

***Report and Index of
Underway Marine Geophysical Data
Northeast Circle Route Expedition***

Leg 6

(NECR06RR)

R/V Revelle

(Issued March 2001)

Ports:

Hilo, Hawaii (8 December 2000)

to

San Diego, California (16 December 2000)

Chief Scientist: Peter Lonsdale
Scripps Institution of Oceanography

Computer Tech – Dan Jacobson
Resident Marine Tech – Bob Wilson

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# 294

**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.

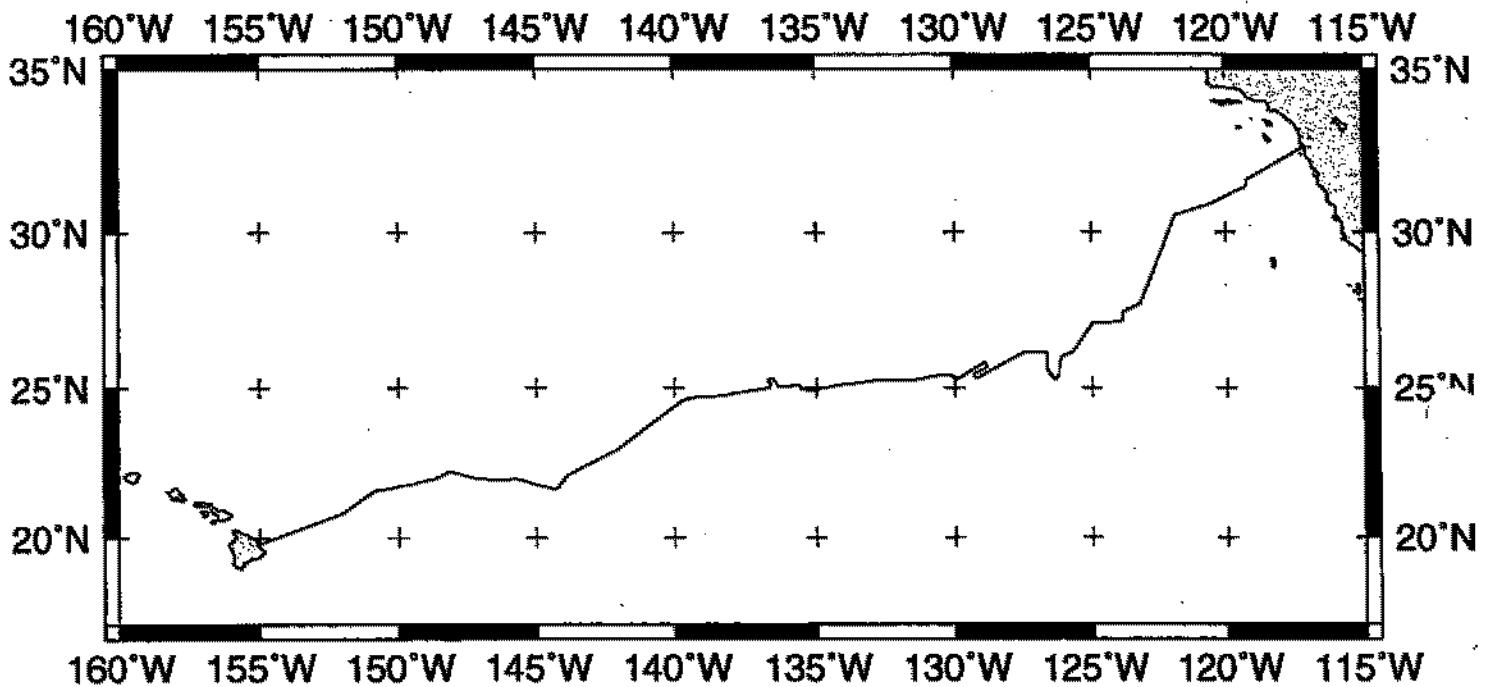
Track Charts– annotated with dates and hour ticks

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 or 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.



NECR EXPEDITION LEG 6 (NECR06RR)

CHIEF SCIENTIST: Peter Lonsdale, Scripps Institution

PORTS: Hilo, Hawaii - San Diego, California

DATES: 8 - 16 December 2000

SHIP: R/V Revelle

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

Cruise- 2569 miles

Magnetics- 2375 miles

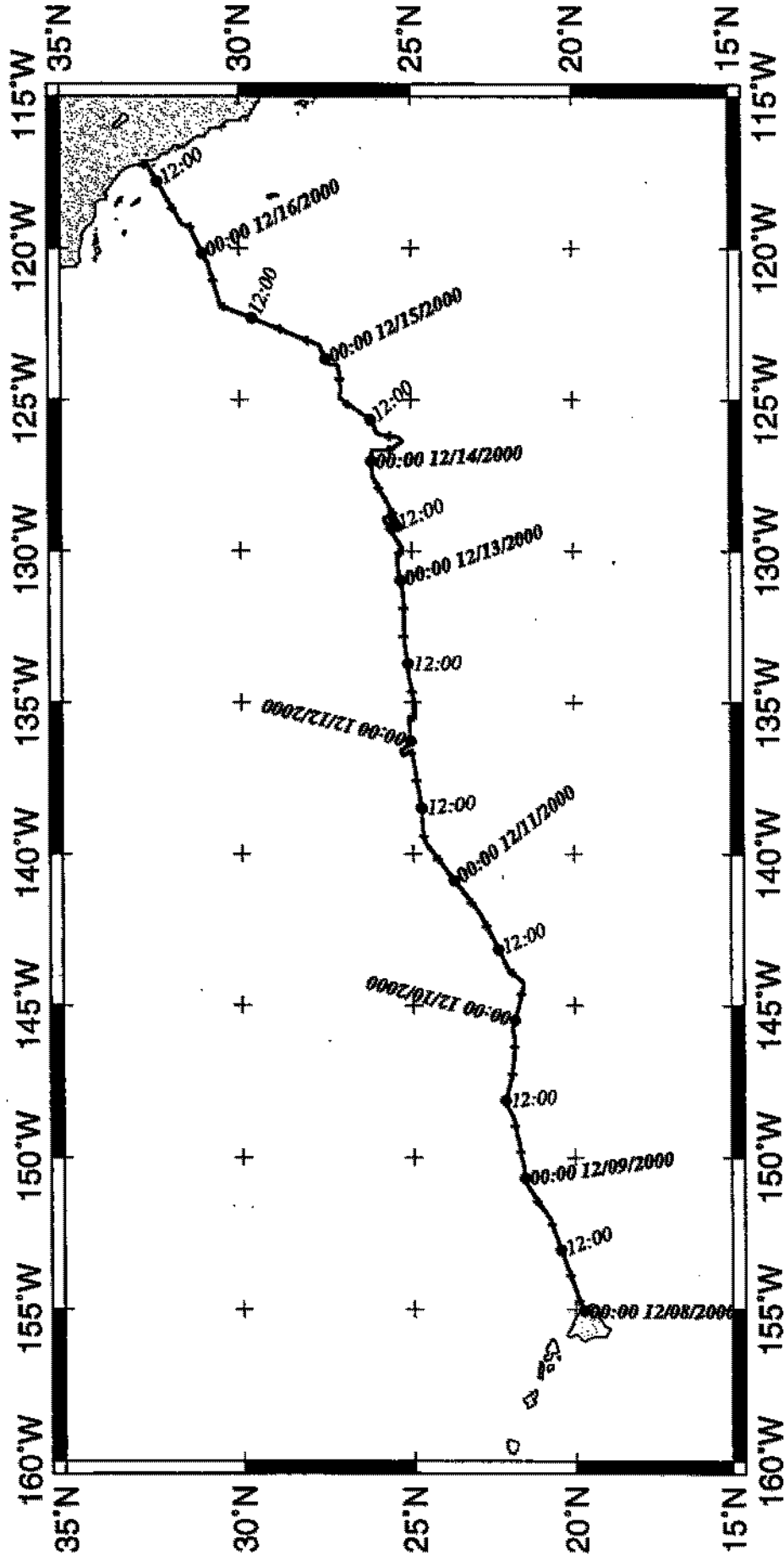
Bathymetry- 2459 miles

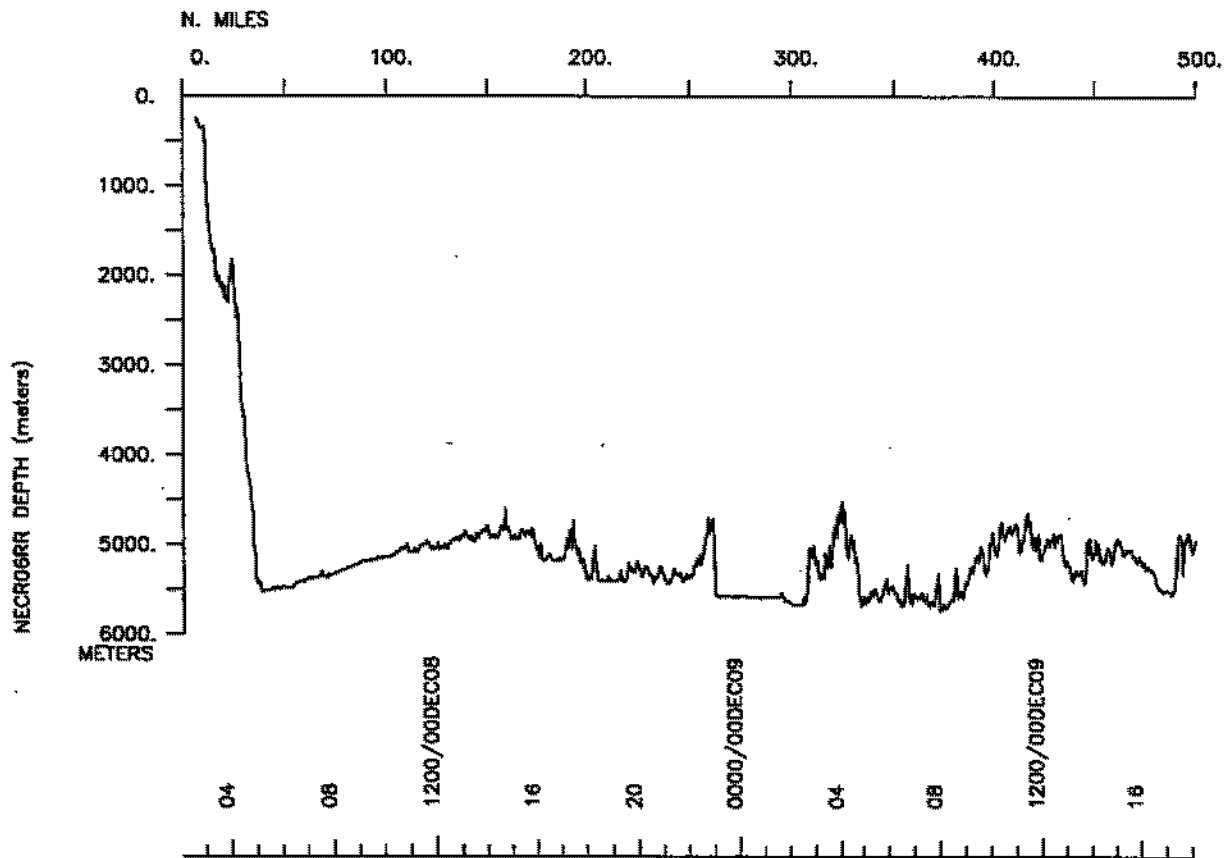
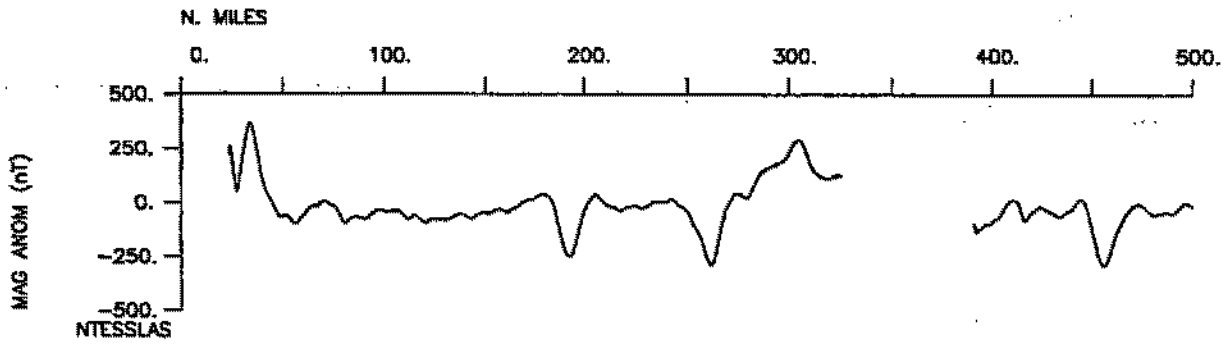
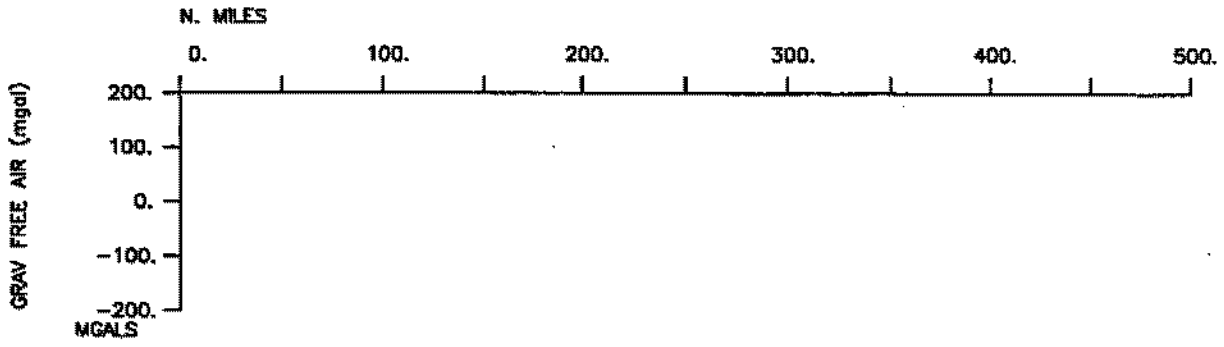
Seismic Reflection- none collected

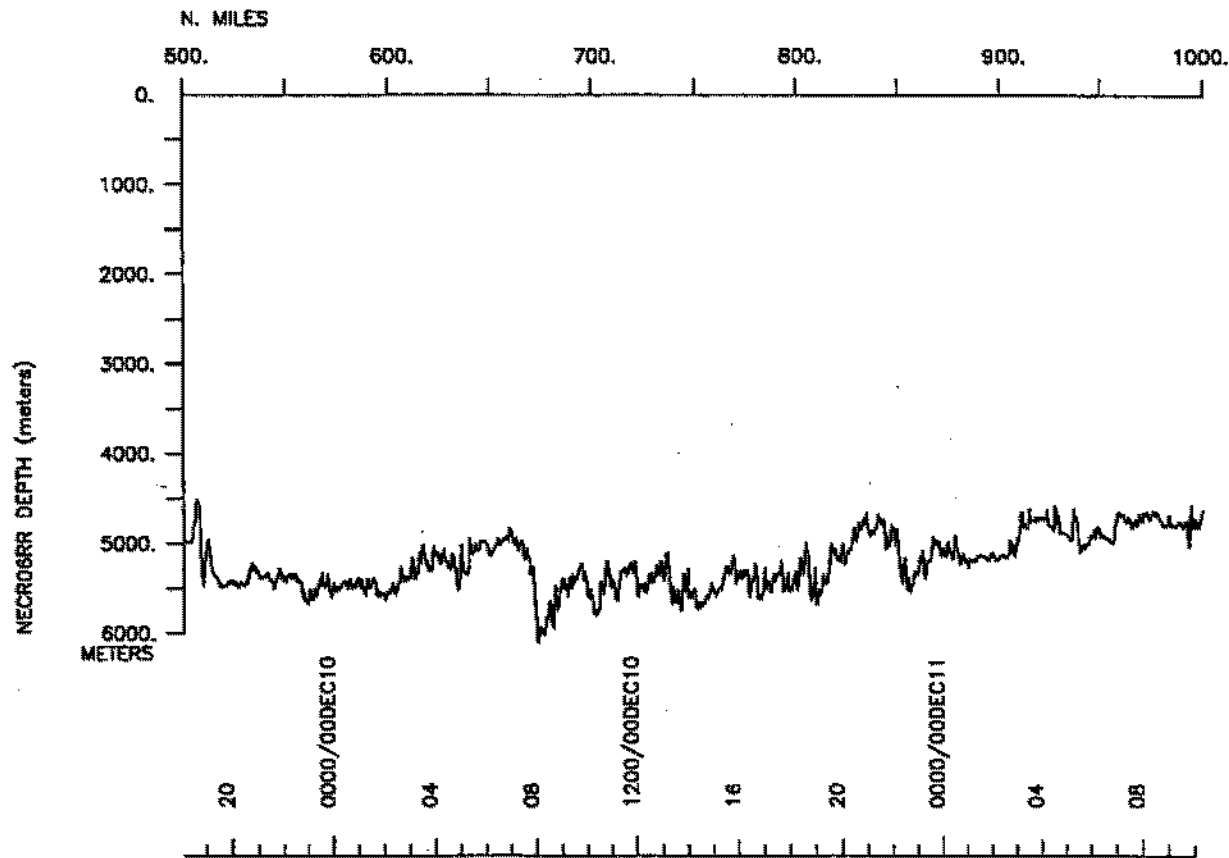
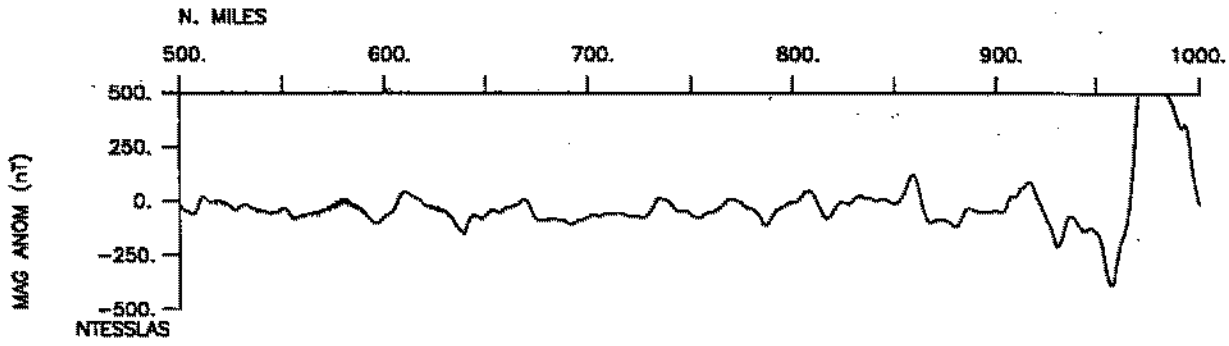
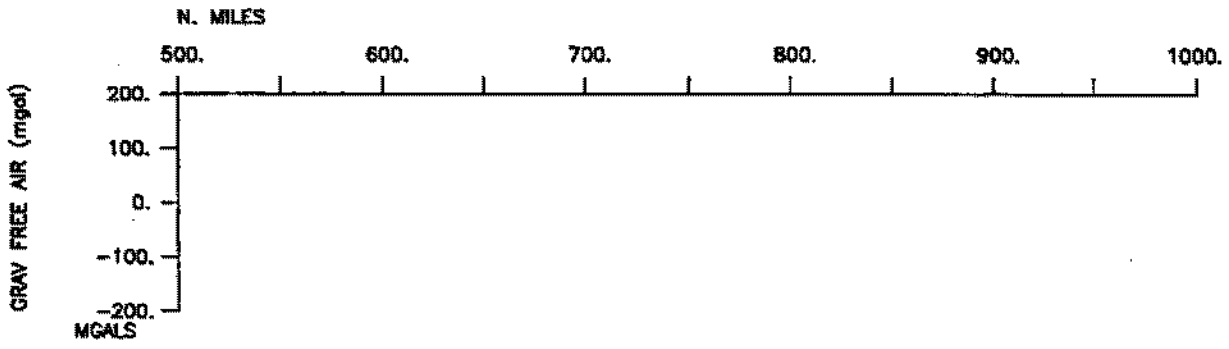
Sea Beam- 2459 miles

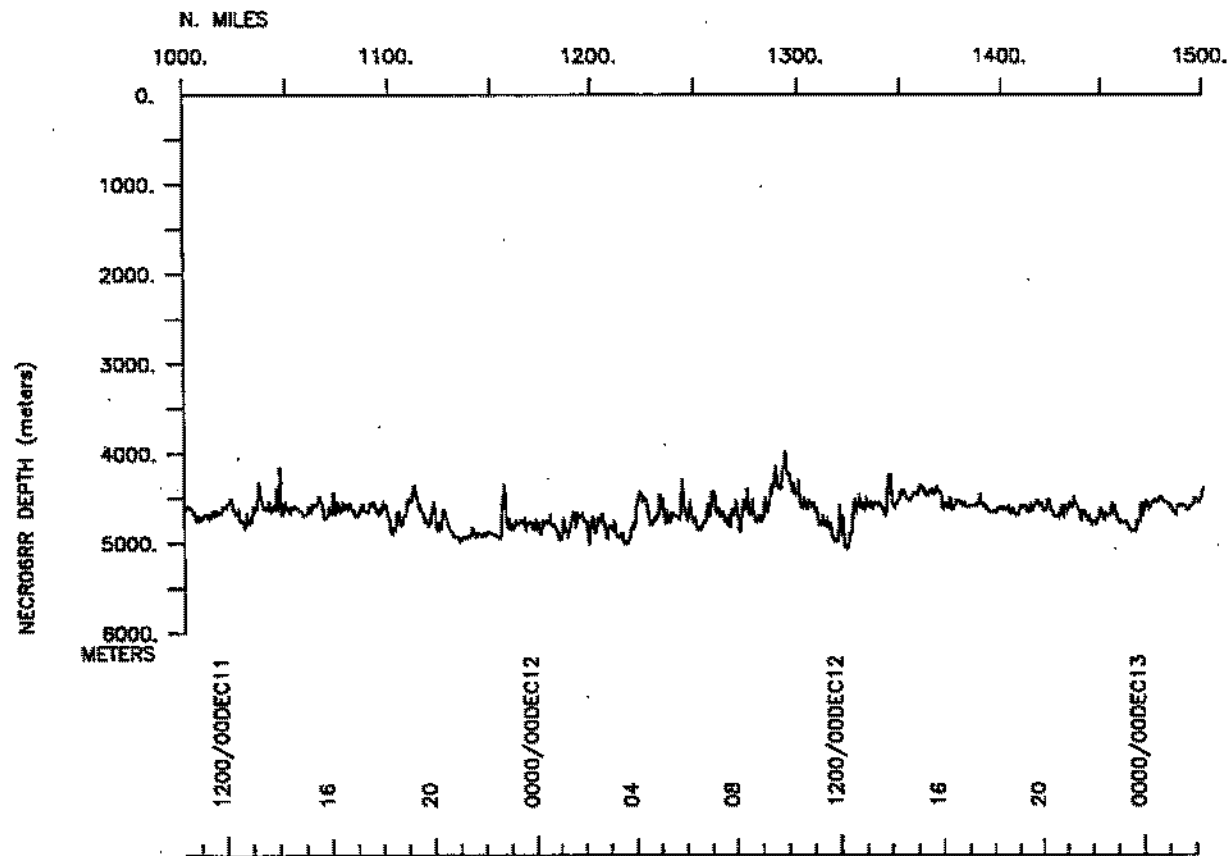
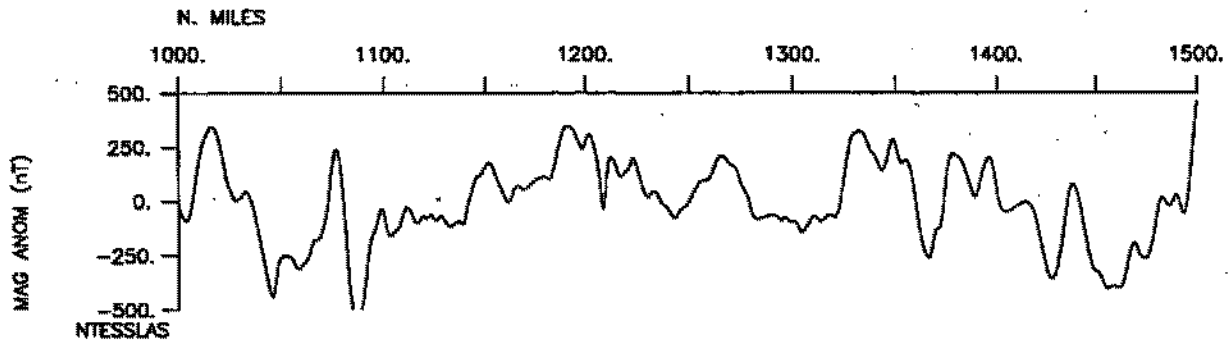
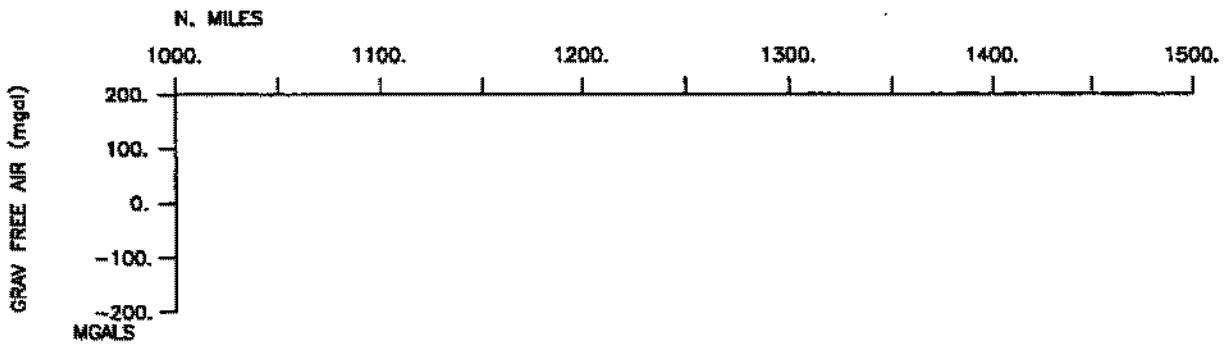
Gravity- none collected

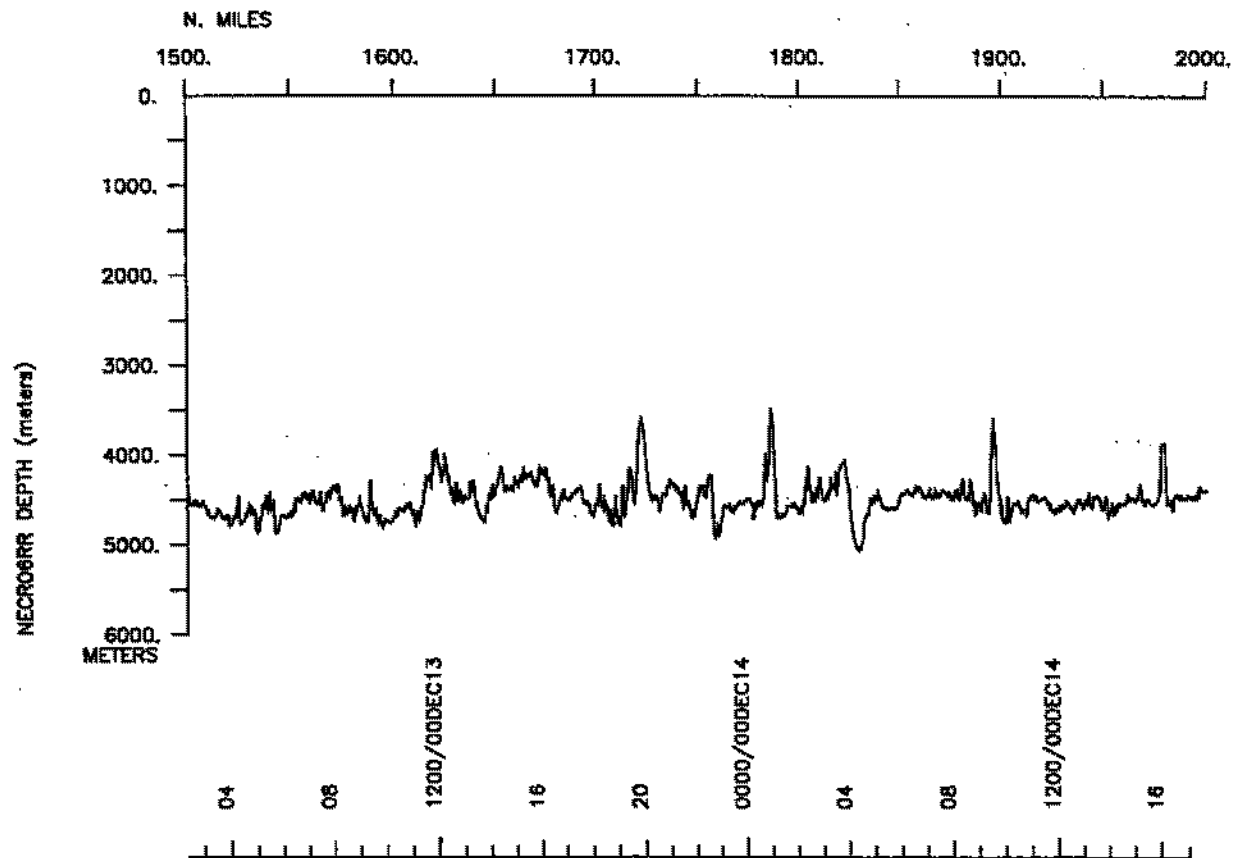
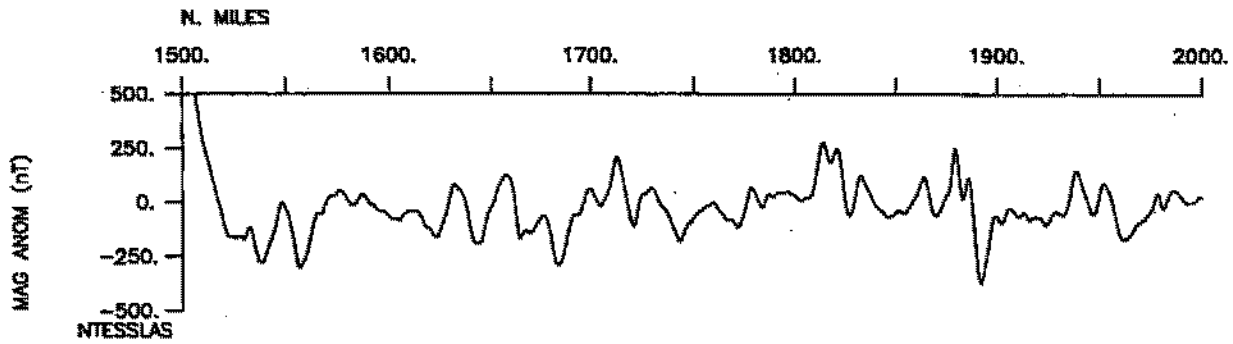
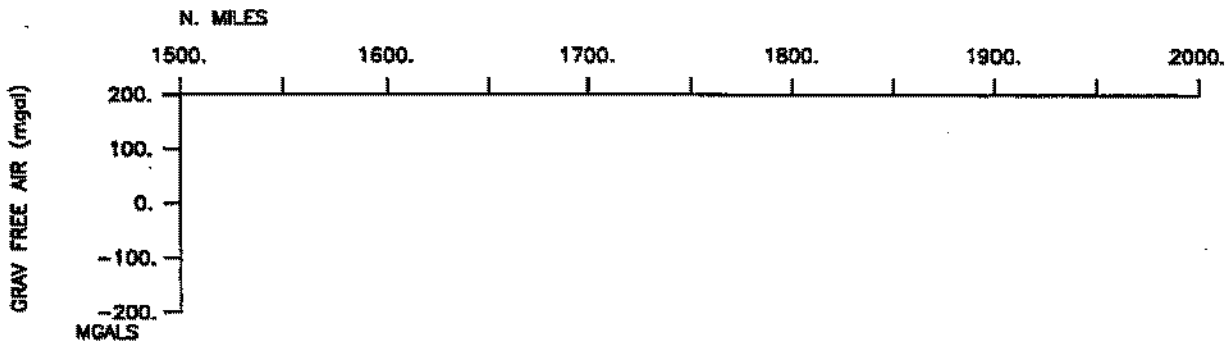
NECR leg 6 Track

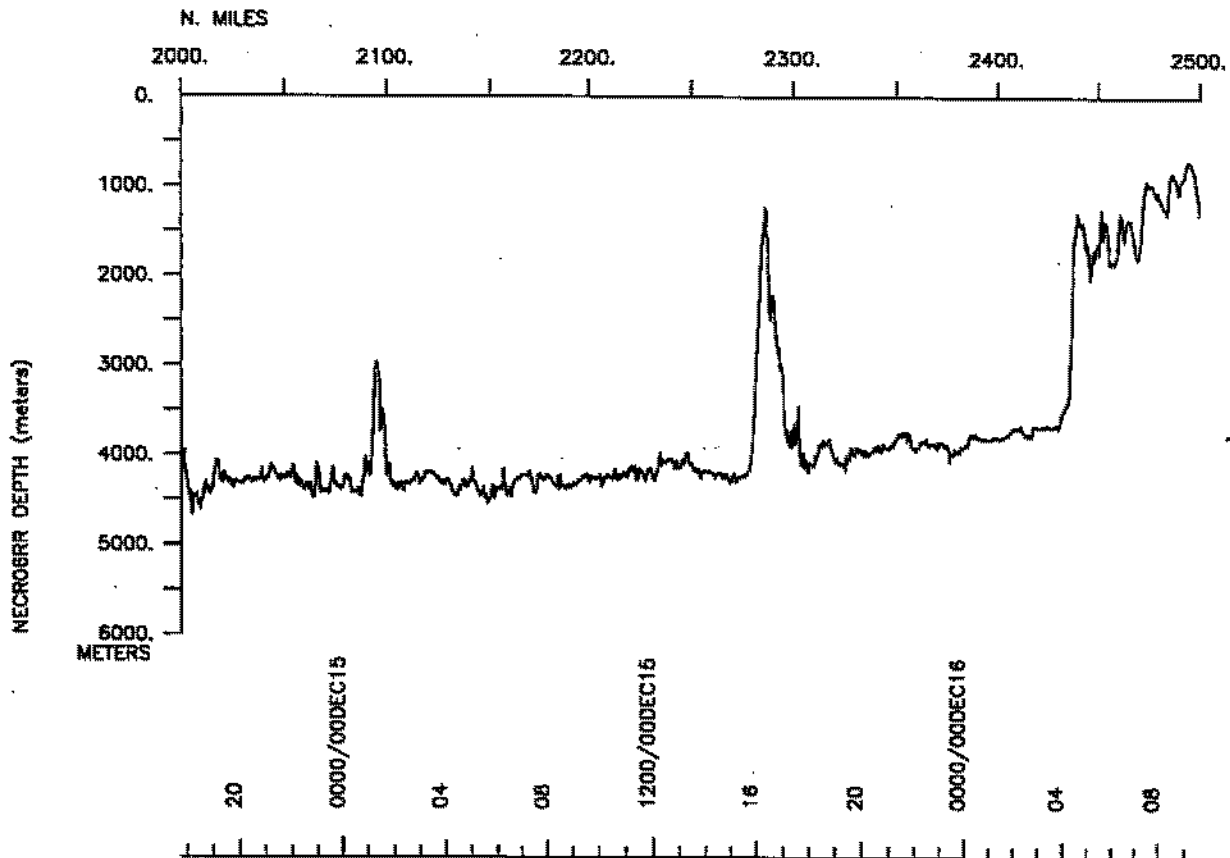
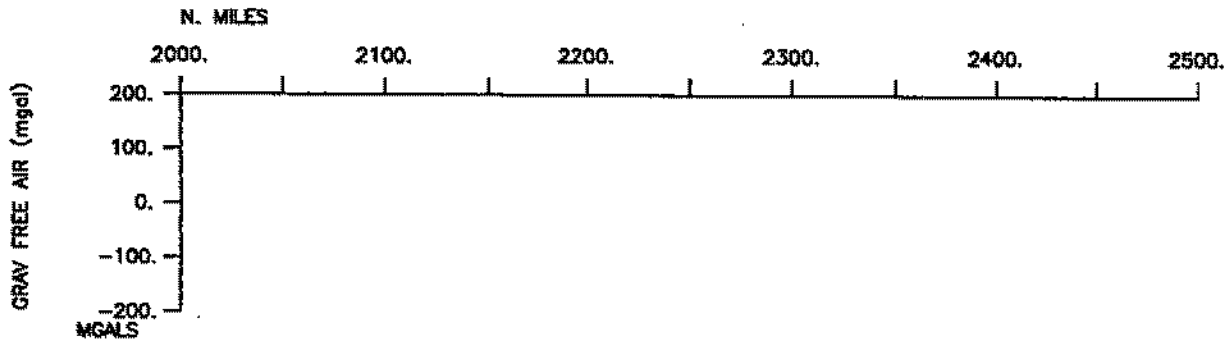


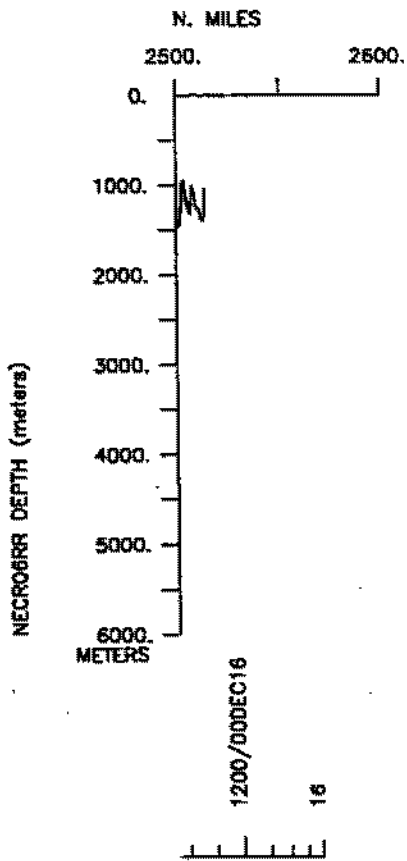
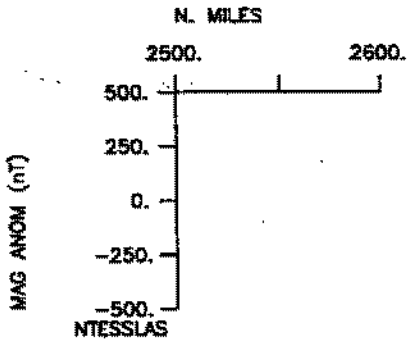
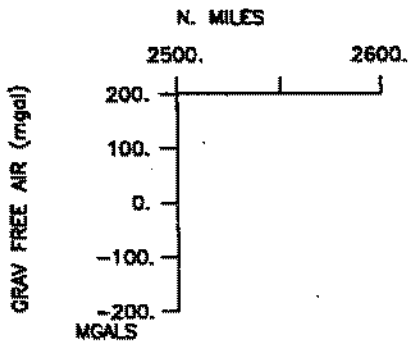












S.I.O. Sample Index

Northeast Circle Route Expedition

Leg 6

(NECR06RR)

R/V Revelle

(Issued March 2001)

PORTS:

Hilo, Hawaii (8 December 2000)

to

San Diego, California (16 December 2000)

Chief Scientist: Peter Lonsdale
Scripps Institution of Oceanography

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# 294

**** PORTS ***

```
0152 081200 0 LGPT B Hilo, Hawaii          19-44.00N 155-04.00W f NECR06RR
1602 161200 0 LGPT E San Diego, Calif.     32-40.00N 117-14.00W f NECR06RR
```

**** PERSONNEL ***

```
# *****NAME***** *****TITLE***** *****AFFILIATION***** **CRID**
#-----
PECS MPL Lonsdale, Peter      Chief Scientist      Scripps Institution  NECR06RR
PEST MPL Massell, Chris       Grad student         Scripps Institution  NECR06RR
PECT STS Jacobson, Dan        Computer tech        Scripps Institution  NECR06RR
PERT STS Wilson, Bob          Resident tech        Scripps Institution  NECR06RR
```

**** 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 ext. 41899 *

**** Log Books ***

```
0200 081200 0 LBUW B underway watch log  GDC  19-43.93N 155-03.28W g NECR06RR
0301 161200 0 LBUW E underway watch log  GDC  31-20.04N 119-32.49W g NECR06RR
```

**** Sea Beam Data ***

```
0308 081200 0 MBSR B v.beam&sidescan r-01 GDC  19-49.16N 154-54.34W g NECR06RR
1040 161200 0 MBSR E v.beam&sidescan r-01 GDC  32-11.73N 118-05.89W g NECR06RR
```

#GMT	DDMMYY	SAMP	B	SAMPLE	DISP				p	CRUISE
#TIME	DATE	TZ	CODE	E IDENTIFIER	CODE	LATITUDE	LONGITUDE		c	LEG-SHIP
#-----										
*** Digital Magnetics (Earth Total Field) ***										
0358	081200	0	MGDR	B magnetic data	GDC	19-52.61N	154-44.05W	g		NECR06RR
0641	161200	0	MGDR	E magnetic data	GDC	31-46.90N	118-56.24W	g		NECR06RR
*** Integrated Meteorological Acquisition System ***										
2359	081200	0	IMET	B weather data	GDC	21-37.04N	150-42.36W	g		NECR06RR
1602	161200	0	IMET	E weather data	GDC	32-42.40N	117-14.17W	g		NECR06RR
*** Expendable Bathythermographs ***										
2135	091200	0	BTXP	XBT t500004.edf	GDC	21-57.82N	146-01.12W	g		NECR06RR
2147	101200	0	BTXP	XBT t500005.edf	GDC	23-29.36N	141-17.48W	g		NECR06RR
0043	121200	0	BTXP	XBT t500006.edf	GDC	25-04.28N	136-07.92W	g		NECR06RR
2121	121200	0	BTXP	XBT t500007.edf	GDC	25-15.34N	131-35.26W	g		NECR06RR
2123	131200	0	BTXP	XBT t500011.edf	GDC	26-06.26N	127-38.70W	g		NECR06RR
2009	141200	0	BTXP	XBT t500013.edf	GDC	27-08.73N	124-18.07W	g		NECR06RR
2030	151200	0	BTXP	XBT t500015.edf	GDC	30-47.27N	120-57.57W	g		NECR06RR
#				End Sample Index						NECR06RR