REPORT AND INDEX OF

UNDERWAY MARINE GEOPHYSICAL DATA

NAVO EXPEDITION

(NV9704MV)

(R/V Melville)

(Issued October 1998)

Ports:

Astoria, Oregon (06 October 1997)

to

San Diego, California (10 October 1997)

Transit Leg - No Chief Scientist

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

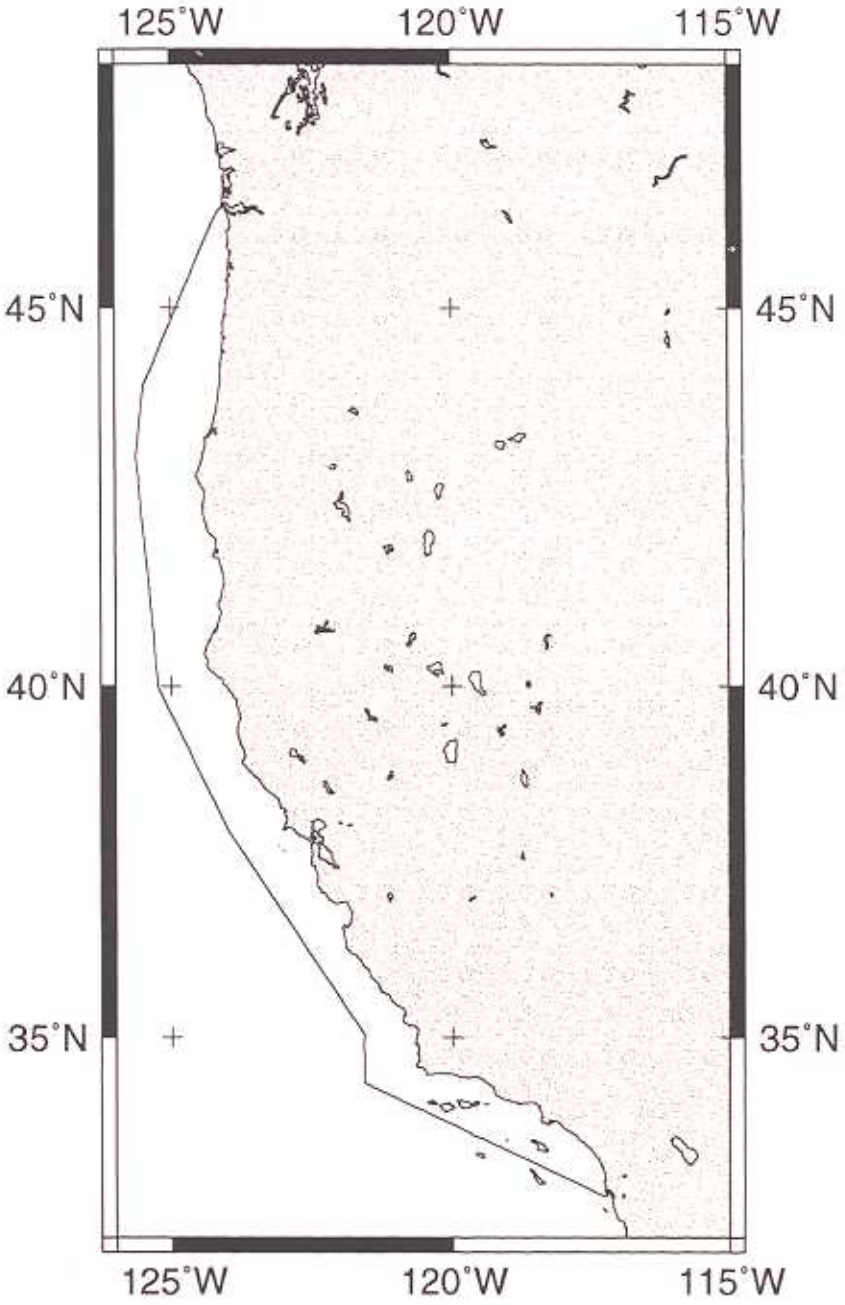
1. Files via ftp or on 8mm (Exabyte) and 4mm (DAT) magnetic tape:
   a) Separate time series ASCII files of navigation, single beam depth, gravity and magnetics.
   b) Above data in a single merged ASCII file in the MGD77 Exchange Format.
   c) SeaBeam depth data (binary, Sun byte order)
   d) SeaBeam 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 NV9704

TRANSIT LEG

PORTS: Astoria, Oregon - San Diego, California

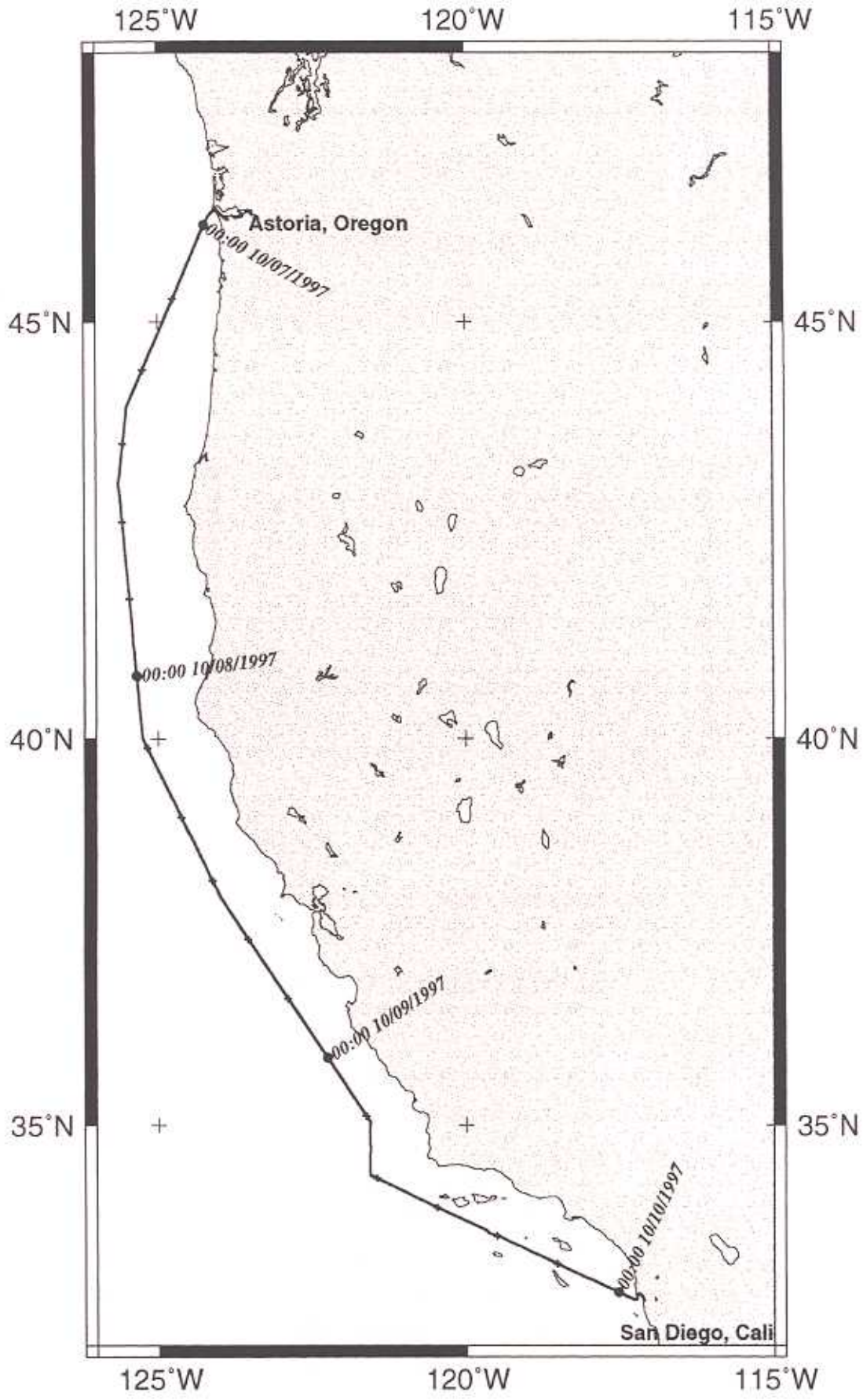
DATES: 06 - 10 October 1997

SHIP: R/V Melville

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

Cruise - 1034 miles	**Magnetics - none collected**
Bathymetry - 247 miles	**Seismic Reflection - none collected**
Sea Beam - 247 miles	**Gravity - 1019 miles**

NV9704MV Track



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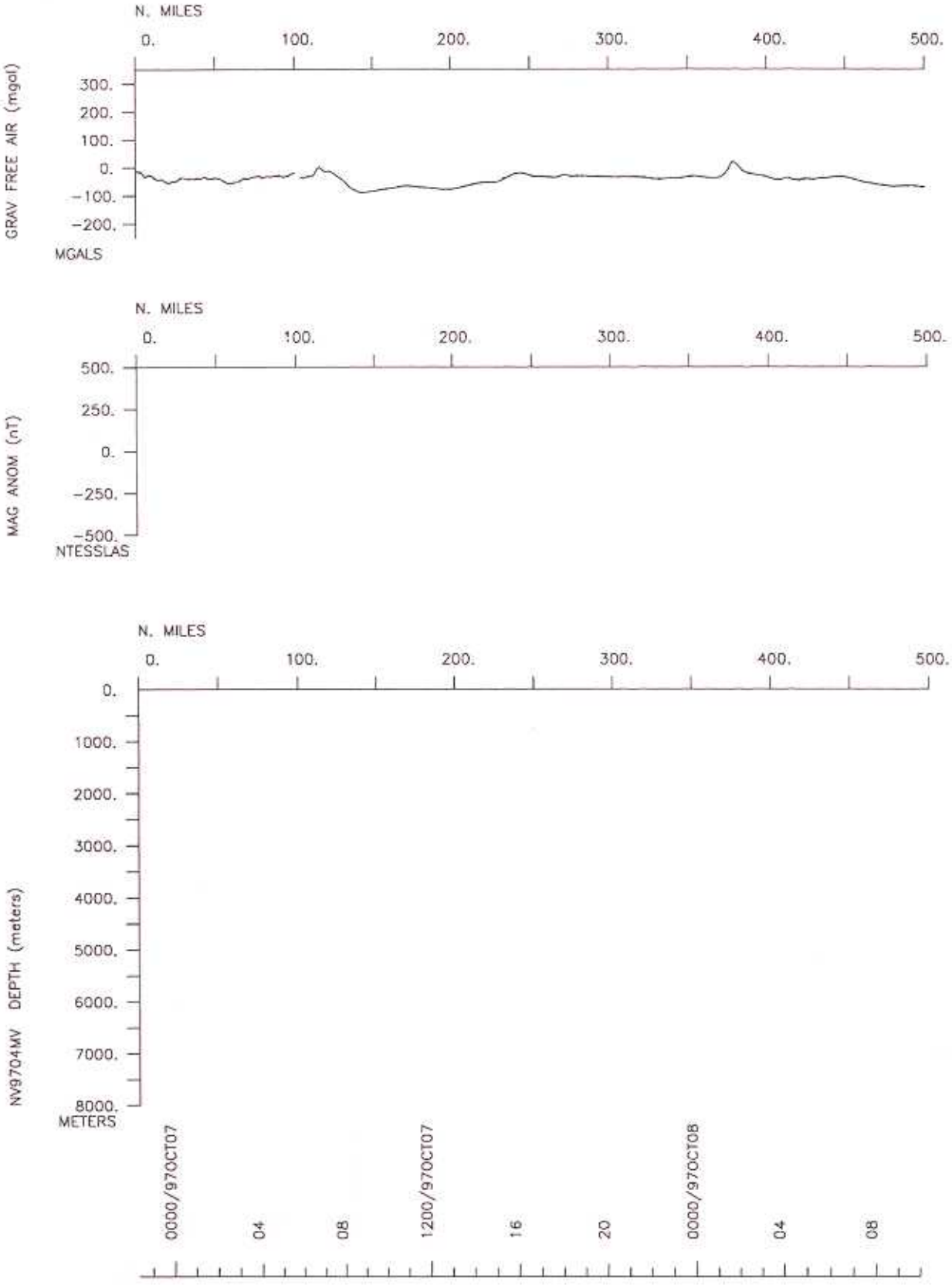
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200.
300.
400.
500.
GRAV FREE AIR (mgal)
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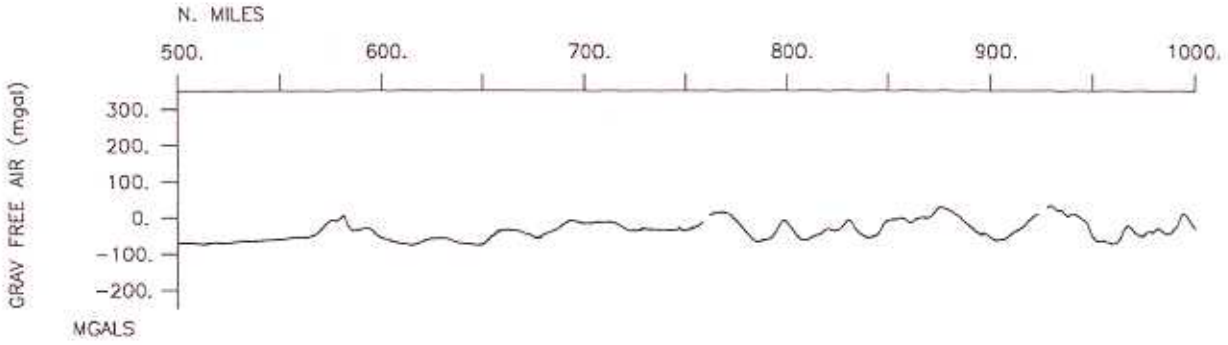
200.
100.
0.
-100.
-200.
MGALS
N. MILES
0.
100.
200.
300.
400.
500.
MAG ANOM (nT)
500.
250.
0.
-250.
-500.
NTESSLAS
N. MILES
0.
100.
200.
300.
400.
500.
NV9704MV DEPTH (meters)
0.
1000.
2000.
3000.
4000.
5000.
6000.
7000.
8000.
METERS
0000/97OCT07
04
08
1200/97OCT07
16
20
0000/97OCT08
04
08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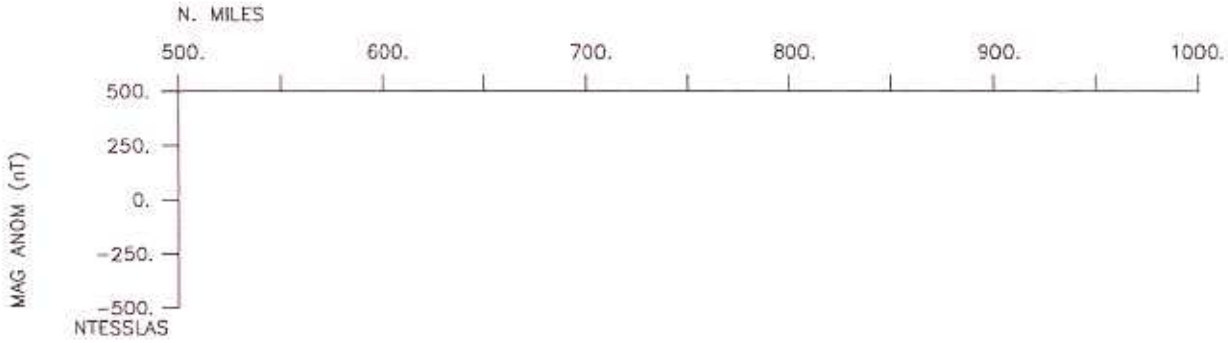
-200.
MGALS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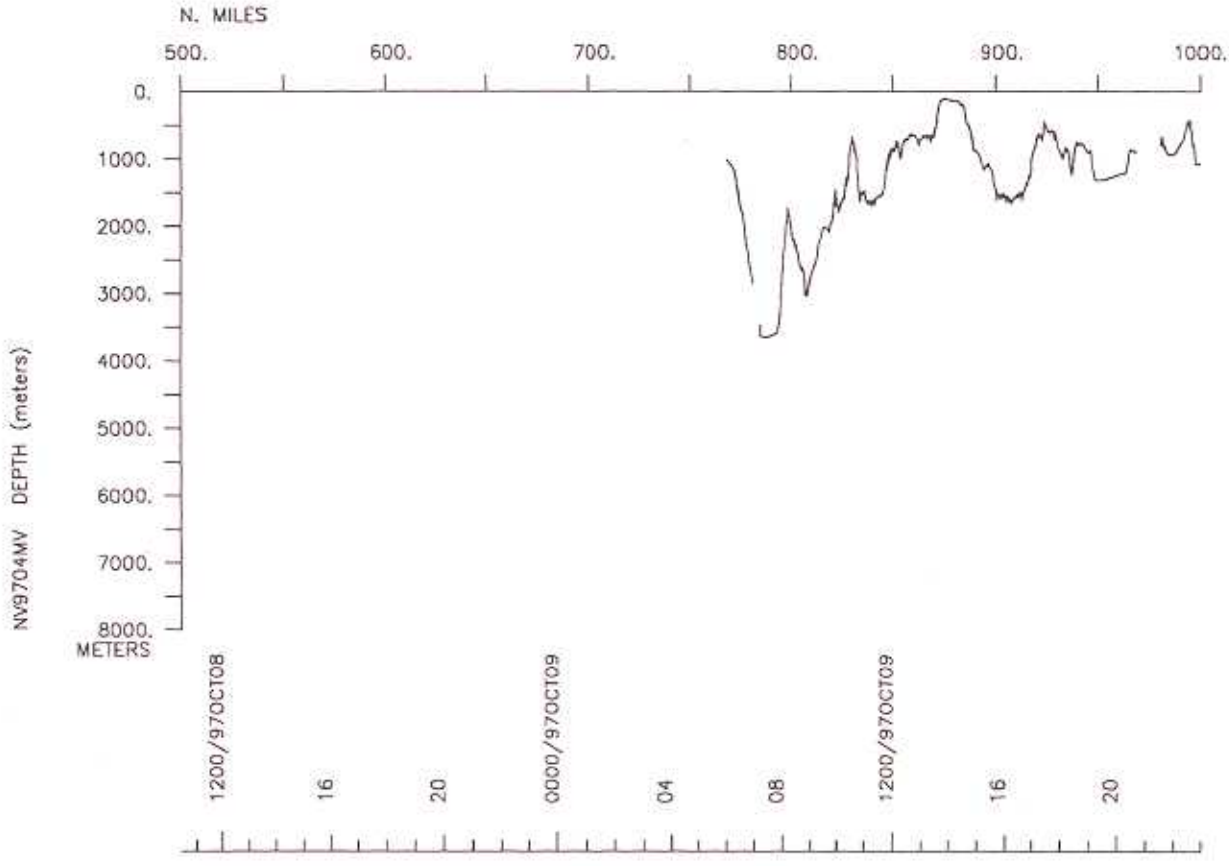
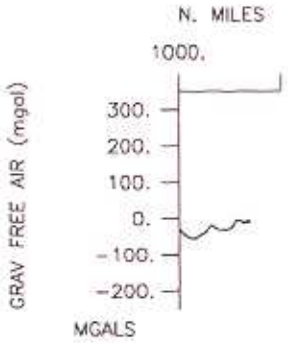
NTESSLAS


N. MILES
500.
600.
700.
800.
900.
1000.
NV9704MV DEPTH (meters)
0.
1000.
2000.
3000.
4000.
5000.
6000.
7000.
8000.
METERS
1200/97OCT08
16
20
0000/97OCT09
04
08
1200/97OCT09
16
20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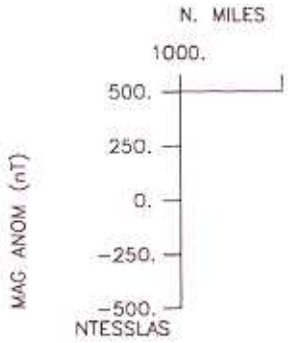
200.
100.
0.
-100.
-200.
MGALS
GRAV FREE AIR (mgal)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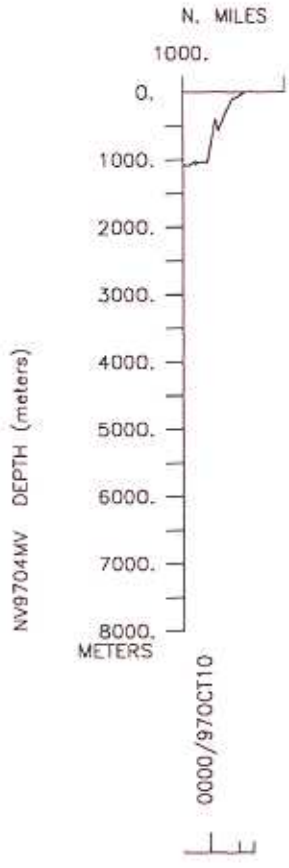
MAG ANOM (nT)


N. MILES
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0.
1000.
2000.
3000.
4000.
5000.
6000.
7000.
8000.
METERS
NV9704MV DEPTH (meters)
0000/97OCT10

S.I.O. SAMPLE INDEX

NAVO EXPEDITION

(NV9704MV)

R/V Melville

(Issued October 1998)

PORTS:

Astoria, Oregon (06 October 1997)

to

San Diego, California (10 October 1997)

Transit Leg - No Chief Scientist on board
Computer Technician - Dan Jacobson

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 ***

2200 061097    LGPT B Astoria, Oregon            46-12.00N 123-50.00W f NV9704MV
0230 101097    LGPT E San Diego                  32.14.00N 117-11.00W f NV9704MV


#*** Personnel ***
#        ********Name******** ******Title******  *****Affiliation**** **Crid**
#--- ---- -------------------- ----------------  -------------------- --------

PECT SIO  Jacobson, Dan        Computer Tech     Scripps Institution  NV9704MV


#*** 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 ***


#*** Sea Beam Data (vertical beam and side scan) ***

0602 091097  0 MBSR B v.beam&sscan-digital GDC  34-40.63N 121-34.73W g NV9704MV
0112 101097  0 MBSR E v.beam&sscan-digital GDC  32-38.23N 117-14.00W g NV9704MV


#*** Gravity ***

0000 061097  0 GVDR B digital gravity      GDC  46-11.43N 123-51.60W g NV9704MV
2349 101097  0 GVDR E digital gravity      GDC  32-42.40N 117-14.18W g NV9704MV

#***                 End Sample Index                                 NV9704MV
```