REPORT AND INDEX OF

UNDERWAY MARINE GEOPHYSICAL DATA

NAVO EXPEDITION

(NV9702MV)

(R/V Melville)

(Issued October 1998)

Ports:

Eureka, California (18 July 1997)

to

Eureka, California (28 July 1997)

Chief Scientist:

Charles Nittrouer, State University of New York
email: cnittrouer@ccmail.sunysb.edu

Resident Technician - Robert Wilson
Computer Technician - Dan Jacobson

Post-Cruise Processing and Report Preparation by the
Geological Data Center, Scripps Institution of Oceanography
La Jolla, California 92093-0223
GDC email:gdcinfo@gdcmp1.ucsd.edu

GDC Cruise I.D.# 275

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

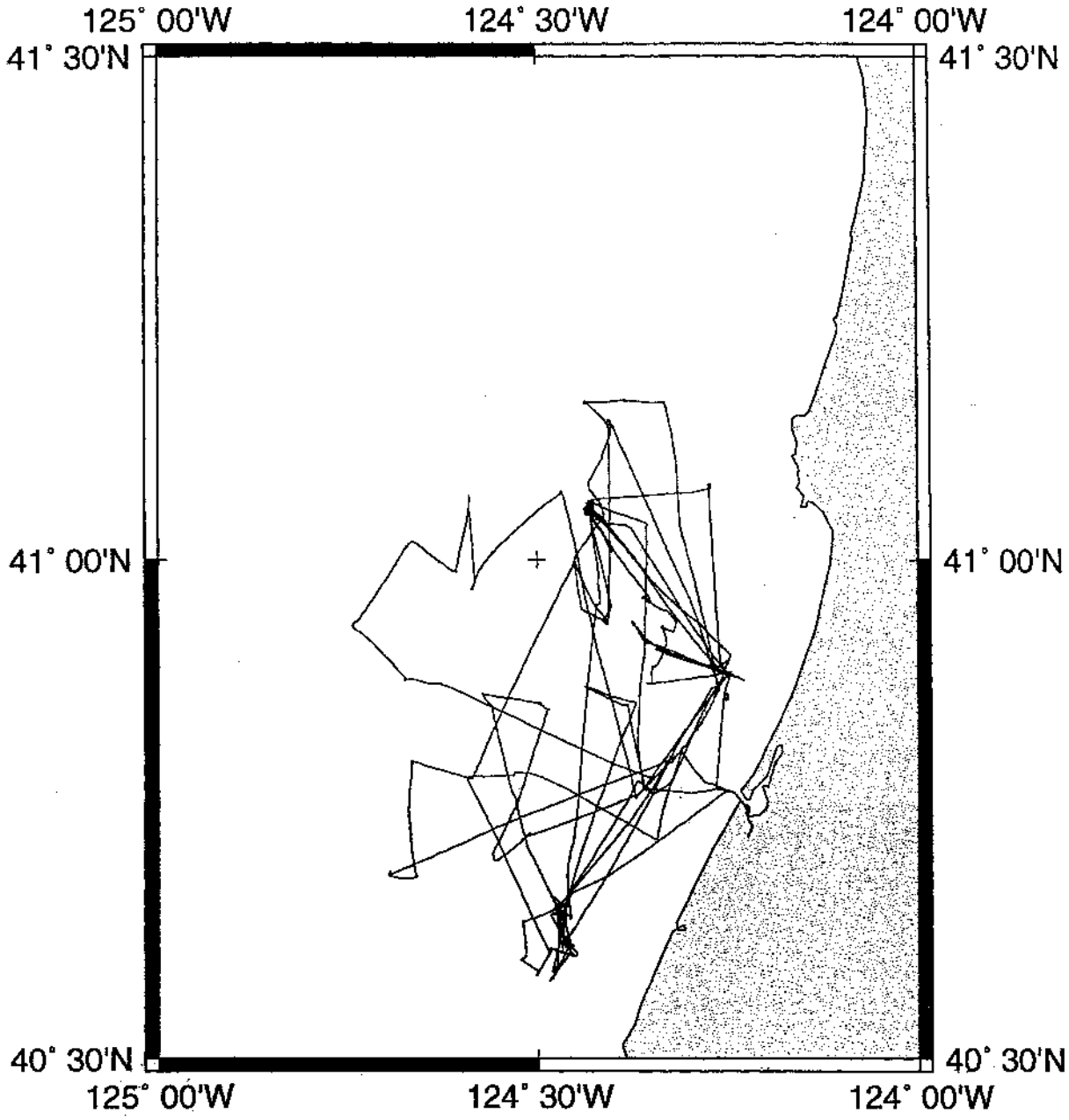
1. Files via ftp or on 8mm (Exabyte) and 4mm (DAT) magnetic tape:
   a) Separate time series ASCII files of navigation, single beam depth, gravity and magnetics.
   b) Above data in a single merged ASCII file in the MGD77 Exchange Format.
   c) SeaBeam depth data (binary, Sun byte order)
   d) SeaBeam 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.

rev 4/98



NAVO EXPEDITION NV9702

CHIEF SCIENTIST: Charles Nittrouer, SUNY

PORTS: Eureka - Eureka, California

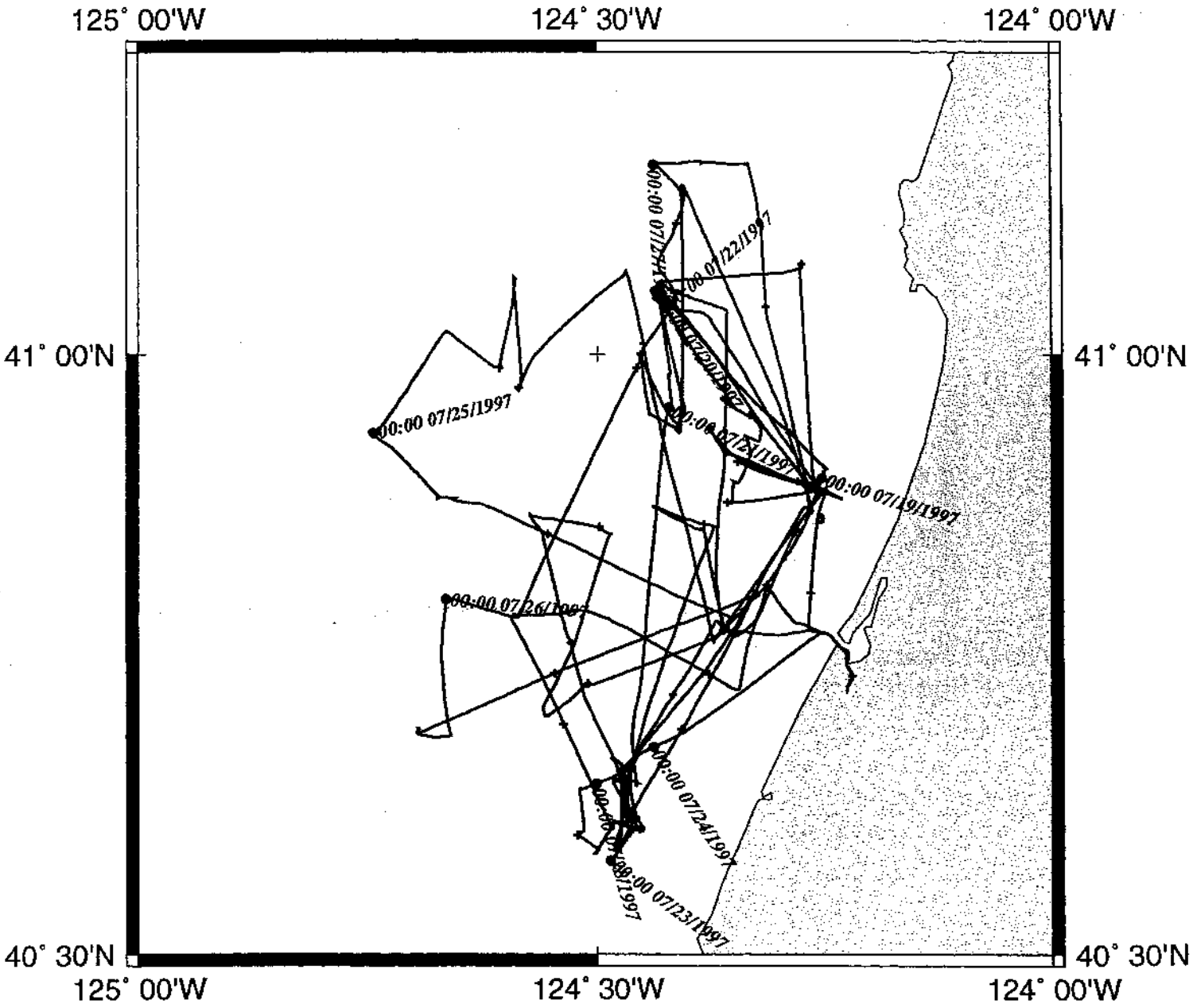
DATES: 18 - 28 July 1997

SHIP: R/V Melville

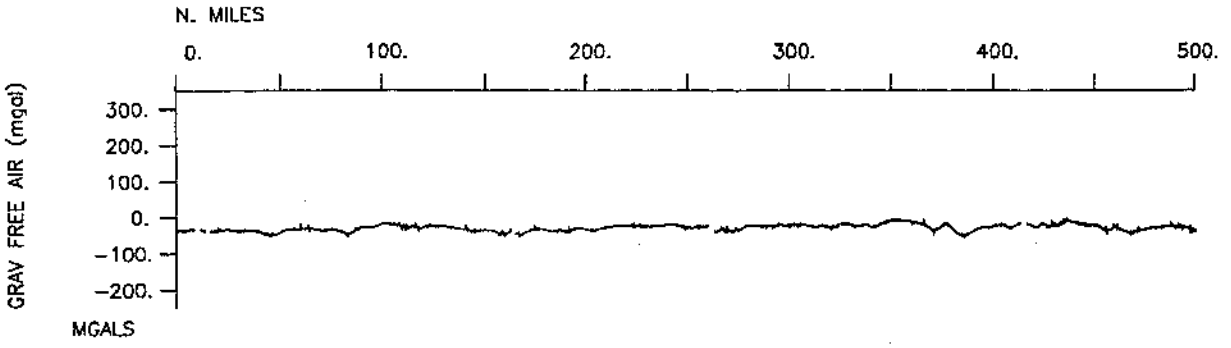
TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

Cruise - 650 miles	**Magnetics - none collected**
Bathymetry - none collected	**Seismic Reflection - none collected**
Sea Beam - none collected	**Gravity - 650 miles**

NV9702MV Track



GMT Sep 29 09:04 :Eureka - Eureka, Calif. 18 - 28 July 1997: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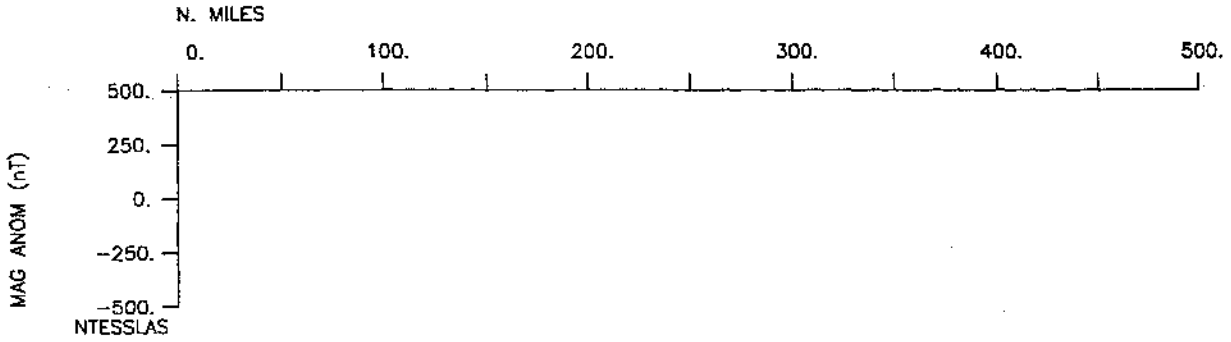
100.
200.
300.
400.
500.
GRAV FREE AIR (mgal)
300.
200.
100.
0.
-100.
-200.
MGALS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400.
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MAG ANOM (nT)
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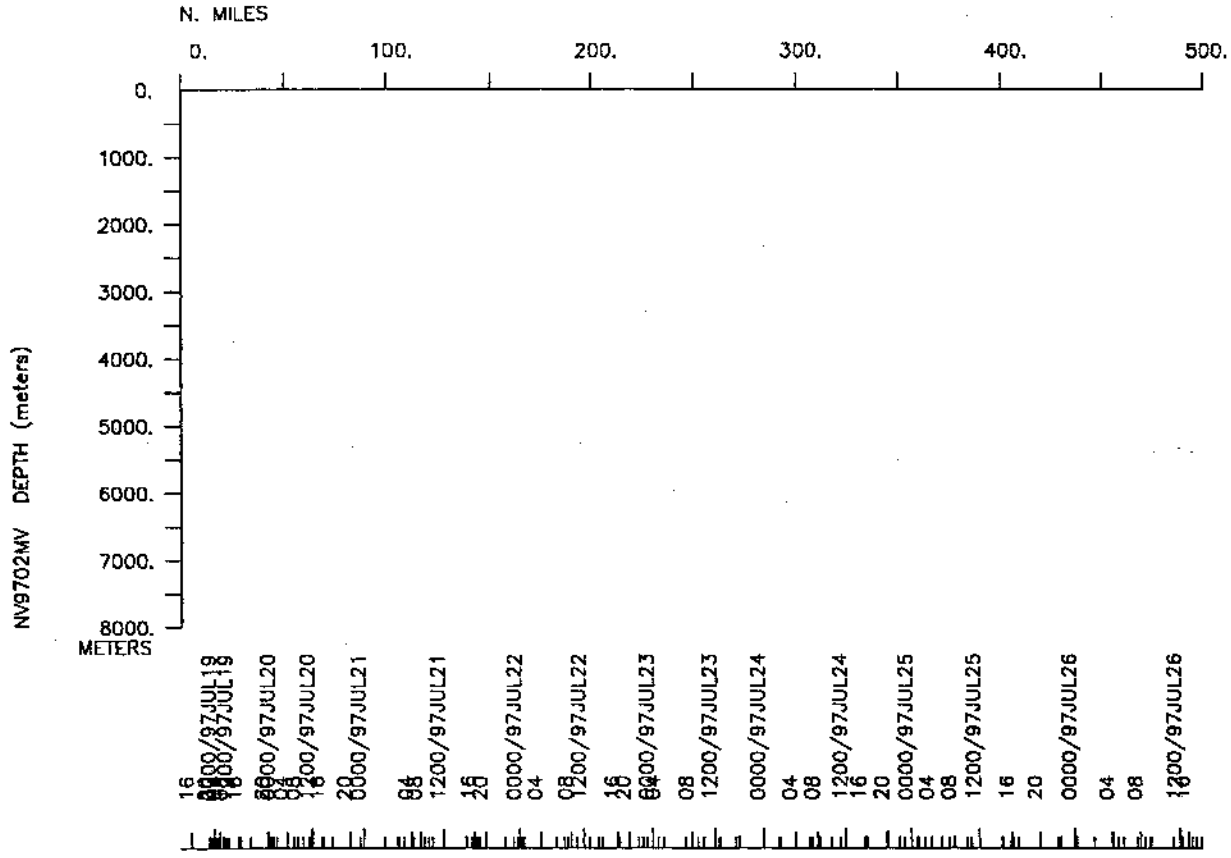
NTESSLAS


N. MILES
0.
100.
200.
300.
400.
500.
NV9702MV DEPTH (meters)
0.
1000.
2000.
3000.
4000.
5000.
6000.
7000.
8000.
METERS
1200/97JUL21
0000/97JUL22
1200/97JUL22
0000/97JUL23
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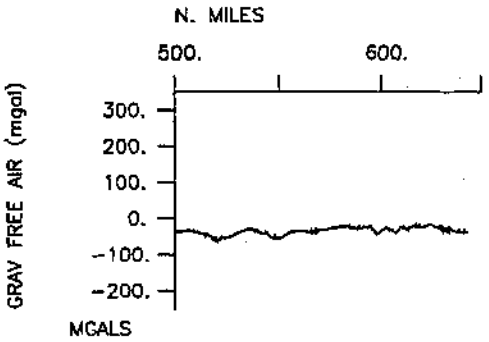
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500.
600.
GRAV FREE AIR (mgal)
300.
200.
100.
0.
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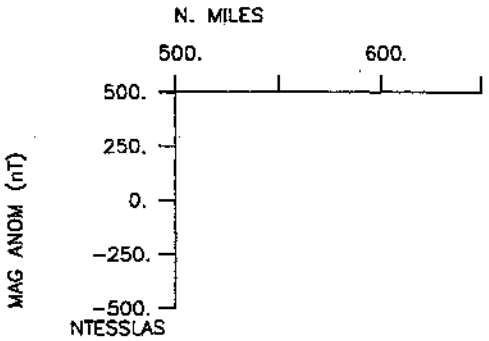
MGALS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600.
MAG ANOM (nT)
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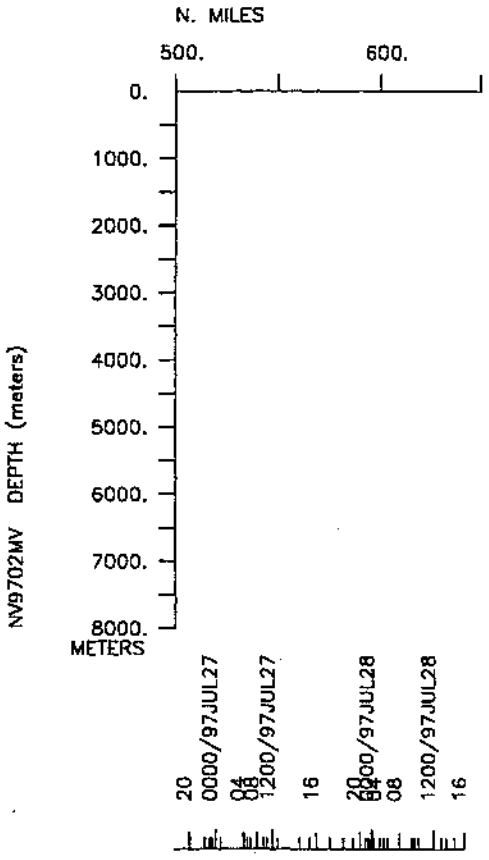
NTESSLAS


N. MILES
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600.
NV9702MV DEPTH (meters)
0.
1000.
2000.
3000.
4000.
5000.
6000.
7000.
8000.
METERS
20
0000/97JUL27
04
08
1200/97JUL27
16
20
0000/97JUL28
04
08
1200/97JUL28
16

S.I.O. SAMPLE INDEX

NAVO EXPEDITION

(NV9702MV)

R/V Melville

(Issued October 1998)

PORTS:

Eureka, California (18 July 1997)

to

Eureka, California (28 July 1997)

Chief Scientist:

Charles Nittrouer, State University of New York

The Sample Index is a first level interdisiplinary 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.# 275

#*** Ports ***

1500 180797 LGPT B Eureka, California 40-48.00M 124-11.00W f NV9702MV
1900 280797 LGPT E Eureka, California 40-48.00N 124-11.00W f NV9702MV

#*** Personnel ***

#		********Name********	******Title******	*****Affiliation****	**Crid**
PECS	SIX	Nittrouer, C.	Chief scientist	State U. New York	NV9702MV
PECT	STS	Moe, R.	Computer tech	Scripps Institution	NV9702MV
PECT	STS	Jacobson, D.	Computer tech	Scripps Institution	NV9702MV
PERT	STS	Wilson, R.	Resident tech	Scripps Institution	NV9702MV
PEST	SIX	Mullenbach, B.	Student	State U. New York	NV9702MV
PEST	SIX	O'shea, D.	Student	Humboldt State U.	NV9702MV
PEST	SIX	Reley, J.	Student	Humboldt State U.	NV9702MV
PEMT	UWA	Ripley, D.	Marine tech	Univ. of Washington	NV9702MV
PEST	UTA	Schuur, L	Student	Univ. of Texas	NV9702MV
PEMT	USGS	Seigel, L.	Marine tech	U.S.Geol.Survey	NV9702MV
PESP	WHOI	Sisson, J.	Electronics tech	Woods Hole O.I.	NV9702MV
PEST	UWA	Guerra, J.	Student	Univ. of Washington	NV9702MV
PEST	SIX	Heim, W.	Student	Humboldt State U.	NV9702MV
PESP	USGS	Israel, K.	Scientist	U.S.Geol.Survey	NV9702MV
PESP	USGS	Lee, H.	Scientist	U.S.Geol.Survey	NV9702MV
PEST	SIX	Leithold, E.	Student	No.Carolina Univ.	NV9702MV
PESP	USGS	Martz, G.	Scientist	U.S.Geol.Survey	NV9702MV
PEST	UWA	Mcphee, E.	Student	Univ. of Washington	NV9702MV
PEMT	SIX	Mondeel, D.	Marine tech	Humboldt State U.	NV9702MV
PEST	SIX	Baiz, S.	Student	Humboldt State U.	NV9702MV
PEST	WHOI	Bullen, J.	Student	Woods Hole O.I.	NV9702MV
PESP	SIX	Borgold, J.	Scientist	Humboldt State U.	NV9702MV
PEST	SIX	Carroll, C.	Student	Old Dominion Univ.	NV9702MV
PEST	SIX	Cramer, T.	Student	No.Carolina Univ.	NV9702MV
PESP	USGS	Drake, D.	Scientist	U.S.Geol.Survey	NV9702MV
PESP	WHOI	Driscoll, N.	Scientist	Woods Hole O.I.	NV9702MV
PESP	USGS	Spinelli, G.	Scientist	U.S.Geol.Survey	NV9702MV
PEST	UCSC	Storlazzi, C.	Student	U.C.Santa Cruz	NV9702MV
PEST	UWA	Sultan, N.	Student	Univ. of Washington	NV9702MV
PESP	SIX	Swift, D.	Scientist	Old Dominion Univ.	NV9702MV
PESP	SIX	Walsh, J.	Scientist	State U. New York	NV9702MV
PESP	WHOI	Wheatcroft, R.	Scientist	Woods Hole O.I.	NV9702MV
PESP	UWA	Newell, K.	Instructor	Univ. of Washington	NV9702MV
PEST	SIX	Pierson, G.	Student	Old Dominion Univ.	NV9702MV
PEST	SIX	BOULANGER, E.	STUDENT	Laval Univ.	NV9702MV

#*** 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 #TIME DATE	TZ	SAMP CODE	B E	SAMPLE IDENTIFIER	DISP CODE	LATITUDE	LONGITUDE	p c	CRUISE LEG-SHIP
#*** Underway Data Curator - S. M. Smith ext. 42752 ***									
#*** Gravity Digital Data ***									
1500 180797	0	GVDR	B	gravity	GDC	40-43.94N	124-13.15W	g	NV9702MV
1900 280797	0	GVDR	E	gravity	GDC	40-43.94N	124-13.16W	g	NV9702MV
#*** Cores ***									
1500 180797	0	COBX	B	96 cores	WHOI	40-43.94N	124-13.15W	g	NV9702MV
1900 280797	0	COBX	E	96 cores	WHOI	40-43.94N	124-13.16W	g	NV9702MV
1500 180797	0	COPS	B	36 cores (SUNY)	SIX	40-43.94N	124-13.15W	g	NV9702MV
1900 280797	0	COPS	E	36 cores (SUNY)	SIX	40-43.94N	124-13.16W	g	NV9702MV
#*** Current Meter ***									
0032 220797	0	CMAB		cm/sediment trap	UWA	41-02.94N	124-26.08W	g	NV9702MV
#*** Conductivity, Temperature, Depth ***									
1500 180797	0	TDXX	B	self-contained ctd	UWA	40-43.94N	124-13.15W	g	NV9702MV
1800 280797	0	TDXX	E	15 samples	UWA	40-46.13N	124-19.90W	g	NV9702MV
#***				End Sample Index					NV9702MV