

REPORT AND INDEX OF
UNDERWAY MARINE GEOPHYSICAL DATA

AVON EXPEDITION

LEG 11

(AVON11MV)

R/V Melville

(Issued October 1999)

Ports:

San Francisco, California (14 August 1999)

to

Eureka, California (18 August 1999)

Chief Scientist:

James Mercer - University of Washington
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Computer Technicians - Ron Moe, John Chatwood
Resident Marine Techs - Tammy Koonce, Robert Willson

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.# 284

**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.

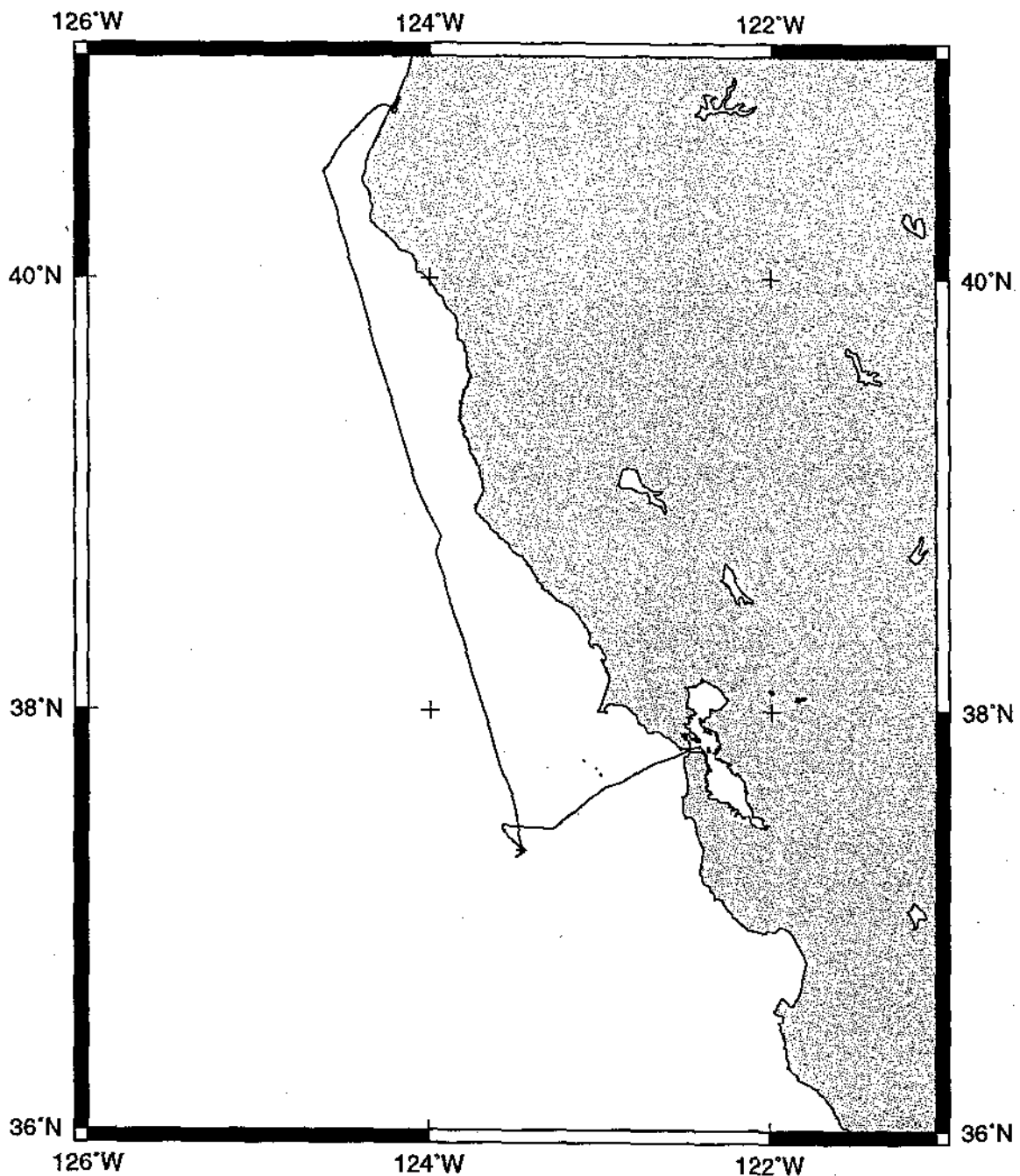
NOTE: One or more of the underway data types may not be collected on a given leg. For information on the availability and reproduction costs of data in the following forms, contact S.M. Smith, Curator, Geological Data Center, Scripps Institution of Oceanography, La Jolla, California 92093-0223. Phone: (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.



AVON EXPEDITION LEG 11 (AVON11MV)

CHIEF SCIENTIST: James Mercer, University of Washington

PORTS: San Francisco - Eureka, California

DATES: 14 - 18 August 1999

SHIP: R/V Melville

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

Cruise - 324 miles

Magnetics - none collected

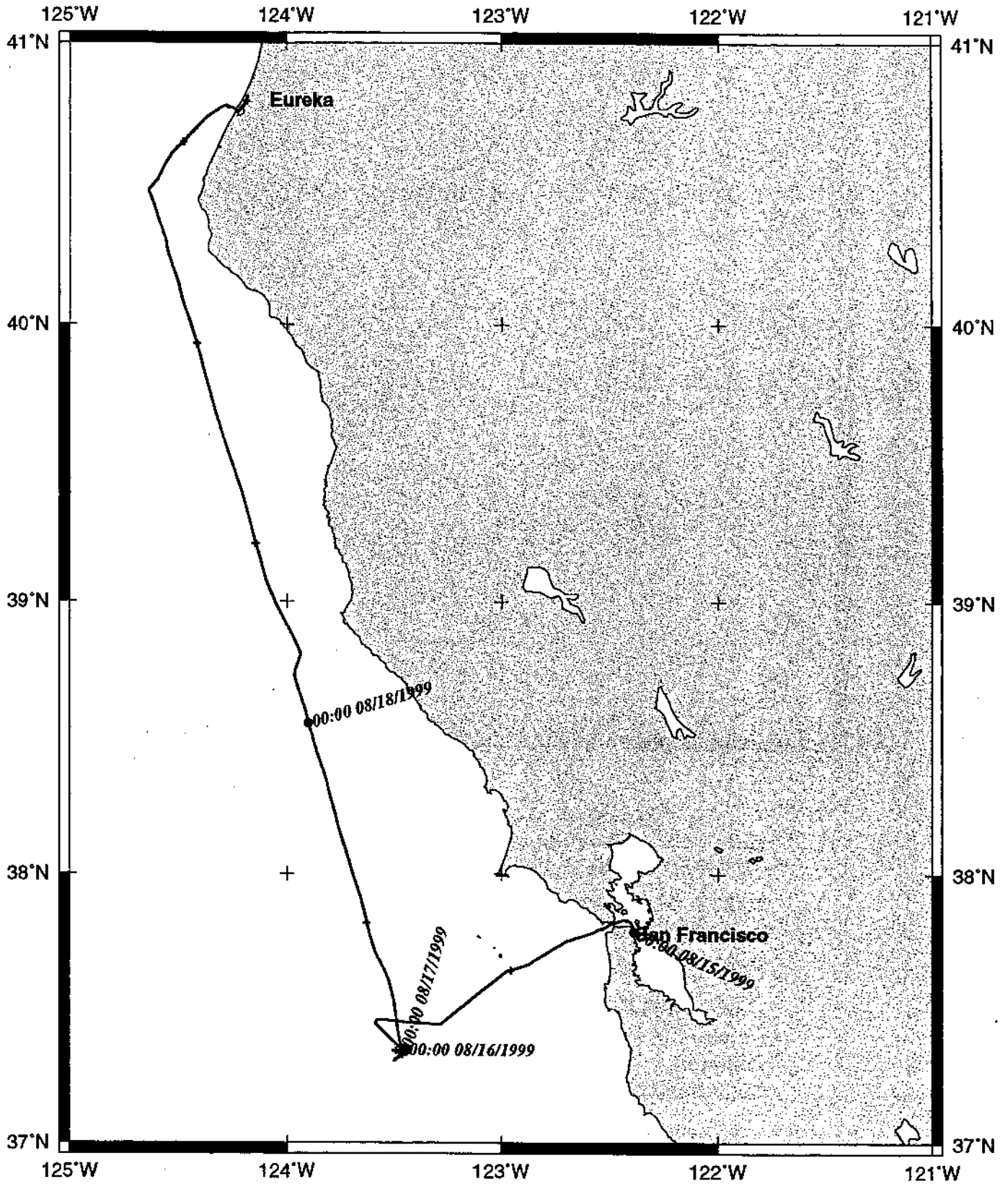
Bathymetry - 259 miles

Seismic Reflection - none collected

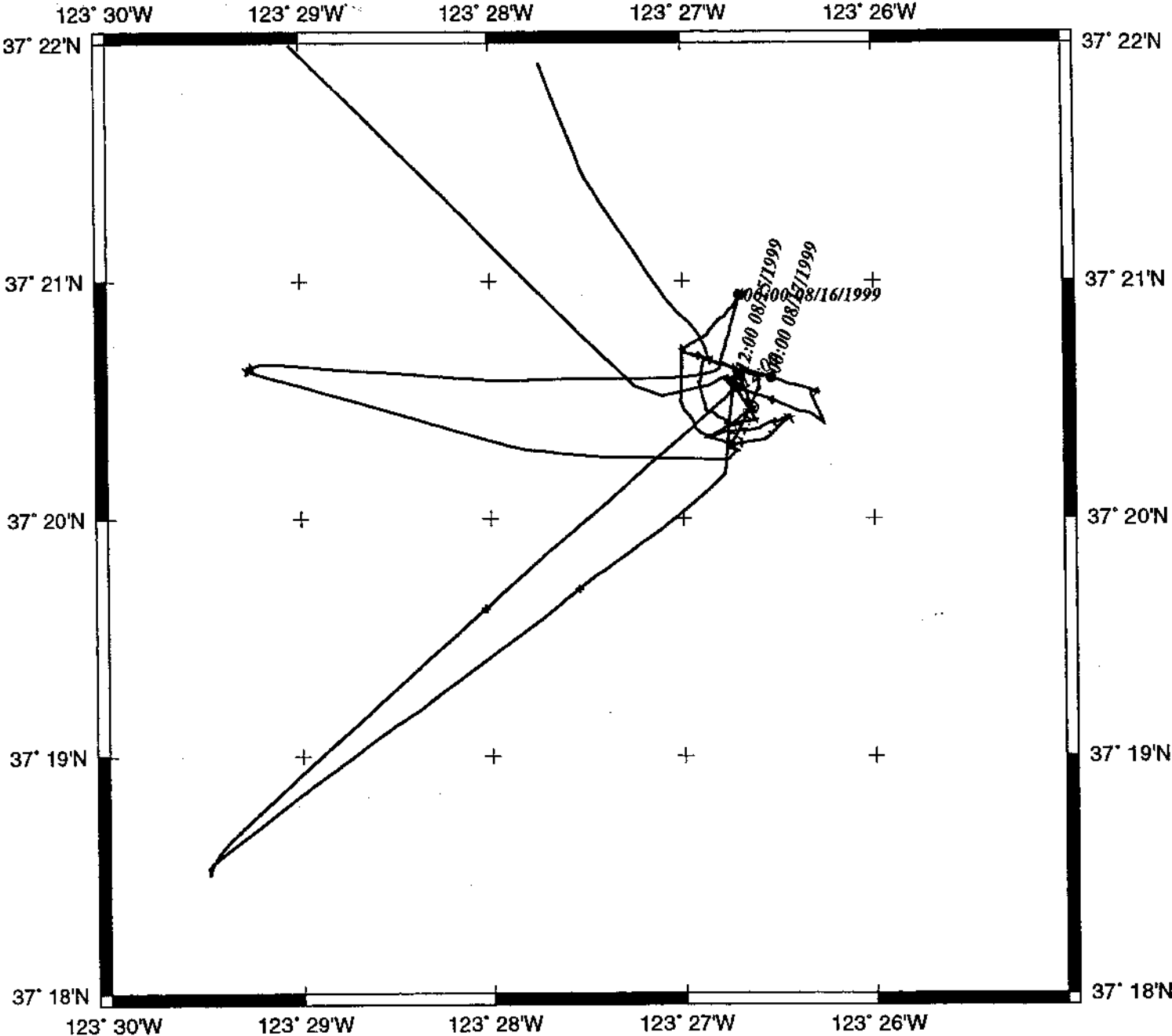
Sea Beam - 259 miles

Gravity - 320 miles

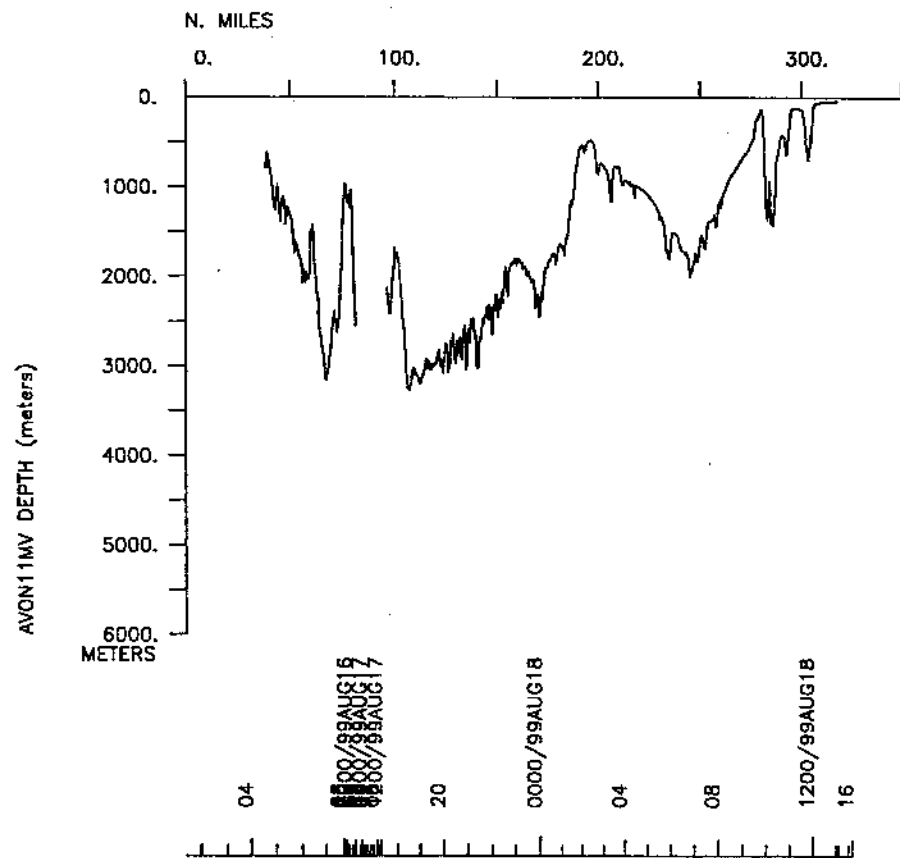
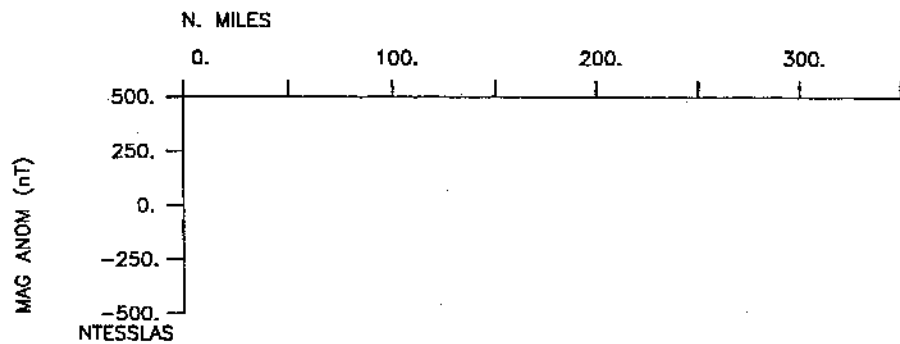
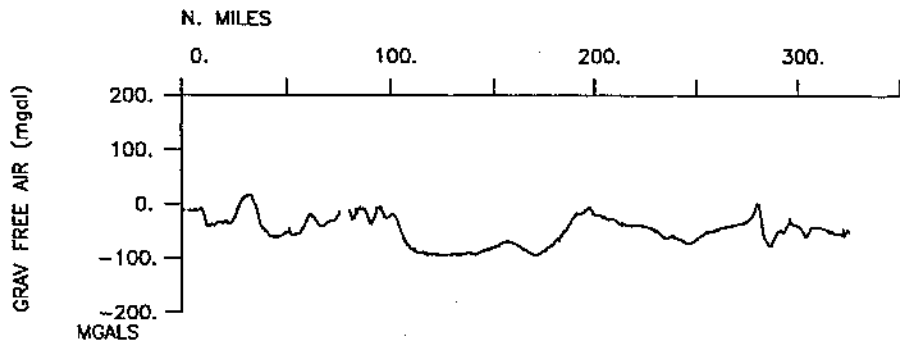
AVON Leg 11 Track



AVON Leg 11 Survey



AVON11MV



S.I.O. SAMPLE INDEX

AVON EXPEDITION

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James Mercer, University of Washington

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.# 284

**** Ports ****

0110 140899 0 LGPT E San Francisco, Ca. GDC 37-47.18N 122-23.06W g AVON11MV
 1530 180899 0 LGPT B Eureka, Calif. GDC 40-47.67N 124-11.28W g AVON11MV

**** Personnel ****

#	*****NAME*****	*****TITLE*****	*****AFFILIATION*****	**CRID**
PECS UWA	Mercer, J.	Chief Scientist	Univ. of Washington	AVON11MV
PESP UWA	Olson, L.	Pr. Mech. Eng.	Univ. of Washington	AVON11MV
PESP UWA	Boget, E.	Mech. Tech	Univ. of Washington	AVON11MV
PESP UWA	Aguilar, P.	Mech. Tech	Univ. of Washington	AVON11MV
PESP SIO	Worcester, P.	Scientist	Scripps Institution	AVON11MV
PESP SIO	Hardy, K.	Engineer	Scripps Institution	AVON11MV
PECT SCG	Moe, R.	Sr Computer Tech	Scripps Institution	AVON11MV
PECT SCG	Chatwood, J.	Computer Tech	Scripps Institution	AVON11MV
PERT STS	Koonce, T.	Resident Tech	Scripps Institution	AVON11MV
PESP SIO	Wilson, B.	Resident Tech	Scripps Institution	AVON11MV
PESP SIO	Gallagher, J.	Apprentice ResTec	Scripps Institution	AVON11MV

**** 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 - Geological Data Center x42752 ****

**** Log Books ****

0110 150899 0 LBUW B partial underway log GDC 37-47.18N 122-23.06W g AVON11MV
 1437 180899 0 LBUW E partial underway log GDC 40-46.41N 124-16.02W g AVON11MV

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

0432 150899 0 MBSR B v.beam&sidescan r-01 GDC 37-35.04N 123-03.93W g AVON11MV
 1311 180899 0 MBSR E v.beam&sidescan r-01 GDC 40-46.65N 124-16.67W g AVON11MV

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

0110 150899 0 ADCP B Accoustic Doppler GDC 37-47.18N 122-23.06W g AVON11MV
 1544 180899 0 ADCP E Current Profiler GDC 40-47.67N 124-11.27W g AVON11MV

**** Integrated Meteorological Data Acquisition System ****

0110 150899 0 IMET B Underway Weather GDC 37-47.18N 122-23.06W g AVON11MV
 1544 180899 0 IMET E Data Collection GDC 40-47.67N 124-11.27W g AVON11MV

**** End Sample Index AVON11MV