

REPORT AND INDEX OF
UNDERWAY MARINE GEOPHYSICAL DATA

WESTWARD EXPEDITION

LEG 13

(WEST13MV)

R/V MELVILLE

(Issued October 1995)

Ports:

Papeete, Tahiti (14 May 1995)
to
Acapulco, Mexico (21 June 1995)

Chief Scientist:

Kenneth Coale (Moss Landing Marine Laboratory)

Resident Marine Technician -Bob Wilson

Computer Technician -Todd Porteous

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

Data Collection and Processing Funded by:
NSF OCE94-00707

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.# 266

**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 if collected on the cruise leg.

NOTE: One or more of the underway data types may not be collected on a given cruise 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)534-5306. Internet email: ssmith@ucsd.edu

1. Files on Exabyte, DAT or 1/2 inch magnetic tape:
 - a) Separate time series ASCII files of navigation, single beam depth, gravity and magnetics.
 - b) These same data in a merged ASCII file in the MGD77 Exchange Format.
 - c) SeaBeam depth data (binary, Sun byte order) in SIO Swath Bathymetry Format (not available on 1/2" tape).
 - d) SeaBeam Sidescan data (not available on 1/2" tape).
2. Microfilm (35 mm flowfilm) or hard copies of:
 - a) Underway watch log book
 - b) SeaBeam vertical beam profile/Sidescan records.
 - c) Echosounder records - 3.5 kHz frequency.
 - d) Magnetometer records.
 - e) Seismic reflection profiler records.
3. Navigation listing with times and positions of fixes and course and speed changes.
4. Plots:
 - a) Copies of archived track plots.
 - b) Copies of archived SeaBeam contour plots.
 - c) Custom plots in Mercator projection:
 - 1) Track plots.
 - 2) SeaBeam depth contour plots.
 - 3) Depth, magnetic or gravity values printed or profiled along track.

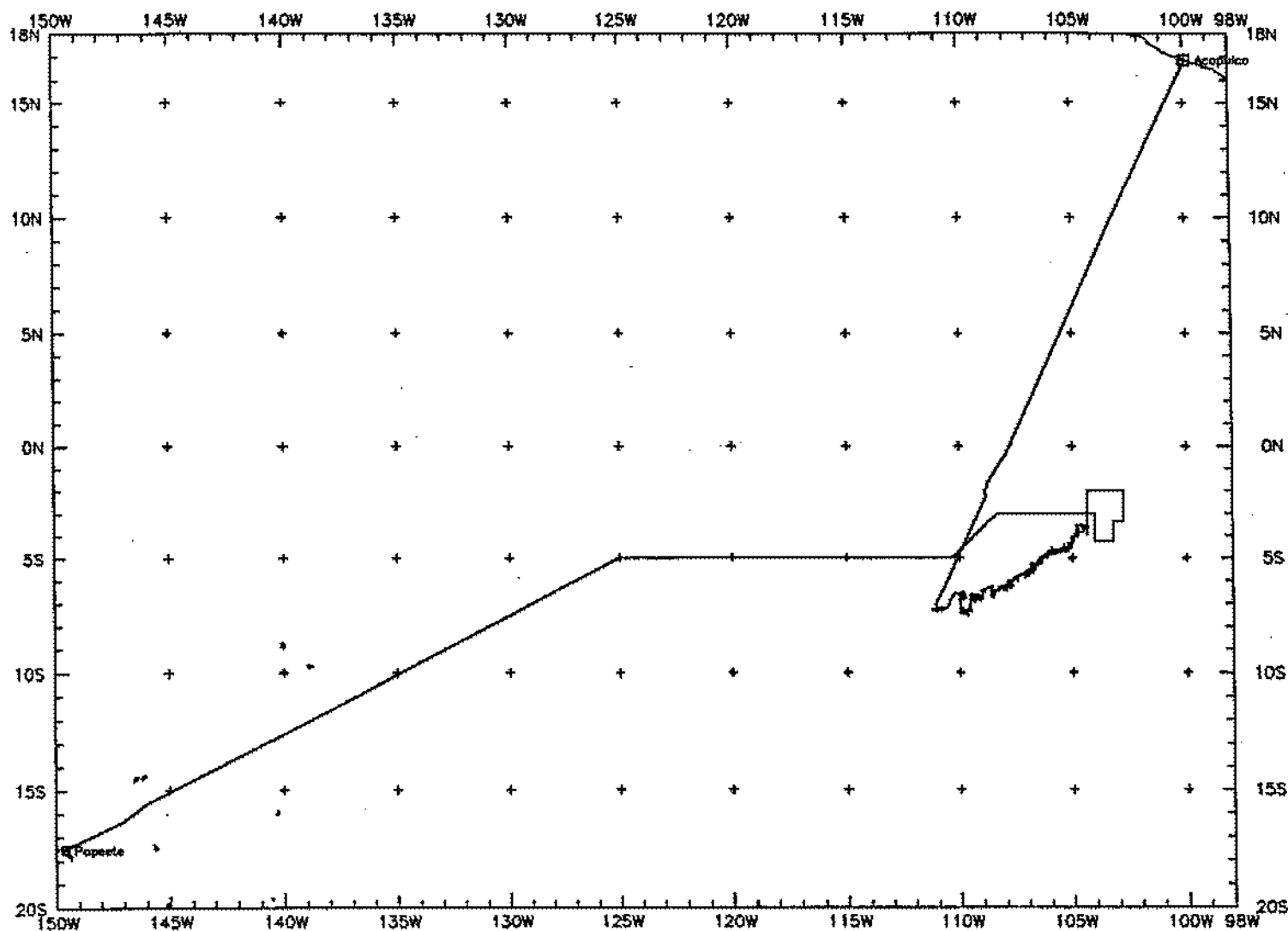
rev 7/93

Sea Beam 2000 Data Collected in Ancillary Mode

In the absence of funding for Sea Beam operations on this leg, Sea Beam data were collected in "ancillary mode". In this mode of operation, no Hardware Technician or SB/Underway Processor were on board and the types of realtime records and post-processed data products are reduced from those available under the fully funded mode.

The Sea Beam data remain proprietary to the SIO Shipboard Technical Support Group, not the chief scientist.

May 1993



WESTWARD Expedition Leg 13 (WEST13MV)

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WESTWARD EXPEDITION LEG 13

CHIEF SCIENTIST: Kenneth Coale, Moss Marine Laboratory

PORTS: Papeete, Tahiti - Acapulco, Mexico

DATES: 14 May - 21 June 1995

SHIP: R/V Melville

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

Cruise - 8032 miles

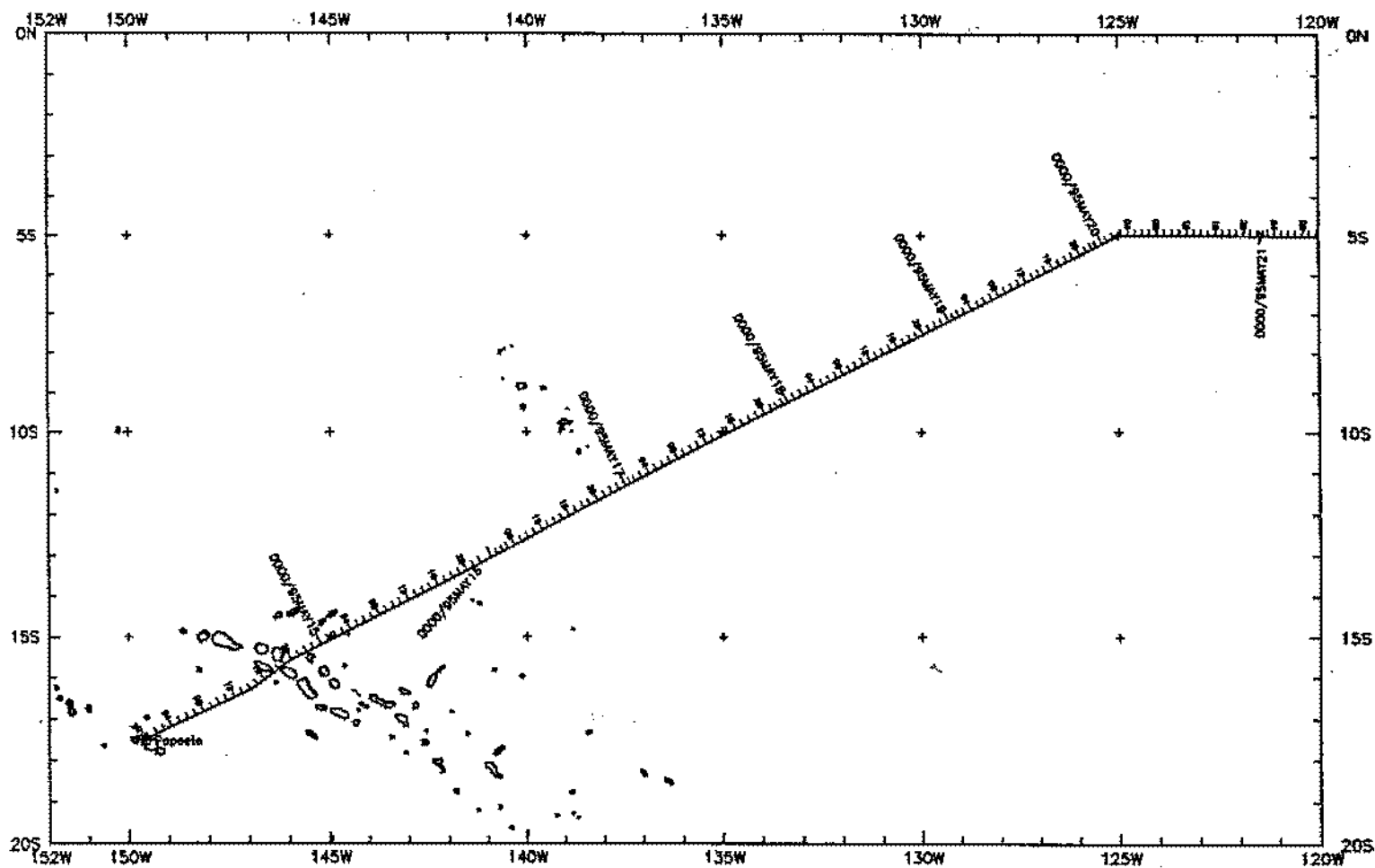
Magnetics - 3400 miles

Bathymetry - 8012 miles

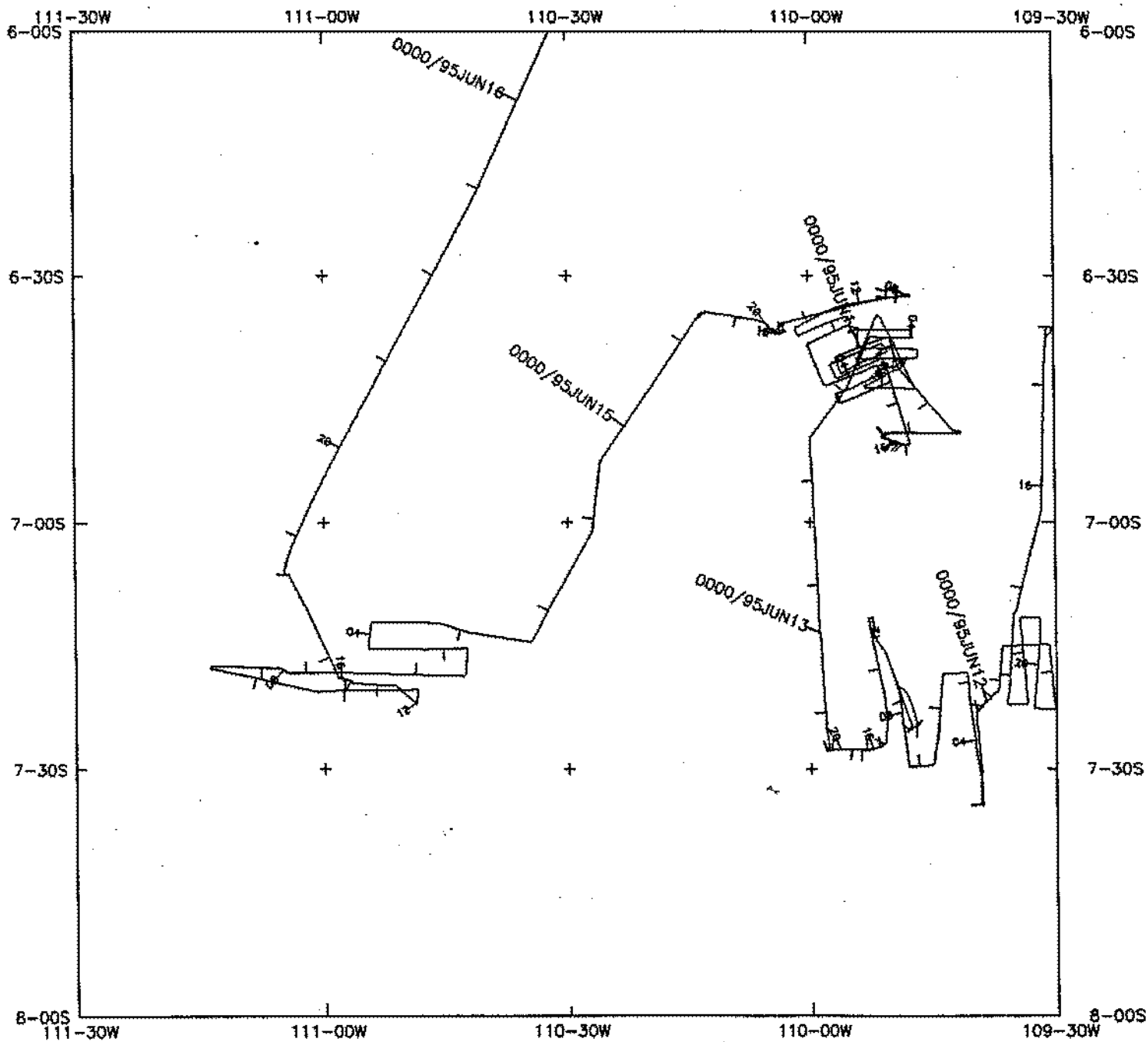
Seismic Reflection - none collected

Sea Beam - 8012 miles

Gravity - none collected

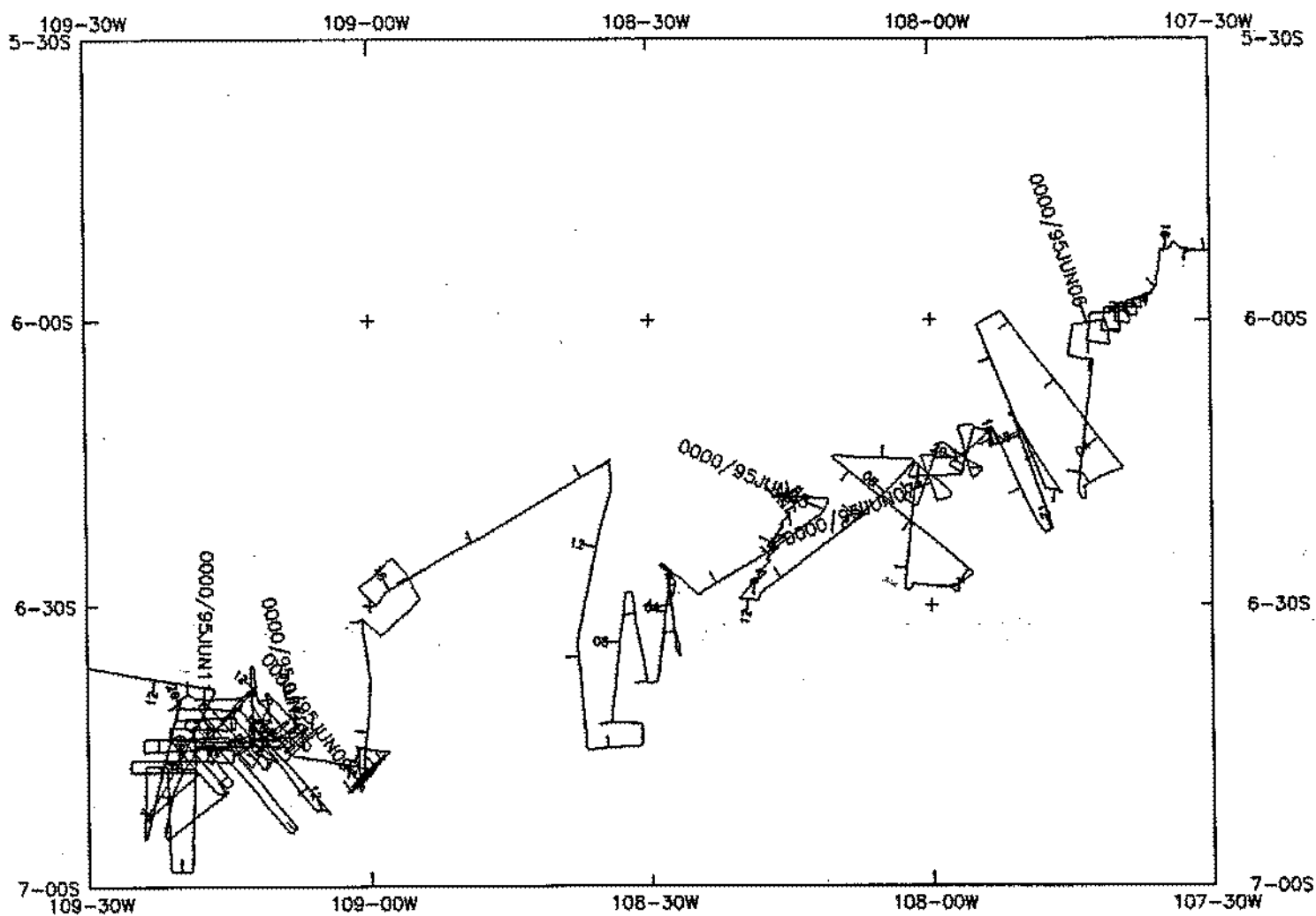


WESTWARD Expedition leg 13 (WEST13MV)
Track 1 of 2



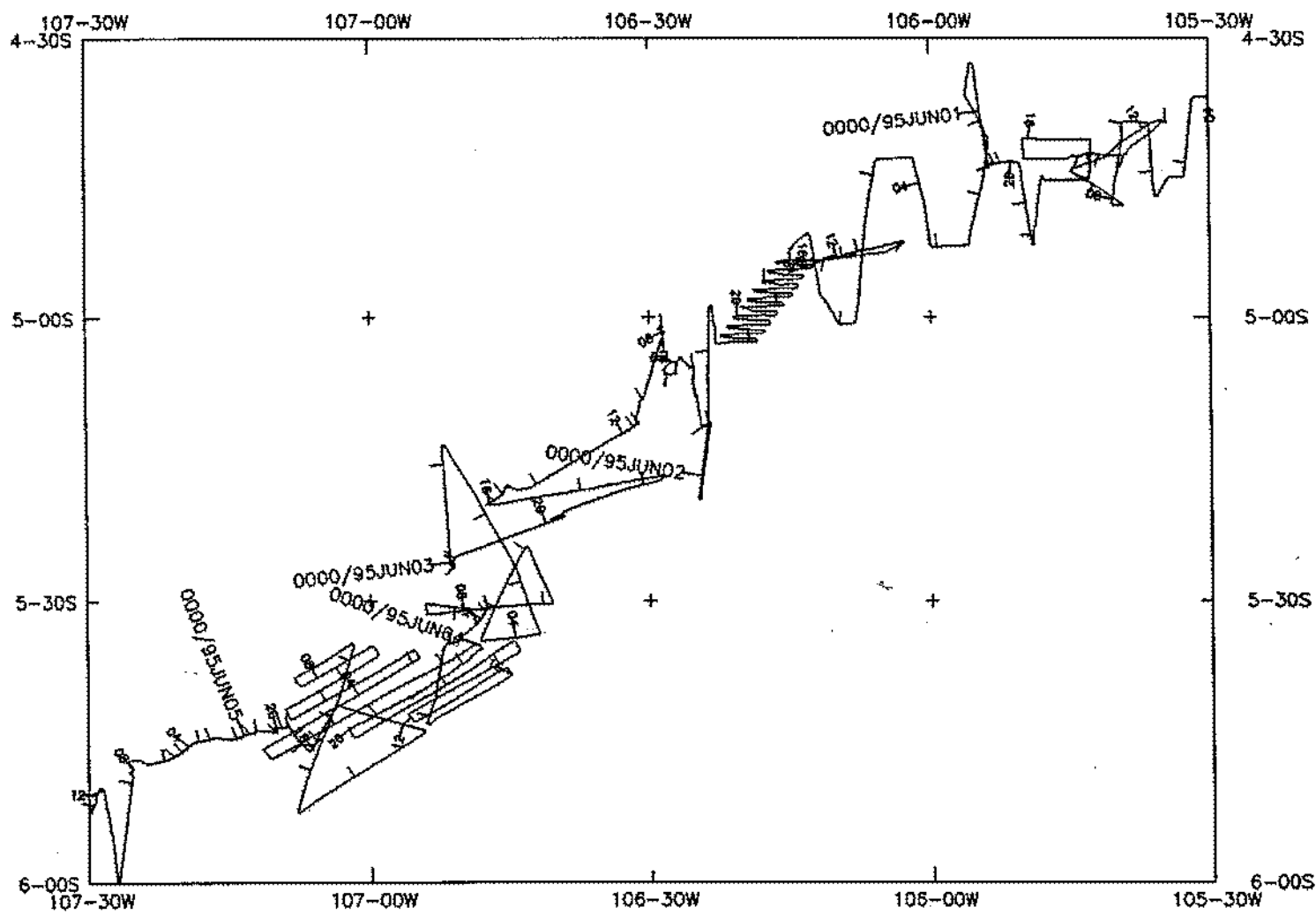
WEST13 Survey area A

*



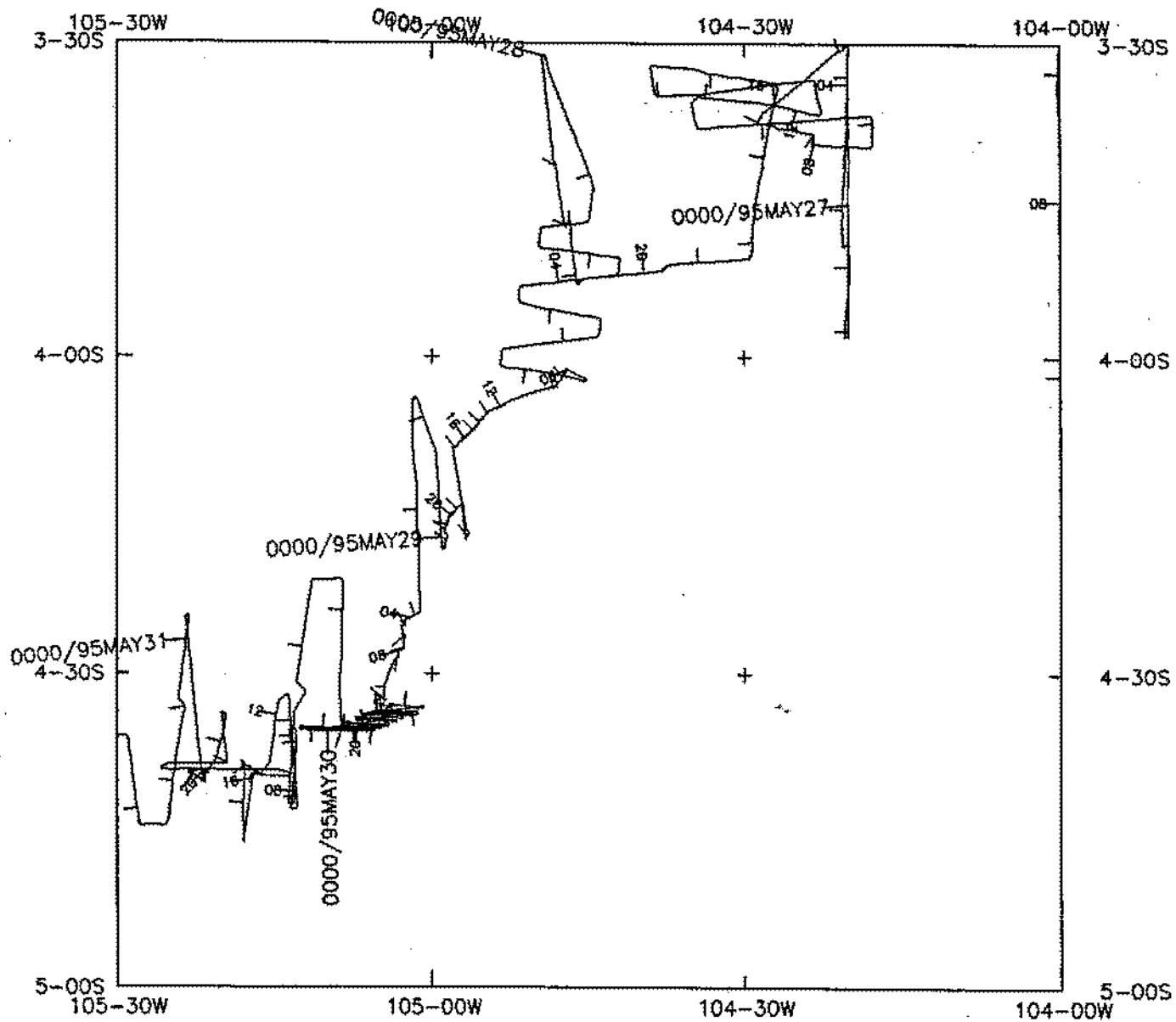
WEST13 Survey area B

*



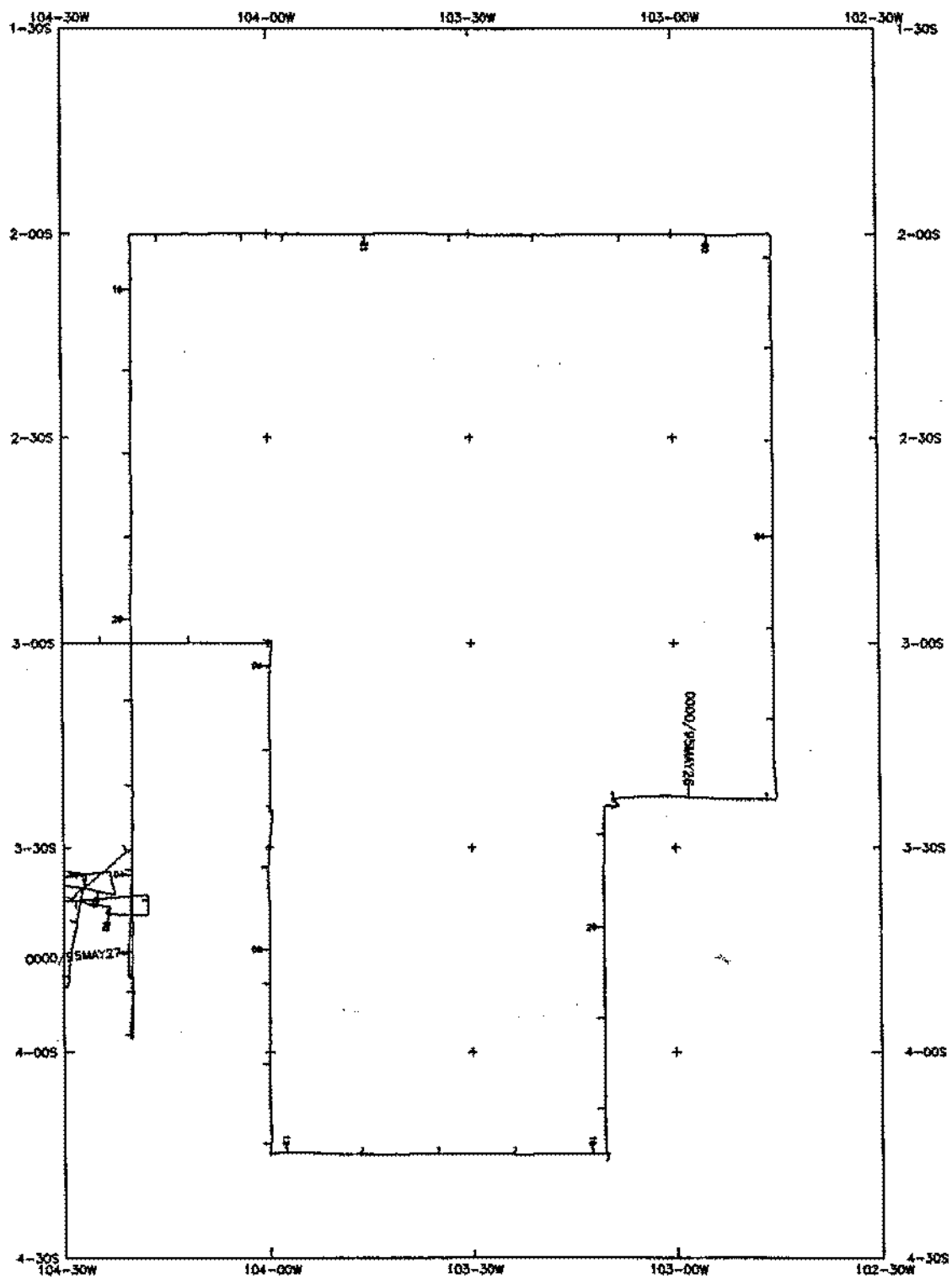
WEST13 Survey area C

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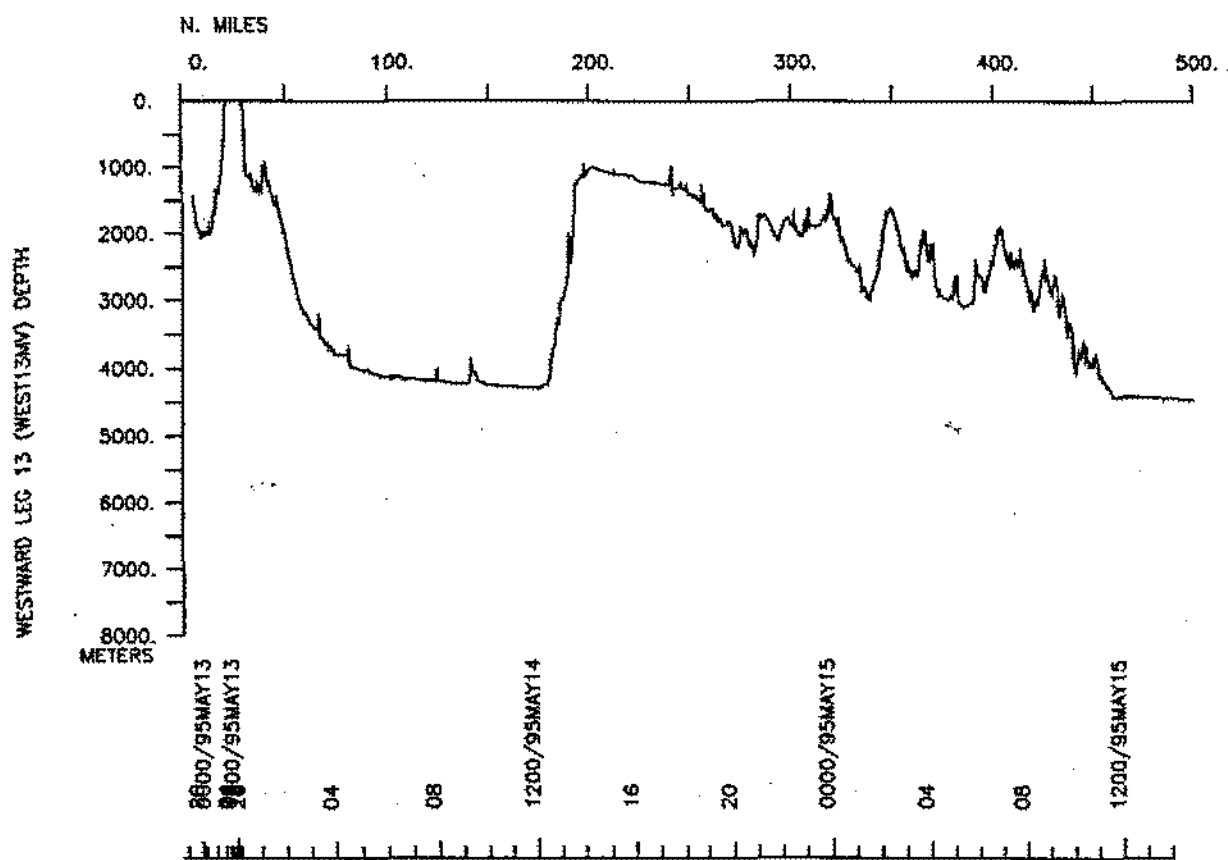
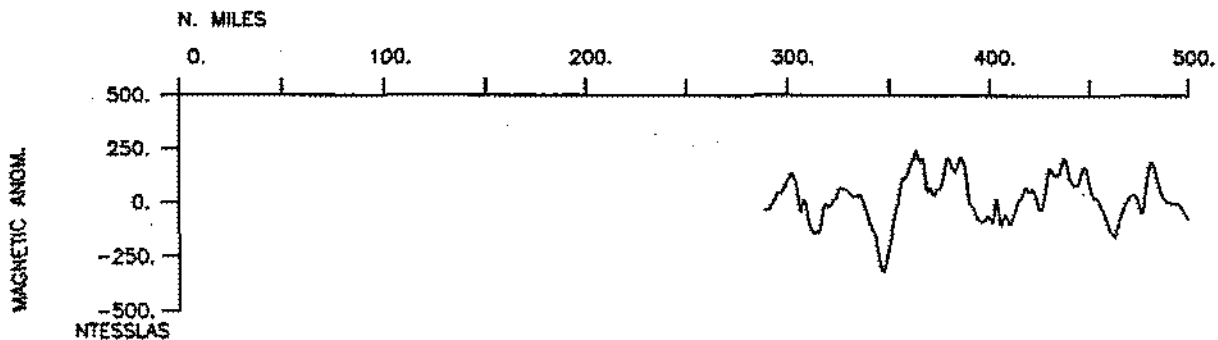
WEST13 Survey area D

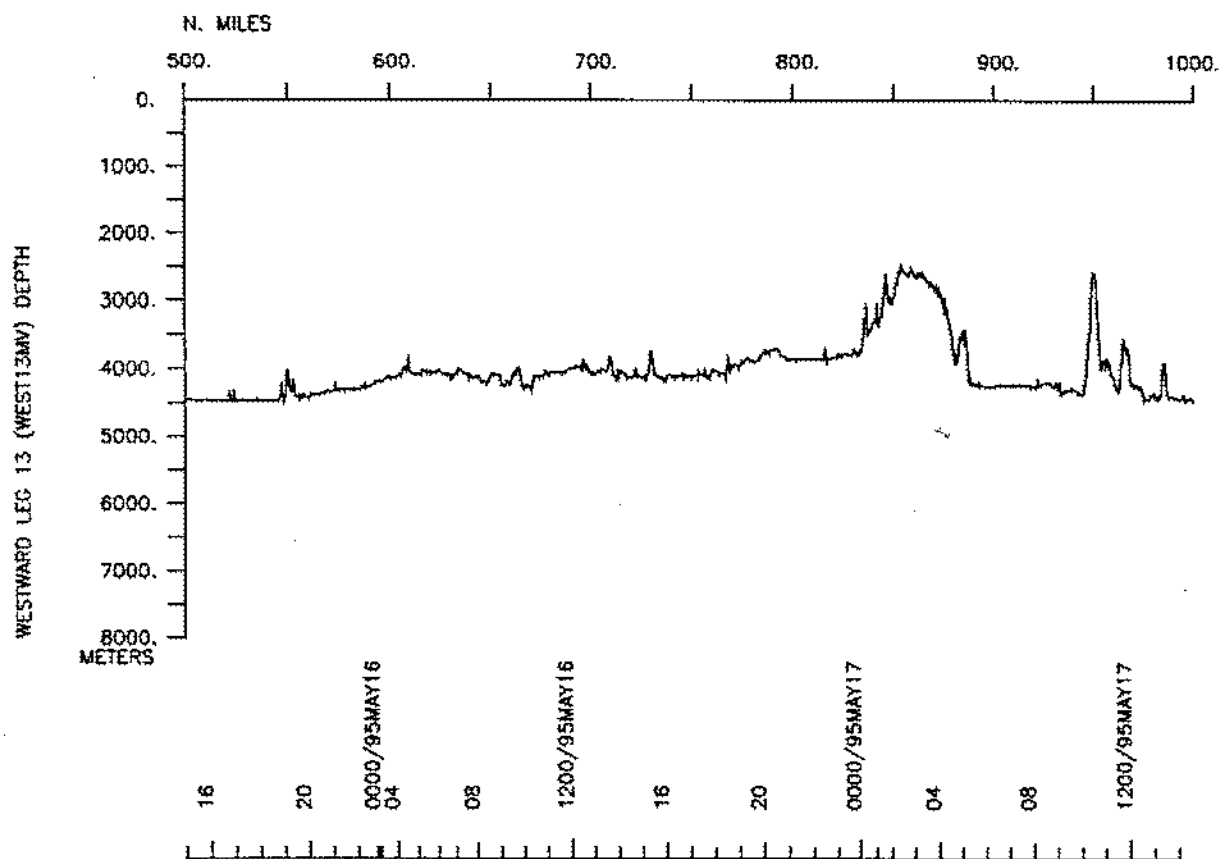
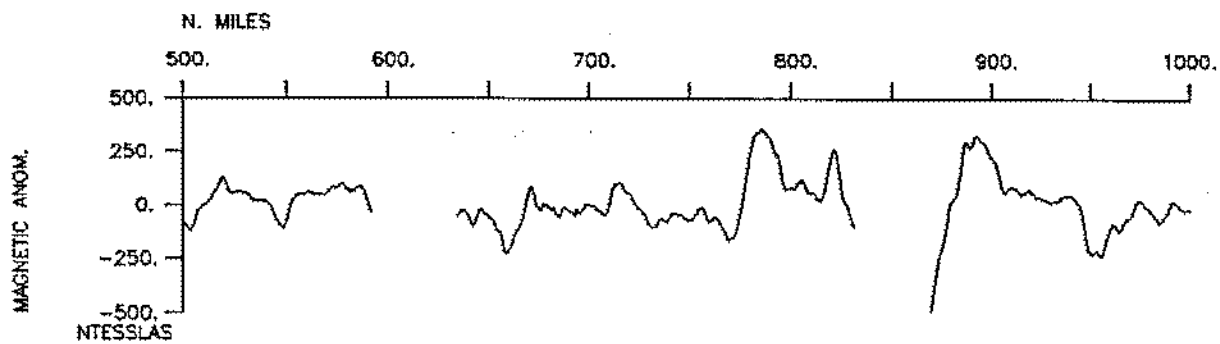
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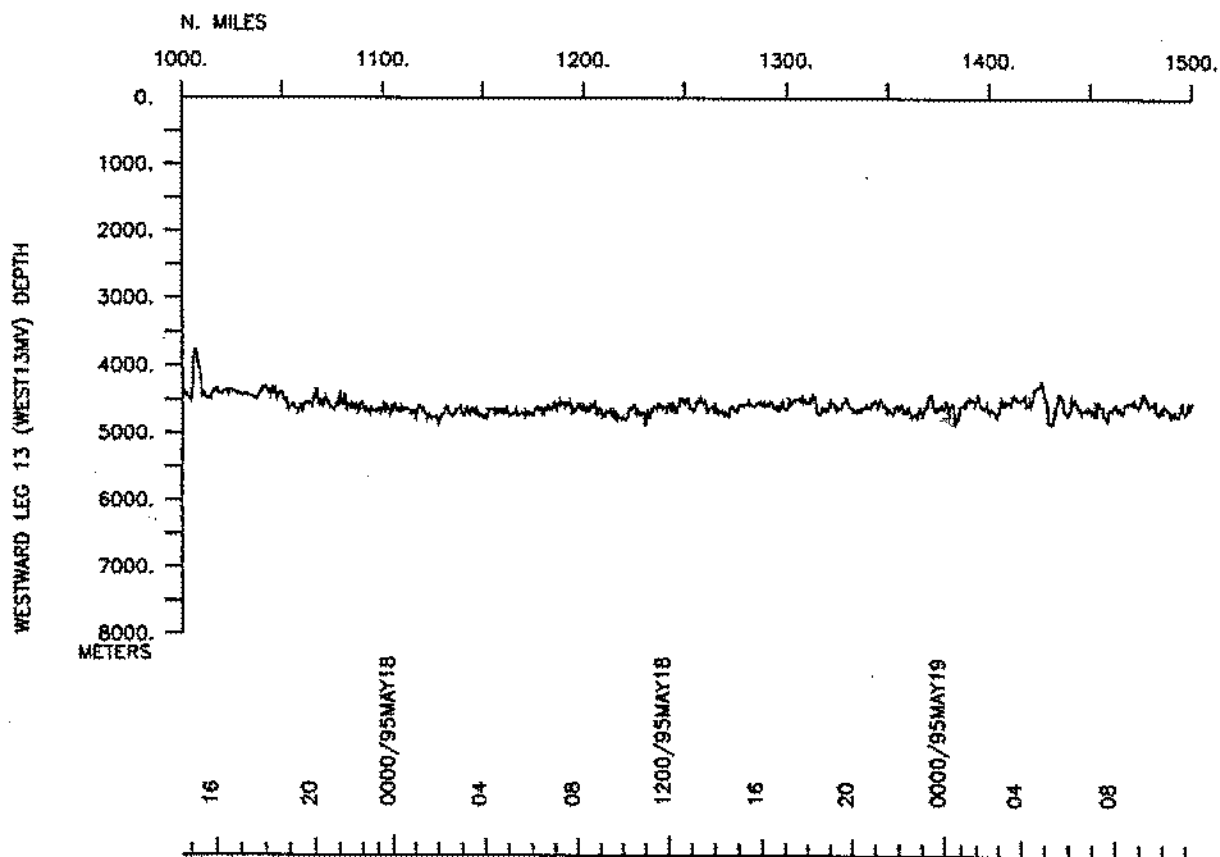
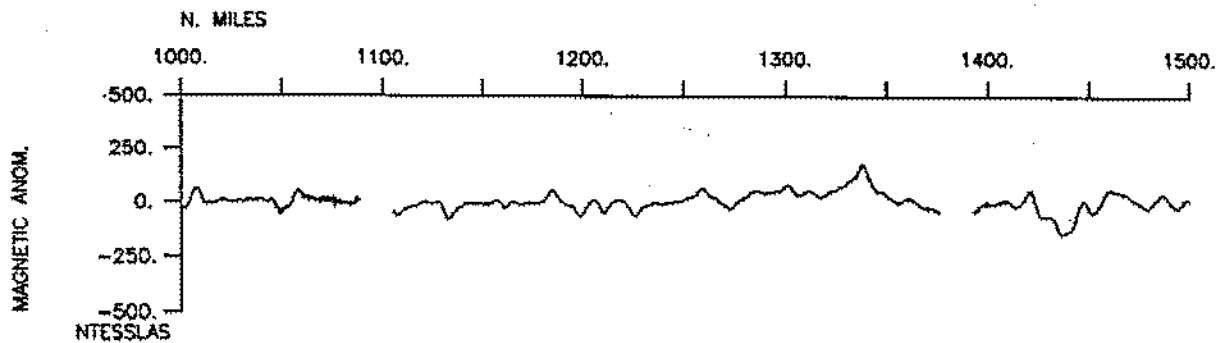


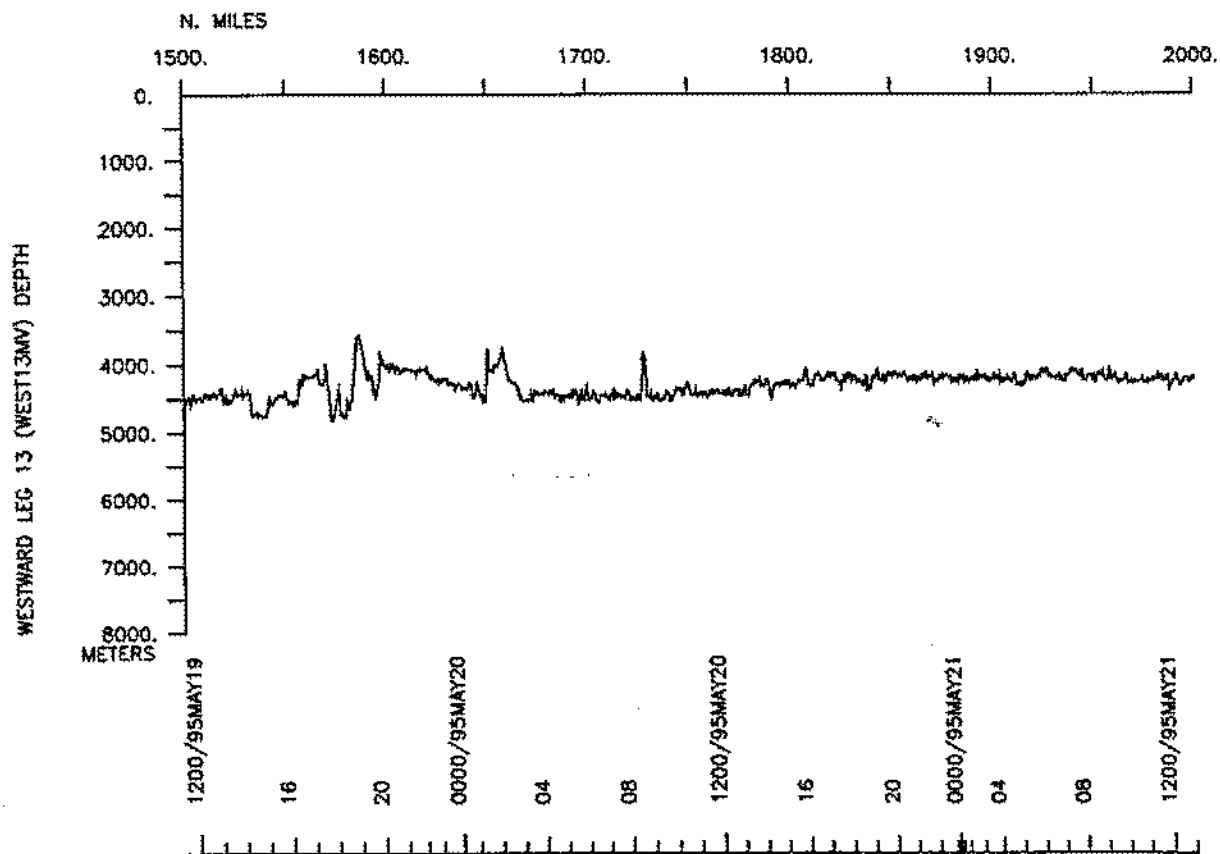
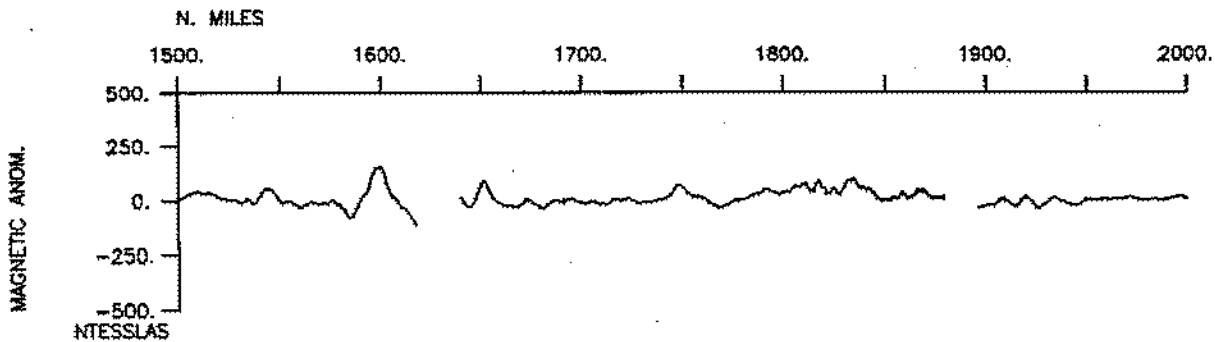
WEST13 Survey area E

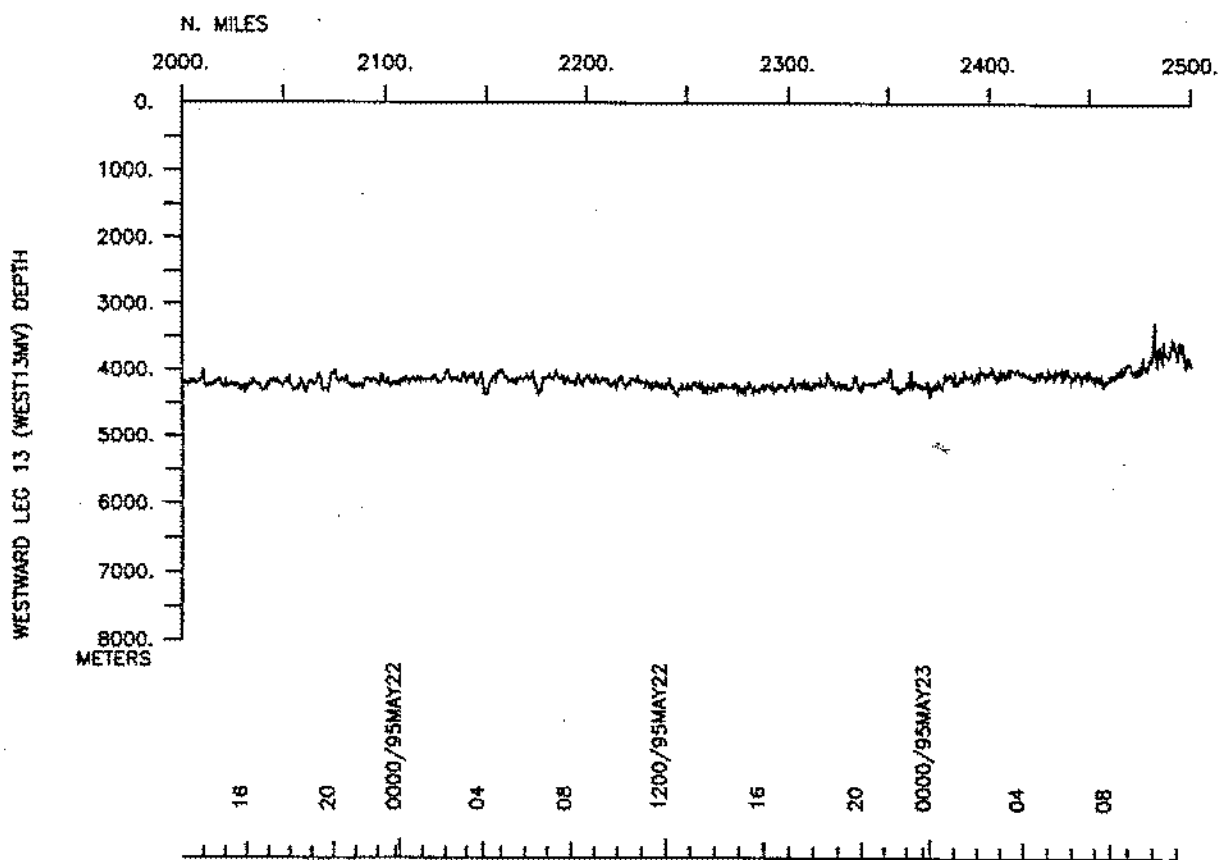
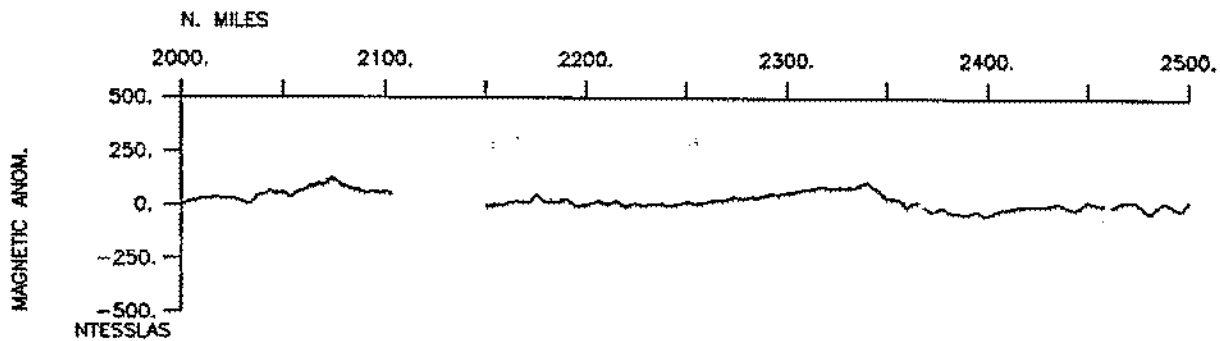
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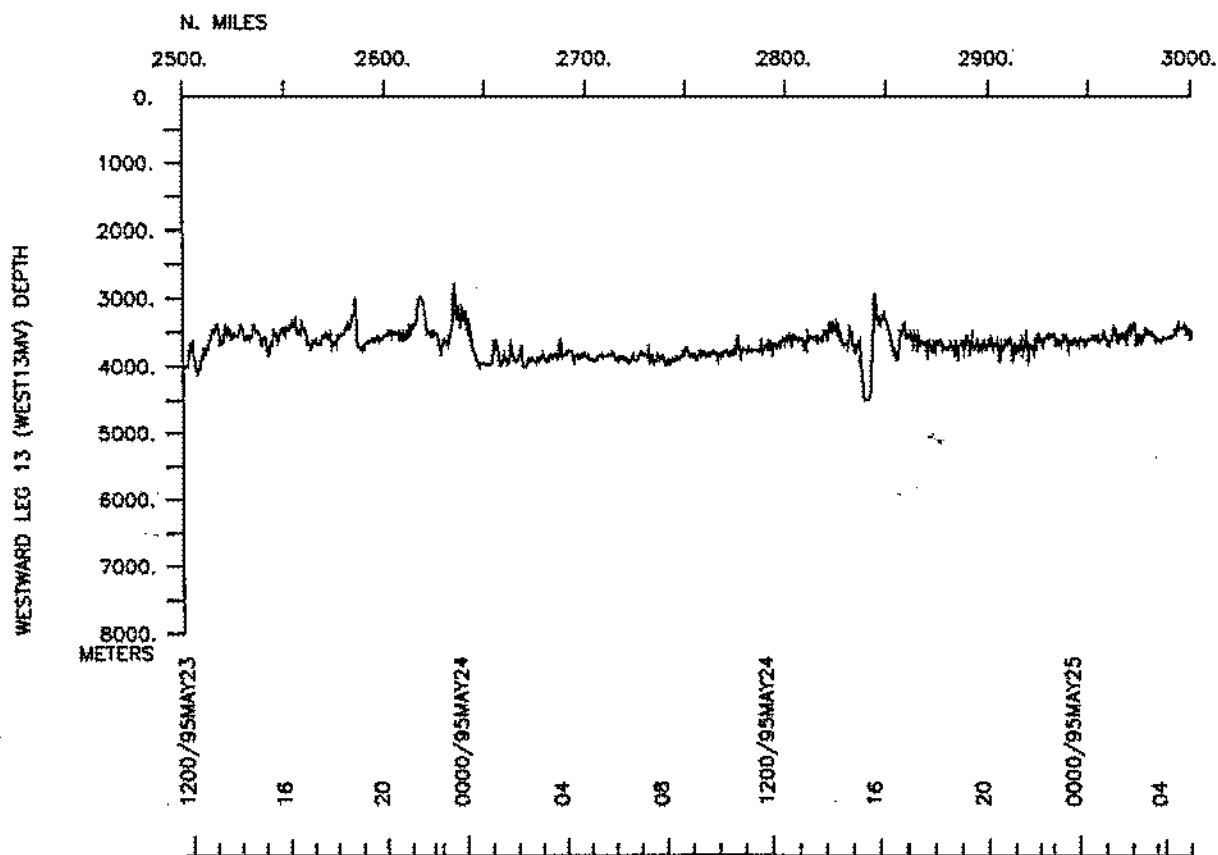
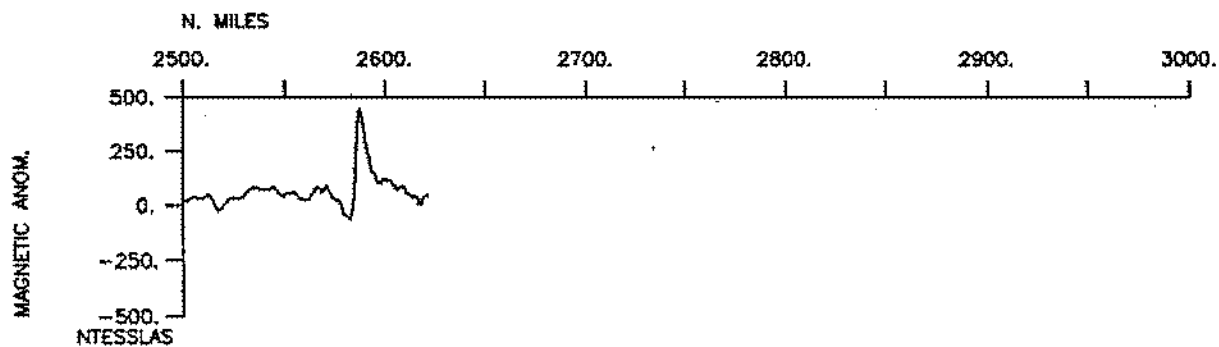


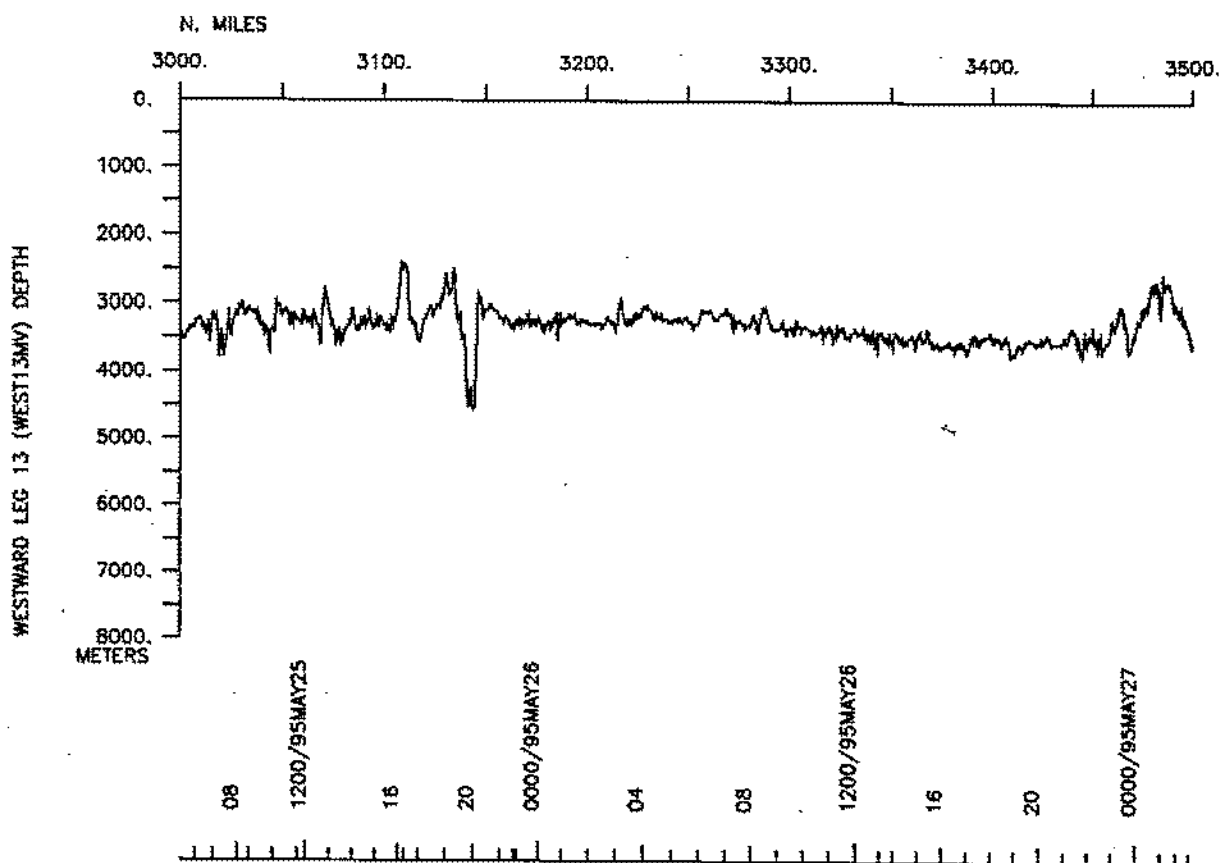
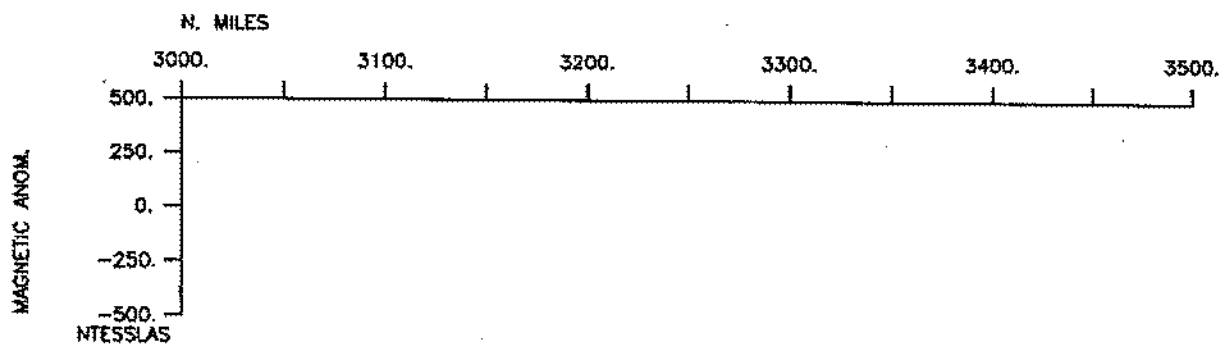


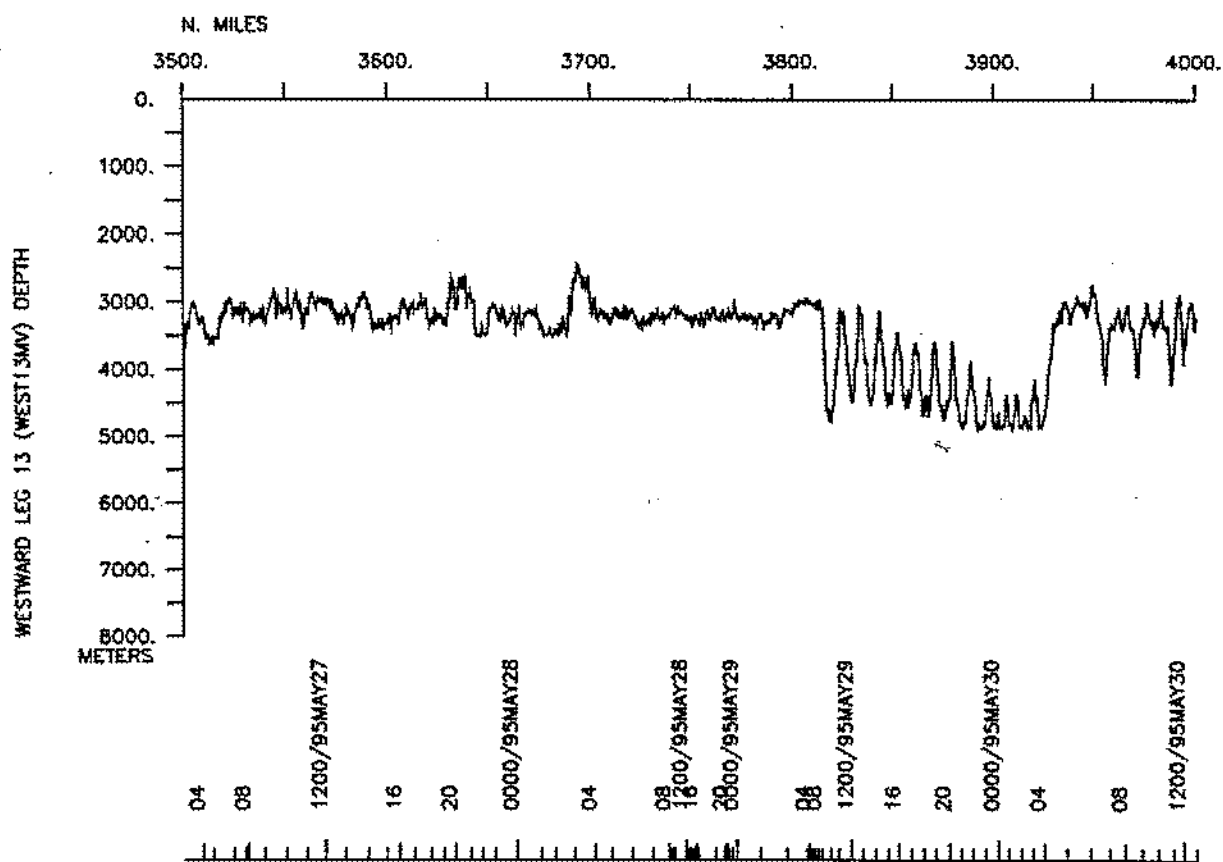
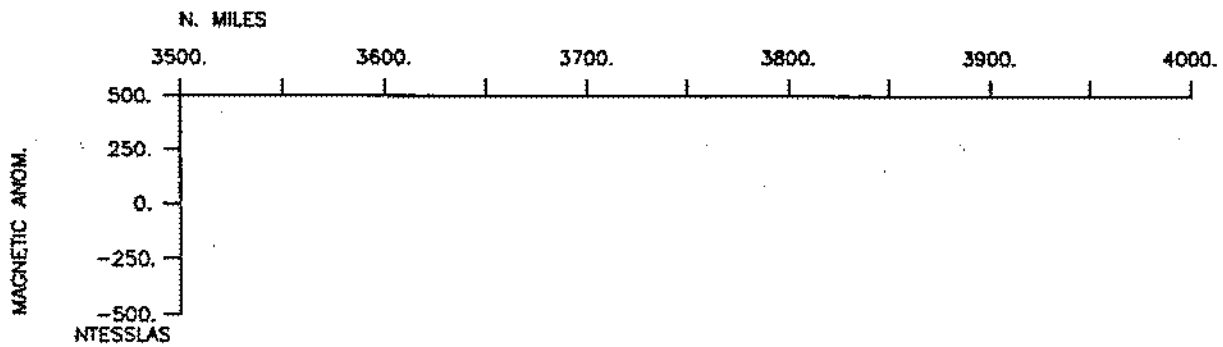


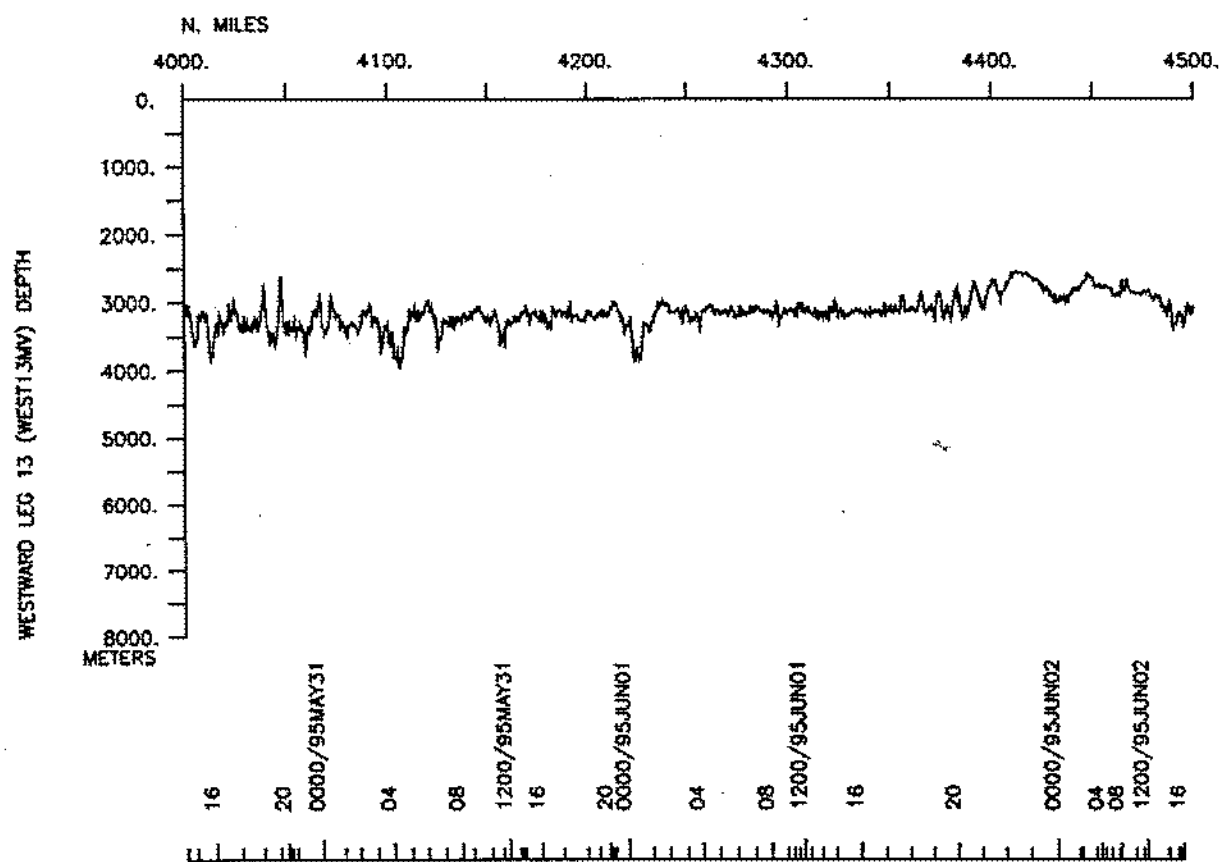
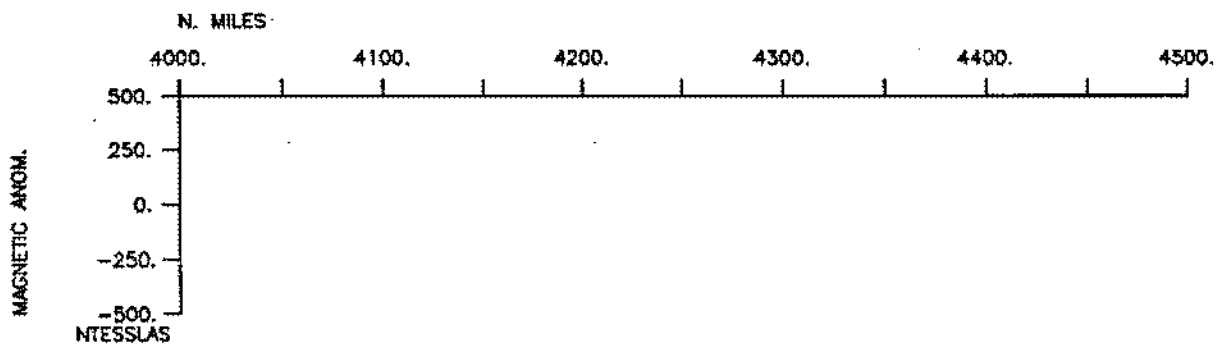


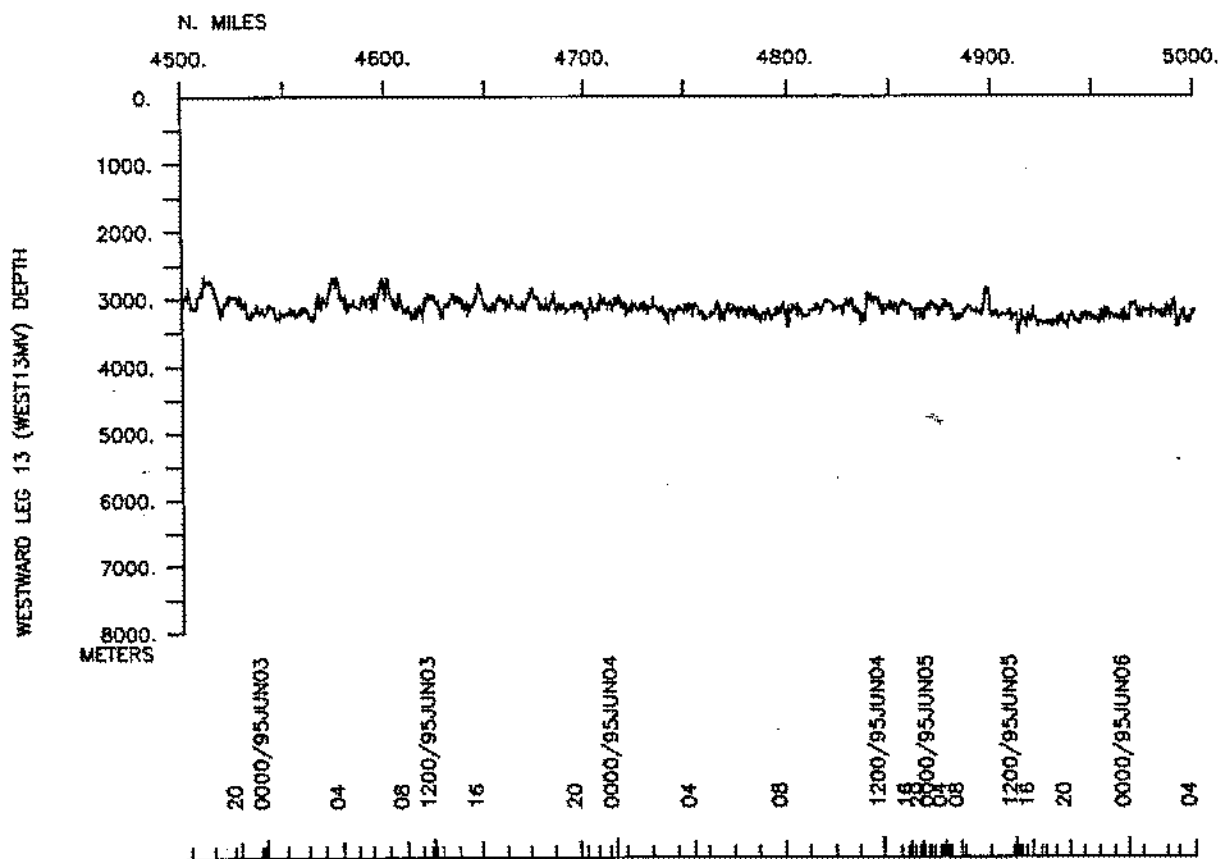
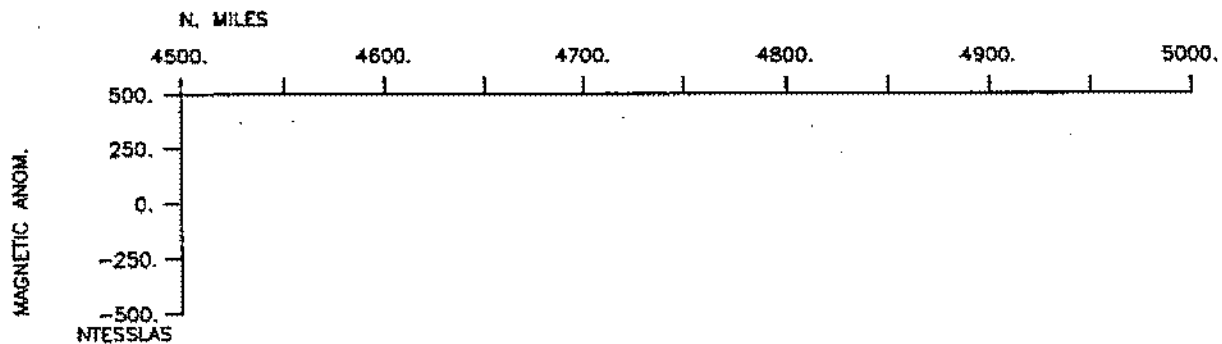


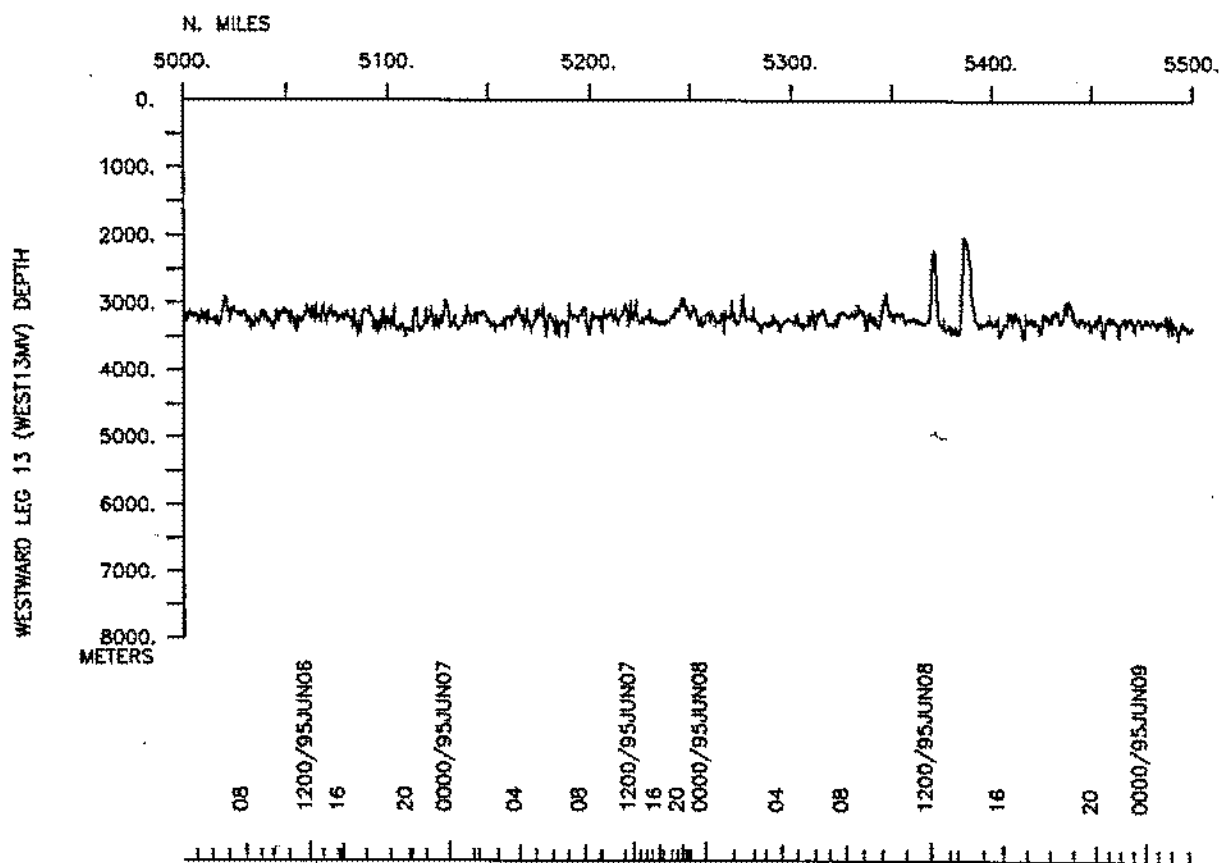
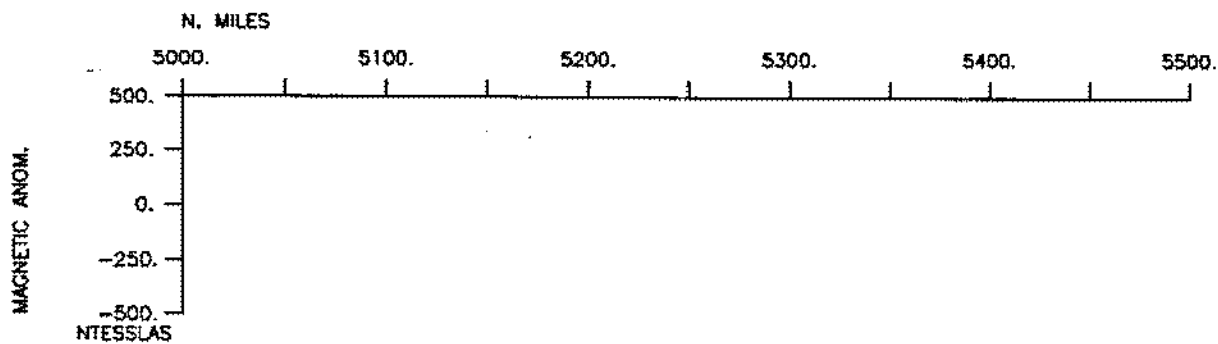


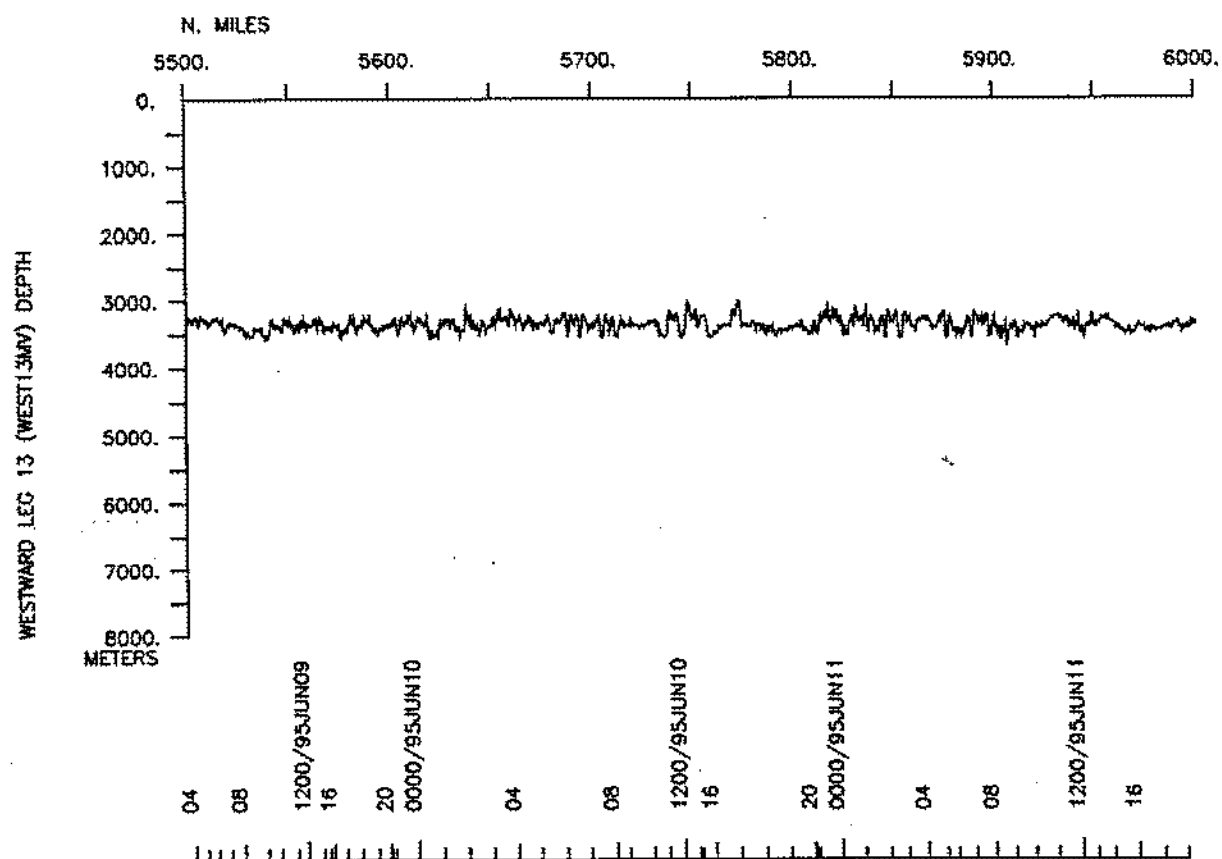
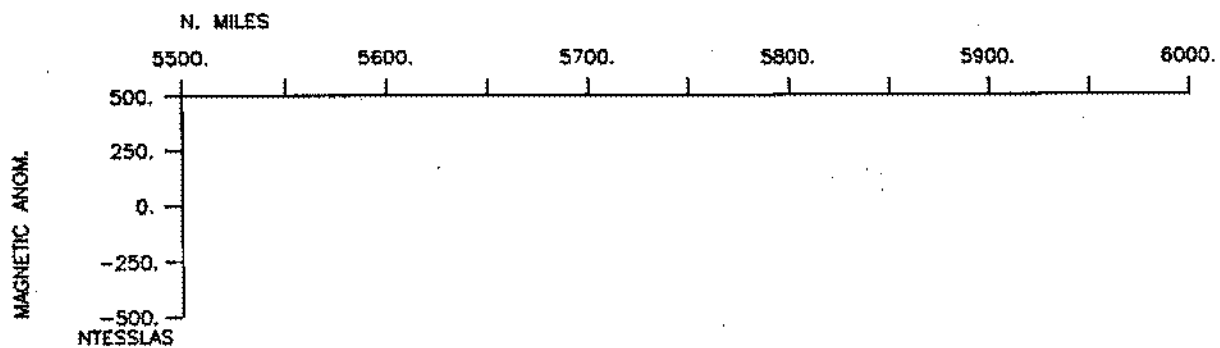


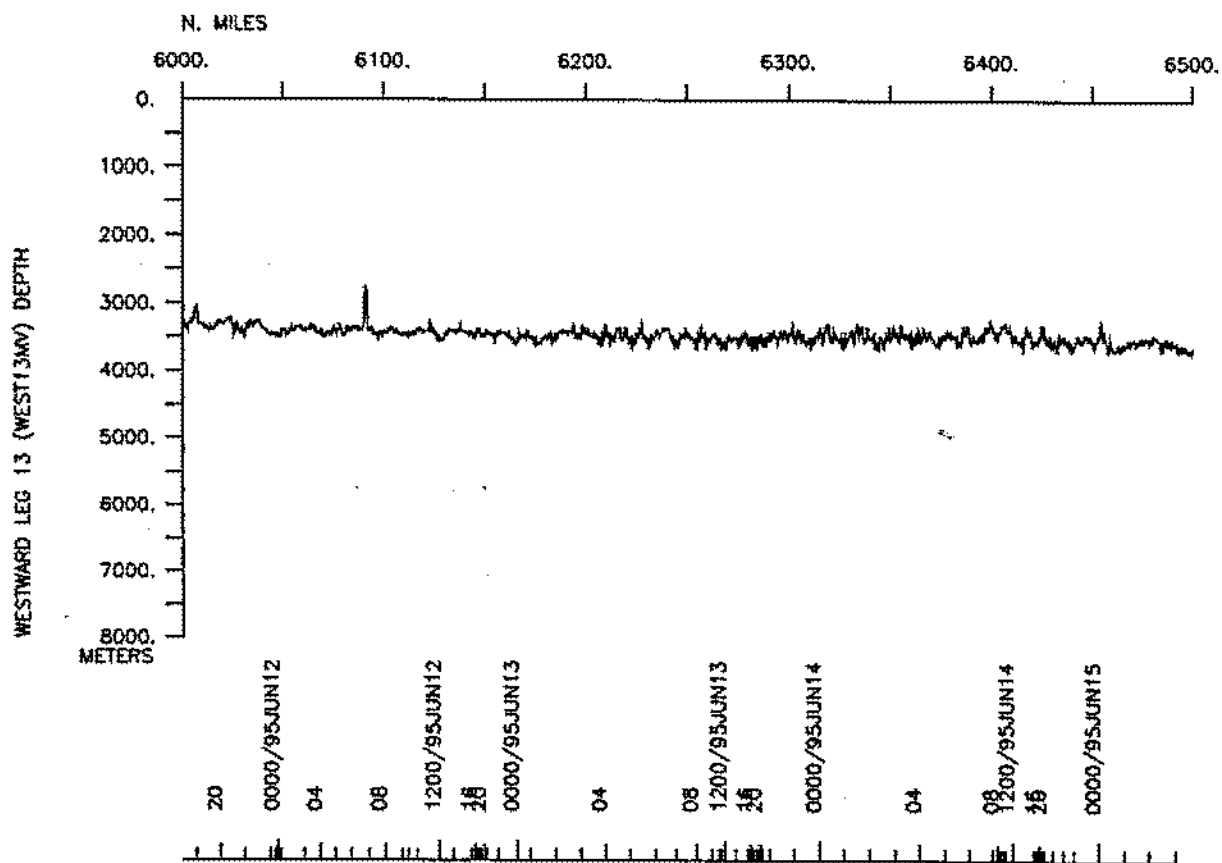
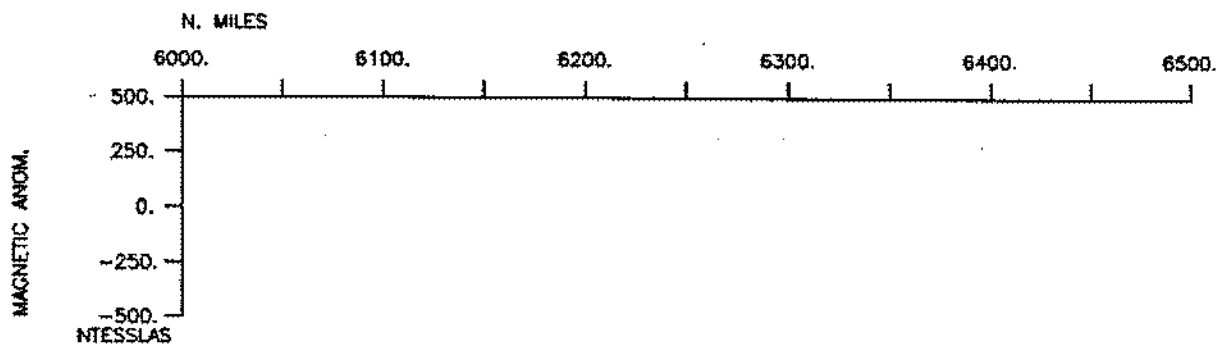


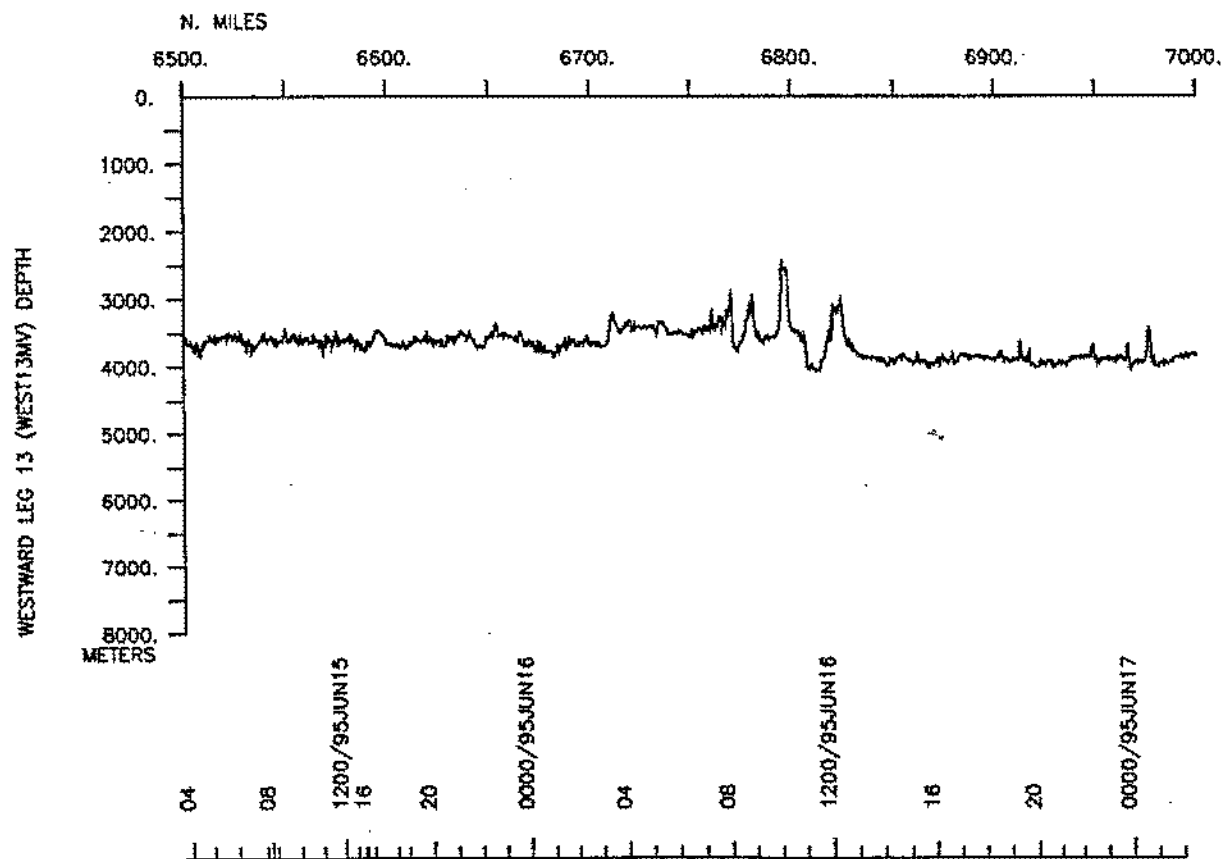


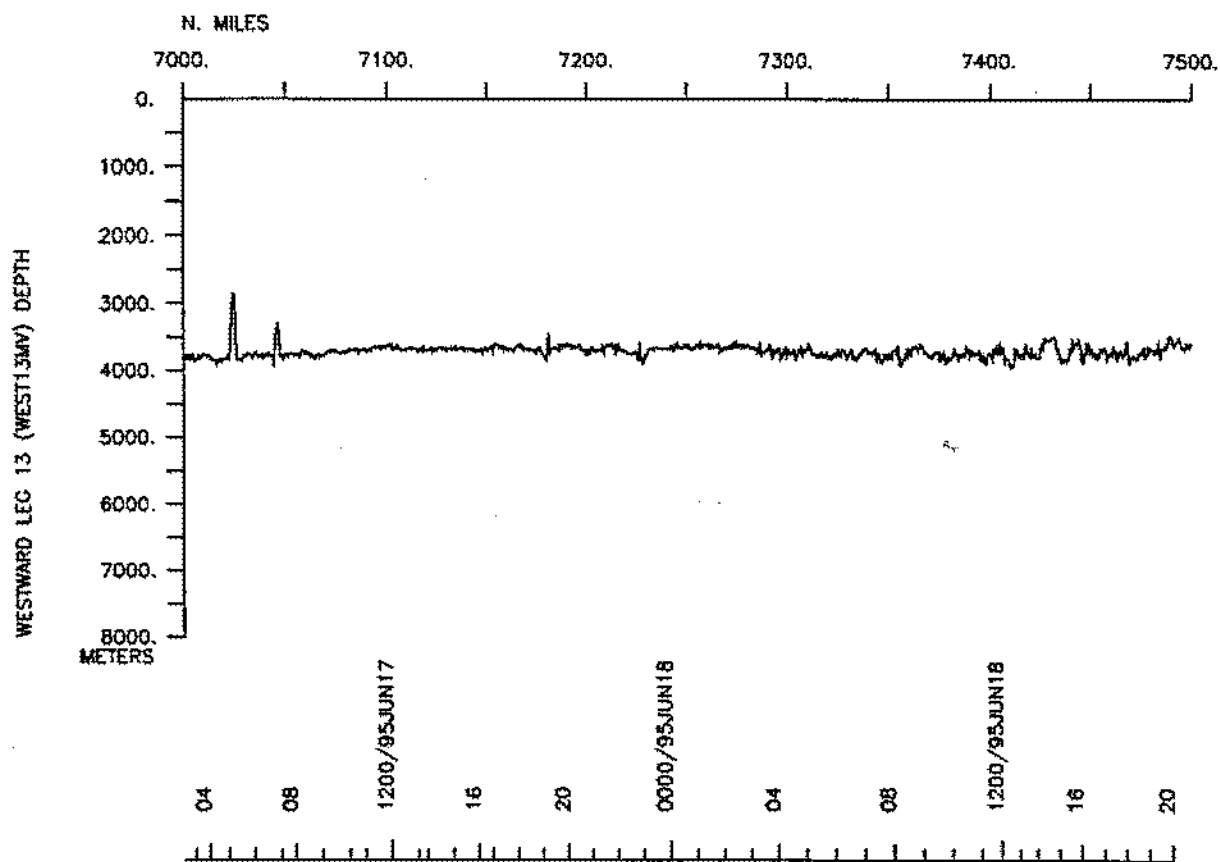
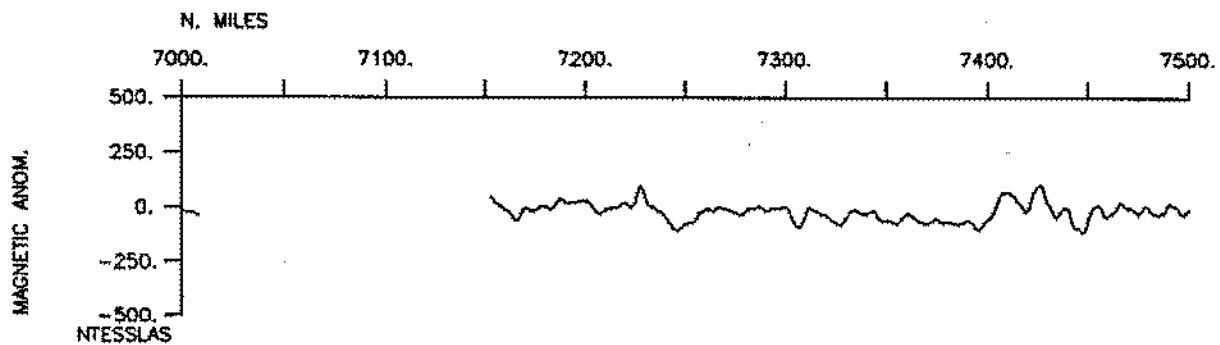


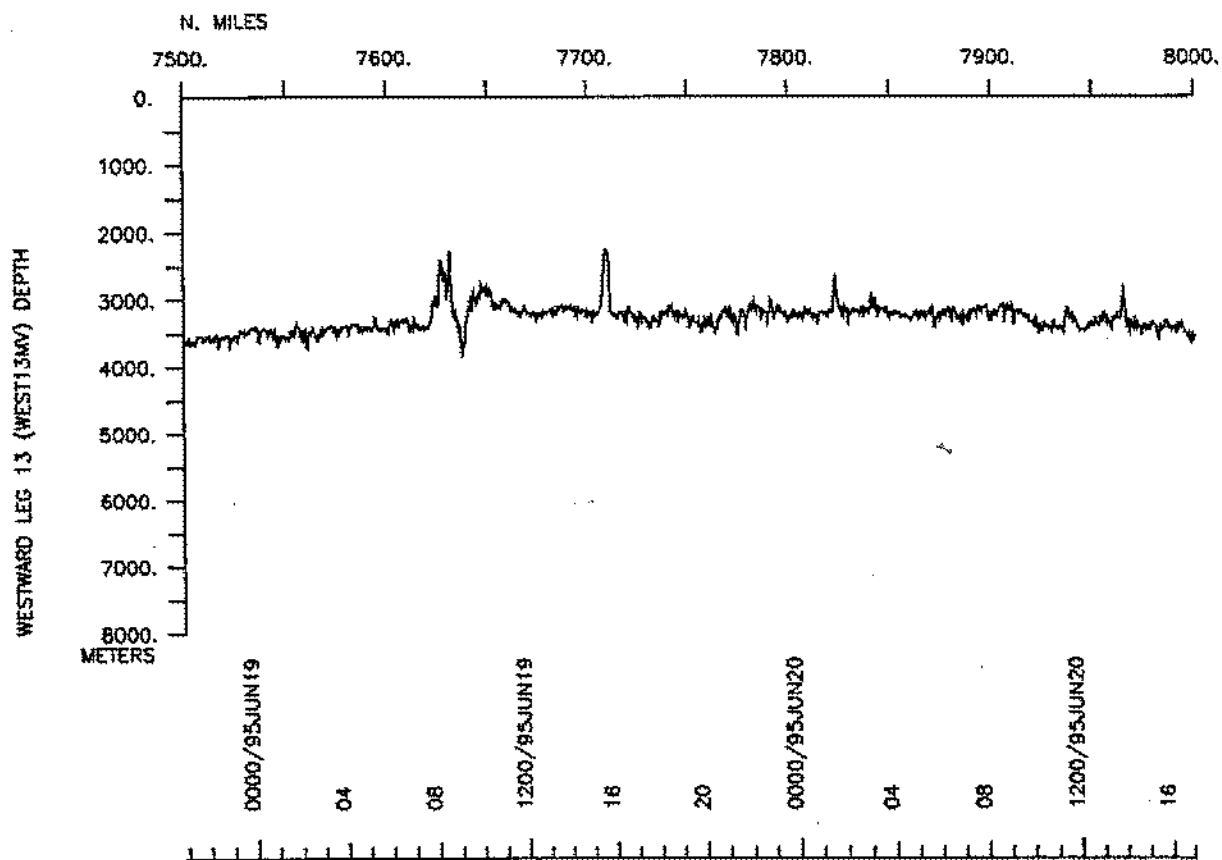
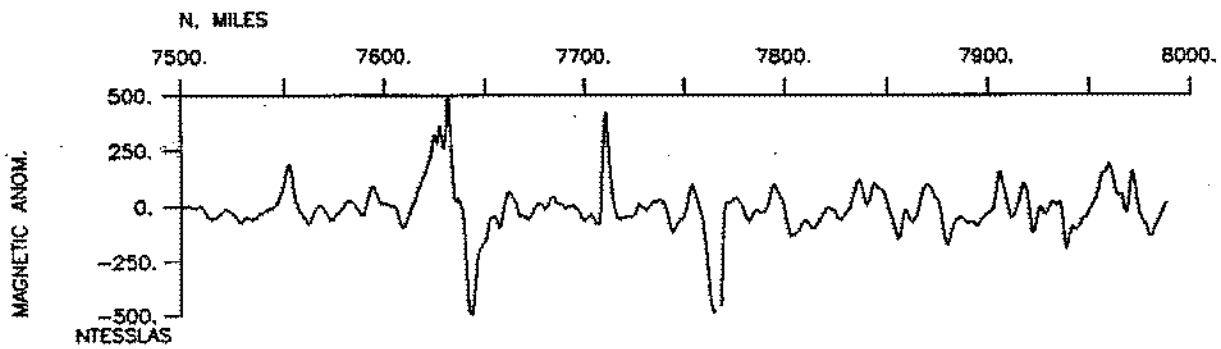


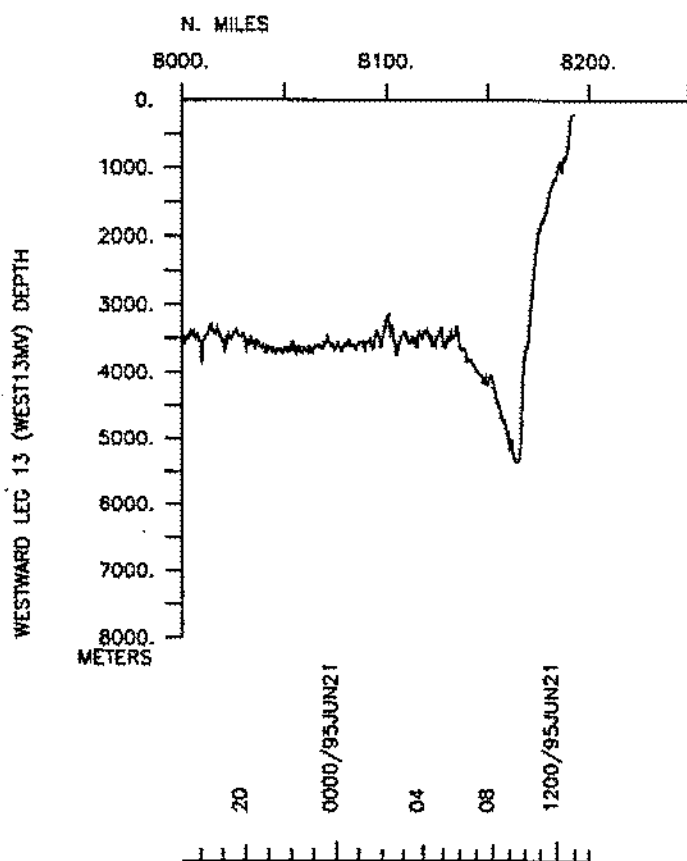
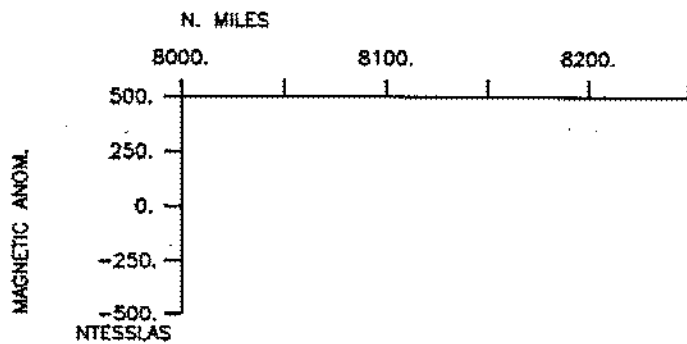












S.I.O. SAMPLE INDEX

(Issued October 1995)

WESTWARD EXPEDITION

LEG 13

(WEST13MV)

R/V Melville

**Papeete, Tahiti (14 May 1995)
to
Acapulco, Mexico (21 June 1995)**

Chief Scientist:

Kenneth Coale (Moss Landing Marine Laboratory)

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.# 266

**** Ports ***

```
0024 140595  LGPT B Papeete, Tahiti      17-32.00S 149-34.00W f WEST13MV
1400 210695  LGPT E Acapulco, Mexico          16-51.00N  99-56.00W f WEST13MV
```

**** Personnel ***

#	*****Name*****	*****Title*****	*****Affiliation*****	**Crid**
PECS SIX	Coale, K.	Chief scientist	Moss Landing	WEST13MV
PERT STS	Wilson, R.	Resident tech	Scripps Institution	WEST13MV
PECT STS	Porteous, T.	Computer tech	Scripps Institution	WEST13MV
PEXN SIX	Bale, A.	Marine scientist	Plymouth Mar. Lab	WEST13MV
PESP MIT	Bares, K.	Research asst	Mass.Inst. of Tech.	WEST13MV
PESP SIX	Behrenfeld, M.	Biologist	Brookhaven N. Lab	WEST13MV
PEXN SIX	Cochlan, W.	Asst. res. prof	U.of So. Calif.	WEST13MV
PESP UHI	Constantinau, J.	Research assoc	U of Hawaii	WEST13MV
PEXN SIX	Cooper, D.	Sr. res. assoc	Univ. East Anglia	WEST13MV
PESP SIX	Elrod, V.	Research tech	Moss Landing	WEST13MV
PESP WHOI	Erdner, D.	Research assoc	Woods Hole	WEST13MV
PESP SIX	Ferioli, L.	Scientist	Monterey BARI	WEST13MV
PESP SIX	Fitzwater, S.	Project assoc	Moss Landing	WEST13MV
PESP SIX	Gordon, M.	Project assoc	Moss Landing	WEST13MV
PEST UHI	Hanson, K.	Grad student	U of Hawaii	WEST13MV
PESP SIX	Hunter, C.	Research tech	Moss Landing	WEST13MV
PESP SIX	Johnson, K.	Professor	Moss Landing	WEST13MV
PEST SIX	Johnson, Z.	Grad student	Duke Univ.	WEST13MV
PESP SIX	Kudela, R.	Research asst	U.of So. Calif.	WEST13MV
PEXN SIX	Liddicoat, M.	Hydrochemist	Plymouth Mar Lab	WEST13MV
PESP STF	Lindley, S.	Postdoc fellow	Stanford	WEST13MV
PEST MIT	Mann, E.	Grad student	MIT	WEST13MV
PEXN SIX	Nightingale, P.	Scientist	Univ. East Anglia	WEST13MV
PESP SIX	Nowicki, J.	Marine res tech	Moss Landing	WEST13MV
PESP UHI	Ondrusek, M.	Research asst.	U of Hawaii	WEST13MV
PESP SIX	Rogers, P.	Scientist	Monterey BARI	WEST13MV
PEST UHI	Rollwagen, g.	Grad student	U of Hawaii	WEST13MV
PEST UCSC	Rue, E.	Grad student	UC Santa Cruz	WEST13MV
PEST UCSC	Sanderson, M.	Grad student	UC Santa Cruz	WEST13MV
PEXN SIX	Spokes, L.	Postdoc	Univ. East Anglia	WEST13MV
PESP UMI	Steinberg, P.	Research asst	U of Miami	WEST13MV
PESP SIX	Tanner, S.	Mar sci res tech	Moss Landing	WEST13MV
PESP CCS	Trasvina-Castro, A.	Researcher	CICESE	WEST13MV
PEXN SIX	Turner, S.	Sr res assoc	Univ. East Anglia	WEST13MV
PEXN UCSC	Wells, M.	Asst researcher	UC Santa Cruz	WEST13MV
PEXN UMI	Zhu, X.	Postdoc	U of Miami	WEST13MV

**** 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. Positions are in tenths
 #of minutes.

#GMT DDMYY	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****

0024 140595	0 LBSC B UHI square meter	UHI	17-31.01S 149-36.03W g WEST13MV
1200 210695	0 LBSC E and bongo net log	UHI	16-37.42N 99-59.41W g WEST13MV
0024 140595	0 LBSC B Moss Land.ironexii	SIX	17-31.01S 149-36.03W g WEST13MV
1200 210695	0 LBSC E master sta. log	SIX	16-37.42N 99-59.41W g WEST13MV
0024 140595	0 LBSC B Univ. East Anglia	SIX	17-31.01S 149-36.03W g WEST13MV
1200 210695	0 LBSC E lab log	SIX	16-37.42N 99-59.41W g WEST13MV
0024 140595	0 LBSC B Duke University	SIX	17-31.01S 149-36.03W g WEST13MV
1200 210695	0 LBSC E botany exp. log	SIX	16-37.42N 99-59.41W g WEST13MV
0024 140595	0 LBSC B Plymouth Mar Lab	SIX	17-31.01S 149-36.03W g WEST13MV
1200 210695	0 LBSC E fluorescent tows	SIX	16-37.42N 99-59.41W g WEST13MV
0024 140595	0 LBSC B Plymouth Lab natural	SIX	17-31.01S 149-36.03W g WEST13MV
1200 210695	0 LBSC E fluorescent cast log	SIX	16-37.42N 99-59.41W g WEST13MV
0024 140595	0 LBSC B Lindley/Stanford	STF	17-31.01S 149-36.03W g WEST13MV
1200 210695	0 LBSC E oxygen log	STF	16-37.42N 99-59.41W g WEST13MV
2310 150595	0 LBSC B WHOI surf pump log	WHOI	13-07.46S 141-02.87W g WEST13MV
1200 210695	0 LBSC E WHOI surf pump log	WHOI	16-37.42N 99-59.41W g WEST13MV

**** Sea Beam Records (Vertical Beam and Side Scan) ****

0009 140595	0 MBSR B v.beam&sidescan r-01	GDC	17-32.32S 149-34.50W g WEST13MV
0810 170595	0 MBSR E v.beam&sidescan r-01	GDC	10-39.19S 136-07.26W g WEST13MV
0810 170595	0 MBSR B v.beam&sidescan r-02	GDC	10-39.19S 136-07.26W g WEST13MV
0010 130695	0 MBSR E v.beam&sidescan r-02	GDC	7-13.45S 109-58.81W g WEST13MV
0011 130695	0 MBSR B v.beam&sidescan r-03	GDC	7-13.44S 109-58.81W g WEST13MV
1300 210695	0 MBSR E v.beam&sidescan r-03	GDC	16-45.10N 99-55.55W g WEST13MV

**** Magnetism (Earth Total Field) Records ****

1843 140595	0 MGRA B magnetism r-01	GDC	15-44.06S 146-12.56W g WEST13MV
1200 160695	0 MGRA E magnetism r-01	GDC	3-52.37S 109-33.55W g WEST13MV
1215 160695	0 MGRA B magnetism r-02	GDC	3-49.48S 109-32.30W g WEST13MV
1527 200695	0 MGRA E magnetism r-02	GDC	13-35.15N 101-29.15W g WEST13MV

#GMT DDMYY	SAMP B SAMPLE	DISP	P CRUISE
#TIME DATE TZ CODE E IDENTIFIER	CODE LATITUDE	LONGITUDE	C LEG-SHIP

*** Integrated Meteorological Acquisition System ***

0024 140595	0 IMET B imet logging	GDC 17-31.01S 149-36.03W	g WEST13MV
1200 210695	0 IMET E imet logging	GDC 16-37.42N 99-59.41W	g WEST13MV

*** Temperature & Depth (Plymouth Marine Lab) ***

0008 190595	0 TDXX B fluorescent tow	SIX 7-11.31S 129-17.45W	g WEST13MV
0150 190595	0 TDXX E temp and depth	SIX 7-04.44S 129-04.64W	g WEST13MV
2201 190595	0 TDXX B fluorescent tow	SIX 5-20.54S 125-40.18W	g WEST13MV
0012 200595	0 TDXX E temp and depth	SIX 5-12.02S 125-23.76W	g WEST13MV
0140 210595	0 TDXX B fluorescent tow	SIX 5-00.37S 121-25.53W	g WEST13MV
0247 210595	0 TDXX E temp and depth	SIX 5-00.01S 121-16.75W	g WEST13MV
0301 220595	0 TDXX B fluorescent tow	SIX 5-00.01S 117-11.78W	g WEST13MV
0405 220595	0 TDXX E temp and depth	SIX 4-59.78S 117-02.67W	g WEST13MV
0608 270595	0 TDXX B fluorescent tow	SIX 3-37.70S 104-28.51W	g WEST13MV
1530 270595	0 TDXX E temp and depth	SIX 3-33.42S 104-29.11W	g WEST13MV
0158 280595	0 TDXX B fluorescent tow	SIX 3-47.21S 104-46.45W	g WEST13MV
0750 280595	0 TDXX E temp and depth	SIX 4-01.85S 104-45.78W	g WEST13MV
0615 300595	0 TDXX B fluorescent tow	SIX 4-30.58S 105-12.99W	g WEST13MV
1100 300595	0 TDXX E temp and depth	SIX 4-34.47S 105-13.59W	g WEST13MV
0110 310595	0 TDXX B fluorescent tow	SIX 4-33.51S 105-23.63W	g WEST13MV
0815 310595	0 TDXX E temp and depth	SIX 4-47.86S 105-39.56W	g WEST13MV
0101 010695	0 TDXX B fluorescent tow	SIX 4-38.76S 105-54.51W	g WEST13MV
0825 010695	0 TDXX E temp and depth	SIX 4-51.13S 106-12.84W	g WEST13MV
0155 030695	0 TDXX B fluorescent tow	SIX 5-20.08S 106-48.08W	g WEST13MV
0845 030695	0 TDXX E temp and depth	SIX 5-30.34S 106-53.66W	g WEST13MV
0335 040695	0 TDXX B fluorescent tow	SIX 5-41.51S 107-04.01W	g WEST13MV
0450 040695	0 TDXX E temp and depth	SIX 5-37.05S 106-56.40W	g WEST13MV
0319 060695	0 TDXX B fluorescent tow	SIX 6-16.03S 107-40.44W	g WEST13MV
0900 060695	0 TDXX E temp and depth	SIX 6-17.93S 107-46.64W	g WEST13MV
0415 070695	0 TDXX B fluorescent tow	SIX 6-24.98S 107-57.38W	g WEST13MV
0849 070695	0 TDXX E temp and depth	SIX 6-21.02S 108-09.17W	g WEST13MV

#GMT	DDMMYY	SAMP	B	SAMPLE	DISP				P	CRUISE
#TIME	DATE	TZ	CODE	E IDENTIFIER	CODE	LATITUDE	LONGITUDE		C	LEG-SHIP
#*** Continuous Surface Water Sample ***										
0024	140595	0	CSXX	B uncon sea water	SIX	17-31.01S	149-36.03W	g	WEST13MV	
1200	210695	0	CSXX	E sampling	SIX	16-37.42N	99-59.41W	g	WEST13MV	
#*** Photometer ***										
1930	060695	0	PSXX	B plymouth light	SIX	6-14.66S	107-57.23W	g	WEST13MV	
1945	060695	0	PSXX	E cast	SIX	6-14.72S	107-57.28W	g	WEST13MV	
2124	070695	0	PSXX	B plymouth light	SIX	6-18.40S	108-15.53W	g	WEST13MV	
2137	070695	0	PSXX	E cast	SIX	6-18.47S	108-15.66W	g	WEST13MV	
0315	080695	0	PSXX	B fluorecent tow	SIX	6-35.20S	108-26.93W	g	WEST13MV	
0900	080695	0	PSXX	E temp and depth	SIX	6-42.43S	108-34.20W	g	WEST13MV	
1214	220595	0	PSXX	p05225aa	SIX	5-00.01S	115-29.08W	g	WEST13MV	
1127	230595	0	PSXX	p05235aa	SIX	4-59.96S	111-13.84W	g	WEST13MV	
2236	240595	0	PSXX	p05245aa	SIX	3-00.25S	104-55.64W	g	WEST13MV	
2224	250595	0	PSXX	p05255aa	SIX	3-23.74S	103-08.42W	g	WEST13MV	
2145	260595	0	PSXX	p05265aa	SIX	3-17.77S	104-20.04W	g	WEST13MV	
2213	280595	0	PSXX	p05285aa	SIX	4-16.59S	104-58.87W	g	WEST13MV	
2245	290595	0	PSXX	p05295aa	SIX	4-35.38S	105-09.97W	g	WEST13MV	
2124	310595	0	PSXX	p05305aa	SIX	4-43.30S	105-52.57W	g	WEST13MV	
1830	010695	0	PSXX	p01065aa	SIX	4-57.99S	106-18.94W	g	WEST13MV	
2045	010695	0	PSXX	p01065ac	SIX	5-00.88S	106-21.45W	g	WEST13MV	
1722	020695	0	PSXX	p02065aa	SIX	5-17.52S	106-33.62W	g	WEST13MV	
2115	020695	0	PSXX	p02065aa	SIX	5-25.57S	106-51.08W	g	WEST13MV	
2010	050695	0	PSXX	p005065aa	SIX	5-58.29S	107-38.84W	g	WEST13MV	
2040	070695	0	PSXX	p07065aa	SIX	6-18.11S	108-14.91W	g	WEST13MV	
2137	080695	0	PSXX	p08065aa	SIX	6-46.89S	108-59.63W	g	WEST13MV	
2224	100695	0	PSXX	p06105aa	SIX	6-39.93S	109-20.33W	g	WEST13MV	
2200	110695	0	PSXX	p06115aa	SIX	7-19.22S	109-36.86W	g	WEST13MV	
2230	110695	0	PSXX	p06125aa	SIX	7-20.75S	109-37.36W	g	WEST13MV	
1700	120695	0	PSXX	p06125ac	SIX	7-27.72S	109-53.13W	g	WEST13MV	
1900	120695	0	PSXX	p06125ae	SIX	7-27.58S	109-54.92W	g	WEST13MV	
1500	130695	0	PSXX	p06135aa	SIX	6-50.40S	109-48.57W	g	WEST13MV	
1700	130695	0	PSXX	p06135ac	SIX	6-50.34S	109-49.80W	g	WEST13MV	
1900	130695	0	PSXX	p06135ae	SIX	6-49.94S	109-49.86W	g	WEST13MV	
2115	130695	0	PSXX	p06135ag	SIX	6-49.17S	109-50.26W	g	WEST13MV	
1508	140695	0	PSXX	p06145aa	SIX	6-36.81S	110-03.51W	g	WEST13MV	
1705	140695	0	PSXX	p06145ac	SIX	6-36.26S	110-04.39W	g	WEST13MV	
1913	140695	0	PSXX	p06145ae	SIX	6-35.82S	110-05.09W	g	WEST13MV	
2101	140695	0	PSXX	p06145ag	SIX	6-34.74S	110-09.19W	g	WEST13MV	
1803	150695	0	PSXX	p06155aa	SIX	7-06.39S	111-04.52W	g	WEST13MV	

#GMT	DDMMYY	SAMP	B	SAMPLE	DISP				P	CRUISE
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**** Temperature, Depth, Conductivity (Moss Landing) ****

0140	160595	0	TDCT	t		SIX	13-07.31S	141-02.91W	g	WEST13MV
0205	160595	0	TDCT	t		SIX	13-07.17S	141-02.86W	g	WEST13MV
0110	210595	0	TDCT			SIX	5-00.41S	121-26.03W	g	WEST13MV
2300	210595	0	TDCT	ni	g	SIX	5-00.03S	117-45.51W	g	WEST13MV
2305	220595	0	TDCT	son	g	SIX	5-00.22S	113-23.83W	g	WEST13MV
2200	230595	0	TDCT	o	g	SIX	4-10.32S	109-29.07W	g	WEST13MV
2200	240595	0	TDCT	ts	11bot	SIX	3-00.07S	104-57.30W	g	WEST13MV
0259	250595	0	TDCT	ts	500m	SIX	3-00.04S	103-59.97W	g	WEST13MV
0550	250595	0	TDCT			SIX	3-24.83S	103-59.91W	g	WEST13MV
0828	250595	0	TDCT	ts	500m	SIX	3-50.05S	104-00.09W	g	WEST13MV
1113	250595	0	TDCT	ts	20m	SIX	4-15.02S	104-00.10W	g	WEST13MV
1623	250595	0	TDCT	i	g	SIX	4-15.05S	103-10.18W	g	WEST13MV
2135	250595	0	TDCT	ni	g a	SIX	3-24.05S	103-08.36W	g	WEST13MV
1316	260595	0	TDCT	ni	g a	SIX	2-00.10S	103-59.96W	g	WEST13MV
0108	270595	0	TDCT	i	a	SIX	3-57.91S	104-20.21W	g	WEST13MV
0221	270595	0	TDCT	ni	g a	SIX	3-49.03S	104-20.22W	g	WEST13MV
1557	270595	0	TDCT	ni	g a	SIX	3-33.93S	104-26.84W	g	WEST13MV
1709	270595	0	TDCT	n	g a	SIX	3-41.98S	104-28.27W	g	WEST13MV
1818	270595	0	TDCT	n	g a	SIX	3-50.16S	104-29.43W	g	WEST13MV
1928	270595	0	TDCT	ni	g a	SIX	3-51.31S	104-37.61W	g	WEST13MV
2030	270595	0	TDCT	n	g a	SIX	3-52.51S	104-45.53W	g	WEST13MV
2130	270595	0	TDCT	ni	g a	SIX	3-46.88S	104-46.66W	g	WEST13MV
2245	270595	0	TDCT	xdmsx		SIX	3-41.48S	104-48.04W	g	WEST13MV
0110	280595	0	TDCT	ni	g a	SIX	3-43.96S	104-44.35W	g	WEST13MV
1410	280595	0	TDCT	ni	g a	SIX	4-06.42S	104-55.55W	g	WEST13MV
2157	280595	0	TDCT	ni	g a	SIX	4-16.41S	104-58.79W	g	WEST13MV
1338	300595	0	TDCT	ni	g a	SIX	4-38.94S	105-17.51W	g	WEST13MV
2045	300595	0	TDCT	ni	g a	SIX	4-39.20S	105-22.52W	g	WEST13MV
1332	310595	0	TDCT	ni	g a	SIX	4-42.24S	105-42.51W	g	WEST13MV
2009	310595	0	TDCT	ni	g a	SIX	4-43.09S	105-51.39W	g	WEST13MV
0238	020695	0	TDCT	ni	g a	SIX	5-07.82S	106-25.31W	g	WEST13MV
0450	020695	0	TDCT	ni	g a	SIX	5-06.02S	106-27.99W	g	WEST13MV
0714	020695	0	TDCT	ni	g a	SIX	5-01.04S	106-28.80W	g	WEST13MV
1117	020695	0	TDCT	ni	a	SIX	5-11.64S	106-31.95W	g	WEST13MV
1402	020695	0	TDCT	ni		SIX	5-18.56S	106-45.96W	g	WEST13MV
1852	020695	0	TDCT	ni		SIX	5-20.69S	106-39.44W	g	WEST13MV
2313	020695	0	TDCT	ni		SIX	5-26.32S	106-51.06W	g	WEST13MV
1345	030695	0	TDCT	ni		SIX	5-34.49S	106-51.30W	g	WEST13MV
2001	030695	0	TDCT	ni	g	SIX	5-43.66S	107-02.25W	g	WEST13MV
2348	030695	0	TDCT	ni	g	SIX	5-34.89S	106-48.32W	g	WEST13MV
1407	040695	0	TDCT	ni	g	SIX	5-45.03S	107-05.80W	g	WEST13MV
1620	040695	0	TDCT	ni	g	SIX	5-46.04S	107-06.34W	g	WEST13MV

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#TIME	DATE	TZ	CODE	E IDENTIFIER	CODE	LATITUDE	LONGITUDE	C	LEG-SHIP	
1948	040695	0	TDCT	ni g	SIX	5-43.69S	107-09.99W	g	WEST13MV	
2234	040695	0	TDCT	ni g	SIX	5-44.21S	107-12.56W	g	WEST13MV	
0200	050695	0	TDCT	ni g	SIX	5-44.84S	107-17.13W	g	WEST13MV	
0450	050695	0	TDCT	ni g	SIX	5-46.17S	107-20.01W	g	WEST13MV	
0800	050695	0	TDCT	ni g	SIX	5-48.14S	107-25.32W	g	WEST13MV	
0228	060695	0	TDCT	ni g	SIX	6-17.63S	107-43.48W	g	WEST13MV	
1425	060695	0	TDCT	ni g	SIX	6-12.14S	107-53.63W	g	WEST13MV	
1950	060695	0	TDCT	ni g	SIX	6-14.75S	107-57.28W	g	WEST13MV	
0152	070695	0	TDCT	ni g	SIX	6-17.04S	108-01.48W	g	WEST13MV	
1155	070695	0	TDCT	s ni	SIX	6-29.30S	108-19.47W	g	WEST13MV	
1341	070695	0	TDCT	ni	SIX	6-26.51S	108-17.94W	g	WEST13MV	
1604	070695	0	TDCT	ni	SIX	6-22.65S	108-16.03W	g	WEST13MV	
1840	070695	0	TDCT	i	SIX	6-18.95S	108-14.37W	g	WEST13MV	
2057	070695	0	TDCT	i	SIX	6-18.22S	108-15.11W	g	WEST13MV	
0202	080695	0	TDCT	i	SIX	6-27.78S	108-27.41W	g	WEST13MV	
1435	090695	0	TDCT	i xdmsox	SIX	6-44.61S	109-12.57W	g	WEST13MV	
2038	090695	0	TDCT	i xdmsox	SIX	6-43.25S	109-11.39W	g	WEST13MV	
1331	100695	0	TDCT	s i xdmsox	SIX	6-42.92S	109-17.07W	g	WEST13MV	
2039	100695	0	TDCT	i xdmsox	SIX	6-40.57S	109-20.35W	g	WEST13MV	
1340	110695	0	TDCT	i xdmsox	SIX	6-36.17S	109-30.37W	g	WEST13MV	
2215	110695	0	TDCT	i xdmsox	SIX	7-20.67S	109-37.08W	g	WEST13MV	
1417	120695	0	TDCT	i xdmsox	SIX	7-27.11S	109-51.17W	g	WEST13MV	
1736	120695	0	TDCT	i	SIX	7-27.73S	109-53.36W	g	WEST13MV	
2013	120695	0	TDCT	s i	SIX	7-27.72S	109-56.57W	g	WEST13MV	
2351	120695	0	TDCT	s i	SIX	7-13.46S	109-58.67W	g	WEST13MV	
1401	130695	0	TDCT	s	SIX	6-50.48S	109-48.11W	g	WEST13MV	
2005	130695	0	TDCT	i xdmsox	SIX	6-49.74S	109-50.62W	g	WEST13MV	
1355	140695	0	TDCT	s i xdmsox	SIX	6-36.71S	110-03.16W	g	WEST13MV	
1943	140695	0	TDCT	i xdmsox	SIX	6-35.61S	110-05.35W	g	WEST13MV	
1419	150695	0	TDCT	i xdmsox	SIX	7-19.16S	110-57.14W	g	WEST13MV	
0342	170695	0	TDCT	s	SIX	1-00.05S	108-22.07W	g	WEST13MV	
0705	170695	0	TDCT	s	SIX	0-29.97S	108-03.06W	g	WEST13MV	
1008	170695	0	TDCT	s	SIX	0-00.01S	107-47.50W	g	WEST13MV	
1315	170695	0	TDCT	s	SIX	0-30.17N	107-34.01W	g	WEST13MV	
1681	170695	0	TDCT	s	SIX	1-06.85N	107-17.34W	g	WEST13MV	

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#*** Radar Marker Buoy (Moss Landing) ***

0430 270595	0 BURM B instrumented1	SIX	3-30.25S 104-20.20W g WEST13MV
1550 050695	0 BURM E marker buoy1	SIX	5-52.50S 107-34.50W g WEST13MV
1758 050695	0 BURM B instrumented1	SIX	5-57.30S 107-36.58W g WEST13MV
1632 150695	0 BURM E marker buoy1	SIX	7-18.96S 110-58.21W g WEST13MV
1815 280595	0 BURM B instrumented2	SIX	4-17.29S 104-56.80W g WEST13MV
1330 080695	0 BURM E marker buoy2	SIX	6-15.13S 108-34.61W g WEST13MV
2010 080695	0 BURM B instrumented2	SIX	6-45.17S 109-01.46W g WEST13MV
2130 140695	0 BURM E marker buoy2	SIX	6-34.88S 110-08.59W g WEST13MV

#*** Physical Chemistry Samples (USC) ***

1505 280595	0 PCXX trace metal	SIX	4-07.17S 104-56.13W g WEST13MV
1635 280595	0 PCXX trace metal	SIX	4-08.36S 104-57.45W g WEST13MV
1905 280595	0 PCXX trace metal	SIX	4-14.60S 104-57.75W g WEST13MV
2330 280595	0 PCXX trace metal	SIX	4-18.01S 104-58.83W g WEST13MV
0940 010695	0 PCXX B 15m trace metal	SIX	4-54.92S 106-14.22W g WEST13MV
1411 010695	0 PCXX E 8 quick casts	SIX	4-52.01S 106-02.94W g WEST13MV
0110 020695	0 PCXX trace metal	SIX	5-11.19S 106-23.80W g WEST13MV
0225 020695	0 PCXX trace metal	SIX	5-08.25S 106-25.08W g WEST13MV
0259 020695	0 PCXX trace metal	SIX	5-05.20S 106-25.42W g WEST13MV
0416 020695	0 PCXX trace metal	SIX	5-05.92S 106-27.20W g WEST13MV
0545 020695	0 PCXX trace metal	SIX	5-04.54S 106-27.94W g WEST13MV
0616 020695	0 PCXX trace metal	SIX	5-03.65S 106-28.37W g WEST13MV
0658 020695	0 PCXX trace metal	SIX	5-00.92S 106-28.64W g WEST13MV
0850 020695	0 PCXX trace metal	SIX	5-08.50S 106-30.67W g WEST13MV
1138 020695	0 PCXX trace metal	SIX	5-11.95S 106-32.35W g WEST13MV
1321 020695	0 PCXX trace metal	SIX	5-17.68S 106-45.41W g WEST13MV
1431 020695	0 PCXX trace metal	SIX	5-19.01S 106-46.44W g WEST13MV
2051 020695	0 PCXX trace metal	SIX	5-25.36S 106-50.94W g WEST13MV
2241 020695	0 PCXX trace metal	SIX	5-26.10S 106-51.02W g WEST13MV
1233 030695	0 PCXX trace metal	SIX	5-32.17S 106-48.56W g WEST13MV
0023 040695	0 PCXX trace metal	SIX	5-34.73S 106-48.45W g WEST13MV
1442 040695	0 PCXX trace metal	SIX	5-45.29S 107-05.88W g WEST13MV
1547 040695	0 PCXX trace metal	SIX	5-45.78S 107-06.12W g WEST13MV
1902 040695	0 PCXP trace metal	SIX	5-43.59S 107-09.58W g WEST13MV
2308 040695	0 PCXX trace metal	SIX	5-44.27S 107-12.97W g WEST13MV

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#TIME	DATE	TZ	CODE	E IDENTIFIER	CODE	LATITUDE	LONGITUDE	C	LEG-SHIP	
0815	050695	0	PCXX	trace metal	SIX	5-48.29S	107-25.52W	g	WEST13MV	
1254	050695	0	PCXX	trace metal	SIX	5-51.81S	107-29.43W	g	WEST13MV	
1430	050695	0	PCXX	trace metal	SIX	5-52.55S	107-31.85W	g	WEST13MV	
1208	060695	0	PCXX	trace metal	SIX	6-22.17S	107-47.27W	g	WEST13MV	
1346	060695	0	PCXX	trace metal	SIX	6-11.62S	107-53.71W	g	WEST13MV	
1457	060695	0	PCXX	trace metal	SIX	6-12.64S	107-53.55W	g	WEST13MV	
1855	060695	0	PCXX	trace metal	SIX	6-14.56S	107-57.16W	g	WEST13MV	
1155	070695	0	PCXX	trace metal	SIX	6-29.30S	108-19.47W	g	WEST13MV	
1406	070695	0	PCXX	trace metal	SIX	6-26.42S	108-18.54W	g	WEST13MV	
1441	070695	0	PCXX	trace metal	SIX	6-25.25S	108-17.46W	g	WEST13MV	
1528	070695	0	PCXX	trace metal	SIX	6-23.88S	108-16.84W	g	WEST13MV	
1640	070695	0	PCXX	trace metal	SIX	6-22.80S	108-16.66W	g	WEST13MV	
1727	070695	0	PCXX	trace metal	SIX	6-21.61S	108-15.99W	g	WEST13MV	
1808	070695	0	PCXX	trace metal	SIX	6-20.24S	108-15.46W	g	WEST13MV	
1900	070695	0	PCXX	trace metal	SIX	6-18.96S	108-14.76W	g	WEST13MV	
1210	090695	0	PCXX	trace metal	SIX	6-51.93S	109-05.68W	g	WEST13MV	
1345	090695	0	PCXX	trace metal	SIX	6-44.94S	109-12.84W	g	WEST13MV	
1402	090695	0	PCXX	trace metal	SIX	6-44.87S	109-12.78W	g	WEST13MV	
1502	090695	0	PCXX	trace metal	SIX	6-44.35S	109-12.32W	g	WEST13MV	
1955	090695	0	PCXX	trace metal	SIX	6-43.58S	109-10.82W	g	WEST13MV	
1257	100695	0	PCXX	trace metal	SIX	6-43.04S	109-16.83W	g	WEST13MV	
1359	100695	0	PCXX	trace metal	SIX	6-42.77S	109-17.30W	g	WEST13MV	
2004	100695	0	PCXX	trace metal	SIX	6-40.89S	109-20.26W	g	WEST13MV	
1248	110695	0	PCXX	trace metal	SIX	6-36.27S	109-29.98W	g	WEST13MV	
0000	120695	0	PCXX	trace metal	SIX	7-21.80S	109-38.46W	g	WEST13MV	
0000	110695	0	PCXX	trace metal	SIX	6-40.92S	109-17.77W	g	WEST13MV	
1158	120695	0	PCXX	trace metal	SIX	7-11.60S	109-52.31W	g	WEST13MV	
1346	120695	0	PCXX	trace metal	SIX	7-26.91S	109-50.85W	g	WEST13MV	
1445	120695	0	PCXX	trace metal	SIX	7-27.30S	109-51.37W	g	WEST13MV	
1902	120695	0	PCXX	trace metal	SIX	7-27.59S	109-54.97W	g	WEST13MV	
1152	130695	0	PCXX	trace metal	SIX	6-40.55S	109-50.15W	g	WEST13MV	
1311	130695	0	PCXX	trace metal	SIX	6-47.51S	109-48.38W	g	WEST13MV	
1906	130695	0	PCXX	trace metal	SIX	6-49.90S	109-49.93W	g	WEST13MV	
1131	140695	0	PCXX	trace metal	SIX	6-32.64S	109-50.51W	g	WEST13MV	
1319	140695	0	PCXX	trace metal	SIX	6-36.69S	110-02.88W	g	WEST13MV	
1516	140695	0	PCXX	trace metal	SIX	6-36.83S	110-03.53W	g	WEST13MV	
1901	140695	0	PCXX	trace metal	SIX	6-35.90S	110-05.03W	g	WEST13MV	
1208	150695	0	PCXX	trace metal	SIX	7-21.95S	110-48.76W	g	WEST13MV	
1512	150695	0	PCXX	trace metal	SIX	7-19.00S	110-57.74W	g	WEST13MV	
1631	150695	0	PCXX	trace metal	SIX	7-18.96S	110-58.20W	g	WEST13MV	

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**** Hydrographic Cast - Goflow Bottles (Moss Landing) ****

0000	160595	0 HCGF	i	15m	SIX	13-07.41S	141-03.00W	g	WEST13MV
2348	200595	0 HCGF	i	15m	SIX	5-00.44S	121-24.05W	g	WEST13MV
1650	250595	0 HCGF	i	15m	SIX	4-15.02S	103-10.07W	g	WEST13MV
1326	280595	0 HCGF	i	15m	SIX	4-05.80S	104-54.99W	g	WEST13MV
1617	280595	0 HCGF	i	15m	SIX	4-08.14S	104-57.19W	g	WEST13MV
0306	290595	0 HCGF	i	15m	SIX	4-24.48S	105-01.87W	g	WEST13MV
0830	290595	0 HCGF	i	15m	SIX	4-28.27S	105-03.33W	g	WEST13MV
1310	300595	0 HCGF	i	15m	SIX	4-39.22S	105-17.08W	g	WEST13MV
1950	300595	0 HCGF	i	15m	SIX	4-39.37S	105-21.76W	g	WEST13MV
1305	310595	0 HCGF	i	15m	SIX	4-42.33S	105-41.92W	g	WEST13MV
1949	310595	0 HCGF	i	15m	SIX	4-43.11S	105-50.99W	g	WEST13MV
0123	020695	0 HCGF	i	15m	SIX	5-11.31S	106-23.98W	g	WEST13MV
0430	020695	0 HCGF	i	15m	SIX	5-05.98S	106-27.56W	g	WEST13MV
1336	020695	0 HCGF	i	15m	SIX	5-17.97S	106-45.63W	g	WEST13MV
2252	020695	0 HCGF	i	15m	SIX	5-26.18S	106-50.99W	g	WEST13MV
2155	030695	0 HCGF	i	15m	SIX	5-39.68S	106-54.80W	g	WEST13MV
2332	030695	0 HCGF	i	15m	SIX	5-35.14S	106-48.18W	g	WEST13MV
1350	040695	0 HCGF	i	15m	SIX	5-44.93S	107-05.63W	g	WEST13MV
1923	040695	0 HCGF	i	15m	SIX	5-43.64S	107-09.79W	g	WEST13MV
0138	050695	0 HCGF	i	15m	SIX	5-44.68S	107-16.74W	g	WEST13MV
1313	050695	0 HCGF	i	15m	SIX	5-52.19S	107-29.63W	g	WEST13MV
1401	060695	0 HCGF	i	15m	SIX	6-11.79S	107-53.69W	g	WEST13MV
1910	060695	0 HCGF	i	15m	SIX	6-14.60S	107-57.18W	g	WEST13MV
0137	070695	0 HCGF	i	15m	SIX	6-17.06S	108-01.38W	g	WEST13MV
1216	070695	0 HCGF	i	15m	SIX	6-29.30S	108-20.09W	g	WEST13MV
1625	070695	0 HCGF	i	15m	SIX	6-22.65S	108-16.57W	g	WEST13MV
2025	070695	0 HCGF	i	15m	SIX	6-18.04S	108-14.70W	g	WEST13MV
1414	090695	0 HCGF	i	15m	SIX	6-44.78S	109-12.69W	g	WEST13MV
2018	090695	0 HCGF	i	15m	SIX	6-43.36S	109-11.28W	g	WEST13MV
1314	100695	0 HCGF	i	15m	SIX	6-42.99S	109-16.99W	g	WEST13MV
2017	100695	0 HCGF	i	15m	SIX	6-40.76S	109-20.25W	g	WEST13MV
1321	110695	0 HCGF	i	15m	SIX	6-36.21S	109-30.21W	g	WEST13MV
0119	120695	0 HCGF	i	15m	SIX	7-22.54S	109-39.12W	g	WEST13MV
1357	120695	0 HCGF	i	15m	SIX	7-26.95S	109-50.96W	g	WEST13MV
2112	120695	0 HCGF	i	15m	SIX	7-27.78S	109-57.51W	g	WEST13MV
2153	120695	0 HCGF	i	15m	SIX	7-27.82S	109-57.90W	g	WEST13MV
1346	130695	0 HCGF	i	15m	SIX	6-50.47S	109-47.92W	g	WEST13MV
1921	130695	0 HCGF	i	15m	SIX	6-49.81S	109-50.15W	g	WEST13MV
1332	140695	0 HCGF	i	15m	SIX	6-36.70S	110-03.00W	g	WEST13MV
1920	140695	0 HCGF	i	15m	SIX	6-35.75S	110-05.16W	g	WEST13MV
1402	150695	0 HCGF	i	15m	SIX	7-19.24S	110-56.90W	g	WEST13MV

#GMT DDMYY	SAMP B SAMPLE	DISP	P CRUISE
#TIME DATE TZ CODE E IDENTIFIER	CODE LATITUDE	LONGITUDE	C LEG-SHIP

*** Hydrographic Cast - Niskin Bottles (Moss Landing) ***

2217	310595	0 HNCI	o	SIX	4-43.42S	105-53.17W	g	WEST13MV
2351	310595	0 HNCI	o	SIX	4-38.88S	105-54.35W	g	WEST13MV
2010	030695	0 HNCI	o	SIX	5-43.72S	107-02.26W	g	WEST13MV
2037	030695	0 HNCI	o	SIX	5-43.00S	107-00.88W	g	WEST13MV
2057	030695	0 HNCI	o	SIX	5-42.25S	106-59.53W	g	WEST13MV
2115	030695	0 HNCI	o	SIX	5-41.43S	106-57.97W	g	WEST13MV
2131	030695	0 HNCI	o	SIX	5-40.57S	106-56.45W	g	WEST13MV
2150	030695	0 HNCI	o	SIX	5-39.65S	106-54.76W	g	WEST13MV
2225	030695	0 HNCI	o	SIX	5-38.82S	106-53.44W	g	WEST13MV
2241	030695	0 HNCI	o	SIX	5-37.93S	106-51.95W	g	WEST13MV
2306	030695	0 HNCI	o	SIX	5-36.32S	106-49.55W	g	WEST13MV

*** Surface Samples ***

2310	150595	0 SSXX B surf pump	WHOI	13-07.46S	141-02.87W	g	WEST13MV
2359	150595	0 SSXX E surf pump	WHOI	13-07.40S	141-03.00W	g	WEST13MV
0010	160595	0 SSXX B surf pump	WHOI	13-07.42S	141-02.97W	g	WEST13MV
0110	160595	0 SSXX E surf pump	WHOI	13-07.37S	141-02.90W	g	WEST13MV
1134	280595	0 SSXX B surf pump	WHOI	4-04.54S	104-52.90W	g	WEST13MV
1330	280595	0 SSXX E surf pump	WHOI	4-05.84S	104-55.05W	g	WEST13MV
1341	280595	0 SSXX B surf pump	WHOI	4-06.00S	104-55.19W	g	WEST13MV
1634	280595	0 SSXX E surf pump	WHOI	4-08.35S	104-57.43W	g	WEST13MV
1905	280595	0 SSXX B surf pump	WHOI	4-14.60S	104-57.75W	g	WEST13MV
2158	280595	0 SSXX E surf pump	WHOI	4-16.43S	104-58.77W	g	WEST13MV
1238	300595	0 SSXX B surf pump	WHOI	4-39.56S	105-16.59W	g	WEST13MV
1425	300595	0 SSXX E surf pump	WHOI	4-38.49S	105-18.16W	g	WEST13MV
1923	300595	0 SSXX B surf pump	WHOI	4-39.54S	105-21.44W	g	WEST13MV
2140	300595	0 SSXX E surf pump	WHOI	4-39.46S	105-23.23W	g	WEST13MV
1235	310595	0 SSXX B surf pump	WHOI	4-42.42S	105-41.18W	g	WEST13MV
1500	310595	0 SSXX E surf pump	WHOI	4-42.55S	105-43.95W	g	WEST13MV
1930	310595	0 SSXX B surf pump	WHOI	4-43.23S	105-50.48W	g	WEST13MV
2245	310595	0 SSXX E surf pump	WHOI	4-43.50S	105-53.49W	g	WEST13MV
1325	020695	0 SSXX B surf pump	WHOI	5-17.76S	106-45.46W	g	WEST13MV
1535	020695	0 SSXX E surf pump	WHOI	5-19.47S	106-47.27W	g	WEST13MV
2047	020695	0 SSXX B surf pump	WHOI	5-25.29S	106-50.90W	g	WEST13MV
2335	020695	0 SSXX E surf pump	WHOI	5-26.40S	106-51.03W	g	WEST13MV
1335	040695	0 SSXX B surf pump	WHOI	5-44.93S	107-05.32W	g	WEST13MV
1625	040695	0 SSXX E surf pump	WHOI	5-46.06S	107-06.37W	g	WEST13MV
1745	040695	0 SSXX B surf pump	WHOI	5-43.53S	107-08.84W	g	WEST13MV
1945	040695	0 SSXX E surf pump	WHOI	5-43.69S	107-09.95W	g	WEST13MV
2010	040695	0 SSXX B surf pump	WHOI	5-43.76S	107-10.17W	g	WEST13MV

#GMT	DDMMYY	SAMP	B	SAMPLE	DISP		P	CRUISE
#TIME	DATE	TZ	CODE	E IDENTIFIER	CODE	LATITUDE	LONGITUDE	C LEG-SHIP
0051	050695	0	SSXX	E surf pump	WHOI	5-44.75S	107-14.20W	g WEST13MV
0100	050695	0	SSXX	B surf pump	WHOI	5-44.82S	107-14.38W	g WEST13MV
0400	050695	0	SSXX	E surf pump	WHOI	5-45.63S	107-19.48W	g WEST13MV
0415	050695	0	SSXX	B surf pump	WHOI	5-45.79S	107-19.69W	g WEST13MV
0540	050695	0	SSXX	E surf pump	WHOI	5-46.54S	107-20.69W	g WEST13MV
1123	050695	0	SSXX	B surf pump	WHOI	5-50.16S	107-28.90W	g WEST13MV
1415	050695	0	SSXX	E surf pump	WHOI	5-52.62S	107-31.22W	g WEST13MV
1357	060695	0	SSXX	B surf pump	WHOI	6-11.74S	107-53.69W	g WEST13MV
1547	060695	0	SSXX	E surf pump	WHOI	6-13.33S	107-53.58W	g WEST13MV
1907	060695	0	SSXX	B surf pump	WHOI	6-14.59S	107-57.18W	g WEST13MV
2200	060695	0	SSXX	E surf pump	WHOI	6-14.98S	107-57.16W	g WEST13MV
1322	090695	0	SSXX	B surf pump	WHOI	6-44.86S	109-12.21W	g WEST13MV
1555	090695	0	SSXX	E surf pump	WHOI	6-43.94S	109-11.52W	g WEST13MV
1956	090695	0	SSXX	B surf pump	WHOI	6-43.57S	109-10.85W	g WEST13MV
2220	090695	0	SSXX	E surf pump	WHOI	6-42.56S	109-11.34W	g WEST13MV
1306	100695	0	SSXX	B surf pump	WHOI	6-43.01S	109-16.90W	g WEST13MV
1510	100695	0	SSXX	E surf pump	WHOI	6-41.77S	109-17.71W	g WEST13MV
2005	100695	0	SSXX	B surf pump	WHOI	6-40.87S	109-20.26W	g WEST13MV
2215	100695	0	SSXX	E surf pump	WHOI	6-39.98S	109-20.31W	g WEST13MV
2215	110695	0	SSXX	B surf pump	WHOI	7-20.67S	109-37.08W	g WEST13MV
0055	120695	0	SSXX	E surf pump	WHOI	7-22.34S	109-39.01W	g WEST13MV
0110	120695	0	SSXX	B surf pump	WHOI	7-22.50S	109-39.06W	g WEST13MV
0200	120695	0	SSXX	E surf pump	WHOI	7-22.94S	109-39.59W	g WEST13MV
1350	120695	0	SSXX	B surf pump	WHOI	7-26.92S	109-50.87W	g WEST13MV
1600	120695	0	SSXX	E surf pump	WHOI	7-27.60S	109-52.31W	g WEST13MV
1623	120695	0	SSXX	B surf pump	WHOI	7-27.67S	109-52.63W	g WEST13MV
1909	120695	0	SSXX	E surf pump	WHOI	7-27.60S	109-55.11W	g WEST13MV
1926	120695	0	SSXX	B surf pump	WHOI	7-27.62S	109-55.45W	g WEST13MV
2154	120695	0	SSXX	E surf pump	WHOI	7-27.82S	109-57.91W	g WEST13MV
1003	130695	0	SSXX	B surf pump	WHOI	6-41.04S	109-49.58W	g WEST13MV
1140	130695	0	SSXX	E surf pump	WHOI	6-40.51S	109-50.44W	g WEST13MV
1339	130695	0	SSXX	B surf pump	WHOI	6-50.49S	109-47.80W	g WEST13MV
1536	130695	0	SSXX	E surf pump	WHOI	6-50.21S	109-49.12W	g WEST13MV
1555	130695	0	SSXX	B surf pump	WHOI	6-50.18S	109-49.31W	g WEST13MV
1725	130695	0	SSXX	E surf pump	WHOI	6-50.22S	109-49.71W	g WEST13MV
1735	130695	0	SSXX	B surf pump	WHOI	6-50.33S	109-49.43W	g WEST13MV
1942	130695	0	SSXX	E surf pump	WHOI	6-49.78S	109-50.30W	g WEST13MV
1952	130695	0	SSXX	B surf pump	WHOI	6-49.73S	109-50.46W	g WEST13MV
2045	130695	0	SSXX	E surf pump	WHOI	6-49.57S	109-50.97W	g WEST13MV
1323	140695	0	SSXX	B surf pump	WHOI	6-36.71S	110-02.94W	g WEST13MV
1557	140695	0	SSXX	E surf pump	WHOI	6-36.87S	110-03.72W	g WEST13MV
1617	140695	0	SSXX	B surf pump	WHOI	6-36.76S	110-03.79W	g WEST13MV
1922	140695	0	SSXX	E surf pump	WHOI	6-35.74S	110-05.16W	g WEST13MV
1350	150695	0	SSXX	B surf pump	WHOI	7-19.31S	110-56.71W	g WEST13MV
1618	150695	0	SSXX	E surf pump	WHOI	7-18.97S	110-58.09W	g WEST13MV

#GMT DDMYY	SAMP B SAMPLE	DISP	P CRUISE
#TIME DATE	TZ CODE E IDENTIFIER	CODE LATITUDE	C LEG-SHIP
#			

*** Physical Chemistry Samples ***

1241	280595	0 PCXX B 3m pump	UHI 4-05.21S 104-54.33W g WEST13MV
1517	280595	0 PCXX E 3m pump	UHI 4-07.36S 104-56.34W g WEST13MV
2025	280595	0 PCXX B 3m pump	UHI 4-15.50S 104-58.47W g WEST13MV
2133	280595	0 PCXX E 3m pump	UHI 4-16.22S 104-58.70W g WEST13MV
1242	300595	0 PCXX B 3m pump	UHI 4-39.53S 105-16.67W g WEST13MV
1351	300595	0 PCXX E 3m pump	UHI 4-38.87S 105-17.76W g WEST13MV
1924	300595	0 PCXX B 3m pump	UHI 4-39.53S 105-21.46W g WEST13MV
2045	300595	0 PCXX E 3m pump	UHI 4-39.20S 105-22.52W g WEST13MV
1240	310595	0 PCXX B 3m pump	UHI 4-42.38S 105-41.34W g WEST13MV
1500	310595	0 PCXX E 3m pump	UHI 4-42.55S 105-43.95W g WEST13MV
1935	310595	0 PCXX B 3m pump	UHI 4-43.21S 105-50.67W g WEST13MV
2145	310595	0 PCXX E 3m pump	UHI 4-43.39S 105-52.84W g WEST13MV
0102	020695	0 PCXX B 3m pump	UHI 5-11.13S 106-23.68W g WEST13MV
0148	020695	0 PCXX E 3m pump	UHI 5-11.56S 106-24.27W g WEST13MV
1322	020695	0 PCXX B 3m pump	UHI 5-17.69S 106-45.42W g WEST13MV
1530	020695	0 PCXX E 3m pump	UHI 5-19.44S 106-47.28W g WEST13MV
2100	020695	0 PCXX B 3m pump	UHI 5-25.44S 106-51.01W g WEST13MV
2315	020695	0 PCXX E 3m pump	UHI 5-26.33S 106-51.07W g WEST13MV
1026	030695	0 PCXX B 3m pump	UHI 5-30.93S 106-47.61W g WEST13MV
1245	030695	0 PCXX E 3m pump	UHI 5-32.31S 106-48.64W g WEST13MV
1335	040695	0 PCXX B 3m pump	UHI 5-44.93S 107-05.32W g WEST13MV
1545	040695	0 PCXX E 3m pump	UHI 5-45.76S 107-06.11W g WEST13MV
1800	040695	0 PCXX B 3m pump	UHI 5-43.55S 107-08.94W g WEST13MV
2015	040695	0 PCXX E 3m pump	UHI 5-43.79S 107-10.21W g WEST13MV
2255	040695	0 PCXX B 3m pump	UHI 5-44.27S 107-12.81W g WEST13MV
0010	050695	0 PCXX E 3m pump	UHI 5-44.50S 107-13.68W g WEST13MV
0425	050695	0 PCXX B 3m pump	UHI 5-45.92S 107-19.81W g WEST13MV
0631	050695	0 PCXX E 3m pump	UHI 5-46.86S 107-21.29W g WEST13MV
1133	050695	0 PCXX B 3m pump	UHI 5-50.33S 107-28.98W g WEST13MV
1340	050695	0 PCXX E 3m pump	UHI 5-52.66S 107-29.97W g WEST13MV
1352	060695	0 PCXX B 3m pump	UHI 6-11.66S 107-53.70W g WEST13MV
1525	060695	0 PCXX E 3m pump	UHI 6-13.01S 107-53.52W g WEST13MV
1903	060695	0 PCXX B 3m pump	UHI 6-14.56S 107-57.18W g WEST13MV
2109	060695	0 PCXX E 3m pump	UHI 6-14.91S 107-57.21W g WEST13MV
1340	090695	0 PCXX B 3m pump	UHI 6-44.92S 109-12.75W g WEST13MV
1550	090695	0 PCXX E 3m pump	UHI 6-43.96S 109-11.63W g WEST13MV
1955	090695	0 PCXX B 3m pump	UHI 6-43.58S 109-10.82W g WEST13MV
2215	090695	0 PCXX E 3m pump	UHI 6-42.59S 109-11.33W g WEST13MV
1305	100695	0 PCXX B 3m pump	UHI 6-43.02S 109-16.88W g WEST13MV
1453	100695	0 PCXX E 3m pump	UHI 6-42.20S 109-17.66W g WEST13MV
2007	100695	0 PCXX B 3m pump	UHI 6-40.86S 109-20.26W g WEST13MV
2213	100695	0 PCXX E 3m pump	UHI 6-39.99S 109-20.32W g WEST13MV
1310	110695	0 PCXX B 3m pump	UHI 6-36.24S 109-30.12W g WEST13MV
1411	110695	0 PCXX E 3m pump	UHI 6-36.06S 109-30.64W g WEST13MV

#GMT	DDMMYY	SAMP	B	SAMPLE	DISP				P	CRUISE
#TIME	DATE	TZ	CODE	E IDENTIFIER	CODE	LATITUDE	LONGITUDE	C	LEG-SHIP	
#*** Open Net Samples ***										
0816	280595	0	ON50	B 30, 60, 90, 120, 200m	UHI	4-01.48S	104-47.13W	g	WEST13MV	
1021	280595	0	ON50	E vert. bongo	UHI	4-02.81S	104-48.03W	g	WEST13MV	
2011	280595	0	ON50	B 30, 60, 90, 120, 200m	UHI	4-15.29S	104-58.34W	g	WEST13MV	
2124	280595	0	ON50	E vert. bongo	UHI	4-16.13S	104-58.63W	g	WEST13MV	
1041	280595	0	ONOB	B 0-50m	UHI	4-02.89S	104-48.08W	g	WEST13MV	
1050	280595	0	ONOB	E sqm	UHI	4-02.92S	104-48.05W	g	WEST13MV	
2228	280595	0	ONOB	B 0-30m	UHI	4-16.86S	104-58.70W	g	WEST13MV	
2232	280595	0	ONOB	E sqm	UHI	4-16.91S	104-58.65W	g	WEST13MV	
0400	290595	0	ONOB	B	UHI	4-24.64S	105-02.24W	g	WEST13MV	
0415	290595	0	ONOB	E sqm	UHI	4-24.73S	105-02.28W	g	WEST13MV	
1832	300595	0	ONOB	B	UHI	4-33.79S	105-20.07W	g	WEST13MV	
1840	300595	0	ONOB	E sqm	UHI	4-33.89S	105-19.86W	g	WEST13MV	
2240	300595	0	ONOB	B	UHI	4-40.10S	105-22.21W	g	WEST13MV	
2248	300595	0	ONOB	E sqm	UHI	4-40.28S	105-22.01W	g	WEST13MV	
0826	310595	0	ONOB	B	UHI	4-47.84S	105-39.44W	g	WEST13MV	
0835	310595	0	ONOB	E sqm	UHI	4-47.84S	105-39.29W	g	WEST13MV	
0952	310595	0	ONOB	B	UHI	4-42.53S	105-39.24W	g	WEST13MV	
1001	310595	0	ONOB	E sqm	UHI	4-42.52S	105-39.08W	g	WEST13MV	
1100	310595	0	ONOB	B	UHI	4-38.70S	105-34.55W	g	WEST13MV	
1119	310595	0	ONOB	E sqm	UHI	4-38.90S	105-34.43W	g	WEST13MV	
2106	310595	0	ON50	B 30, 60, 90, 120, 200m	UHI	4-43.27S	105-52.37W	g	WEST13MV	
2216	310595	0	ON50	E vertical bongo	UHI	4-43.42S	105-53.15W	g	WEST13MV	
2249	310595	0	ONOB	B	UHI	4-43.52S	105-53.55W	g	WEST13MV	
2315	310595	0	ONOB	E sqm	UHI	4-43.78S	105-53.50W	g	WEST13MV	
0941	020695	0	ONOB	B	UHI	5-11.06S	106-31.39W	g	WEST13MV	
0951	020695	0	ONOB	E sqm	UHI	5-11.01S	106-31.18W	g	WEST13MV	
1002	020695	0	ON50	B 30, 60, 90, 120, 200m	UHI	5-11.10S	106-31.22W	g	WEST13MV	
1112	020695	0	ON50	E vertical bongo	UHI	5-11.61S	106-31.90W	g	WEST13MV	
1920	020695	0	ONOB	B	UHI	5-20.99S	106-39.51W	g	WEST13MV	
1932	020695	0	ONOB	E sqm	UHI	5-20.94S	106-39.28W	g	WEST13MV	
2117	020695	0	ON50	B 30, 60, 90, 120, 200m	UHI	5-25.60S	106-51.08W	g	WEST13MV	
2235	020695	0	ON50	E vertical bongo	UHI	5-26.08S	106-51.05W	g	WEST13MV	
0927	030695	0	ONOB	B	UHI	5-30.69S	106-47.75W	g	WEST13MV	
0936	030695	0	ONOB	E sqm	UHI	5-30.67S	106-47.47W	g	WEST13MV	
2022	040695	0	ONOB	B	UHI	5-43.83S	107-10.26W	g	WEST13MV	
2034	040695	0	ONOB	E sqm	UHI	5-44.02S	107-10.03W	g	WEST13MV	
0838	050695	0	ONOB	B	UHI	5-48.51S	107-25.59W	g	WEST13MV	
0846	050695	0	ONOB	E sqm	UHI	5-48.61S	107-25.43W	g	WEST13MV	
2020	060695	0	ON50	B 30, 60, 90, 120 200m	UHI	6-14.82S	107-57.27W	g	WEST13MV	
2154	060695	0	ON50	E vertical bongo	UHI	6-14.97S	107-57.16W	g	WEST13MV	
0904	070695	0	ONOB	B	UHI	6-20.43S	108-08.38W	g	WEST13MV	
0922	070695	0	ONOB	E sqm	UHI	6-20.45S	108-08.03W	g	WEST13MV	
0938	070695	0	ONOB	B	UHI	6-20.49S	108-07.71W	g	WEST13MV	
0959	070695	0	ONOB	E sqm	UHI	6-20.50S	108-07.29W	g	WEST13MV	
2143	070695	0	ON50	B 30, 60, 90, 120, 200m	UHI	6-18.46S	108-15.71W	g	WEST13MV	
2308	070695	0	ON50	E vertical bongo	UHI	6-18.57S	108-17.06W	g	WEST13MV	
2226	090695	0	ONOB	B	UHI	6-42.53S	109-11.17W	g	WEST13MV	
2240	090695	0	ONOB	E sqm	UHI	6-42.41S	109-10.73W	g	WEST13MV	
0831	100695	0	ONOB	B	UHI	6-50.10S	109-16.21W	g	WEST13MV	
0902	100695	0	ONOB	E sqm	UHI	6-50.26S	109-15.67W	g	WEST13MV	

#GMT	DDMMYY	SAMP B	SAMPLE	DISP				P	CRUISE
#TIME	DATE	TZ	CODE E	IDENTIFIER	CODE	LATITUDE	LONGITUDE	C	LEG-SHIP
2233	100695	0	ONOB B		UHI	6-39.76S	109-20.07W	g	WEST13MV
2245	100695	0	ONOB E	sqm	UHI	6-39.53S	109-19.70W	g	WEST13MV
0903	120695	0	ONOB B		UHI	7-24.78S	109-46.93W	g	WEST13MV
0925	120695	0	ONOB E	sqm	UHI	7-24.27S	109-46.56W	g	WEST13MV
1012	120695	0	ONOB B		UHI	7-25.36S	109-48.03W	g	WEST13MV
1025	120695	0	ONOB E	sqm	UHI	7-25.06S	109-47.79W	g	WEST13MV

**** (Moss Landing samples) ****

0100	310595	0	ONXX B	hand net tow	SIX	4-33.22S	105-23.68W	g	WEST13MV
0112	310595	0	ONXX E	hand net tow	SIX	4-33.71S	105-23.68W	g	WEST13MV
1510	310595	0	ONXX B	hand net tow	SIX	4-42.58S	105-44.33W	g	WEST13MV
1517	310595	0	ONXX E	hand net tow	SIX	4-42.53S	105-44.57W	g	WEST13MV
2348	310595	0	ONXX B	hand net tow	SIX	4-38.99S	105-54.29W	g	WEST13MV
2350	310595	0	ONXX E	hand net tow	SIX	4-38.87S	105-54.33W	g	WEST13MV
0502	020695	0	ONXX B	hand net tow	SIX	5-05.98S	106-28.17W	g	WEST13MV
0505	020695	0	ONXX E	hand net tow	SIX	5-05.97S	106-28.18W	g	WEST13MV
1526	020695	0	ONXX B	hand net tow	SIX	5-19.43S	106-47.21W	g	WEST13MV
1530	020695	0	ONXX E	hand net tow	SIX	5-19.44S	106-47.28W	g	WEST13MV
1858	020695	0	ONXX B	hand net tow	SIX	5-20.79S	106-39.50W	g	WEST13MV
1902	020695	0	ONXX E	hand net tow	SIX	5-20.84S	106-39.51W	g	WEST13MV
1507	040695	0	ONXX B	hand net tow	SIX	5-45.42S	107-06.02W	g	WEST13MV
1512	040695	0	ONXX E	hand net tow	SIX	5-45.48S	107-06.02W	g	WEST13MV
1527	040695	0	ONXX B	hand net tow	SIX	5-45.60S	107-06.08W	g	WEST13MV
1530	040695	0	ONXX w	hand net tow	SIX	5-45.63S	107-06.10W	g	WEST13MV
2048	060695	0	ONXX B	hand net tow	SIX	6-14.94S	107-57.26W	g	WEST13MV
2052	060695	0	ONXX E	hand net tow	SIX	6-14.94S	107-57.26W	g	WEST13MV

**** Water Sample (Stanford) ****

1035	290595	0	CSXX B	pump iron	SIX	4-33.05S	105-05.12W	g	WEST13MV
0354	300595	0	CSXX E	ferrous sulfate	SIX	4-35.25S	105-08.80W	g	WEST13MV
1530	010695	0	CSXX B	pump iron	SIX	4-53.93S	106-16.23W	g	WEST13MV
2300	010695	0	CSXX E	ferrous sulfate	SIX	5-03.58S	106-23.78W	g	WEST13MV
1816	050695	0	CSXX B	pump iron	SIX	5-57.38S	107-36.99W	g	WEST13MV
0100	060695	0	CSXX E	ferrous sulfate	SIX	6-04.28S	107-42.86W	g	WEST13MV

**** End Sample Index

WEST13MV