

***Report and Index of  
Underway Marine Geophysical Data***

**MOCE Expedition**

**Leg 5**

**(MOCE05MV)**

**R/V Melville**

**(Issued October 2000)**

**Ports:**

San Diego, California (1 October 1999)  
to  
San Diego, California (21 October 1999)

**Chief Scientist:**

Dennis Clark - NOAA  
dclark@orbit.nesdis.noaa.gov

Computer Tech - Dan Jacobson  
Resident Marine Tech - Lynne Butler

Post-Cruise processing and report preparation by the  
Geological Data Center, 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 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 ID# 288

***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.

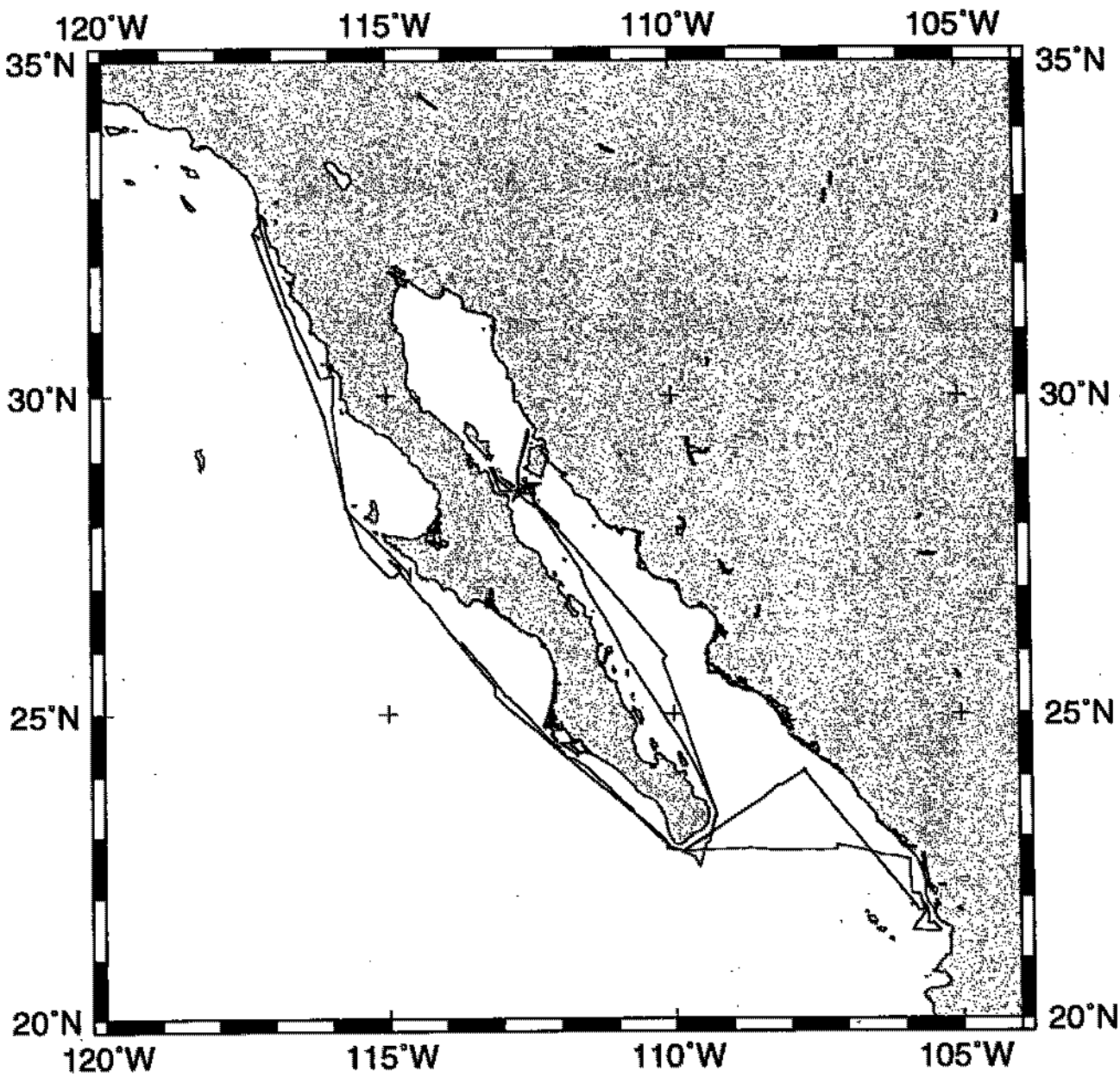
**Track Charts**– annotated with dates and hour ticks

**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 the Geological Data Center, Scripps Institution of Oceanography, La Jolla, California 92093-0223. Phone: (858)534-2752, Fax: (858)534-6500, internet email: [ualbright@ucsd.edu](mailto:ualbright@ucsd.edu) or [gwells@ucsd.edu](mailto:gwells@ucsd.edu)

1. Files via ftp or on 8mm (Exabyte) magnetic tape or CDrom:
  - 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 (35mm flowfilm) or hard copies of:
  - a) Underway watch log
  - b) SeaBeam vertical beam profile/Sidescan records.
  - c) 3.5 kHz and 12 kHz echosounder records.
  - d) Seismic reflection profiler records.
3. Navigation abstract listing with times and positions of major course and speed changes.
4. Custom plots in Mercator projection:
  - a) Track plots.
  - b) SeaBeam depth contour plots.
  - c) Depths, magnetic or gravity values printed or profiled along track.



**MOCE EXPEDITION LEG 5 (MOCE05MV)**

**CHIEF SCIENTIST:** Dennis Clark, Naval Ocean. & Atmos. Admin.

**PORTS:** San Diego - San Diego, Calif.

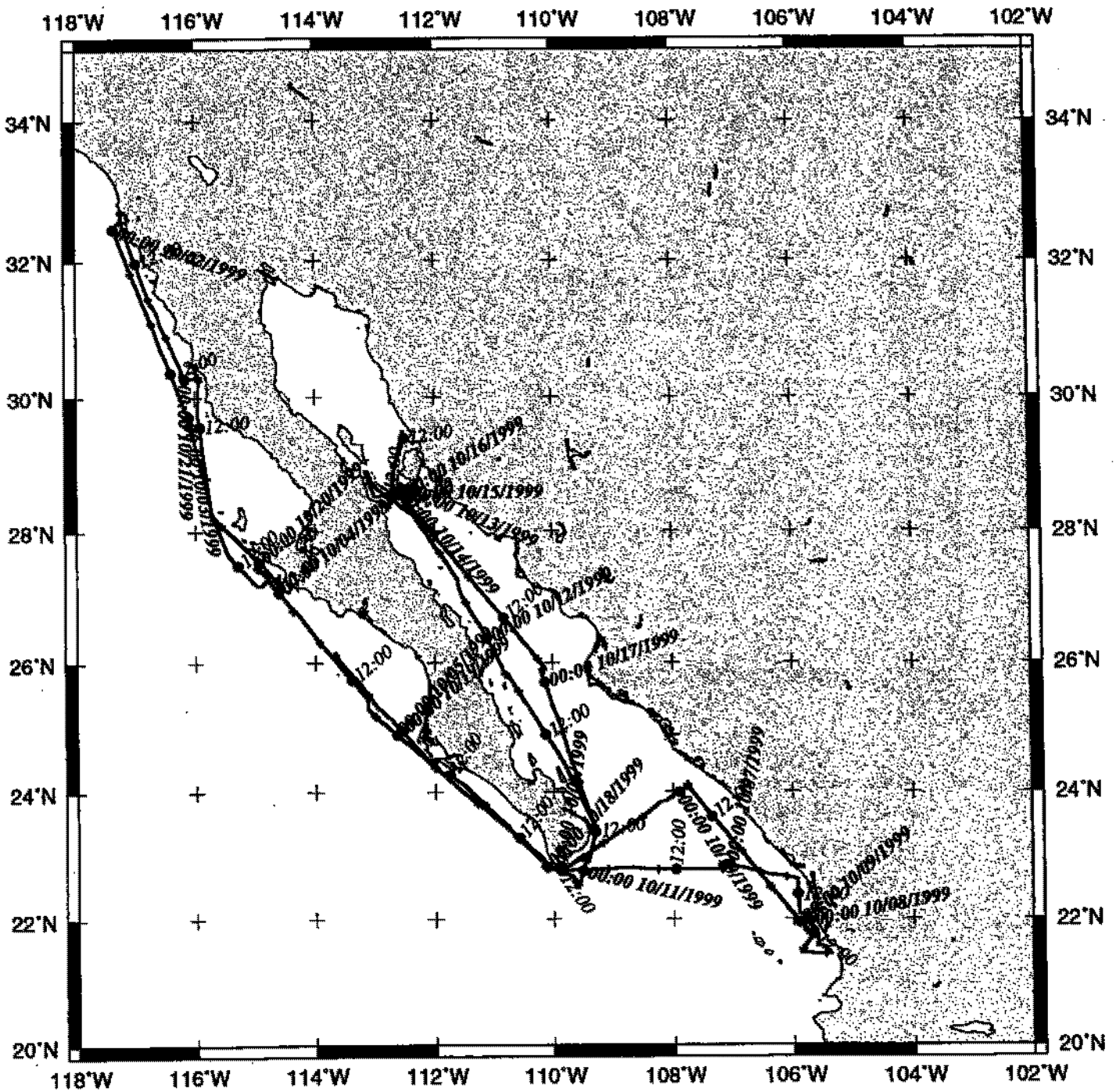
**DATES:** 01 - 21 October 1999

**SHIP:** R/V Melville

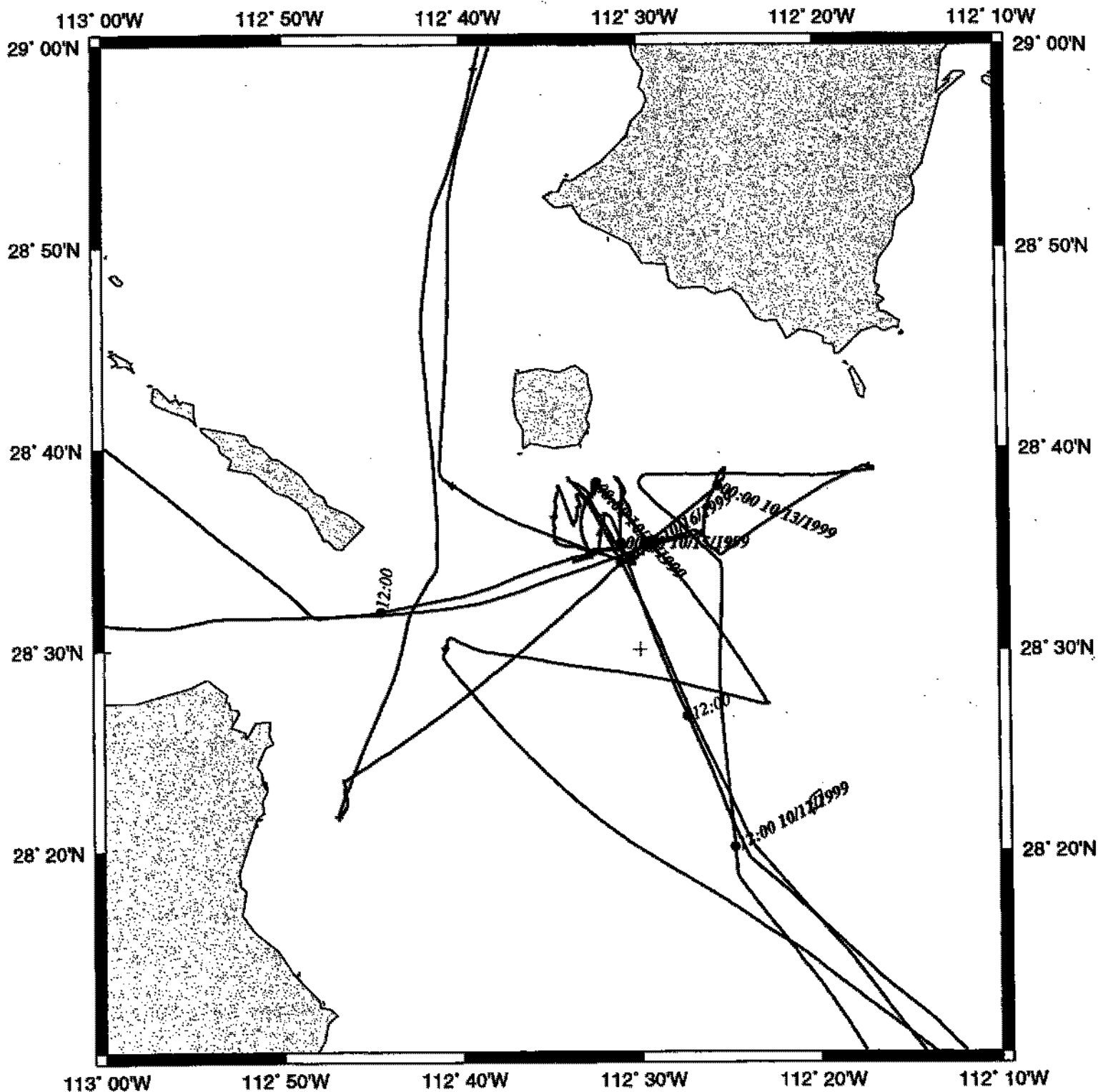
**TOTAL MILEAGE OF UNDERWAY DATA COLLECTED**

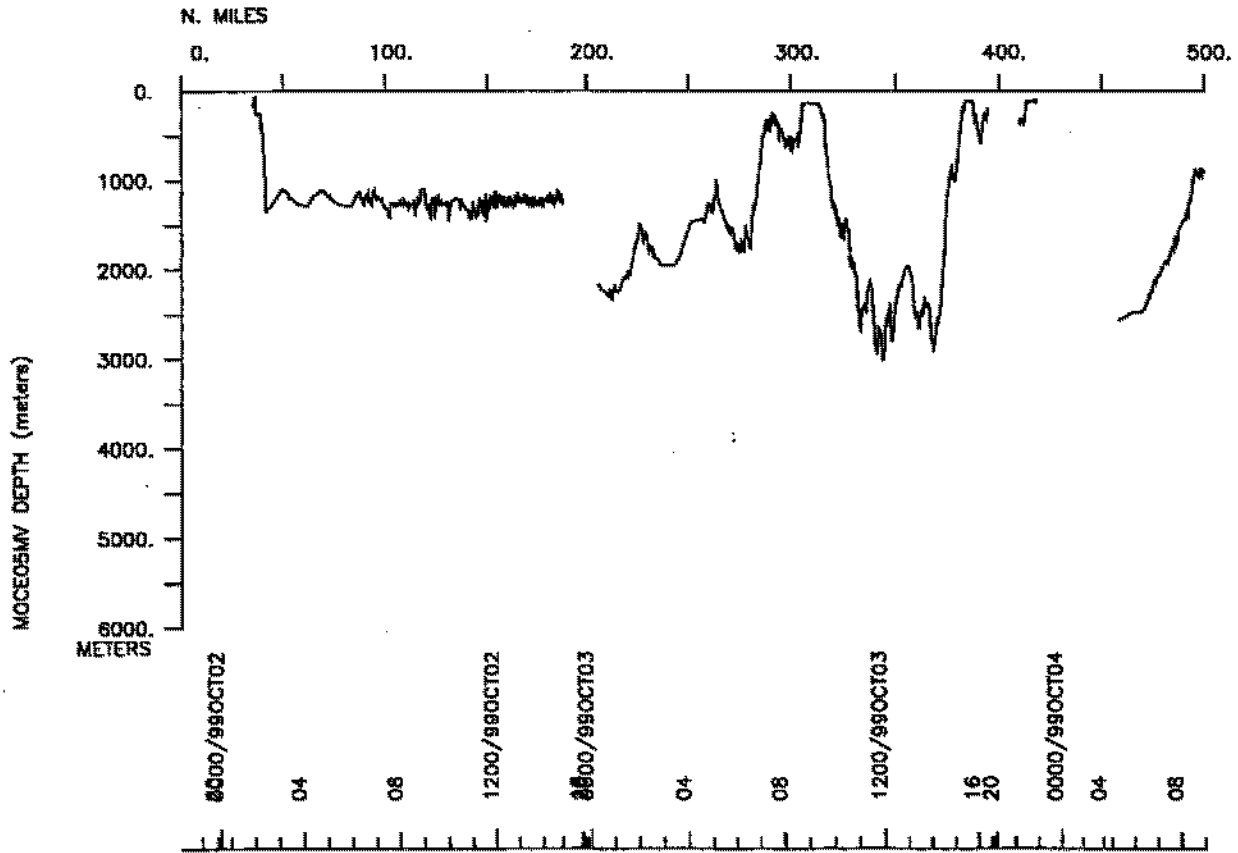
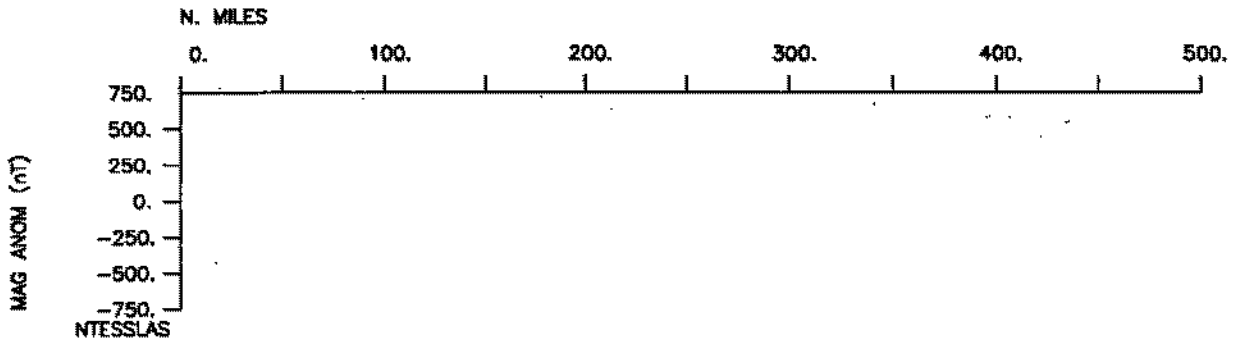
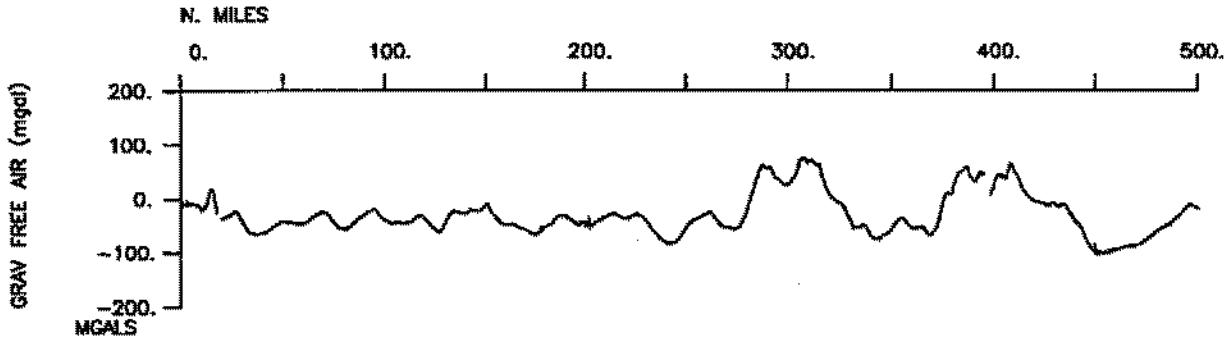
<b>Cruise - 3653 miles</b>	<b>Magnetics - none collected</b>
<b>Bathymetry - 2498 miles</b>	<b>Seismic Reflection - none collected</b>
<b>Sea Beam - 2498 miles</b>	<b>Gravity - 3523 miles</b>

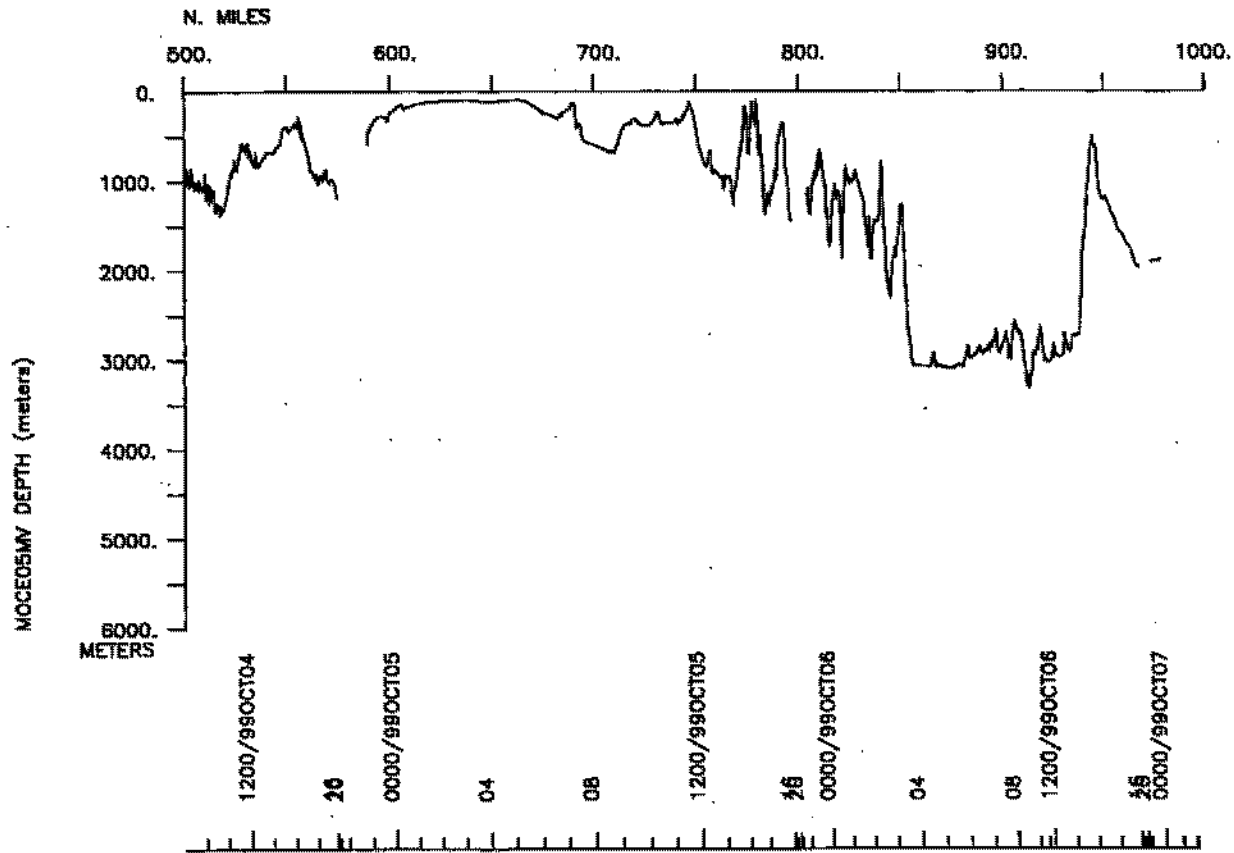
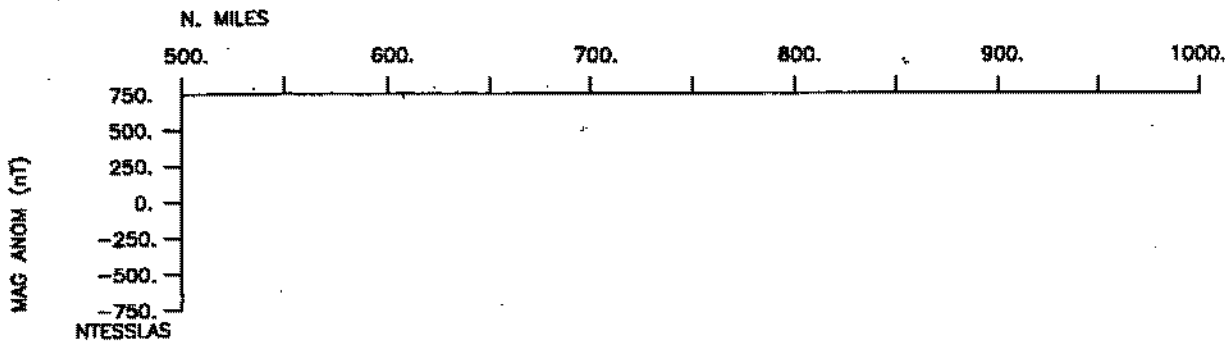
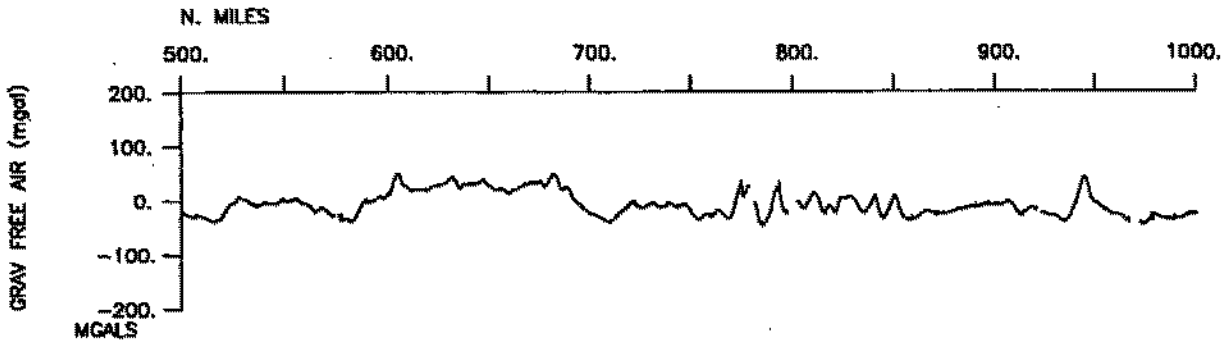
# MOCE Leg 5 Track

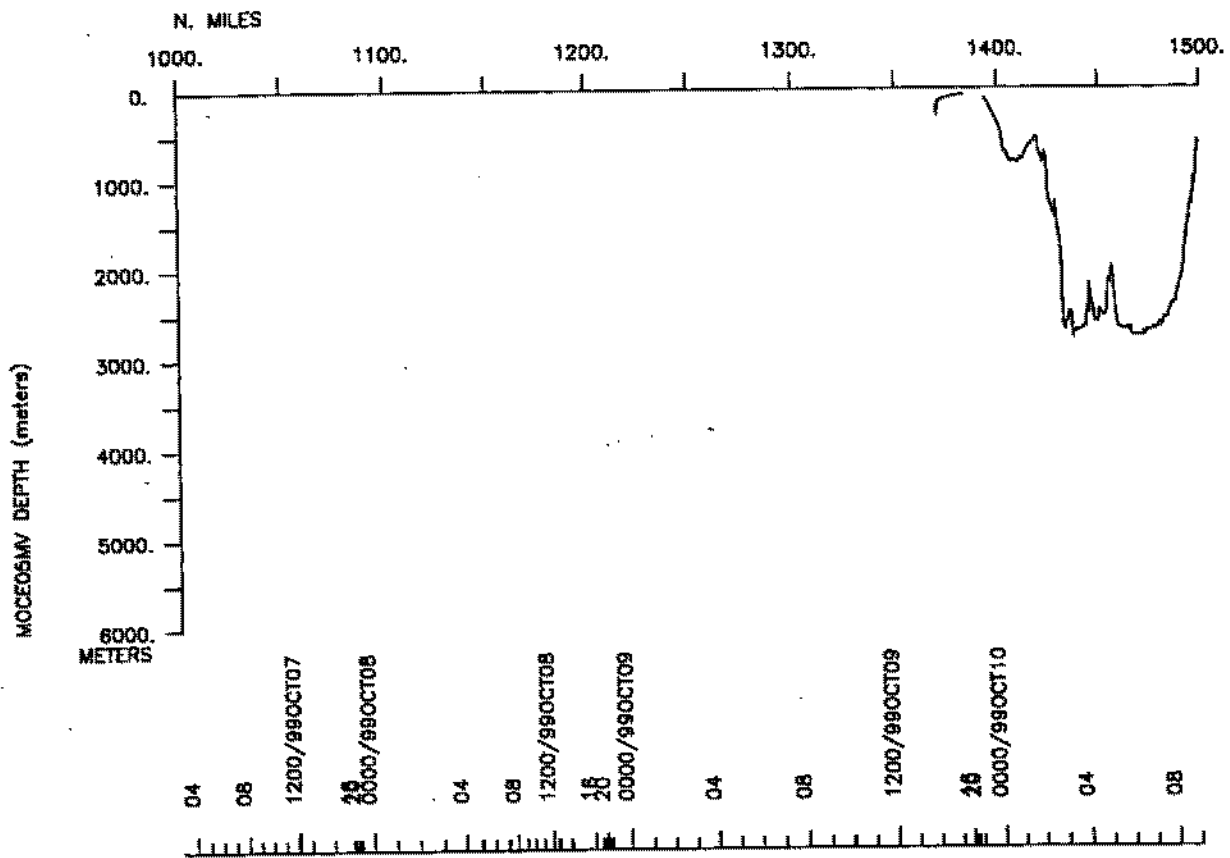
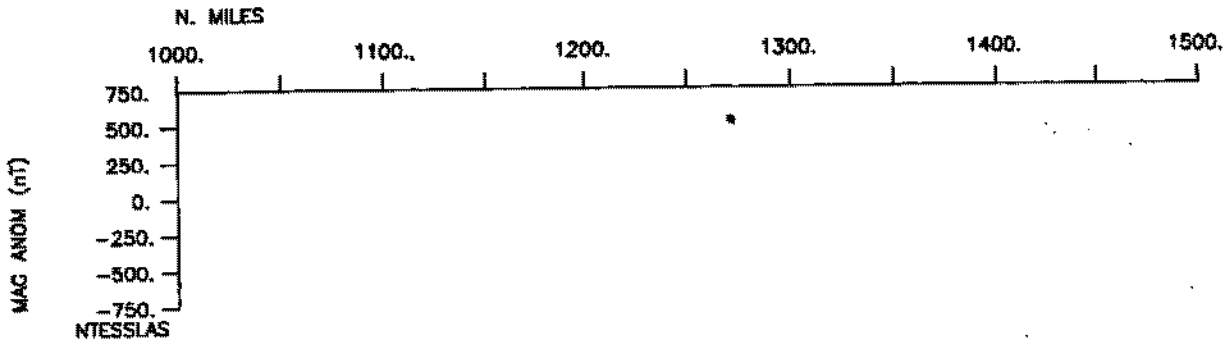


# MOCE Leg 5 survey

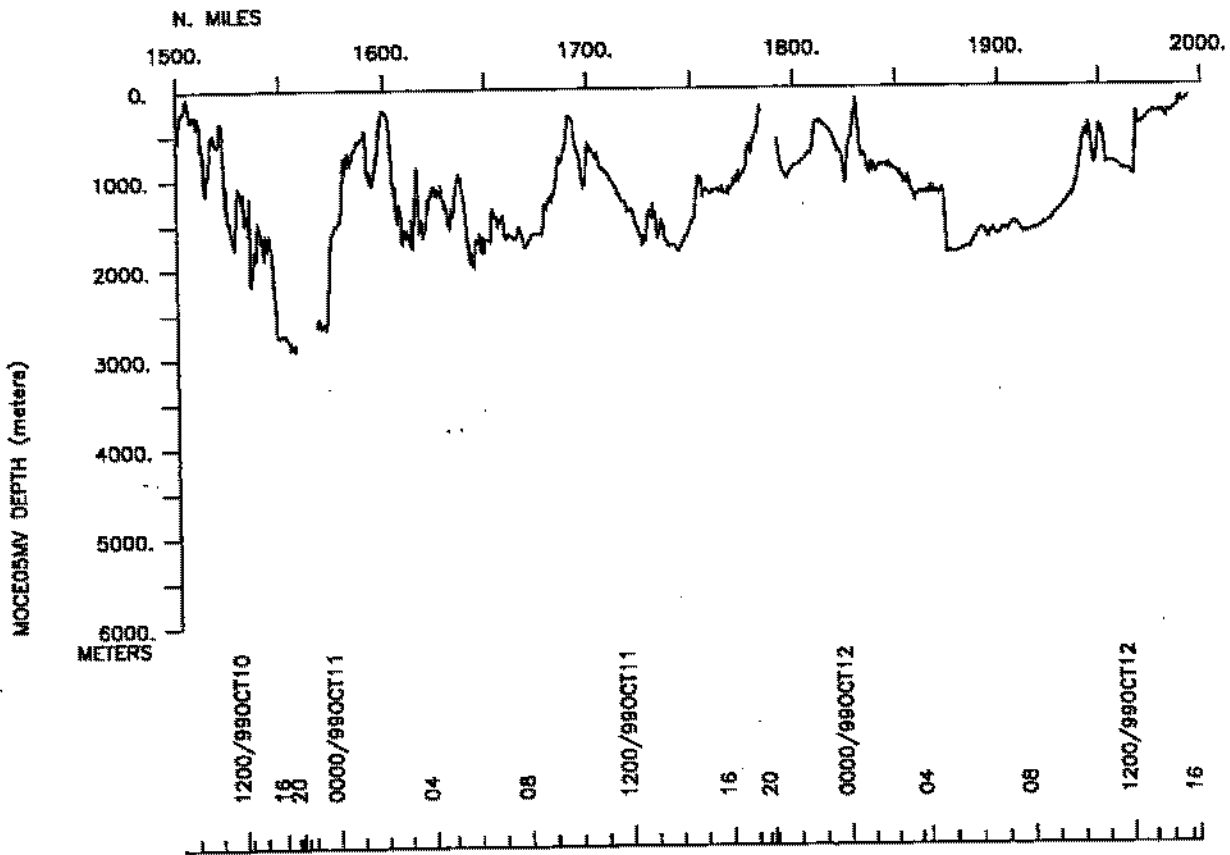
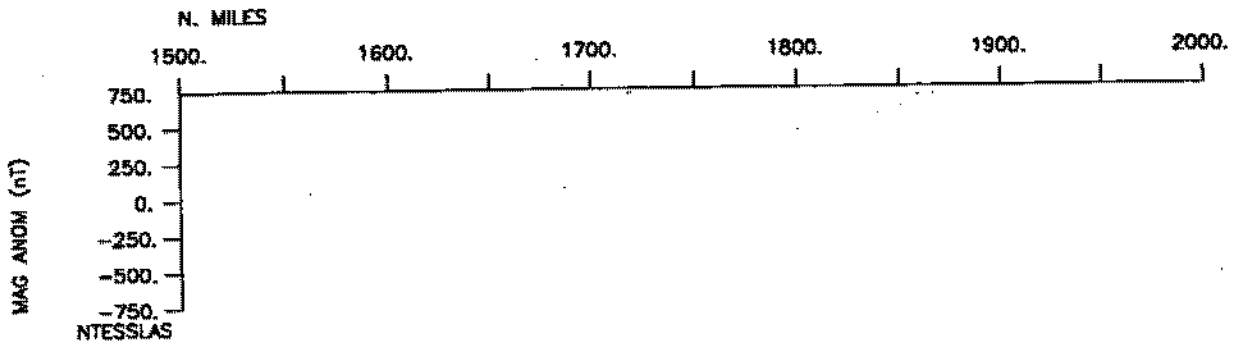
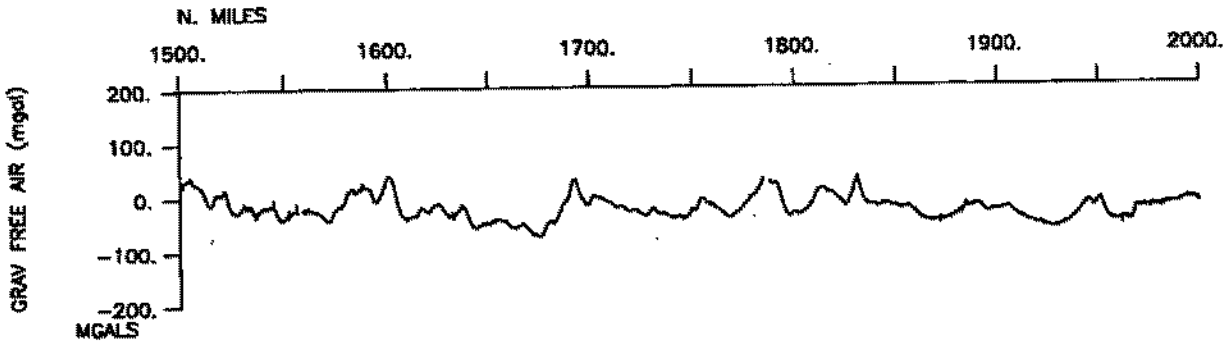


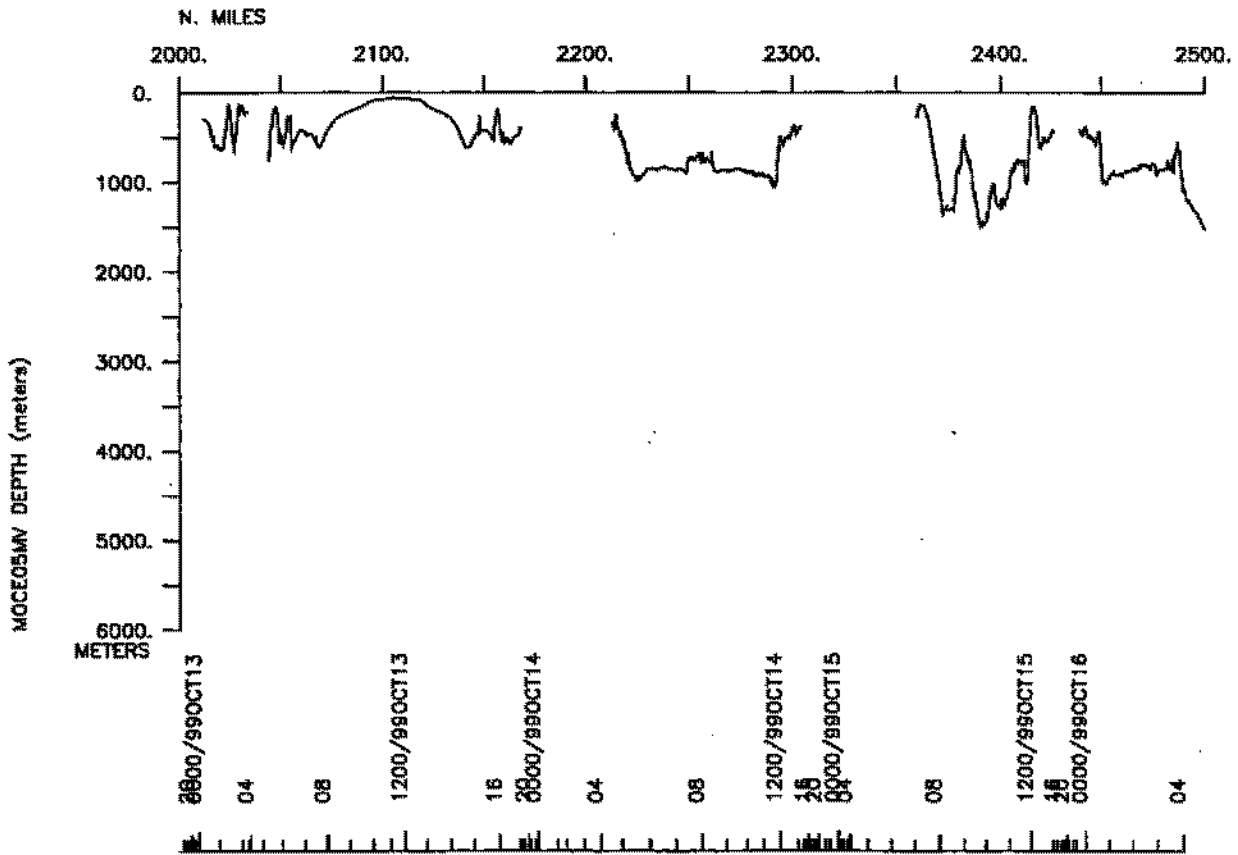
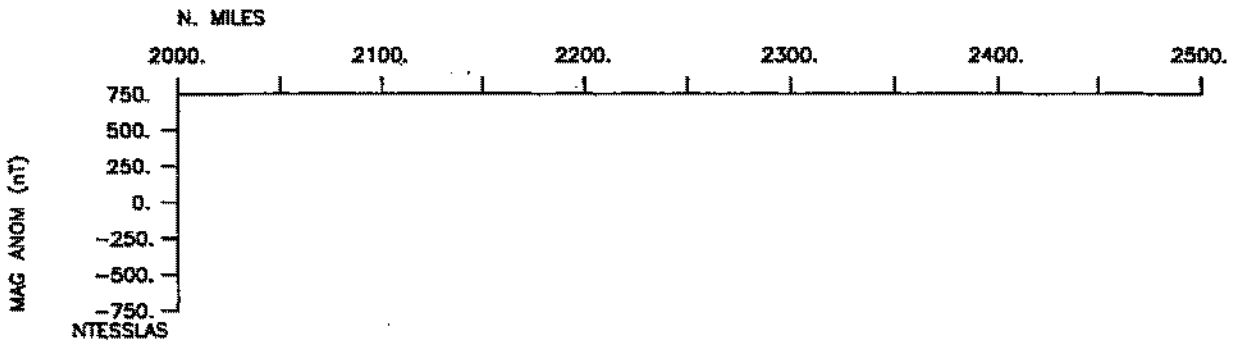
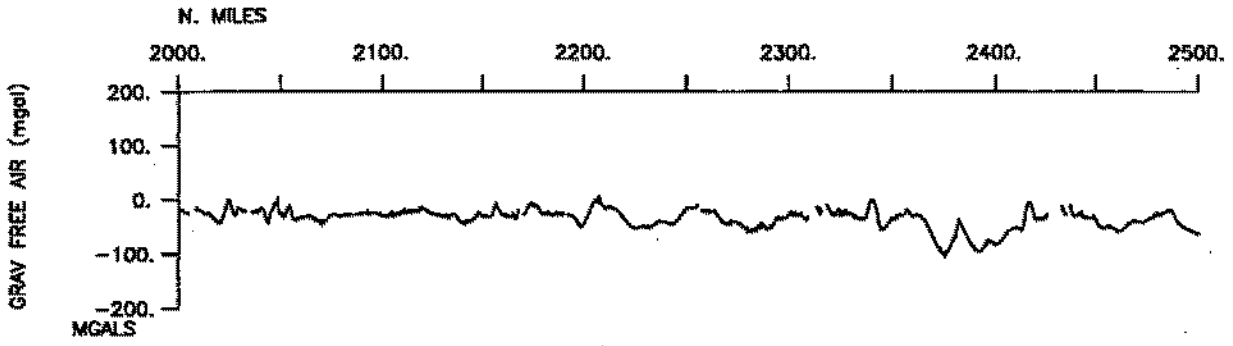


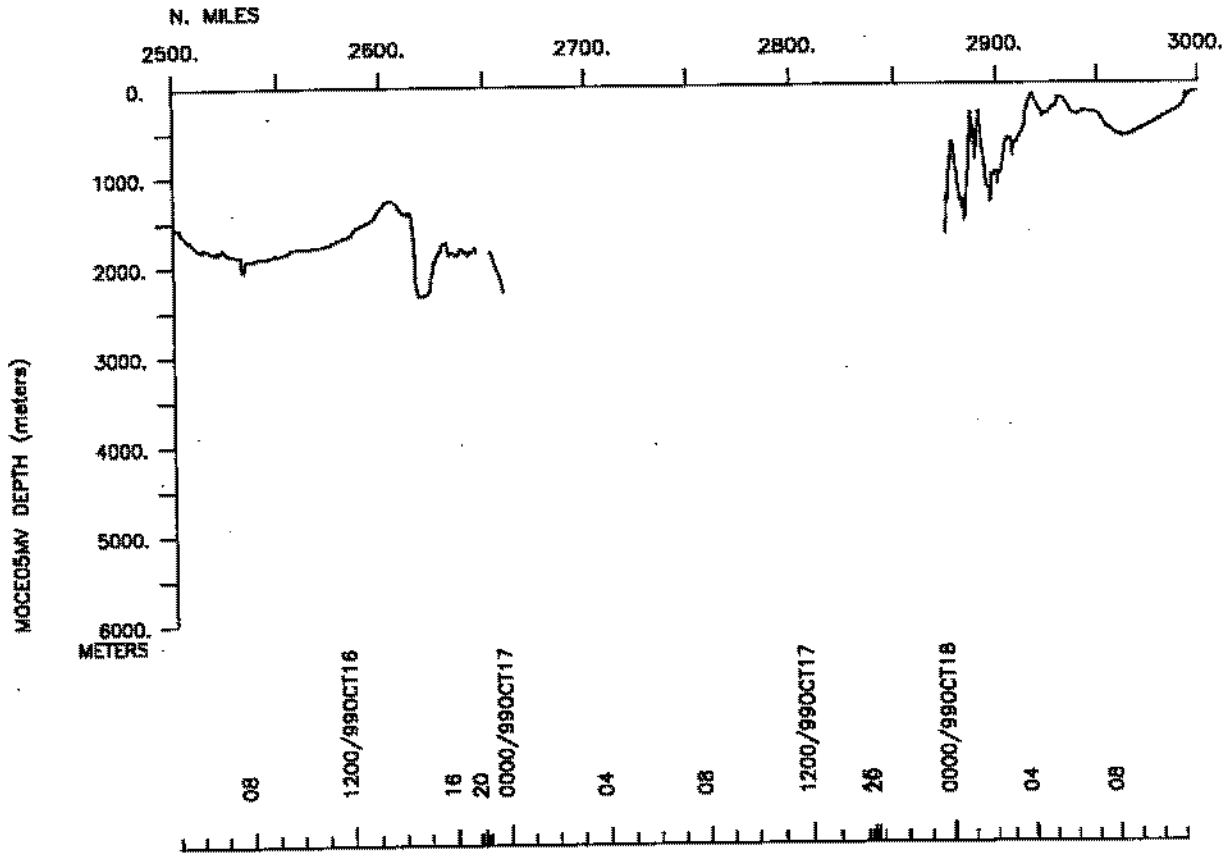
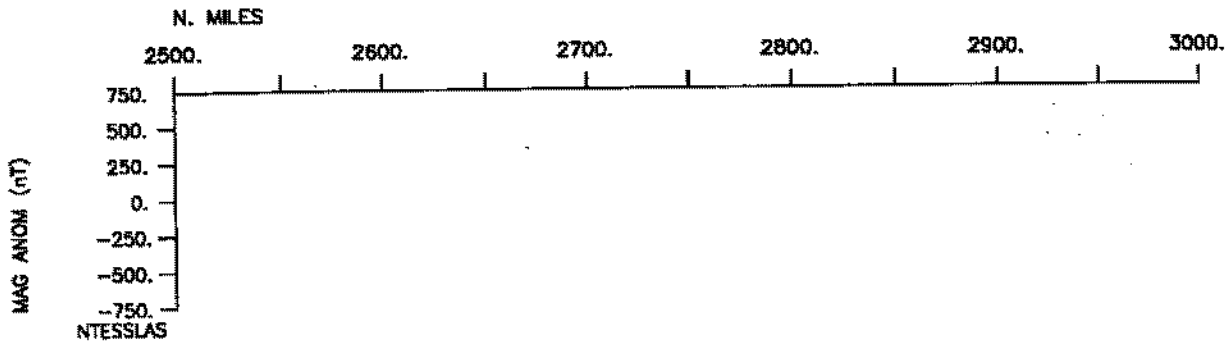
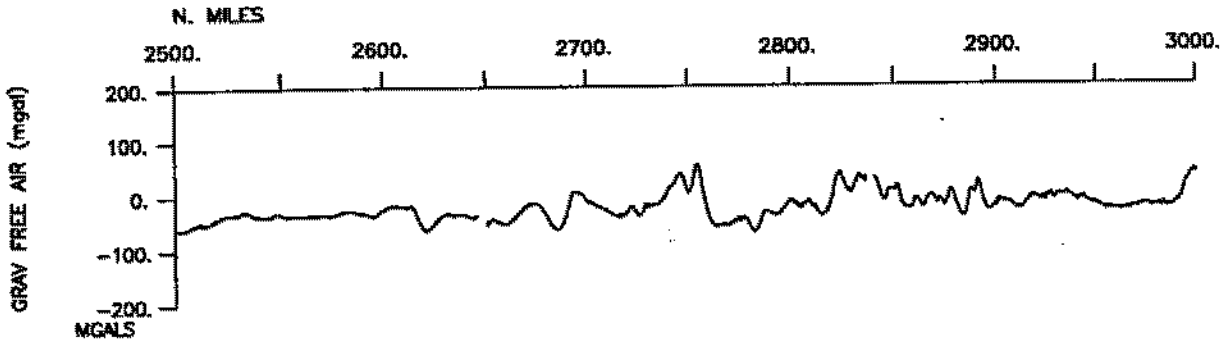


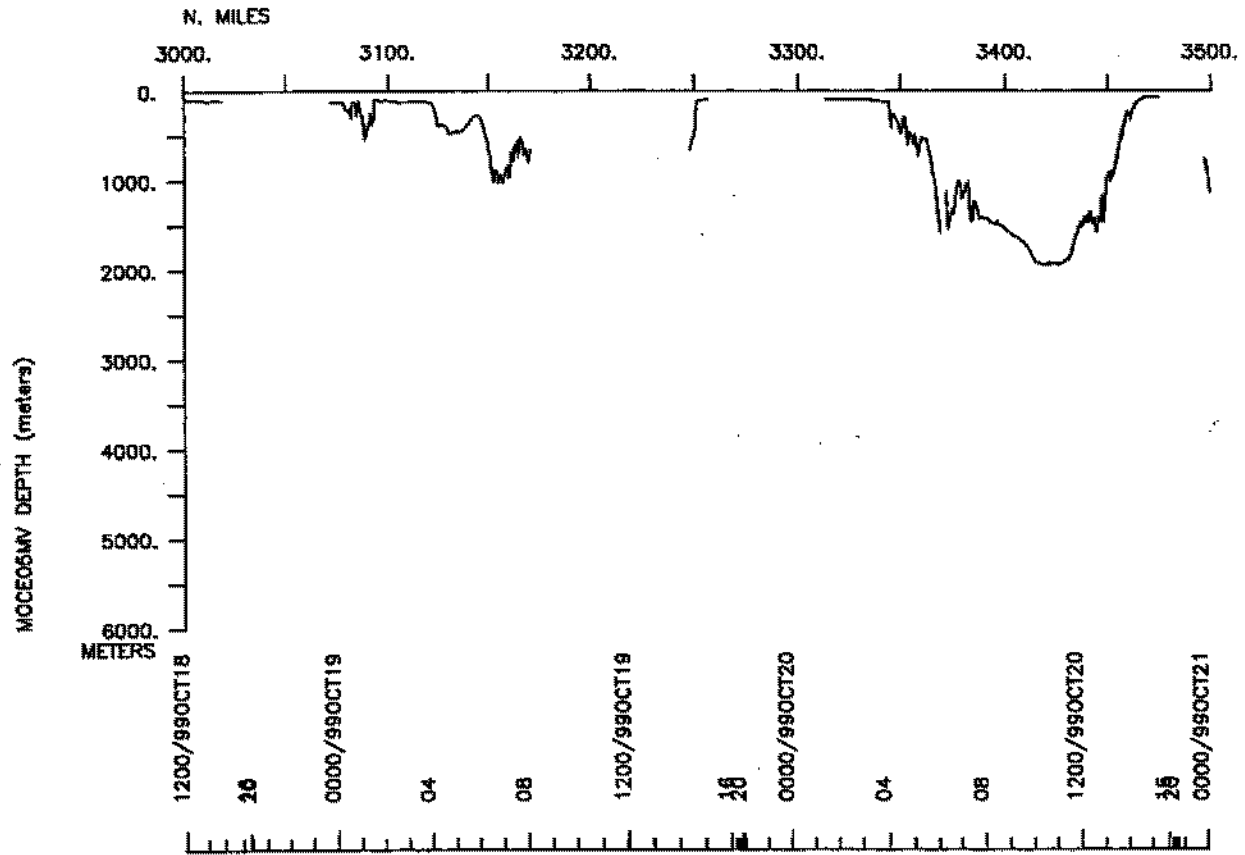
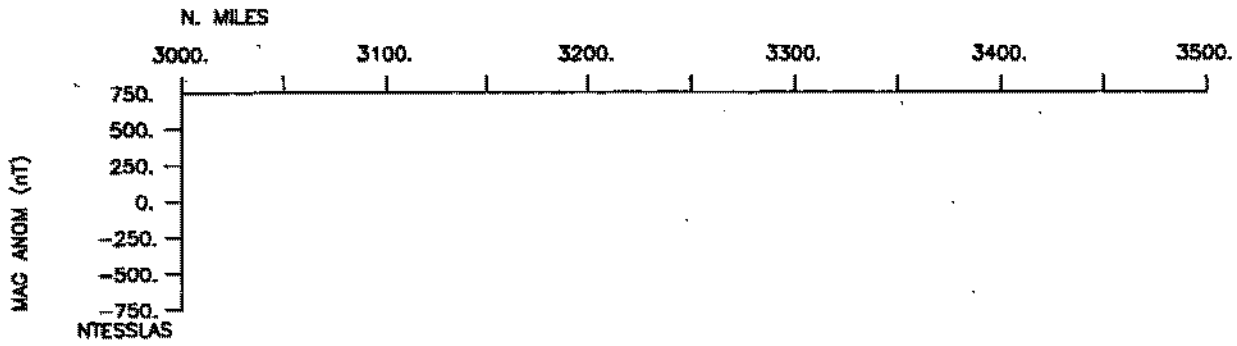
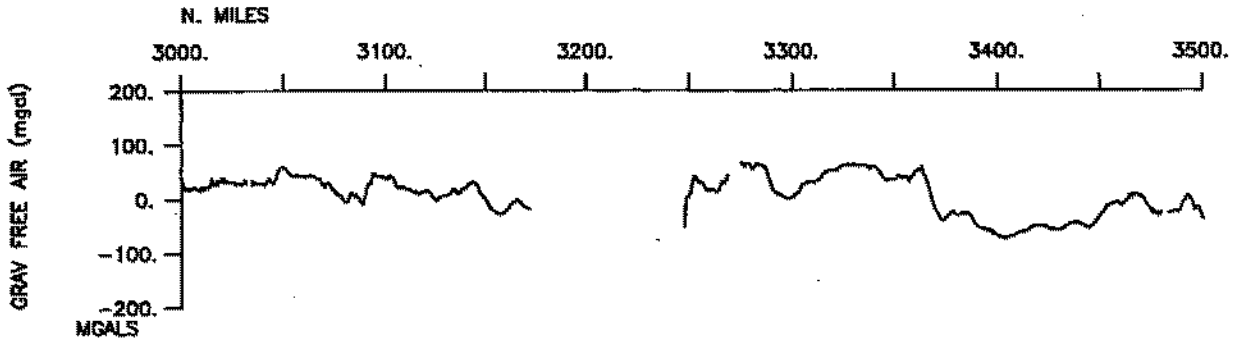


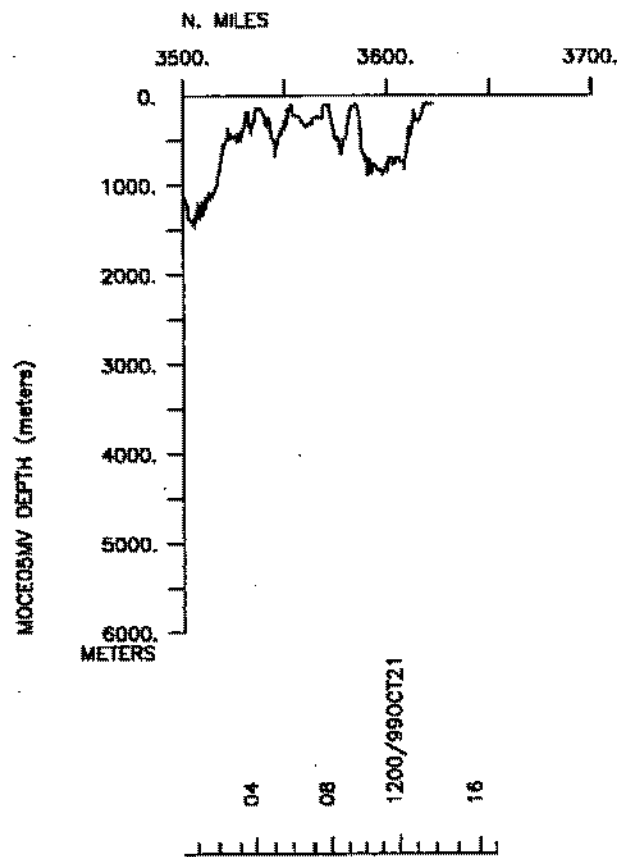
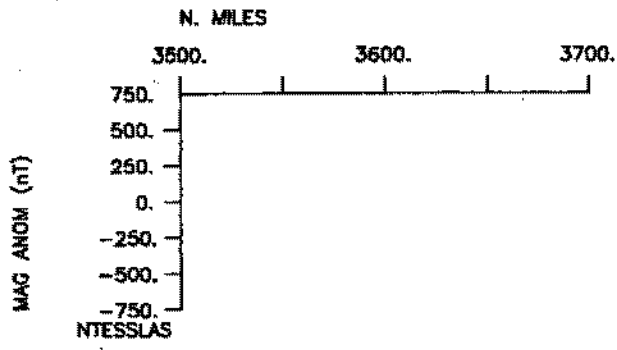
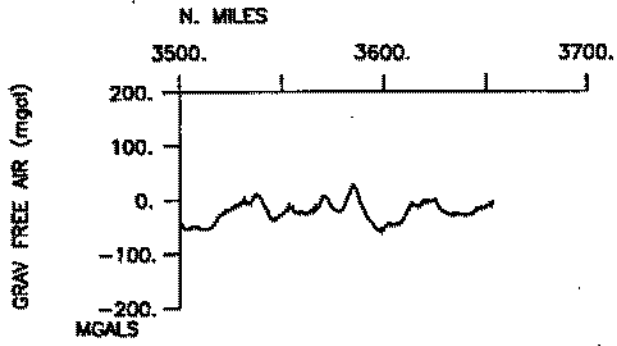












04 08 1200/99OCT21 16

**S.I.O. Sample Index**

**MOCE Expedition**

**Leg 5**

**(MOCE05MV)**

**R/V Melville**

**(Issued October 2000)**

**PORTS:**

San Diego, California (1 October 1999)  
to  
San Diego, California (21 October 1999)

**Chief Scientist:**

Dennis Clark, NOAA

*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 ID# 288

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

1500 011099 0 LGPT B San Diego, Calif 32-40.00N 117-14.00W f MOCE05MV  
 1709 211099 0 LGPT E San Diego, Calif 32-40.00N 117-14.00W f MOCE05MV

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

#	*****NAME*****	*****TITLE*****	*****AFFILIATION*****	**CRID**
PECS	NOAA Clark, Dennis	Chief scientist	Naval Ocean.Atmos.	MOCE05MV.
PESP	NOAA Fisher, Ed	Scientist	Naval Ocean.Atmos.	MOCE05MV
PESP	NOAA King, Edward	Scientist	Naval Ocean.Atmos.	MOCE05MV
PESP	NOAA Stengel, Eric	Scientist	Naval Ocean.Atmos.	MOCE05MV
PESP	NOAA Yuen, Marilyn	Scientist	Naval Ocean.Atmos.	MOCE05MV
PESP	SIX Koval, Larissa	Scientist	QSS	MOCE05MV
PESP	SIX Ondrusek, Mike	Scientist	QSS	MOCE05MV
PESP	SIX Feinholz, Mike	Scientist	SanDiego State Univ.	MOCE05MV
PESP	SIX Yarbrough, Mark	Scientist	SanDiego State Univ.	MOCE05MV
PESP	SIX Kinkade, Chris	Scientist	SanDiego State Univ.	MOCE05MV
PESP	SIX Trees, Chuck	Scientist	SanDiego State Univ.	MOCE05MV
PESP	UMI Evans, Robert	Scientist	Univ. of Miami	MOCE05MV
PESP	UMI Kearns, Edward	Scientist	Univ. of Miami	MOCE05MV
PESP	UMI Voss, Ken	Scientist	Univ. of Miami	MOCE05MV
PESP	SIX Ward, Brian	Scientist	NERSC	MOCE05MV
PESP	OSU Leteiler, Ricardo	Scientist	Oregon State Univ.	MOCE05MV
PESP	OSU Mengelt, Claudia	Scientist	Oregon State Univ.	MOCE05MV
PESP	OSU Searson, Sarah	Scientist	Oregon State Univ.	MOCE05MV
PESP	SIX Zhong, Ping Lee	Scientist	U. of South Florida	MOCE05MV
PESP	MEX Alvarea-Borrego, S.	Scientist	CICESSE	MOCE05MV
PESP	MEX Millan-Nunez, E.	Scientist	CICESSE	MOCE05MV
PESP	MEX Santamaria, E.	Scientist	CICESSE	MOCE05MV
PESP	MEX Gilos, Alma	Scientist	CICESSE	MOCE05MV
PEST	SIX Flora, Stephanie	Grad. student	Moss Landing Lab.	MOCE05MV
PEST	SIX Kay, Rachel	Grad. student	Moss Landing Lab.	MOCE05MV
PEST	SIX Peters, Darryl	Grad. student	Moss Landing Lab.	MOCE05MV
PERT	STS Butler, Lynne	Resident tech	Scripps Institution	MOCE05MV
PECT	STS Jacobson, Dan	Computer tech	Scripps Institution	MOCE05MV

\*\*\*\* 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 - Geological Data Center ext. 41899 \*

\*\*\*\* Sea Beam Data \*\*\*\*

1500 011099 0 MBSR B v.beam&sidescan GDC 32-42.40N 117-14.18W g MOCE05MV  
 1349 211099 0 MBSR E v.beam&sidescan GDC 32-12.80N 117-05.70W g MOCE05MV

D

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

\*\*\* Gravity \*\*\*

1500	011099	0	GVDR	B gravity - digital	GDC	32-42.40N	117-14.18W	g		MOCE05MV
1709	211099	0	GVDR	E gravity - digital	GDC	32-42.40N	117-14.18W	g		MOCE05MV

\*\*\* Acoustic Doppler Current Profiler \*\*\*

1500	011099	0	ADCP	B ADCP data	GDC	32-42.40N	117-14.18W	g		MOCE05MV
1700	211099	0	ADCP	E ADCP data	GDC	32-42.35N	117-14.12W	g		MOCE05MV

\*\*\* Integrated Meteorological Acquisition System \*\*\*

1500	011099	0	IMET	B weather data	GDC	32-42.40N	117-14.18W	g		MOCE05MV
1700	211099	0	IMET	E weather data	GDC	32-42.35N	117-14.12W	g		MOCE05MV

\*\*\* End Sample Index MOCE05MV