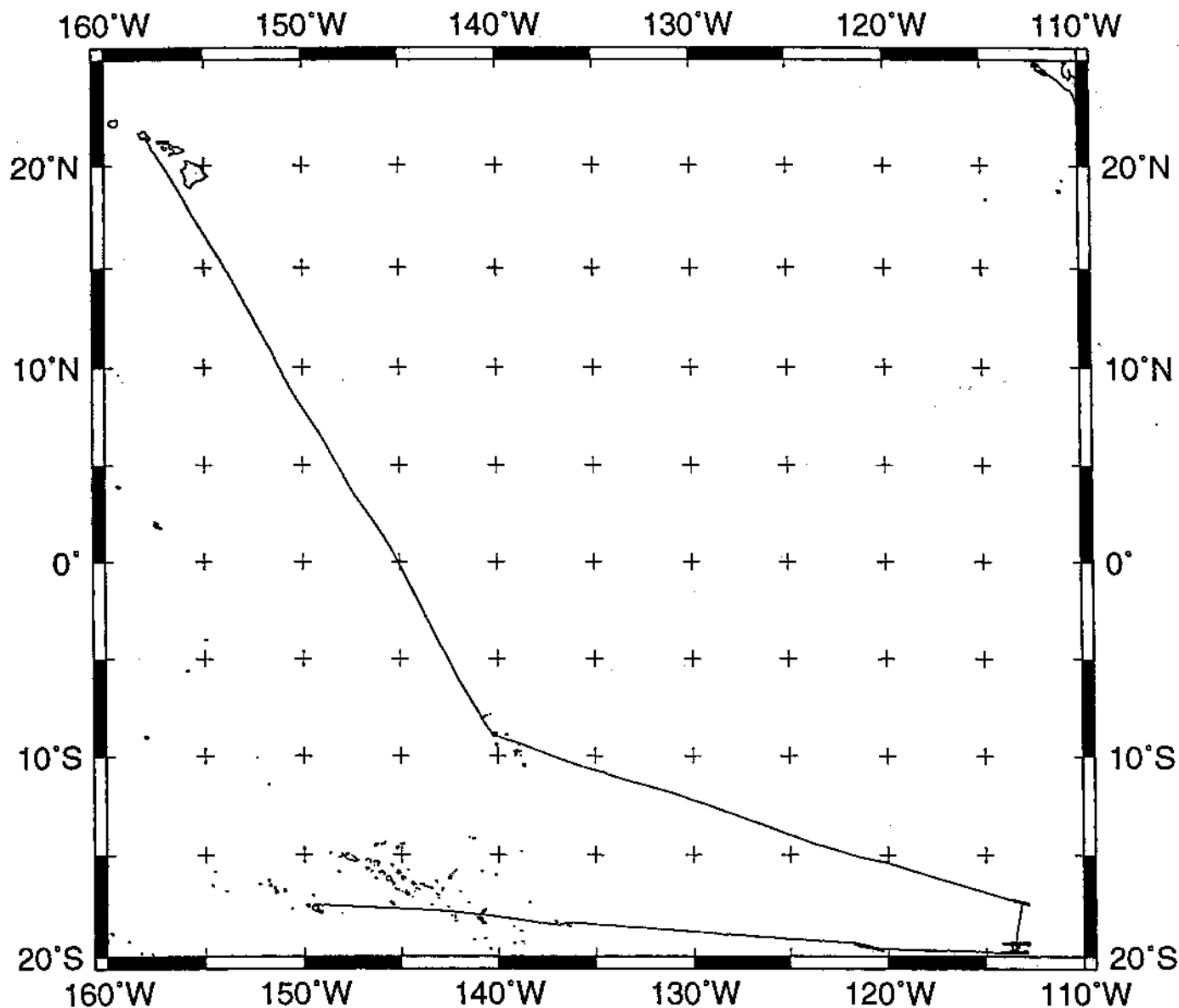
Track Charts - annotated with dates and hour ticks.

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: One or more of the underway data types may not be collected on a given leg. For information on the availability and reproduction costs of data in the following forms, contact S.M. Smith, Curator, Geological Data Center, Scripps Institution of Oceanography, La Jolla, California 92093-0223. Phone: (619)534-2752, FAX: (619)534-6500, Internet email: ssmith@ucsd.edu

1. Files via ftp or on 8mm (Exabyte) and 4mm (DAT) magnetic tape:
 - a) Separate time series ASCII files of navigation, single beam depth, gravity and magnetics.
 - b) Above data in a single merged ASCII file in the MGD77 Exchange Format.
 - c) SeaBeam depth data (binary, Sun byte order)
 - d) SeaBeam Sidescan data.
2. Microfilm (35 mm flowfilm) or hard copies of:
 - a) Underway watch log book.
 - b) SeaBeam vertical beam profile/Sidescan records.
 - c) 3.5 kHz and 12 kHz echosounder records.
 - d) Seismic reflection profiler records.
3. Navigation listing with times and positions of fixes and course and speed changes.
4. Custom plots in Mercator projection:
 - a) Track plots.
 - b) SeaBeam depth contour plots.
 - c) Depth, magnetic or gravity values printed or profiled along track.



PANORAMA EXPEDITION LEG 6

CHIEF SCIENTIST: Jeffrey Gee, Scripps Institution

PORTS: Papeete, Tahiti - Honolulu, Hawaii

DATES: 18 April - 7 June 1998

SHIP: R/V Melville

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

Cruise - 7213 miles

Magnetics - 6418 miles

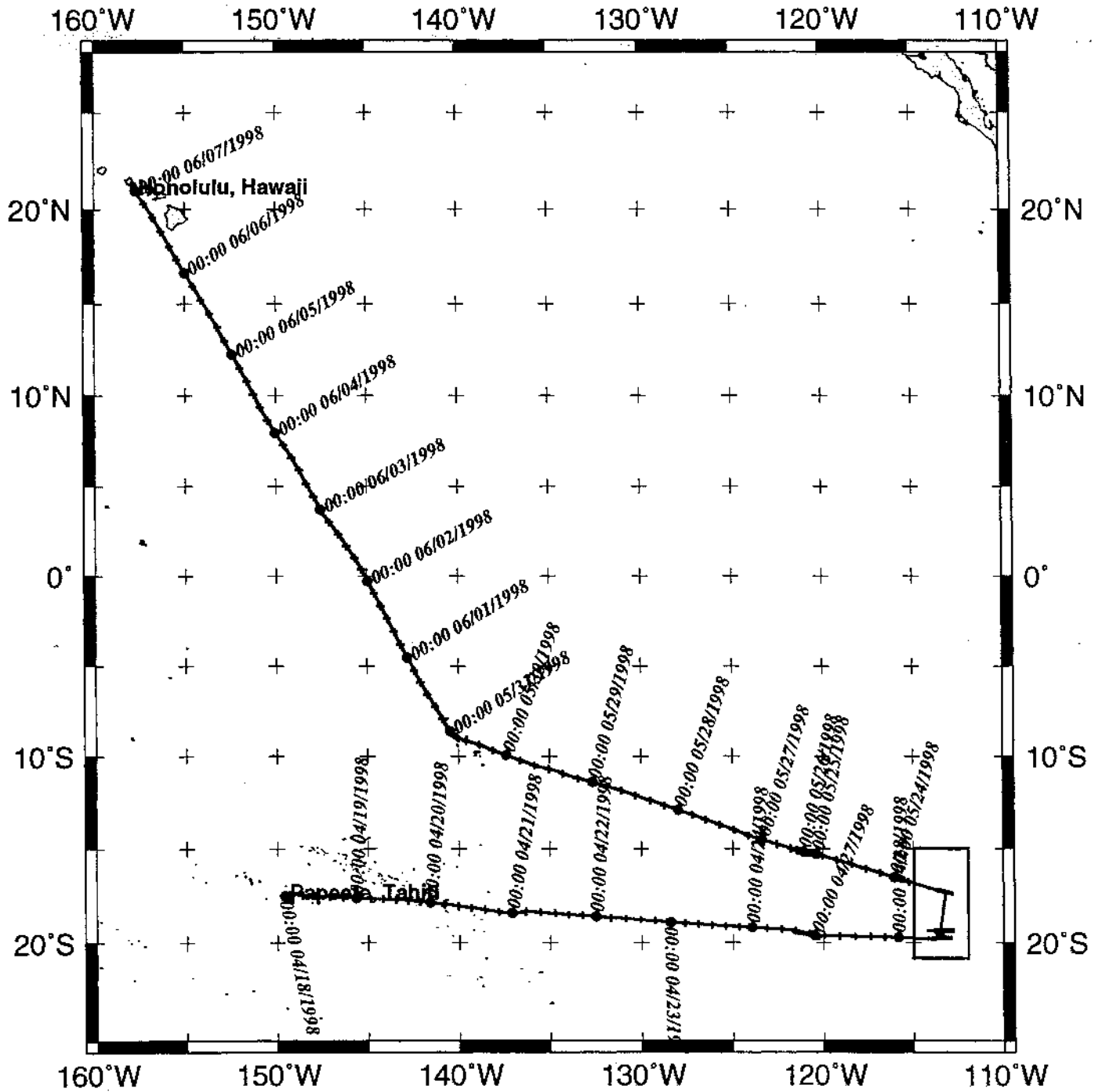
Bathymetry - 6913 miles

Seismic Reflection - 750 miles

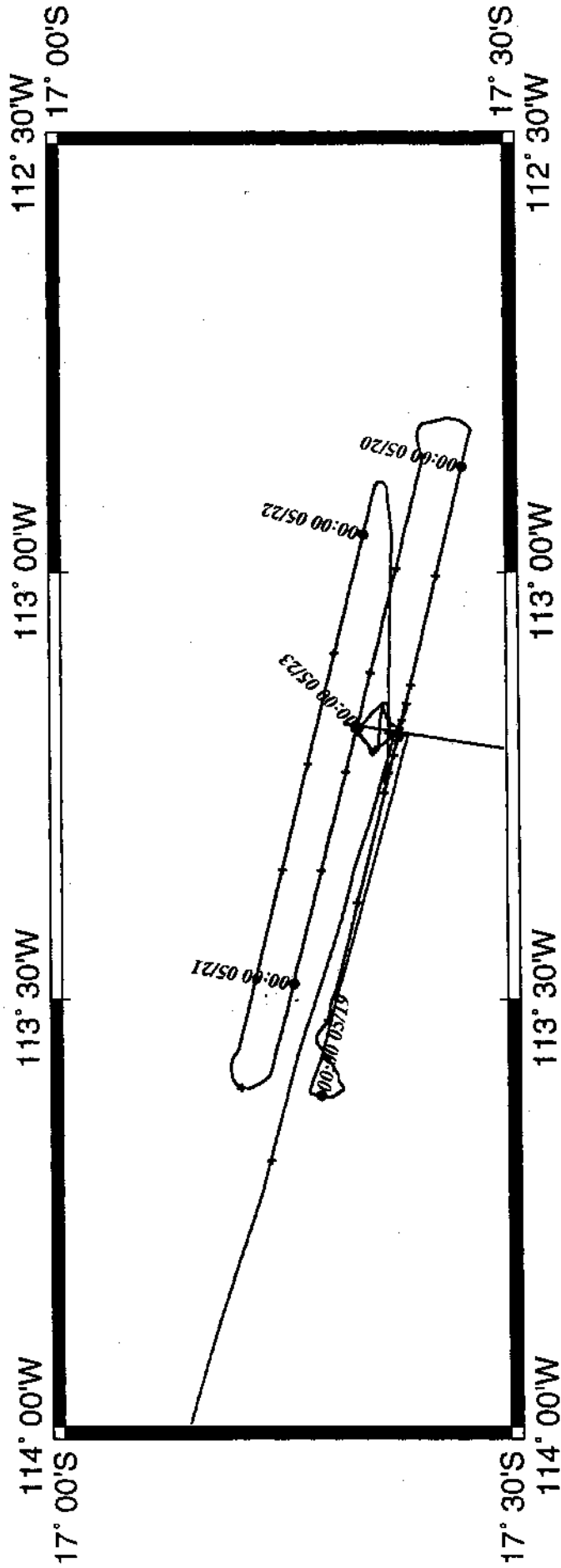
Sea Beam - 6913 miles

Gravity - collected but not funded

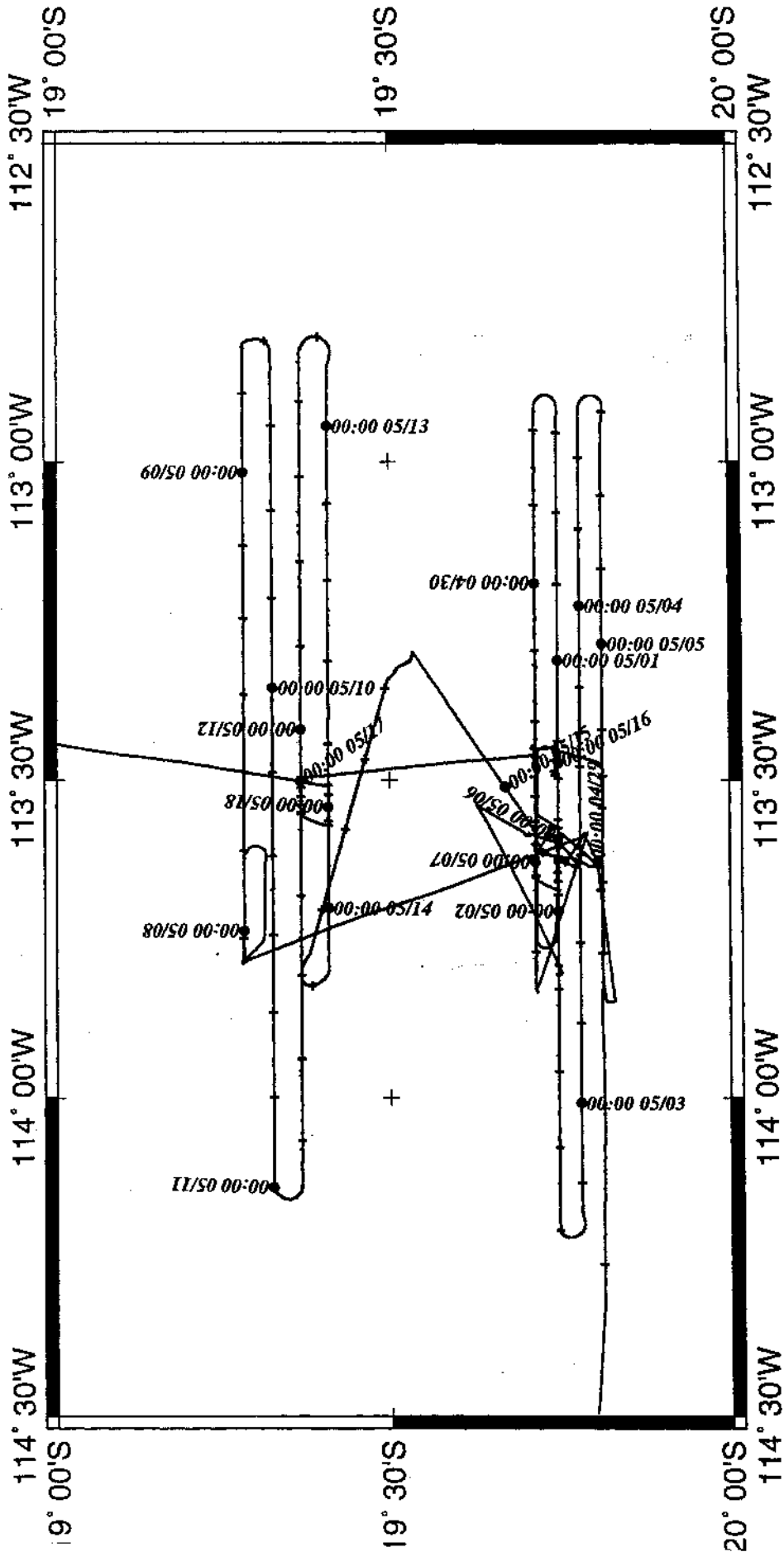
PANR06MV Track



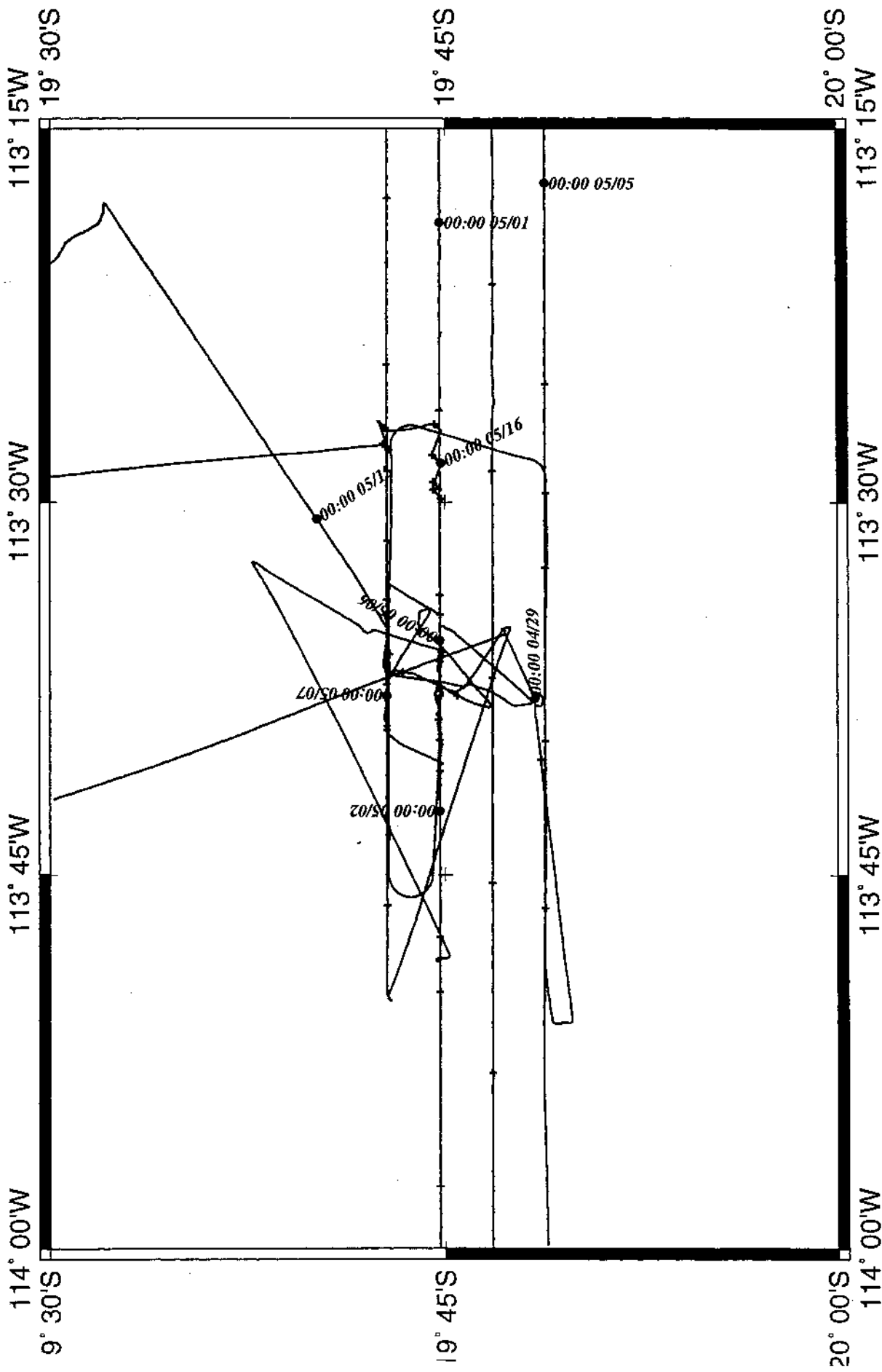
PANR06MV Survey



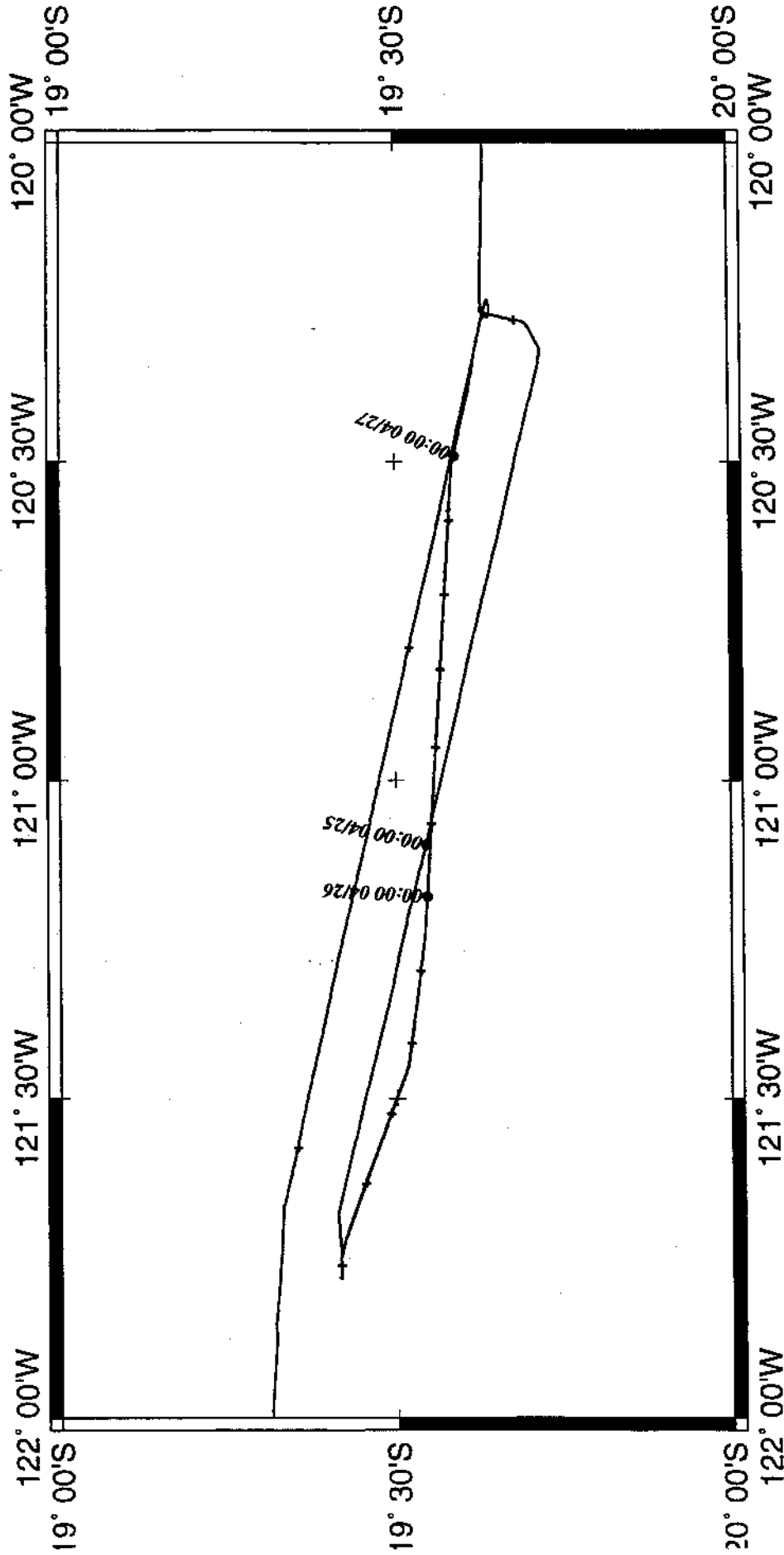
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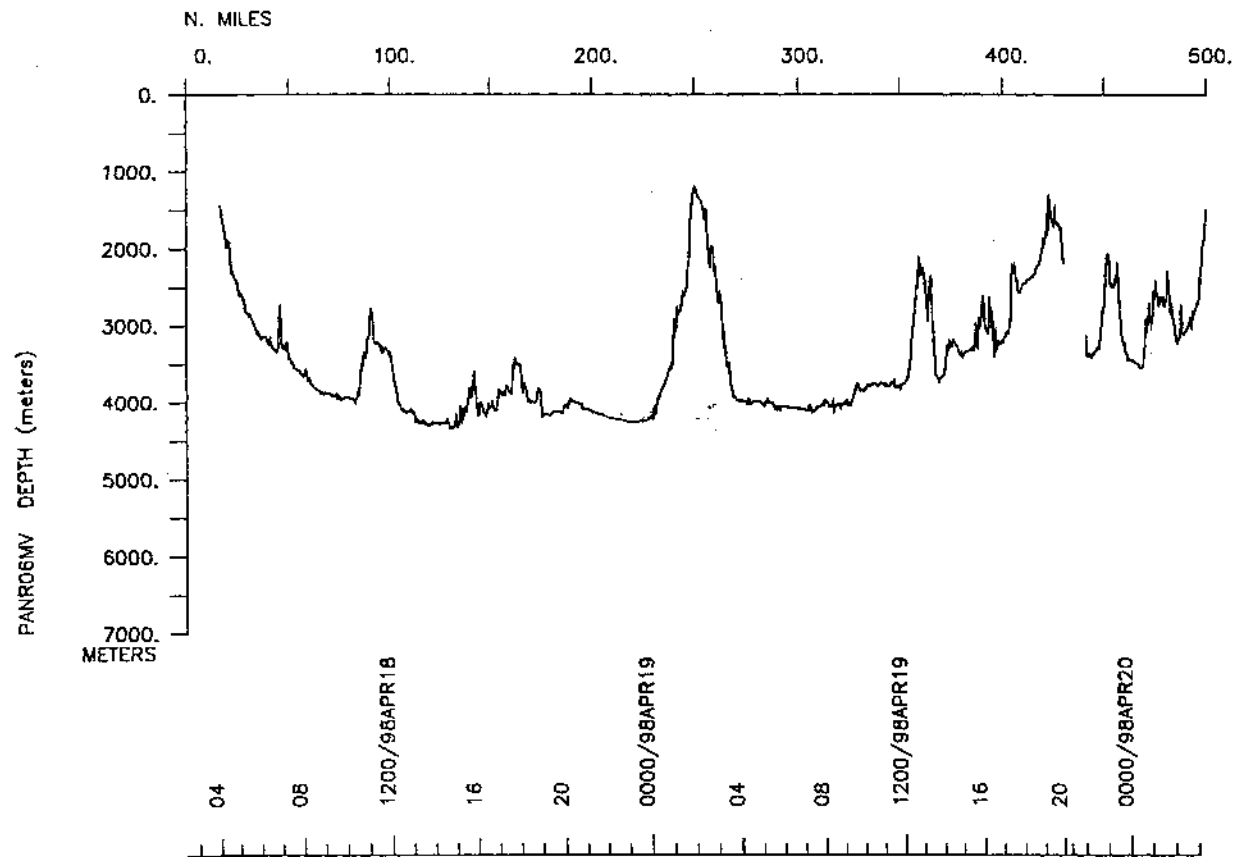
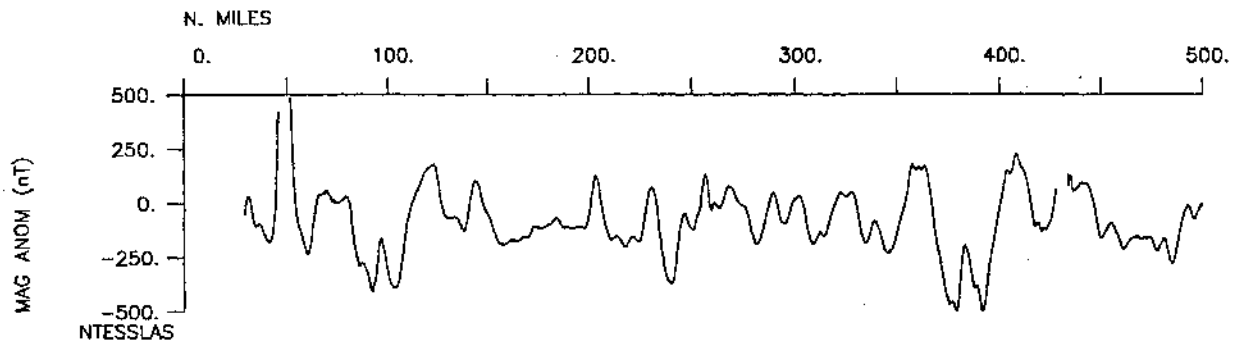
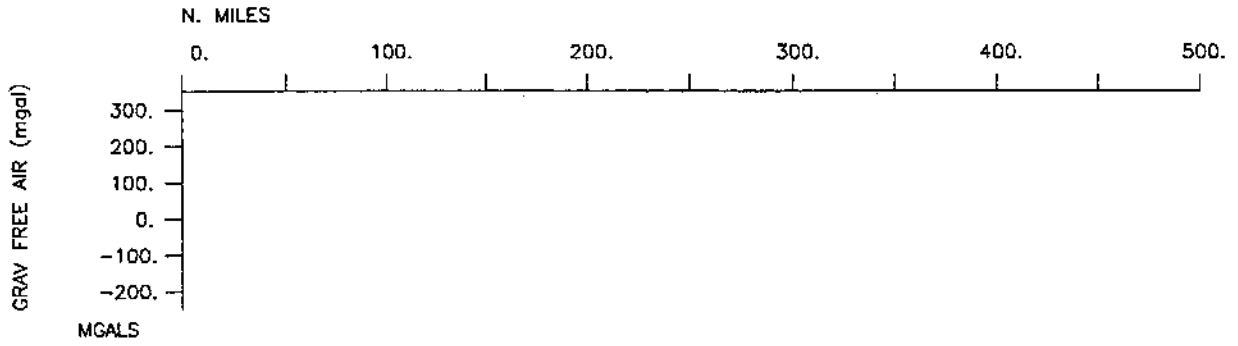


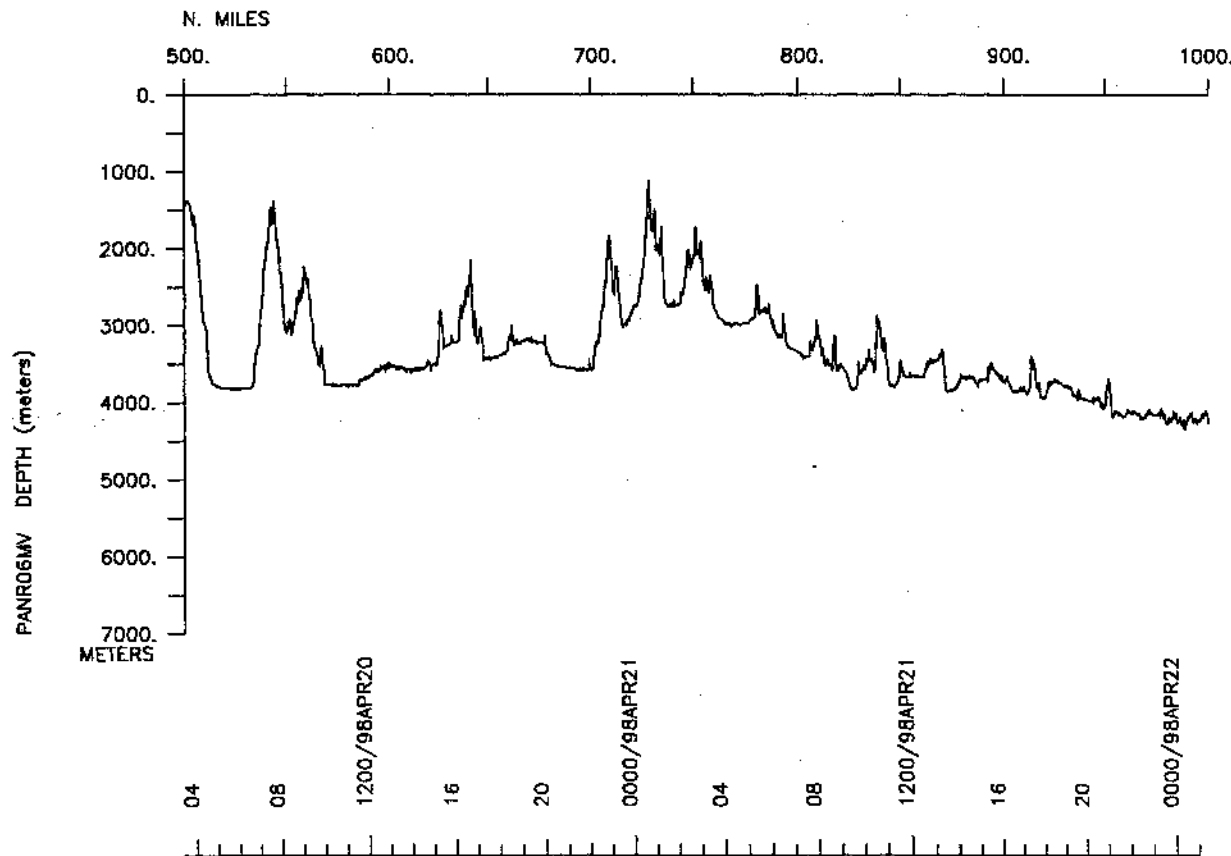
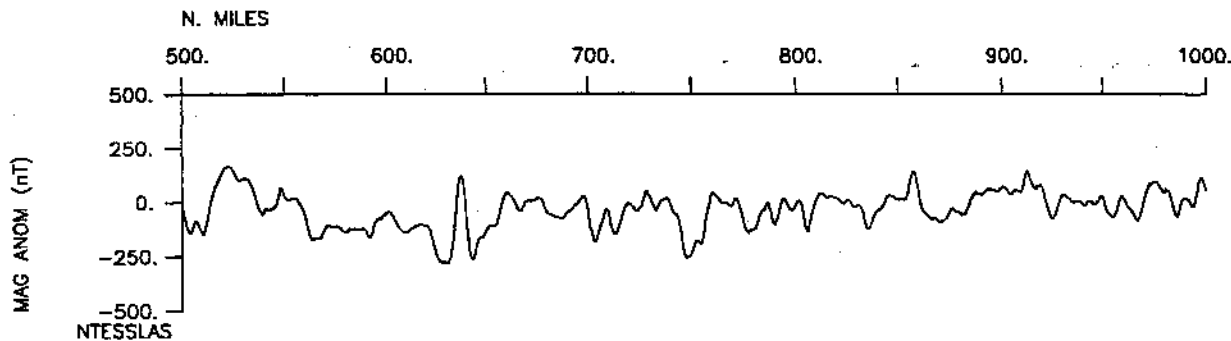
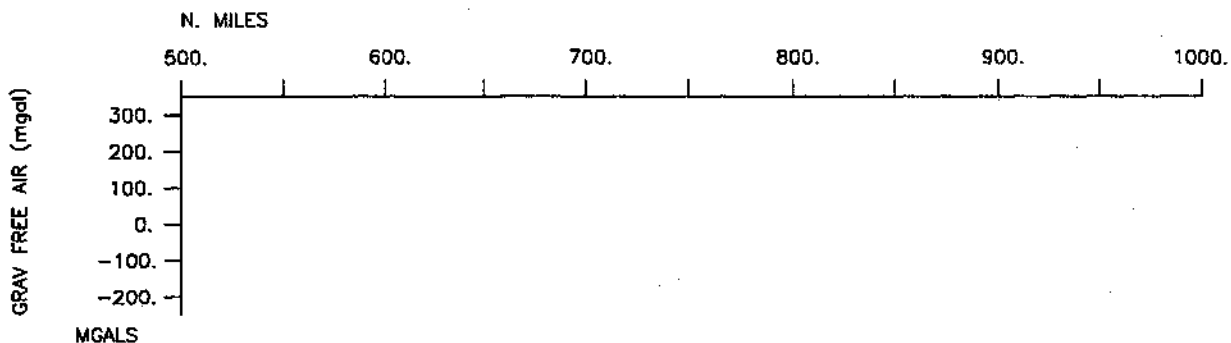
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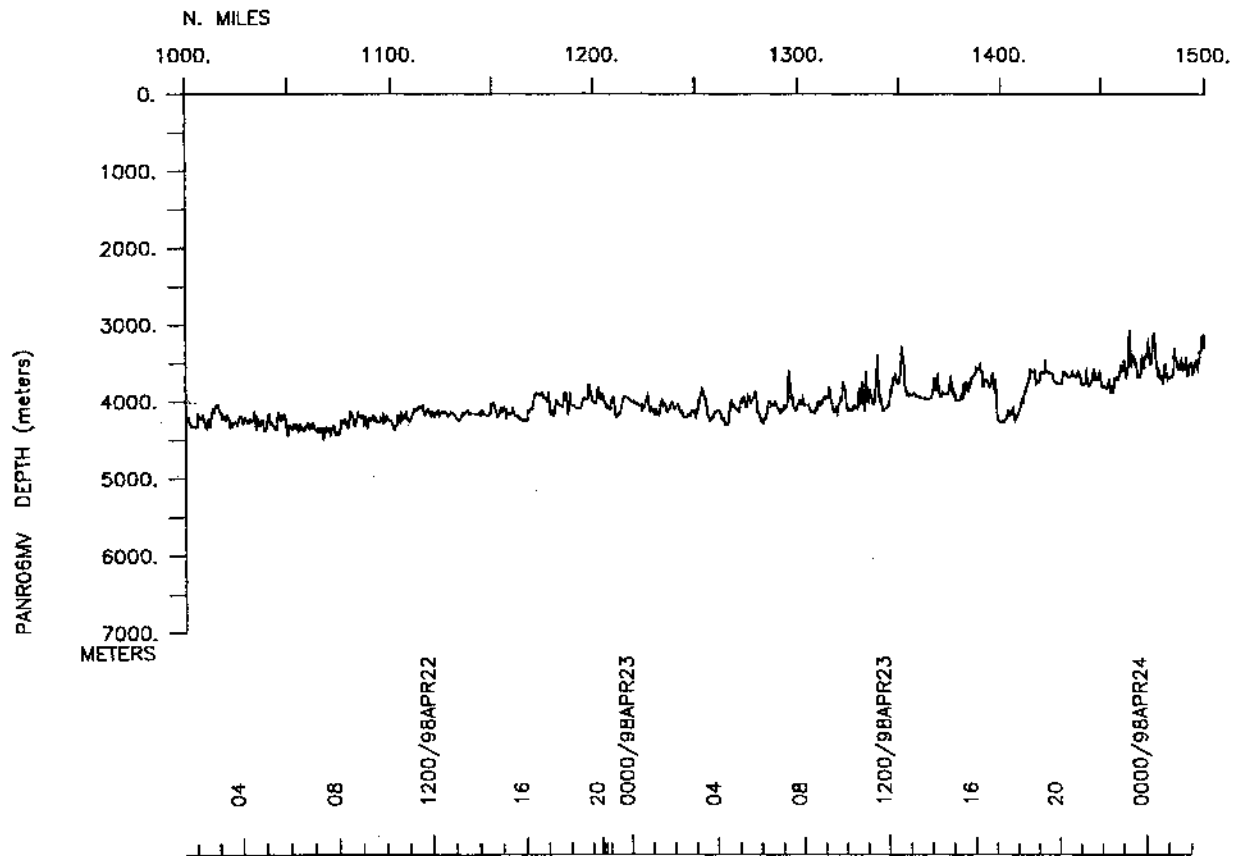
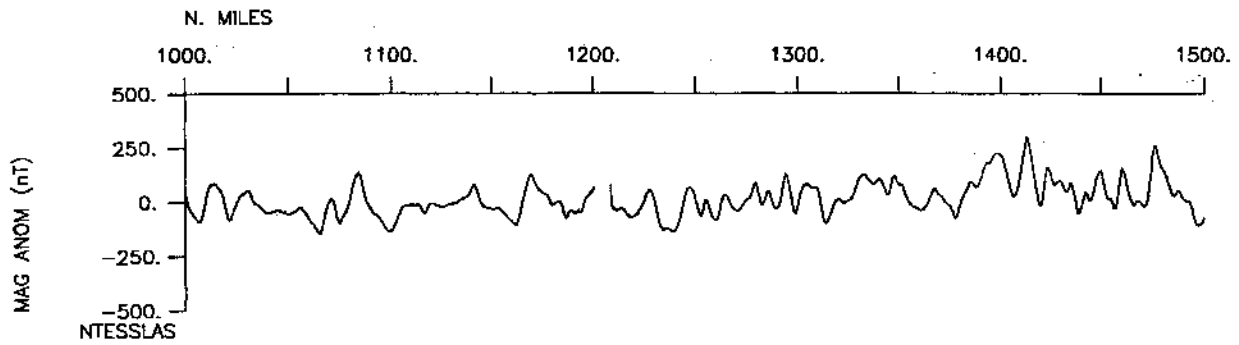
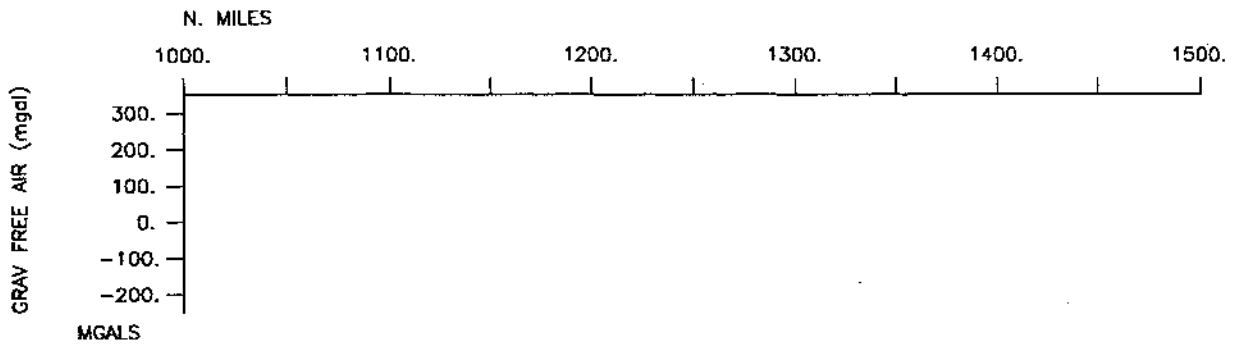


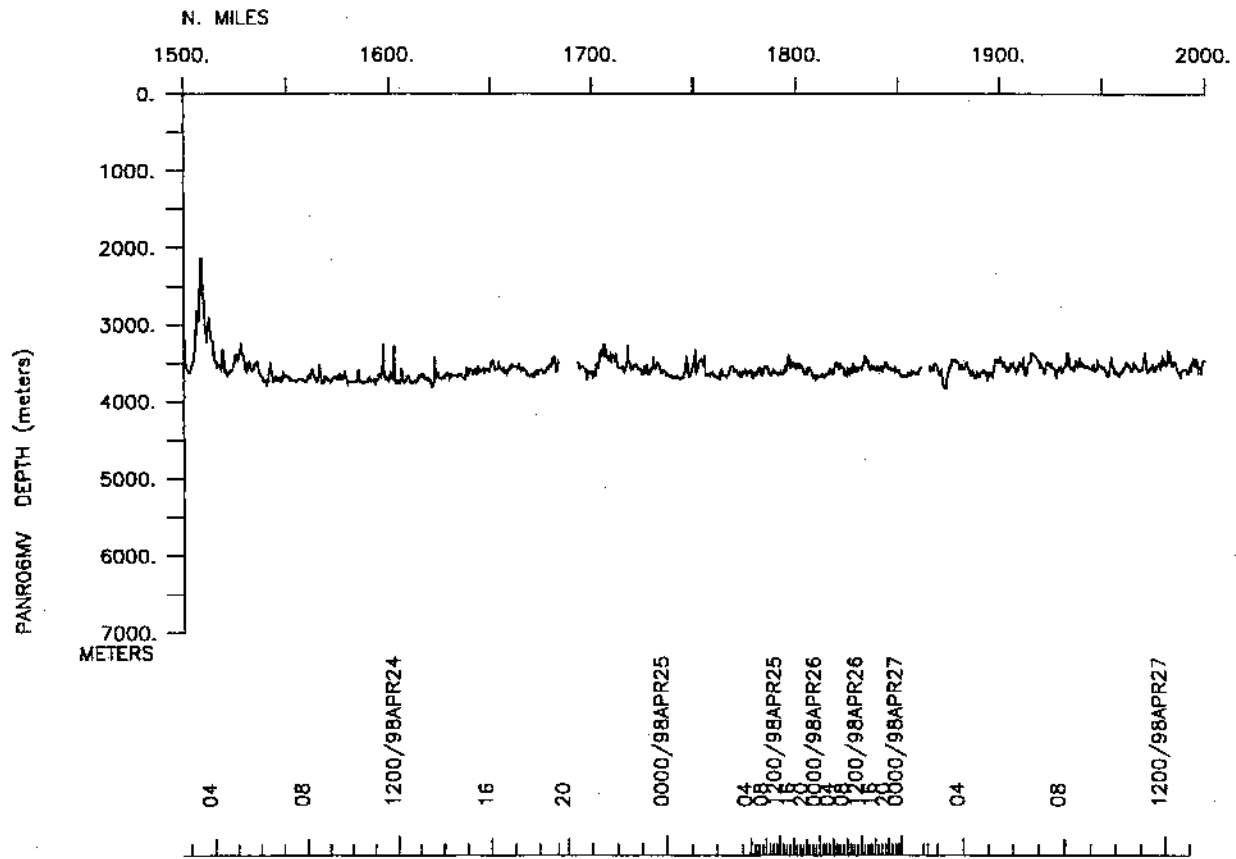
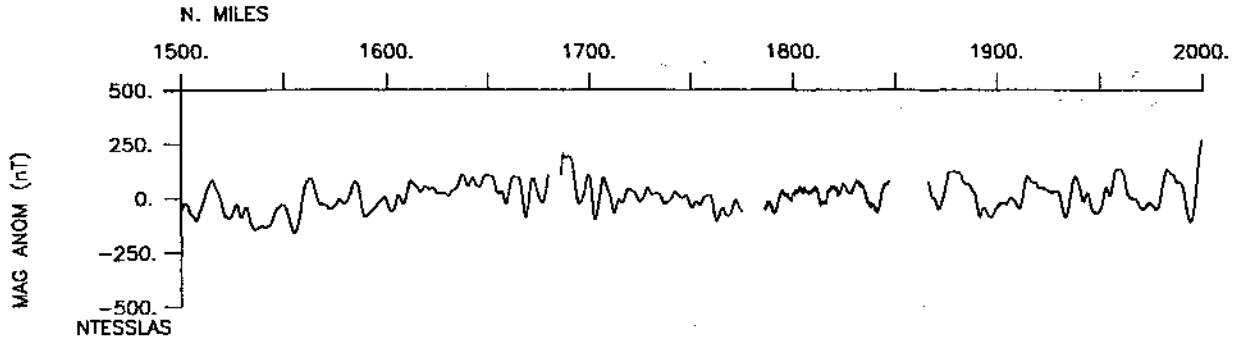
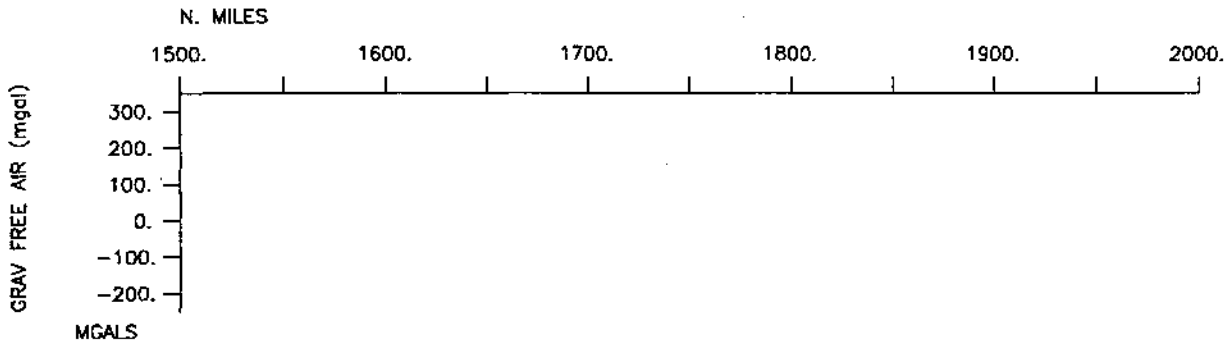
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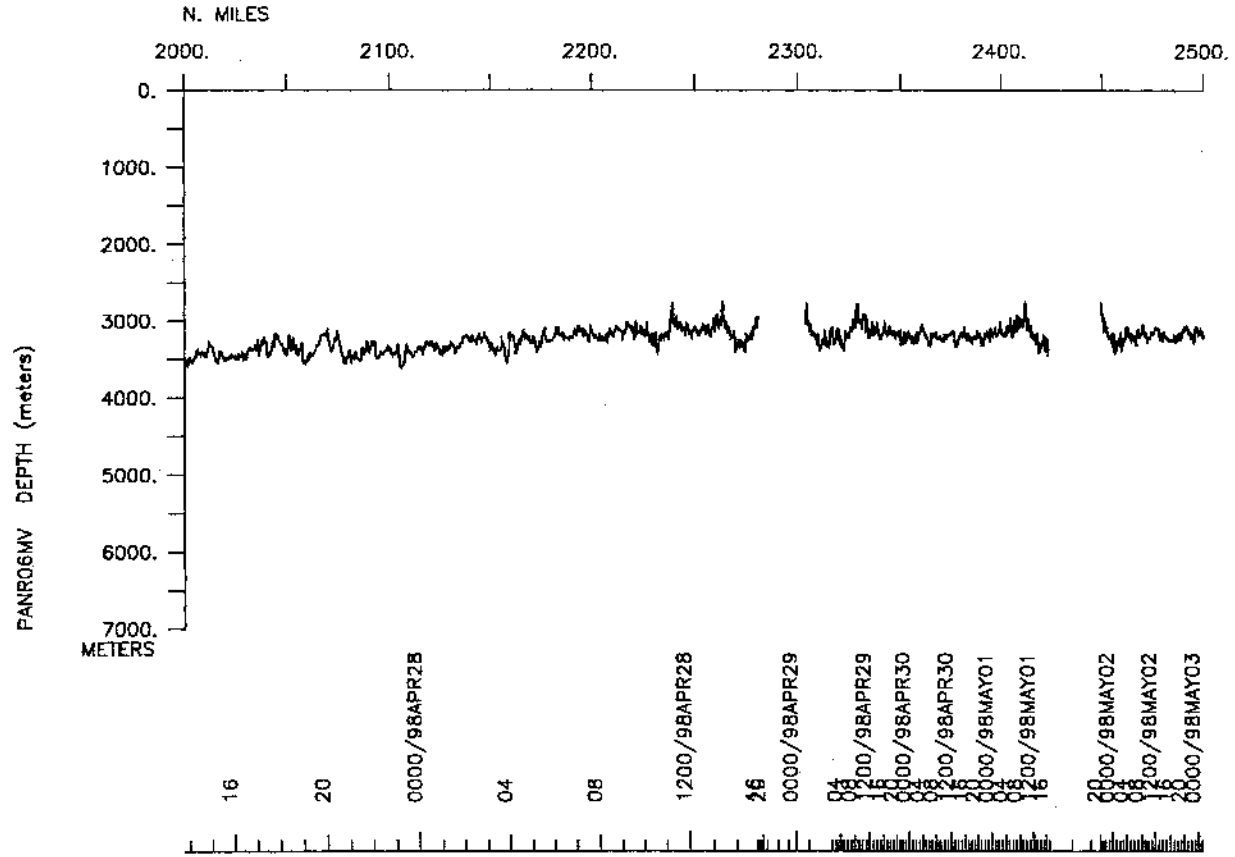
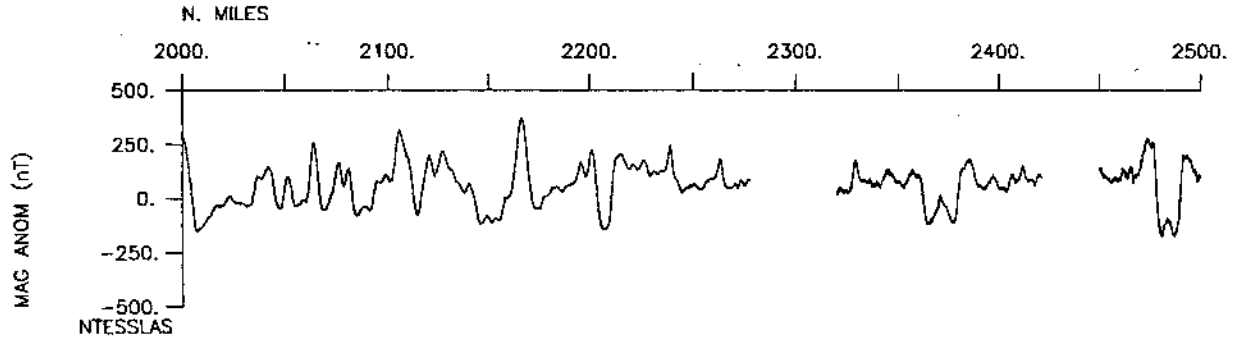
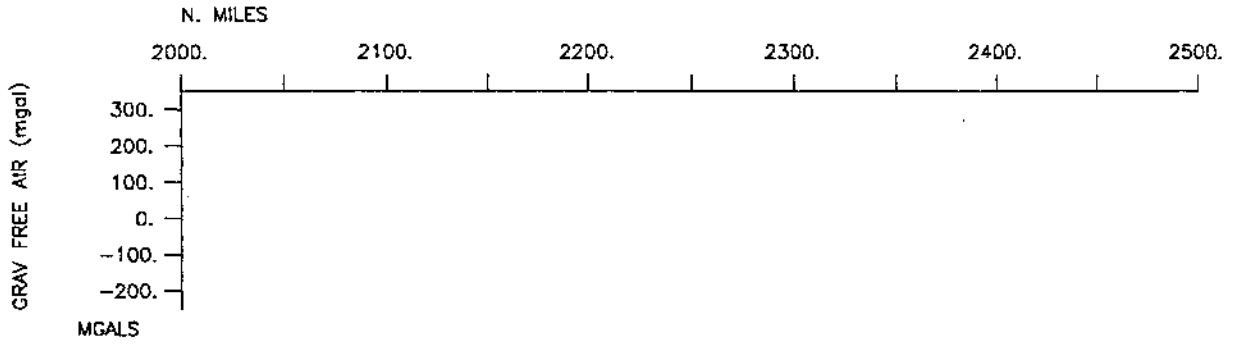


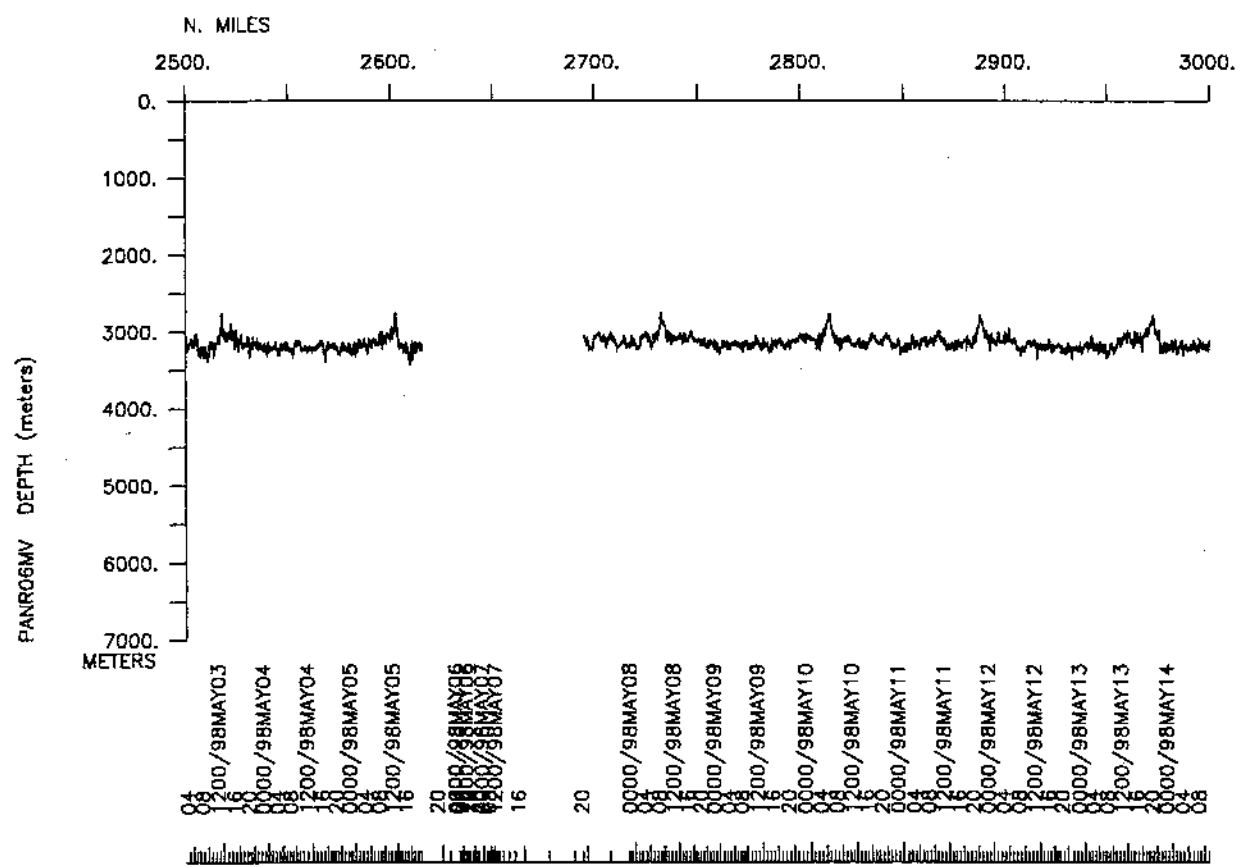
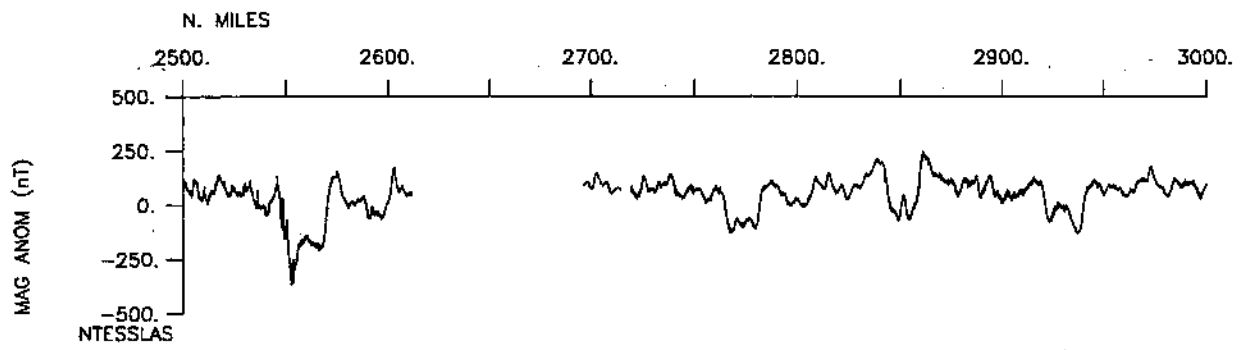
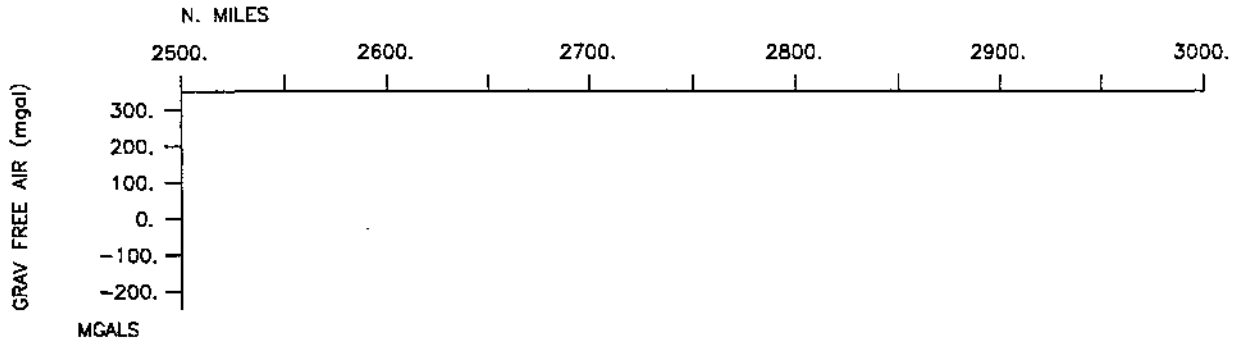


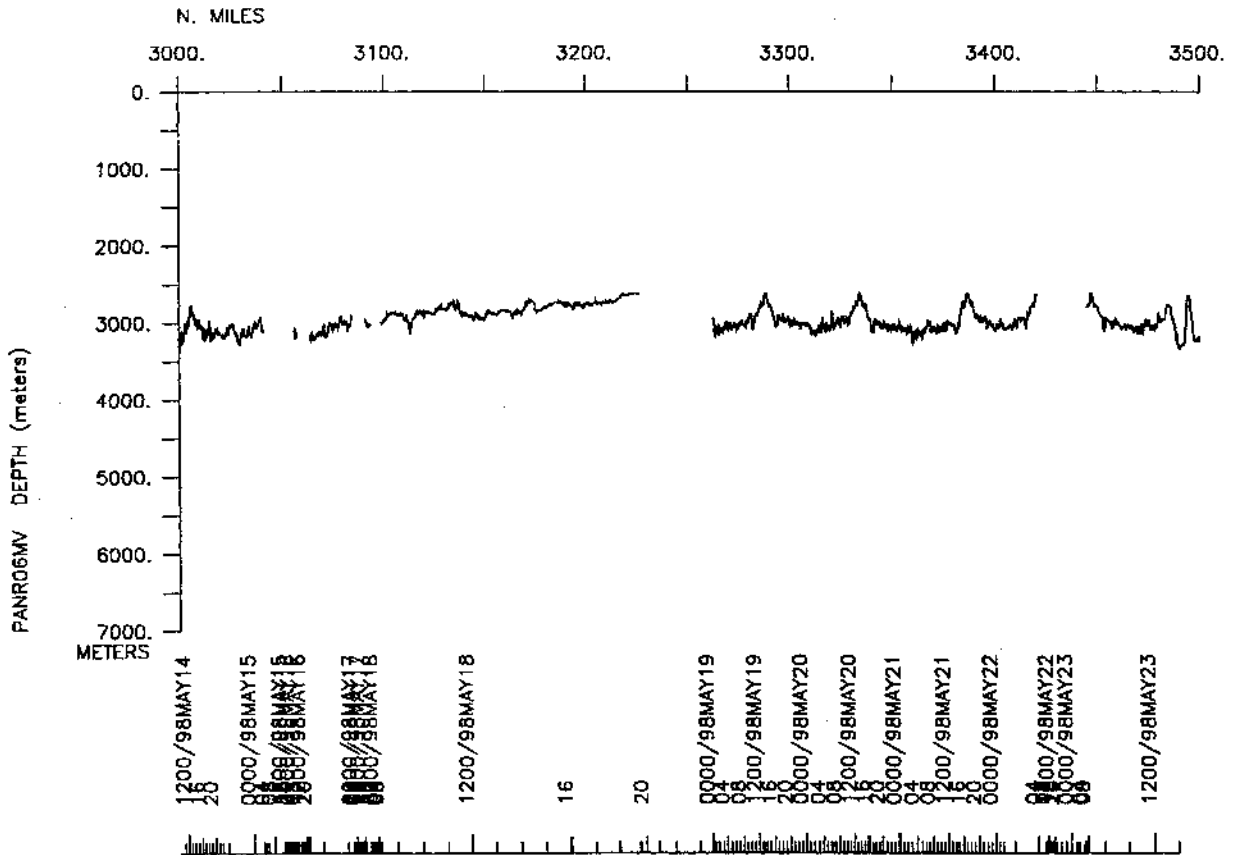
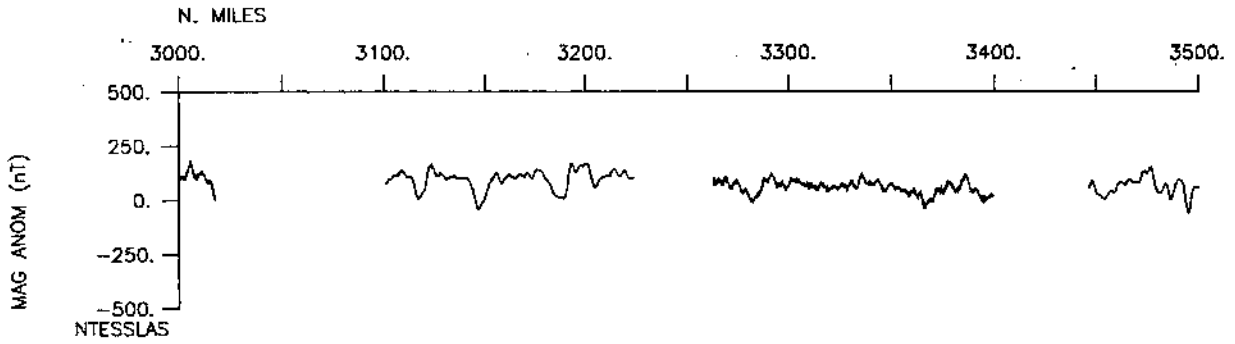
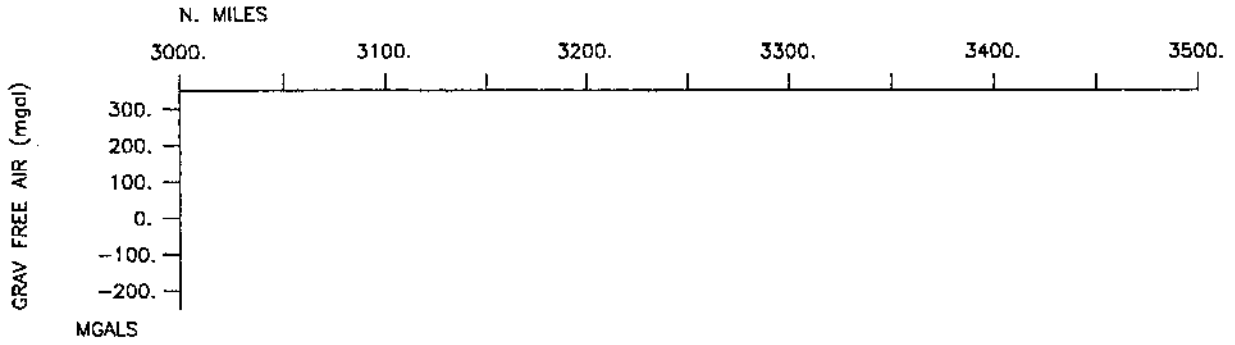


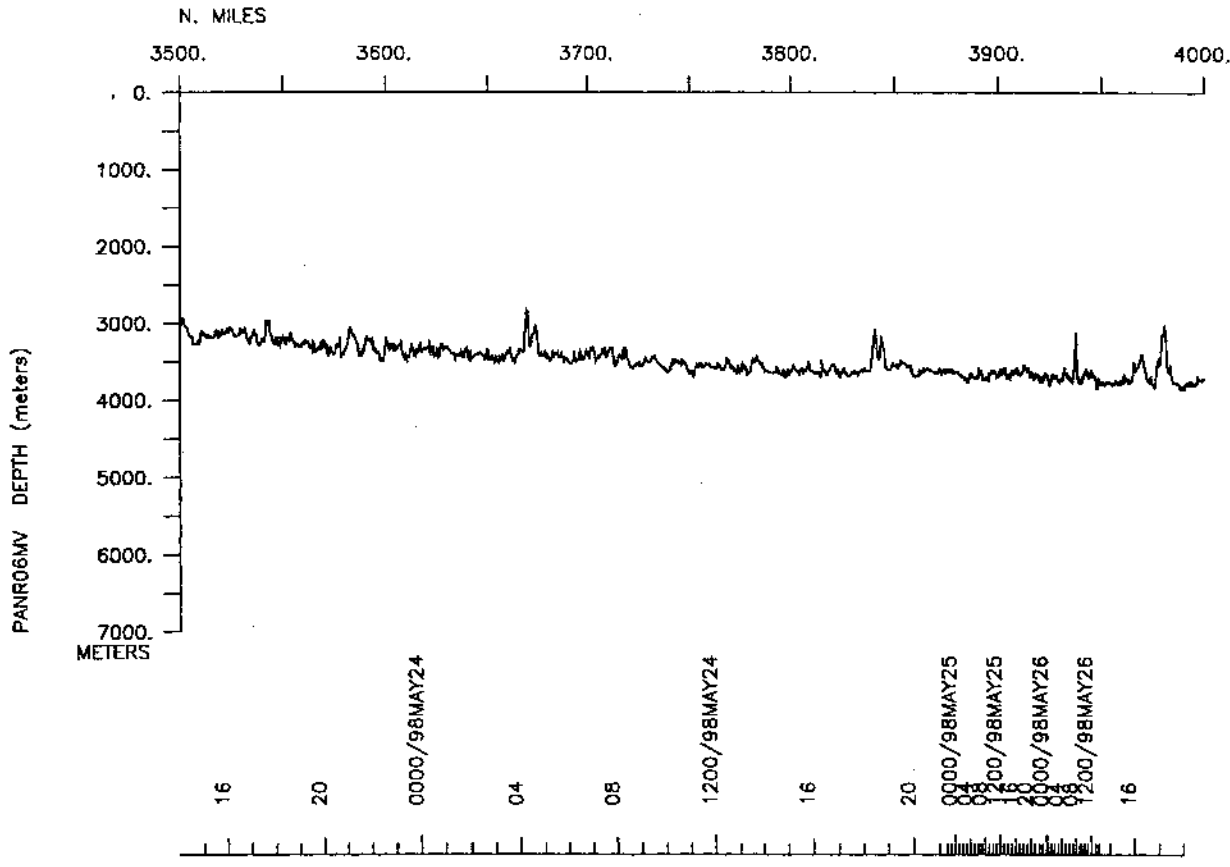
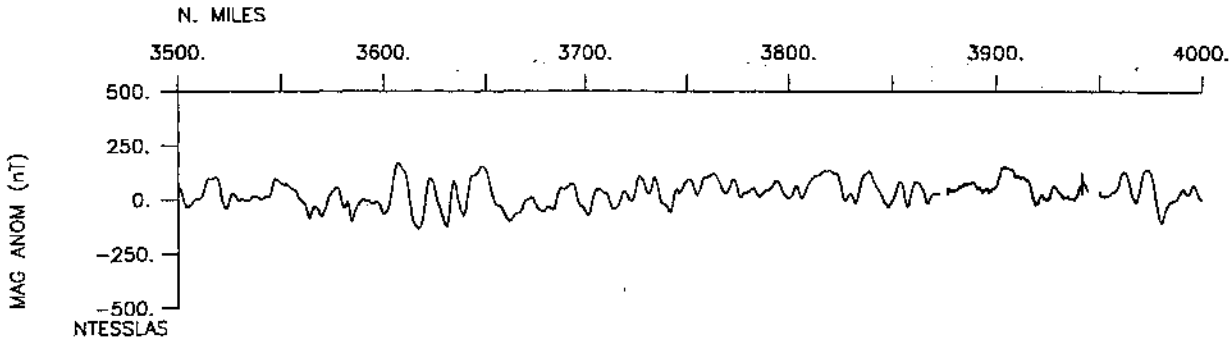
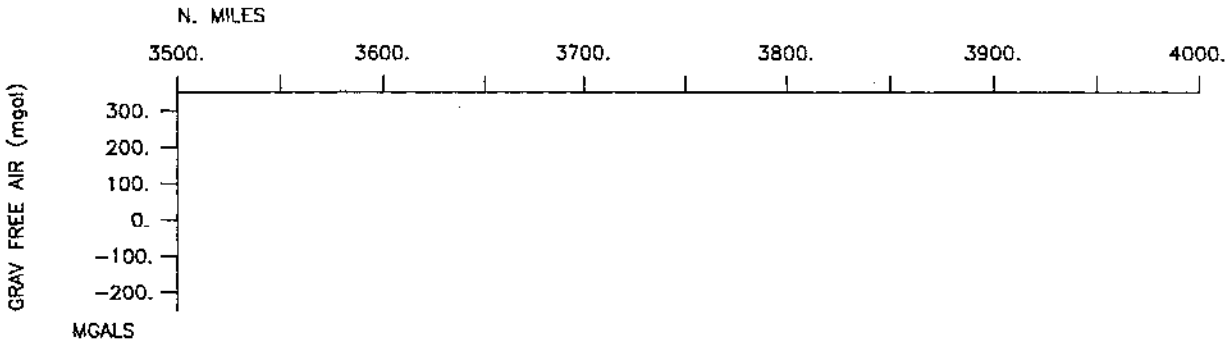


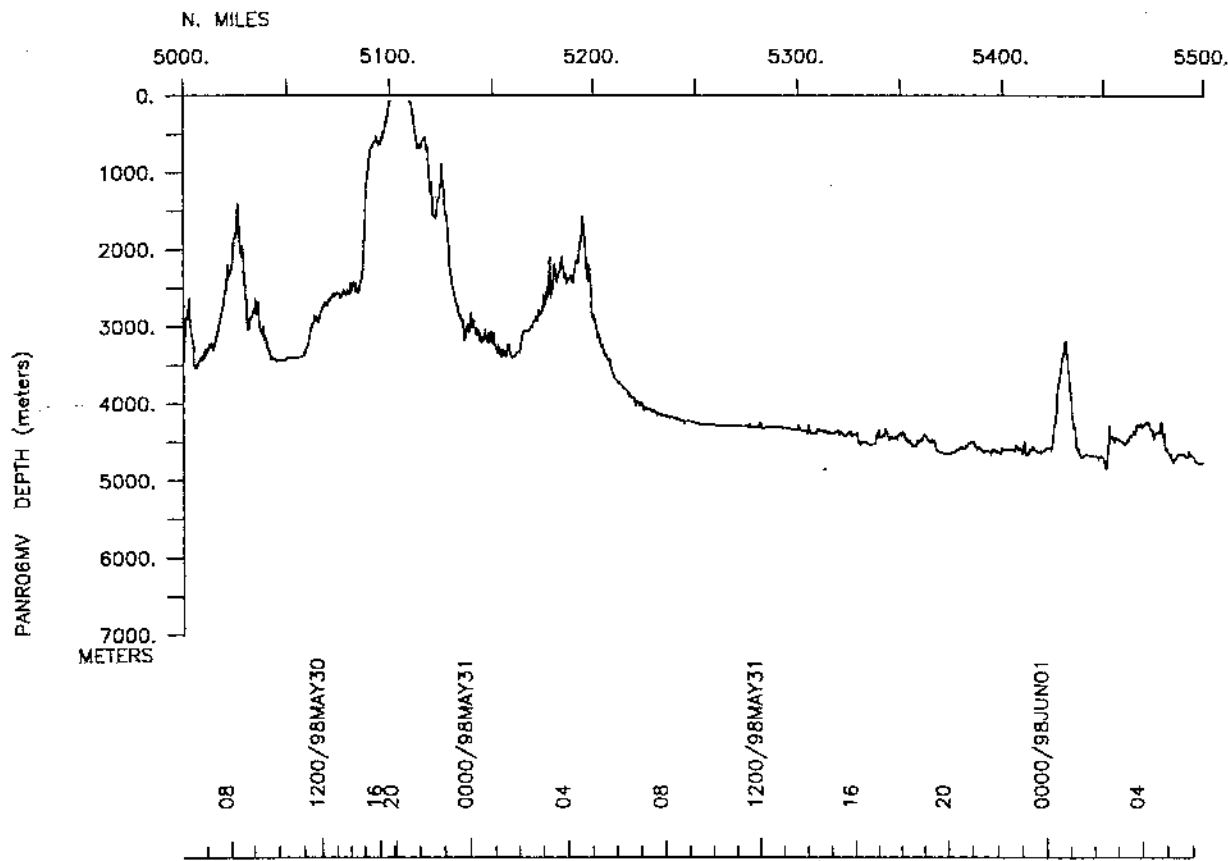
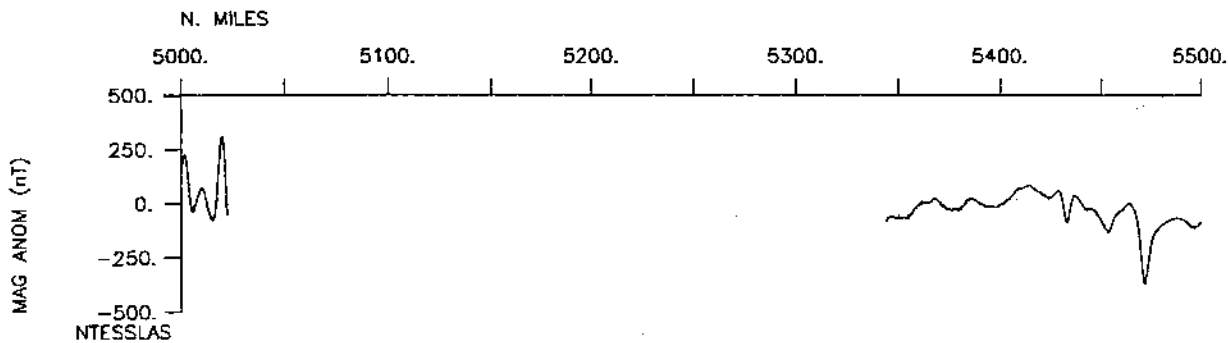
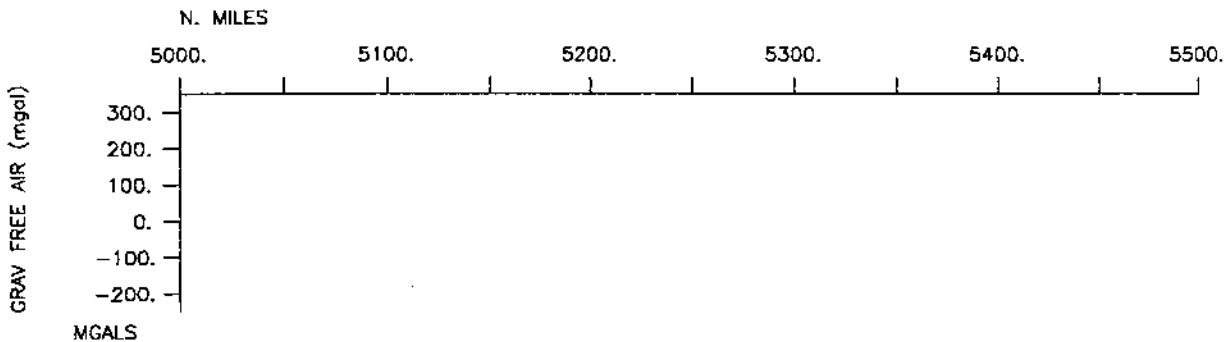


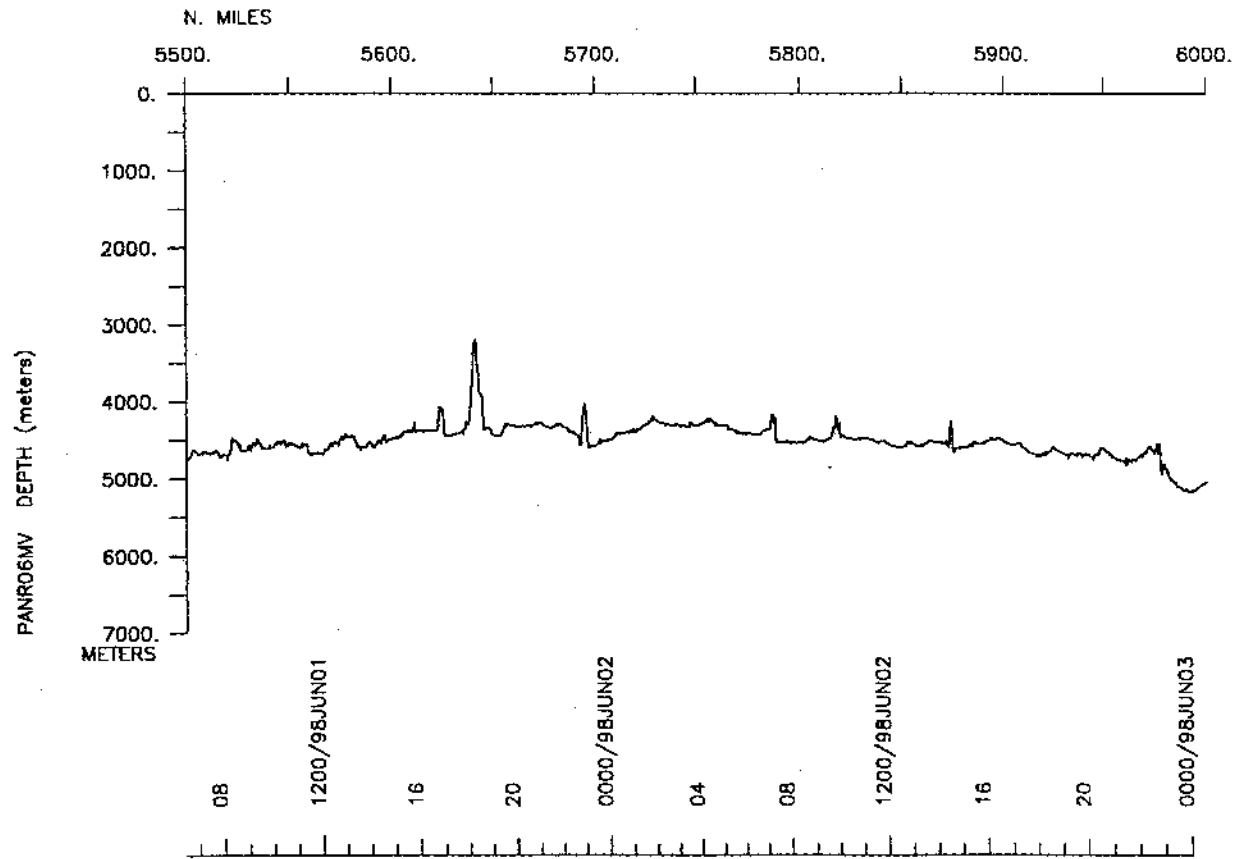
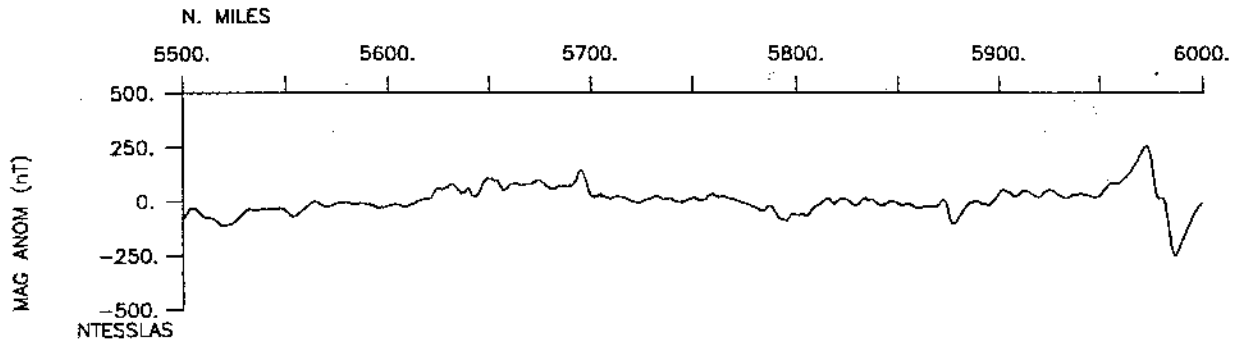
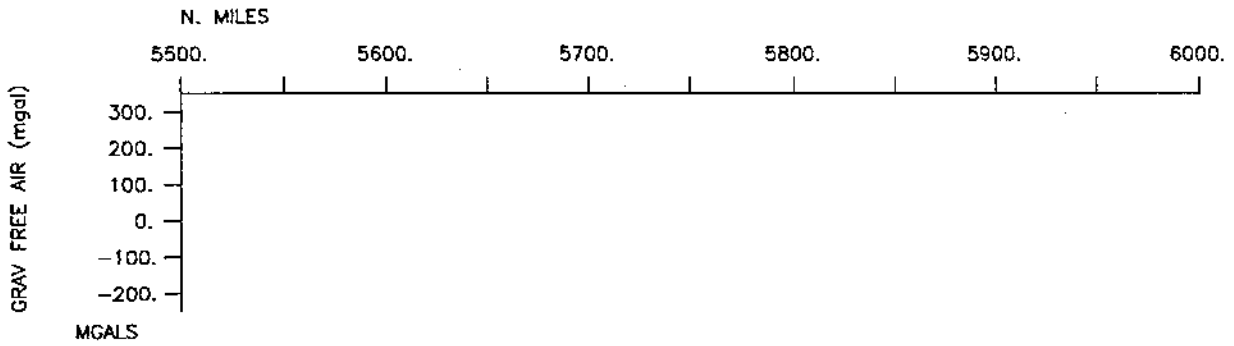


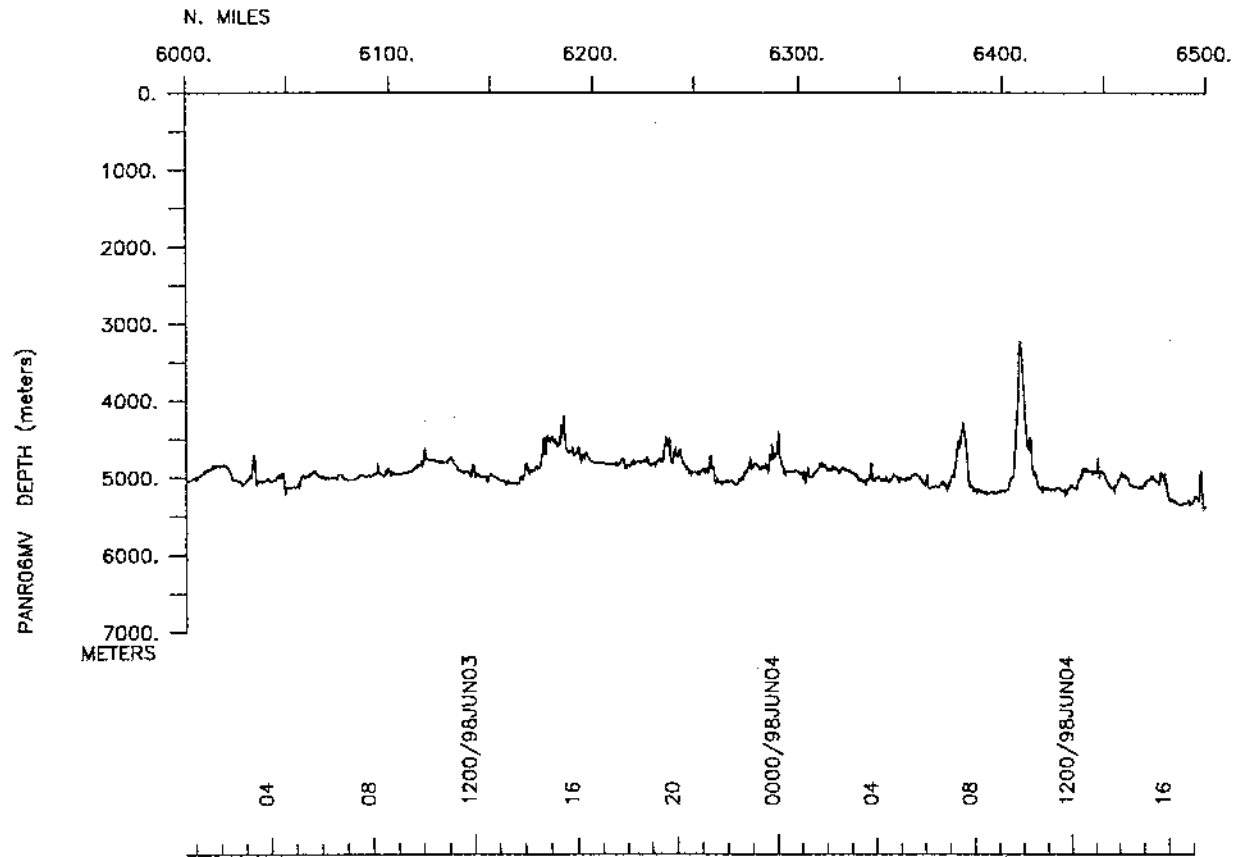
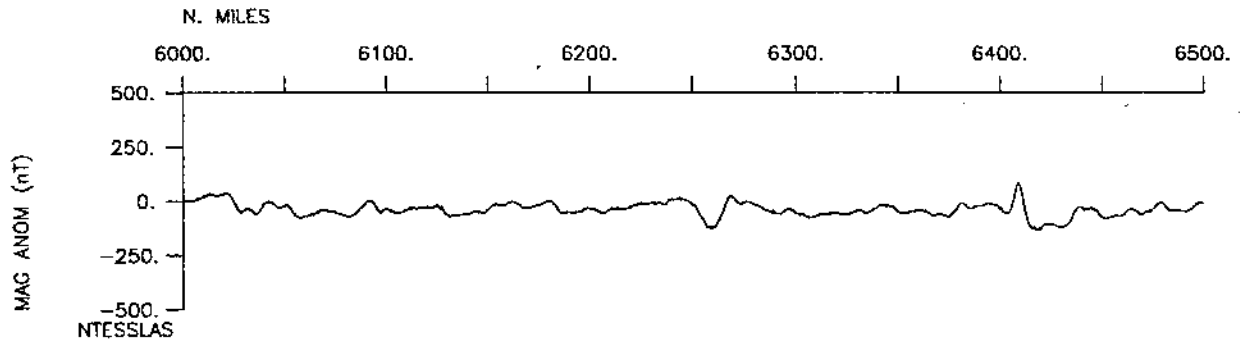
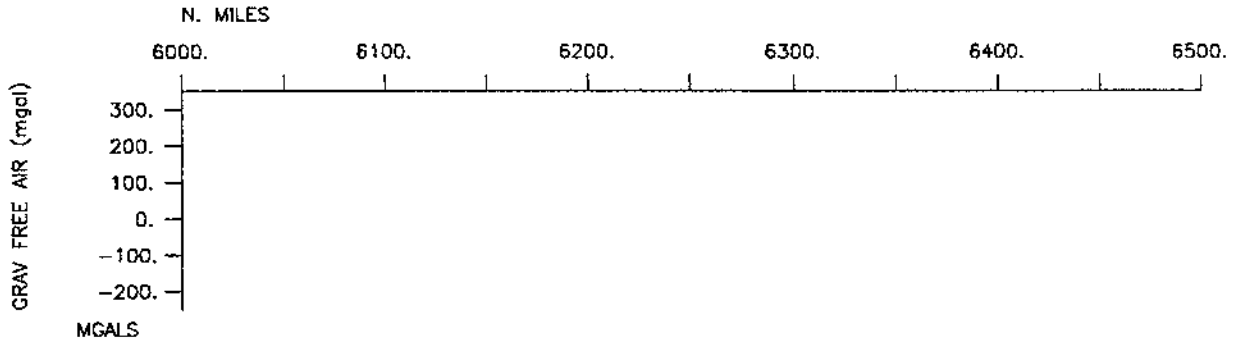


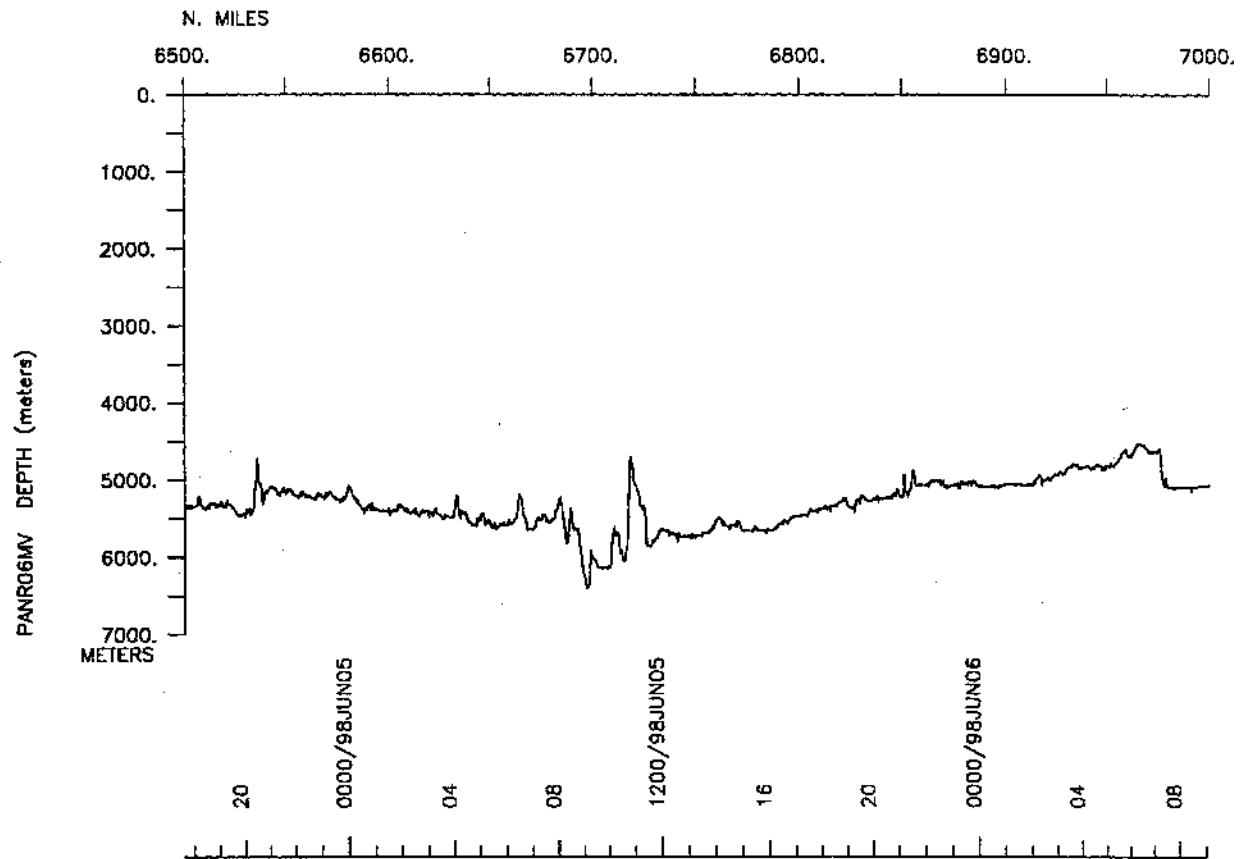
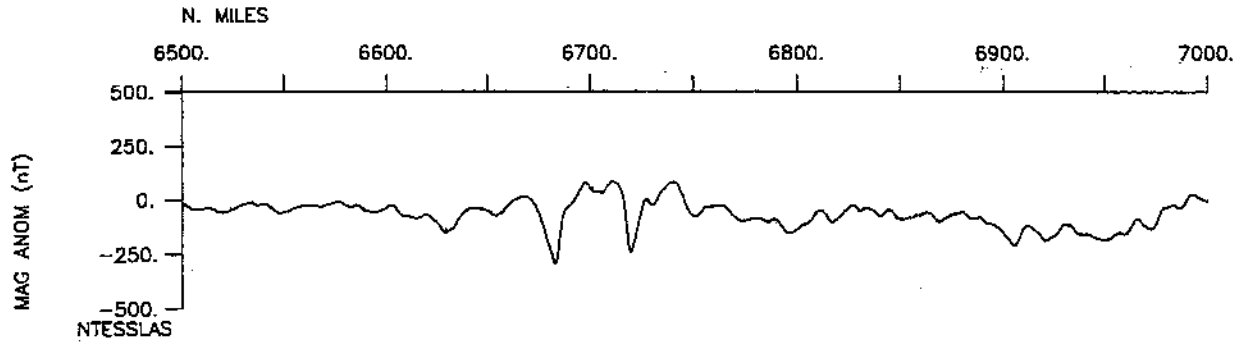
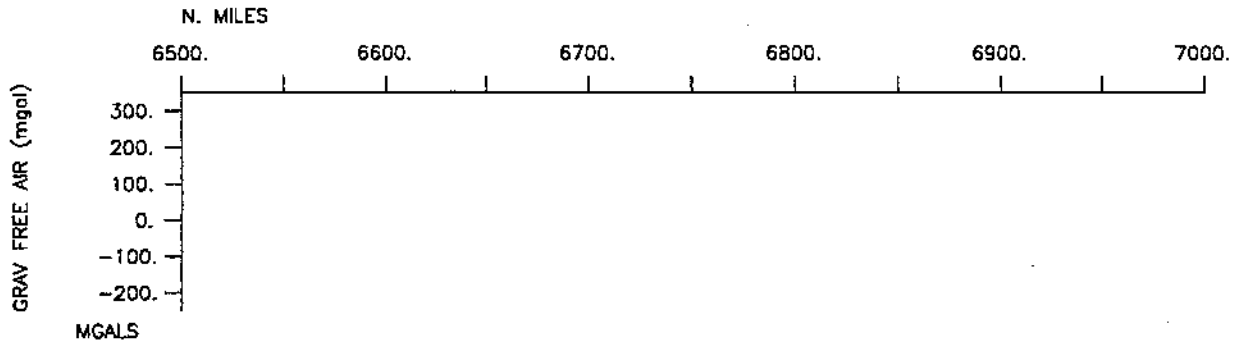


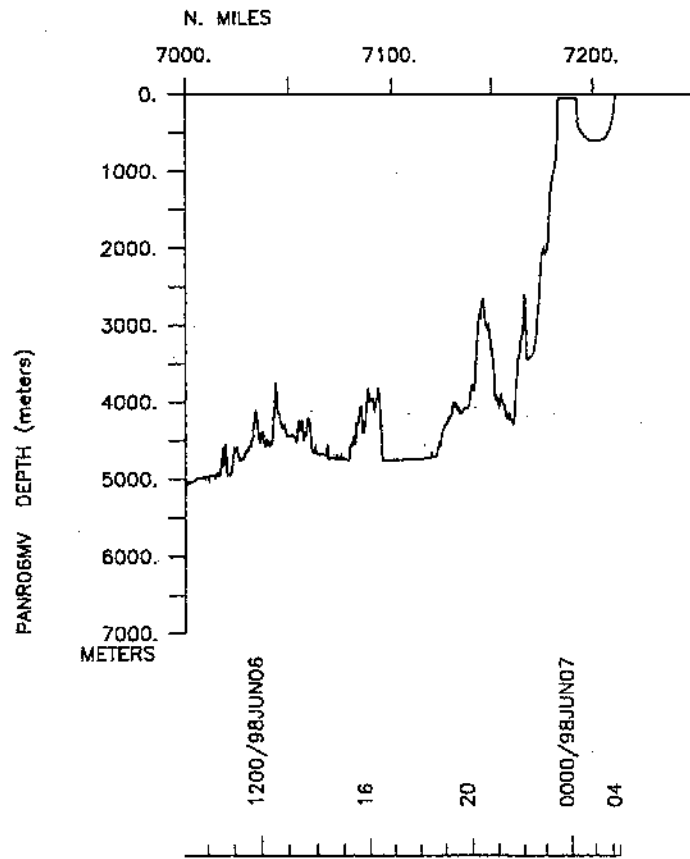
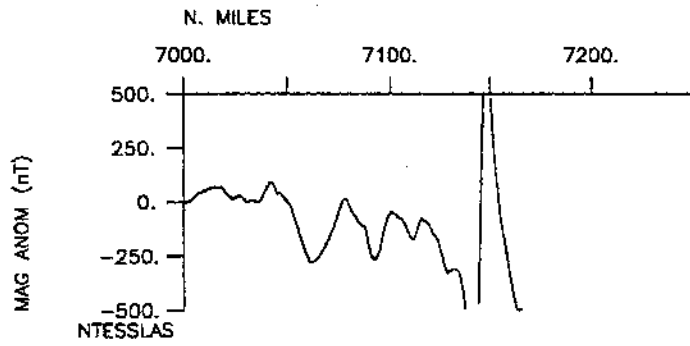
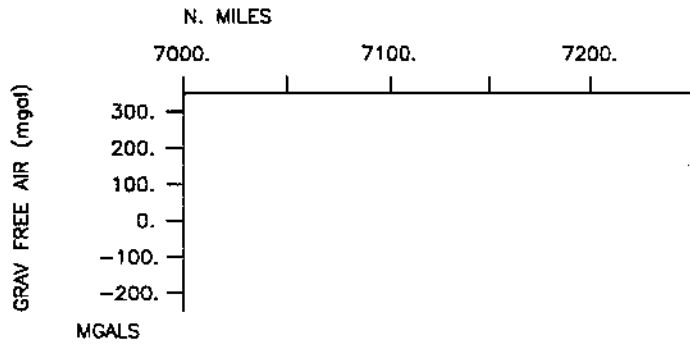












S.I.O. SAMPLE INDEX

PANORAMA EXPEDITION

LEG 6

(PANR06MV)

R/V Melville

(Issued July 1998)

PORTS:

Papeete, Tahiti (18 April 1998)

to

Honolulu, Hawaii (7 June 1998)

Chief Scientist:

Jeffrey Gee (Scripps 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. Geological Data Center 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 Geological Data Center.)

GDC Cruise I.D.# 278

**** Ports ***

0212	180498+10	LGPT B	Papeete, Tahiti	17-32.00S	149-34.00W	f	PANR06MV
0230	070698+10	LGPT E	Honolulu, Hawaii	21-18.00N	157-52.00W	f	PANR06MV
1527	300598+09	LGSS B	Nuku Hiva, Marquesas	8-56.00S	140-05.00W	f	PANR06MV
2054	300598+09	LGSS E	Nuku Hiva, Marquesas	8-56.00S	140-05.00W	f	PANR06MV

**** Personnel ***

#	*****NAME*****	*****TITLE*****	*****AFFILIATION*****	**CRID**
PECS GRD	Gee, Jeff	Chief Scientist	Scripps Institution	PANR06MV
PESP MPL	Austin, Gary	Technician	Scripps Institution	PANR06MV
PEST GRD	Bowers, Nancy	Grad Student	Scripps Institution	PANR06MV
PESP GRD	Cande, Steve	Scientist	Scripps Institution	PANR06MV
PESP GRD	Didonna, Steve	Scientist	Scripps Institution	PANR06MV
PEST LDEO	Donnelly, Kathleen	Grad Student	Lamont-Doherty E.O.	PANR06MV
PESP GRD	Hicks, Jason	Technician	Scripps Institution	PANR06MV
PESP MPL	Hildebrand, John	Scientist	Scripps Institution	PANR06MV
PESP MPL	Jabson, David	Technician	Scripps Institution	PANR06MV
PESP MPL	Jonke, Patrick	Technician	Scripps Institution	PANR06MV
PERT STS	Pillard, Eugene	Resident Tech	Scripps Institution	PANR06MV
PESP MPL	Price, David	Technician	Scripps Institution	PANR06MV
PECT STS	Silver, Marc	Computer Tech	Scripps Institution	PANR06MV
PEVL SIX	Wilson, Robert	Volunteer	Lamont-Doherty E.O.	PANR06MV

**** 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 - S. M. Smith ext. 42752 ***

**** Log Books ***

0530	180498	0	LBUW	B	Underway Watch Log	GDC	17-28.89S	149-05.01W	g	PANR06MV
0740	290598	0	LBUW	E	Underway Watch Log	GDC	10-59.35S	134-12.97W	g	PANR06MV
0000	170498	0	LBSC	B	Scientific Log Book	GRD	17-32.03S	149-34.34W	g	PANR06MV
1430	260598	0	LBSC	E	Scientific Log Book	GRD	15-04.61S	121-32.20W	g	PANR06MV

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

**** Digital Gravity ****

0212	180498	0	GVDR	B Digital Gravity	GDC	17-32.03S	149-34.34W	g		PANR06MV
0740	290598	0	GVDR	C Digital Gravity	GDC	10-59.35S	134-12.97W	g		PANR06MV

**** Magnetics (Earth Total Field) ****

0530	180498	0	MGDR	B Digital Magnetics	GDC	17-28.89S	149-05.01W	g		PANR06MV
2200	060698	0	MGDR	E Digital Magnetics	GDC	20-39.61N	157-29.01W	g		PANR06MV

**** Sea Beam Records (vertical beam and side scan) ****

0530	180498	0	MBSR	B v.beam&sscan r-01	GDC	17-28.89S	149-05.01W	g		PANR06MV
2300	170598	0	MBSR	E v.beam&sscan r-01	GDC	19-24.50S	113-33.00W	g		PANR06MV
2322	170598	0	MBSR	B v.beam&sscan r-02	GDC	19-24.50S	113-32.91W	g		PANR06MV
2335	060698	0	MBSR	E v.beam&sscan r-02	GDC	20-54.74N	157-39.13W	g		PANR06MV

**** Echo Sounder Records ****

0420	180498	0	DPR3	B 3.5Khz r-01	GDC	17-28.12S	149-17.64W	g		PANR06MV
1500	280498	0	DPR3	E 3.5Khz r-01	GDC	19-44.75S	113-38.07W	g		PANR06MV
0833	180598	0	DPR3	B 3.5Khz r-02	GDC	19-22.16S	113-30.22W	g		PANR06MV
1930	180598	0	DPR3	E 3.5Khz r-02	GDC	17-20.00S	113-11.25W	g		PANR06MV
0922	230598	0	DPR3	B 3.5Khz r-03	GDC	17-22.92S	113-10.35W	g		PANR06MV
2100	240598	0	DPR3	E 3.5Khz r-03	GDC	15-20.16S	120-14.47W	g		PANR06MV
1455	260598	0	DPR3	B 3.5Khz r-04	GDC	15-03.67S	121-35.92W	g		PANR06MV
2100	010698	0	DPR3	E 3.5Khz r-04	GDC	0-48.14S	144-40.88W	g		PANR06MV
2120	010698	0	DPR3	B 3.5Khz r-05	GDC	0-44.63S	144-42.49W	g		PANR06MV
2335	060698	0	DPR3	E 3.5Khz r-05	GDC	20-54.74N	157-39.13W	g		PANR06MV

**** Sea Quake Survey ****

0100	190498	0	SQSV	B Sonobuoy samples-48	MPL	17-38.82S	145-27.02W	g		PANR06MV
0900	300598	0	SQSV	E Sonobuoy samples-48	MPL	9-18.49S	139-03.15W	g		PANR06MV

**** Satellite Intercomparison for Marine Biology & Aerosole Determination ****

2050	230498	0	SMBD	B Simbad-Solar	SIO	19-10.65S	124-31.98W	g		PANR06MV
2230	060698	0	SMBD	E reflection data-28	SIO	20-42.84N	157-32.81W	g		PANR06MV

#GMT #TIME #-----	DDMMYY DATE -----	TZ	SAMP CODE	B E	SAMPLE IDENTIFIER	DISP CODE	LATITUDE	LONGITUDE	p c	CRUISE LEG-SHIP
*** Deep Tow Survey ***										
0336	250498	0	DTXX	B	Deep Tow Survey	GRD	19-25.06S	121-46.51W	g	PANR06MV
2316	260498	0	DTXX	E	Fluxgate Mag	GRD	19-35.14S	120-30.06W	g	PANR06MV
0221	290498	0	DTXX	B	Deep Tow Survey	GRD	19-42.78S	113-49.38W	g	PANR06MV
1651	010598	0	DTXX	E	Fluxgate Mag	GRD	19-44.90S	113-48.38W	g	PANR06MV
2031	010598	0	DTXX	B	Deep Tow Survey	GRD	19-44.82S	113-36.68W	g	PANR06MV
1901	050598	0	DTXX	E	Fluxgate Mag	GRD	19-49.50S	113-50.95W	g	PANR06MV
2202	070598	0	DTXX	B	Deep Tow Survey	GRD	19-16.94S	113-47.20W	g	PANR06MV
2231	140598	0	DTXX	E	Fluxgate Mag	GRD	19-32.03S	113-18.25W	g	PANR06MV
2154	240598	0	DTXX	B	Deep Tow Survey	GRD	15-19.65S	120-18.06W	g	PANR06MV
1416	260598	0	DTXX	E	Fluxgate Mag	GRD	15-04.91S	121-31.74W	g	PANR06MV
*** Cores ***										
1649	280498	0	CORG		Wax core #1	2962m SIO	19-44.80S	113-37.80W	g	PANR06MV
1835	280498	0	CORG		Wax core #2	2785m LDEO	19-44.80S	113-37.22W	g	PANR06MV
2251	050598	0	CORG		Wax core #3	3075m SIO	19-44.81S	113-35.01W	g	PANR06MV
0022	060598	0	CORG		Wax core #4	2976m LDEO	19-44.80S	113-35.58W	g	PANR06MV
0155	060598	0	CORG		Wax core #5	3030m SIO	19-44.80S	113-35.90W	g	PANR06MV
0351	060598	0	CORG		Wax core #6	3050m LDEO	19-44.80S	113-36.40W	g	PANR06MV
0520	060598	0	CORG		Wax core #7	3075m SIO	19-44.78S	113-36.04W	g	PANR06MV
0659	060598	0	CORG		Wax core #8	2808m LDEO	19-44.80S	113-36.83W	g	PANR06MV
0834	060598	0	CORG		Wax core #9	2781m SIO	19-44.80S	113-37.52W	g	PANR06MV
1005	060598	0	CORG		Wax core #10	3109m LDEO	19-44.80S	113-38.35W	g	PANR06MV
1131	060598	0	CORG		Wax core #11	2956m SIO	19-44.80S	113-38.66W	g	PANR06MV
1304	060598	0	CORG		Wax core #12	3054m LDEO	19-44.79S	113-39.23W	g	PANR06MV
1441	060598	0	CORG		Wax core #13	3059m SIO	19-44.80S	113-39.32W	g	PANR06MV
1617	060598	0	CORG		Wax core #14	3114m LDEO	19-44.80S	113-39.58W	g	PANR06MV
1803	060598	0	CORG		Wax core #15	3224m SIO	19-44.81S	113-40.55W	g	PANR06MV
2011	060598	0	CORG		Wax core #16	3075m LDEO	19-42.80S	113-39.19W	g	PANR06MV
2226	060598	0	CORG		Wax core #17	2990m SIO	19-42.71S	113-38.63W	g	PANR06MV
2315	060598	0	CORG		Wax core #18	3097m LDEO	19-42.80S	113-38.05W	g	PANR06MV
0033	070598	0	CORG		Wax Core #19	3030m SIO	19-42.80S	113-37.80W	g	PANR06MV

#GMT	DDMMYY	SAMP	B	SAMPLE	DISP				p	CRUISE
#TIME	DATE	TZ	CODE	E IDENTIFIER	CODE	LATITUDE	LONGITUDE		c	LEG-SHIP
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0344	070598	0	CORG	Wax core #20	2820m LDEO	19-42.79S	113-37.32W	g		PANR06MV
0511	070598	0	CORG	Wax core #21	2809m SIO	19-42.80S	113-37.11W	g		PANR06MV
0636	070598	0	CORG	Wax core #22	2807m LDEO	19-42.80S	113-36.80W	g		PANR06MV
0811	070598	0	CORG	Wax core #23	3035m SIO	19-42.80S	113-36.05W	g		PANR06MV
0936	070598	0	CORG	Wax core #24	2800m LDEO	19-42.80S	113-36.80W	g		PANR06MV
1107	070598	0	CORG	Wax core #25	2995m SIO	19-42.80S	113-35.55W	g		PANR06MV
0125	150598	0	CORG	Wax core #26	3138m LDEO	19-42.80S	113-35.00W	g		PANR06MV
0309	150598	0	CORG	Wax core #27	3025m SIO	19-42.80S	113-34.45W	g		PANR06MV
0441	150598	0	CORG	Wax core #28	2926m LDEO	19-42.79S	113-33.95W	g		PANR06MV
0606	150598	0	CORG	Wax core #29	2954m SIO	19-42.79S	113-33.40W	g		PANR06MV
0804	150598	0	CORG	Wax core #30	2972m LDEO	19-44.80S	113-34.50W	g		PANR06MV
0927	150598	0	CORG	Wax core #31	3030m SIO	19-44.80S	113-34.00W	g		PANR06MV
2306	160598	0	CORG	Wax core #32	2973m LDEO	19-21.99S	113-29.82W	g		PANR06MV
0046	170598	0	CORG	Wax core #33	2967m SIO	19-22.00S	113-30.10W	g		PANR06MV
0226	170598	0	CORG	Wax core #34	2937m LDEO	19-22.00S	113-30.40W	g		PANR06MV
0408	170598	0	CORG	Wax core #35	2865m SIO	19-22.01S	113-30.69W	g		PANR06MV
0537	170598	0	CORG	Wax core #36	2867m LDEO	19-22.01S	113-30.98W	g		PANR06MV
0715	170598	0	CORG	Wax core #37	2845m SIO	19-22.00S	113-31.27W	g		PANR06MV
0835	170598	0	CORG	Wax core #38	2825m LDEO	19-22.00S	113-31.56W	g		PANR06MV
1000	170598	0	CORG	Wax core #39	2785m SIO	19-22.00S	113-31.85W	g		PANR06MV
1123	170598	0	CORG	Wax core #40	2795m LDEO	19-22.00S	113-32.14W	g		PANR06MV
1251	170598	0	CORG	Wax core #41	2909m SIO	19-22.00S	113-32.43W	g		PANR06MV
1419	170598	0	CORG	Wax core #42	2940m LDEO	19-22.00S	113-32.72W	g		PANR06MV
1550	170598	0	CORG	Wax core #43	2953m SIO	19-22.00S	113-33.01W	g		PANR06MV
1716	170598	0	CORG	Wax core #44	2948m LDEO	19-22.00S	113-33.40W	g		PANR06MV
1911	170598	0	CORG	Wax core #45	3028m SIO	19-24.50S	113-34.33W	g		PANR06MV

#	GMT #TIME	DDMMYY DATE	SAMP CODE	B TZ	SAMPLE E IDENTIFIER	DISP CODE	LATITUDE	LONGITUDE	p c	CRUISE LEG-SHIP
2028	170598	0	CORG		Wax core #46	3000m LDEO	19-24.50S	113-33.88W	g	PANR06MV
2148	170598	0	CORG		Wax core #47	2948m SIO	19-24.50S	113-33.42W	g	PANR06MV
2307	170598	0	CORG		Wax core #48	2838m LDEO	19-24.50S	113-33.00W	g	PANR06MV
0031	180598	0	CORG		Wax core #49	2792m SIO	19-24.50S	113-32.61W	g	PANR06MV
0151	180598	0	CORG		Wax core #50	2884m LDEO	19-24.49S	113-32.18W	g	PANR06MV
0316	180598	0	CORG		Wax core #51	2870m SIO	19-24.49S	113-31.75W	g	PANR06MV
0441	180598	0	CORG		Wax core #52	2903m LDEO	19-24.49S	113-31.38W	g	PANR06MV
0559	180598	0	CORG		Wax core #53	2926m SIO	19-24.49S	113-30.92W	g	PANR06MV
1716	180598	0	CORG		Wax core #54	3017m LDEO	17-37.48S	113-13.57W	g	PANR06MV
0520	220598	0	CORG		Wax core #55	2828m SIO	17-21.84S	113-14.90W	g	PANR06MV
0637	220598	0	CORG		Wax core #56	2819m LDEO	17-21.93S	113-14.52W	g	PANR06MV
0753	220598	0	CORG		Wax core #57	2779m SIO	17-22.02S	113-14.13W	g	PANR06MV
0909	220598	0	CORG		Wax core #58	2762m LDEO	17-22.11S	113-13.75W	g	PANR06MV
1028	220598	0	CORG		Wax core #59	2763m SIO	17-22.21S	113-13.37W	g	PANR06MV
1145	220598	0	CORG		Wax core #60	2764m LDEO	17-22.30S	113-12.98W	g	PANR06MV
1306	220598	0	CORG		Wax core #61	2789m SIO	17-22.39S	113-12.60W	g	PANR06MV
1422	220598	0	CORG		Wax core #62	2690m LDEO	17-22.45S	113-12.32W	g	PANR06MV
1537	220598	0	CORG		Wax core #63	2652m SIO	17-22.52S	113-12.05W	g	PANR06MV
1650	220598	0	CORG		Wax core #64	2628m LDEO	17-22.58S	113-11.77W	g	PANR06MV
1810	220598	0	CORG		Wax core #65	2625m SIO	17-22.65S	113-11.50W	g	PANR06MV
1923	220598	0	CORG		Wax core #66	2635m LDEO	17-22.72S	113-11.23W	g	PANR06MV
2039	220598	0	CORG		Wax core #67	2660m SIO	17-22.78S	113-10.95W	g	PANR06MV
0315	230598	0	CORG		Wax core #68	2708m LDEO	17-22.85S	113-10.68W	g	PANR06MV
0435	230598	0	CORG		Wax core #69	2764m SIO	17-22.91S	113-10.40W	g	PANR06MV
0552	230598	0	CORG		Wax core #70	2790m LDEO	17-23.00S	113-10.02W	g	PANR06MV
0709	230598	0	CORG		Wax core #71	2788m SIO	17-23.09S	113-09.63W	g	PANR06MV
0821	230598	0	CORG		Wax core #72	2795m LDEO	17-23.19S	113-09.25W	g	PANR06MV

#GMT	DDMMYY	SAMP	B	SAMPLE	DISP				p	CRUISE
#TIME	DATE	TZ	CODE	E IDENTIFIER	CODE	LATITUDE	LONGITUDE		c	LEG-SHIP
#	-----			-----		-----	-----			-----
*** Dredges (Each dredge was split between SIO & LDEO)***										
1314	150598	0	DRRO	B Dredge 1	SIO	19-44.81S	113-29.80W	g		PANR06MV
1444	150598	0	DRRO	E Dredge 1	2980-3015m SIO	19-44.56S	113-29.51W	g		PANR06MV
1834	150598	0	DRRO	B Dredge 2	SIO	19-44.85S	113-29.50W	g		PANR06MV
2045	150598	0	DRRO	E Dredge 2	3002-3010m SIO	19-44.57S	113-29.36W	g		PANR06MV
0044	160598	0	DRRO	B Dredge 3	SIO	19-44.84S	113-28.44W	g		PANR06MV
0203	160598	0	DRRO	E Dredge 3	3150-3133m SIO	19-44.53S	113-28.12W	g		PANR06MV
0708	160598	0	DRRO	B Dredge 4	LDEO	19-44.84S	113-27.14W	g		PANR06MV
0807	160598	0	DRRO	E Dredge 4	3114-3157m LDEO	19-44.60S	113-26.88W	g		PANR06MV
1149	160598	0	DRRO	B Dredge 5	LDEO	19-42.83S	113-27.13W	g		PANR06MV
1321	160598	0	DRRO	E Dredge 5	3150-3060m LDEO	19-42.50S	113-26.78W	g		PANR06MV
1737	160598	0	DRRO	B Dredge 6	LDEO	19-42.82S	113-27.84W	g		PANR06MV
1820	160598	0	DRRO	E Dredge 6	3176-3120m LDEO	19-42.66S	113-27.68W	g		PANR06MV
***				End Sample Index						PANR06MV