

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

Leg 2

(NECR02RR)

R/V Revelle

(Issued November 2000)

Ports:

Astoria, Oregon (13 August 2000)

to

Honolulu, Hawaii (25 August 2000)

Chief Scientist: Jeffrey Gee
Scripps Institution of Oceanography

Computer Tech – Ron Moe
Resident Marine Tech – Tammy Baiz

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.

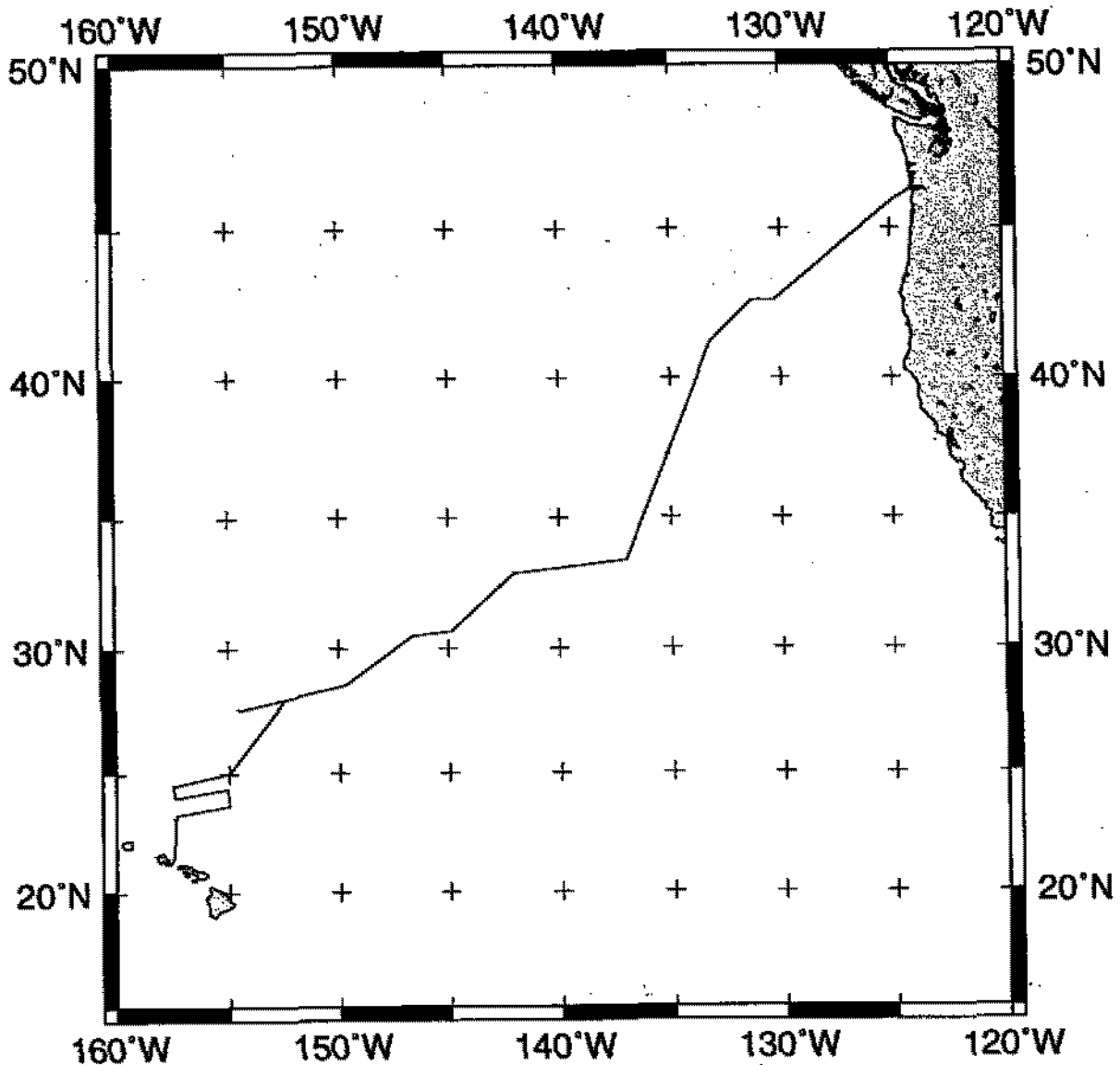
NOTE: One or more of the underway data types may not be collected on a given leg. For information on the availability and reproduction costs of data in the following forms, contact S.M. Smith, Curator, Geological Data Center, Scripps Institution of Oceanography, La Jolla, California 92093-0223. Phone: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



NECR EXPEDITION LEG 2 (NECR02RR)

CHIEF SCIENTIST: Jeff Gee, Scripps Institution of Oceanography

PORTS: Astoria, Oregon - Honolulu, Hawaii

DATES: 13 - 25 August 2000

SHIP: R/V Revelle

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

Cruise- 3063 miles

Magnetics- 2803 miles

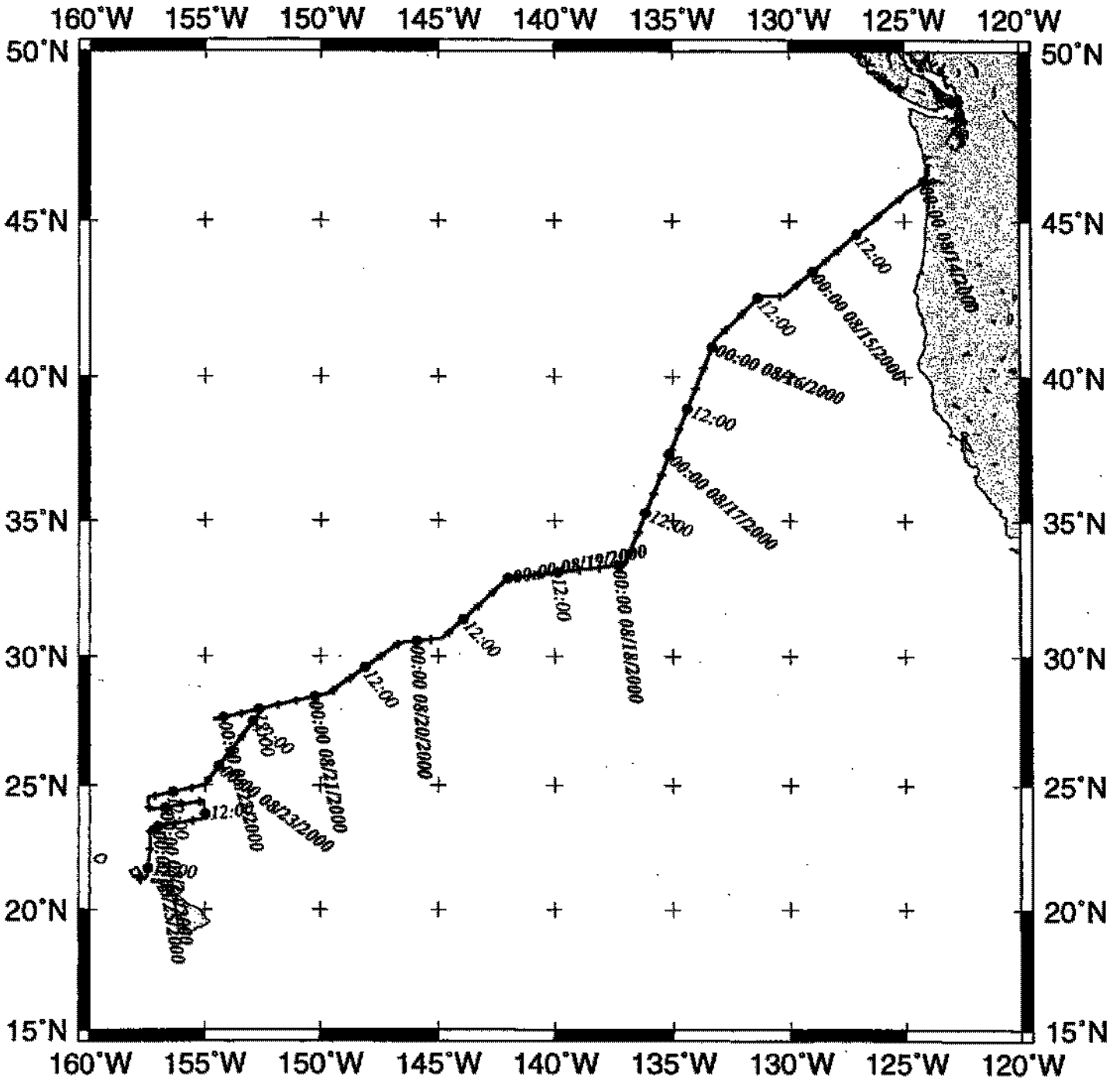
Bathymetry- 3003 miles

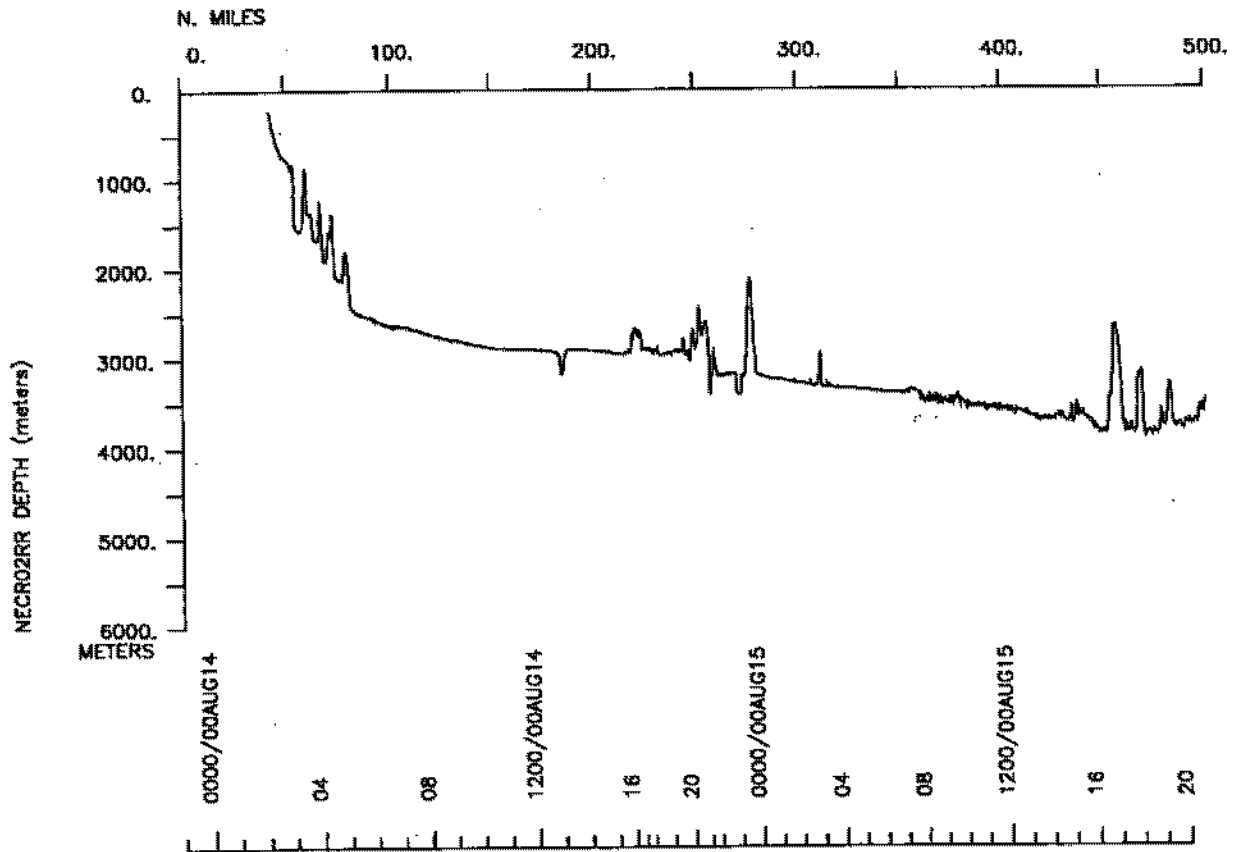
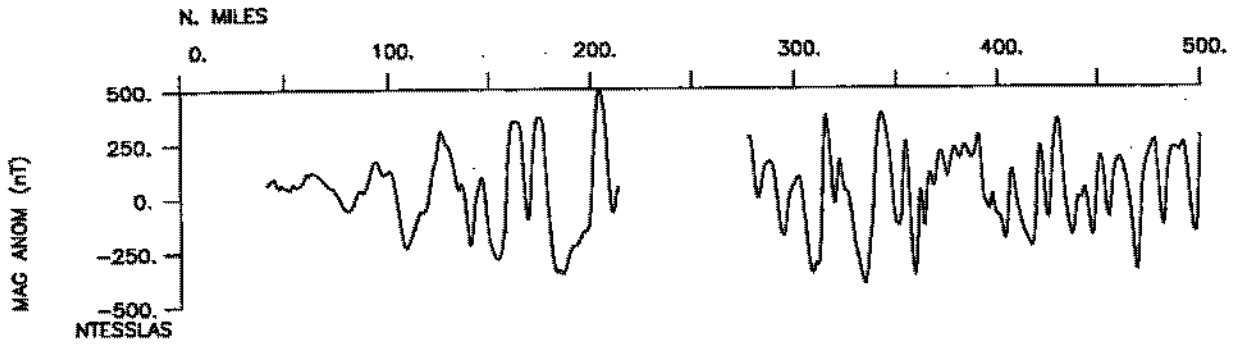
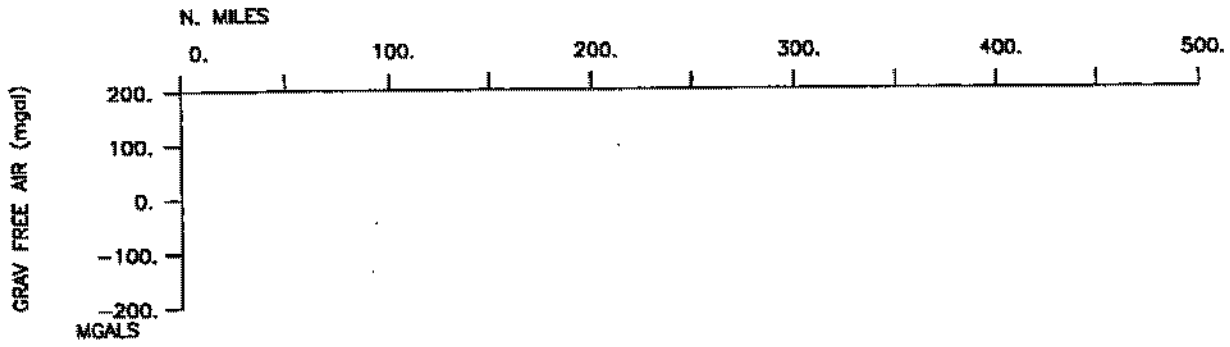
Seismic Reflection- none collected

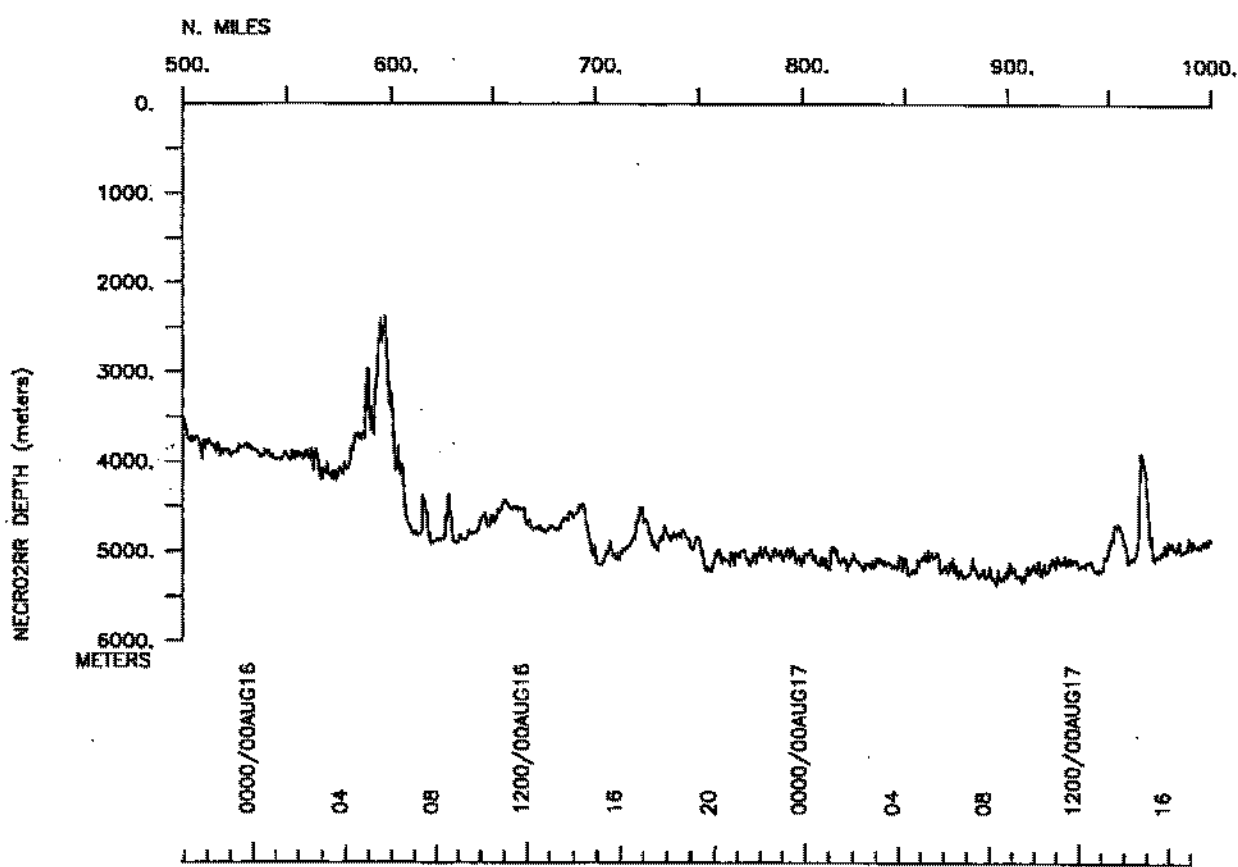
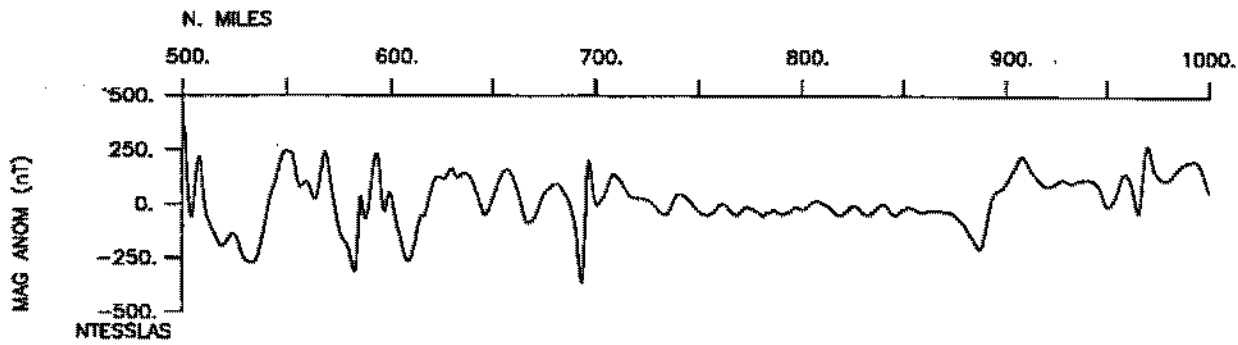
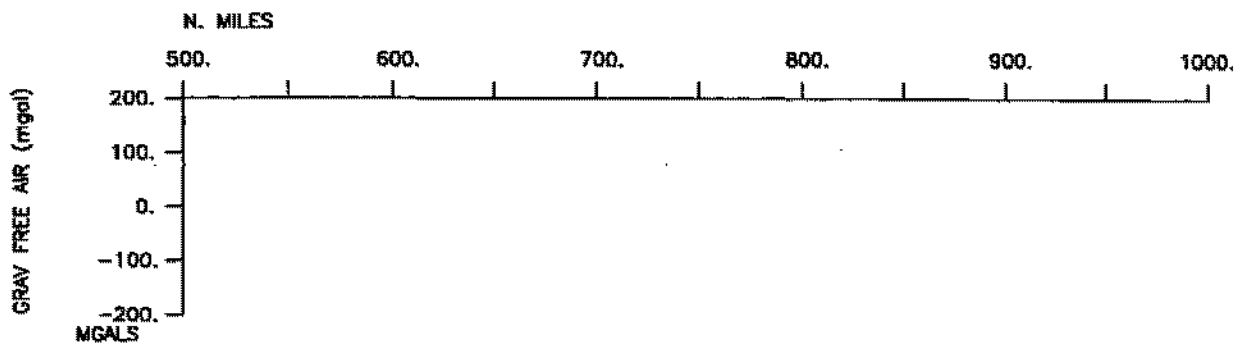
Sea Beam- 3003 miles

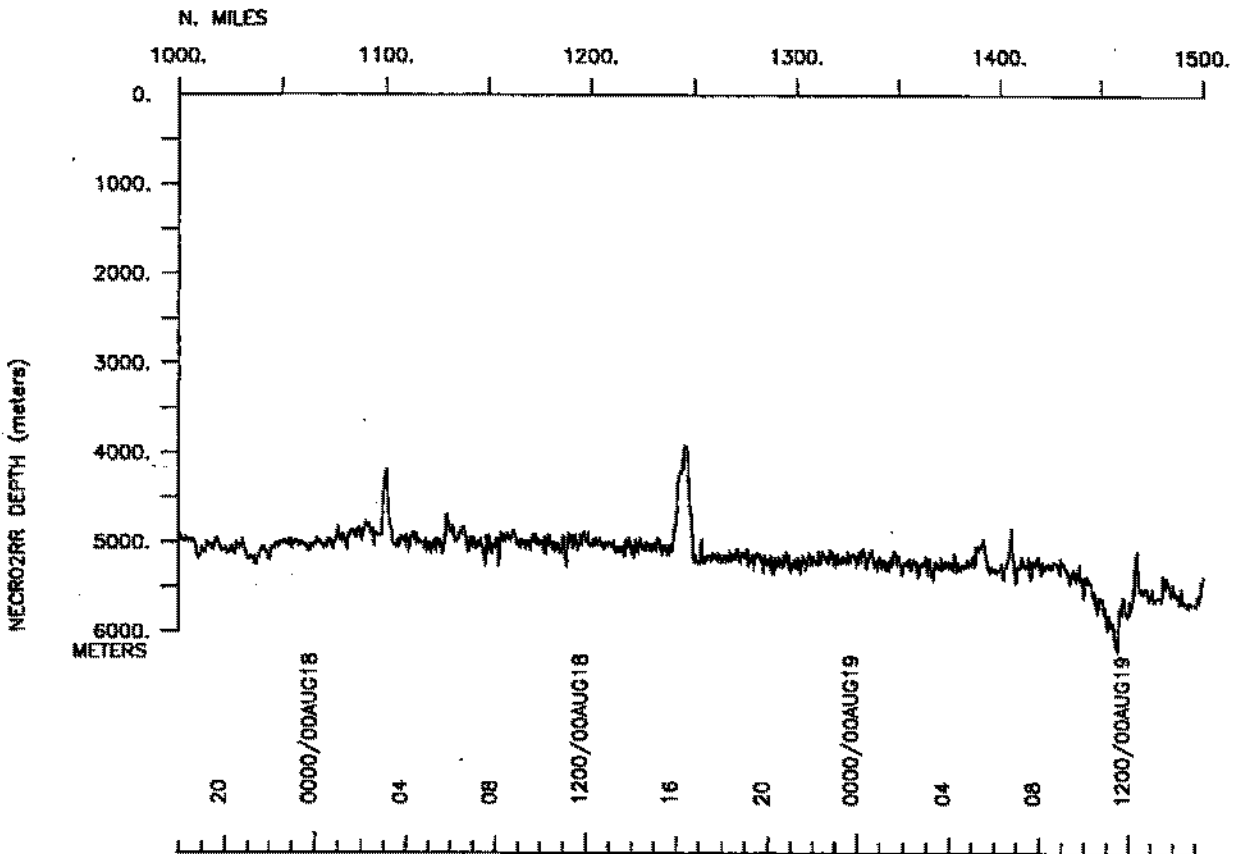
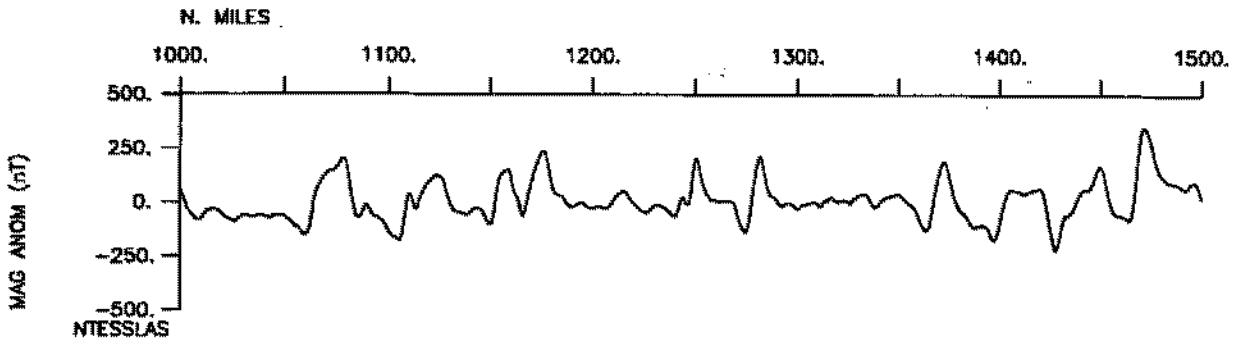
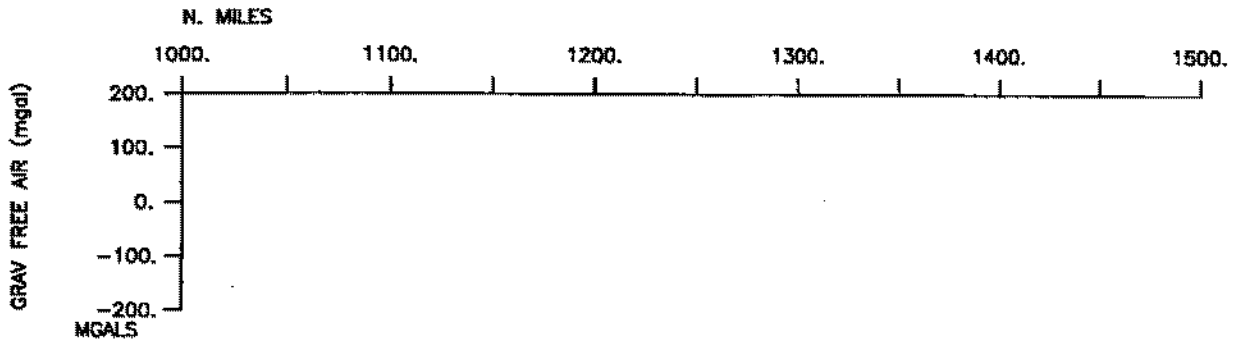
Gravity- none collected

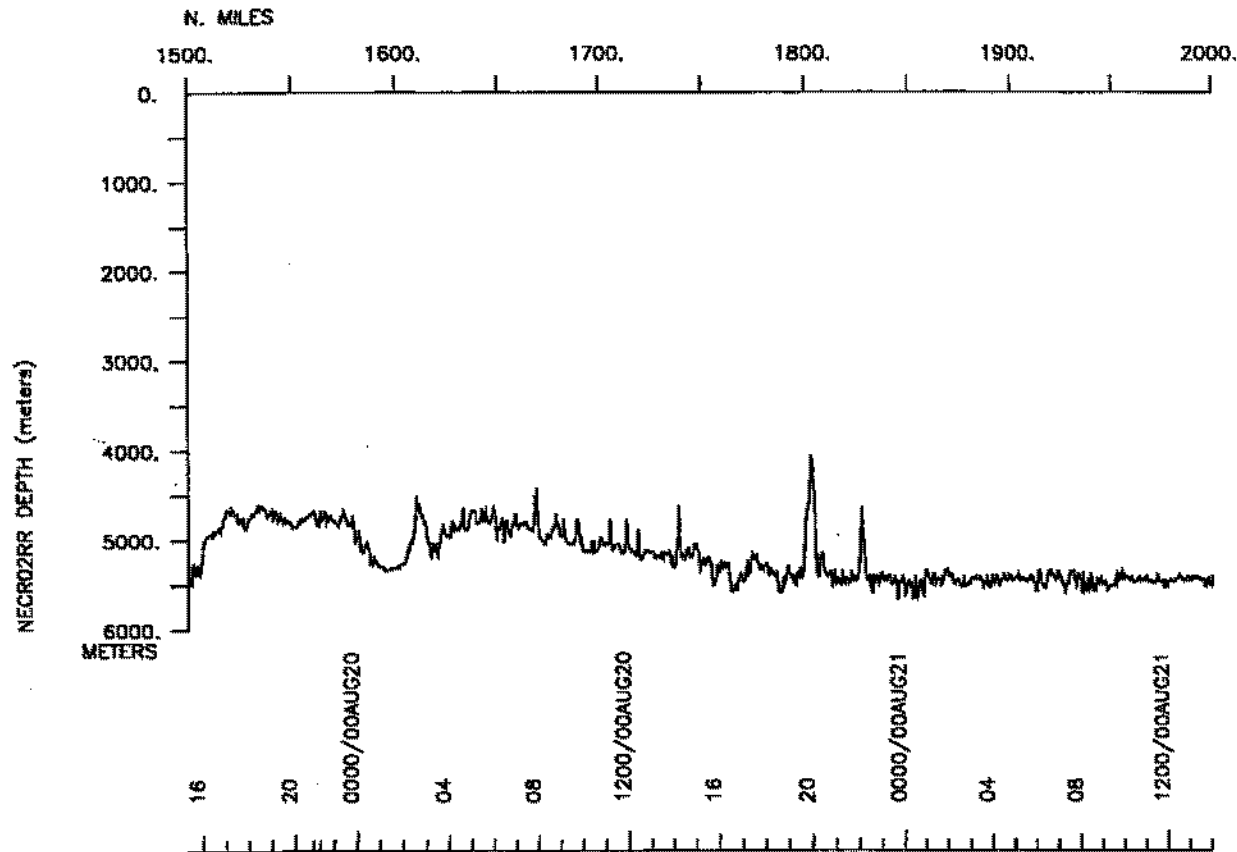
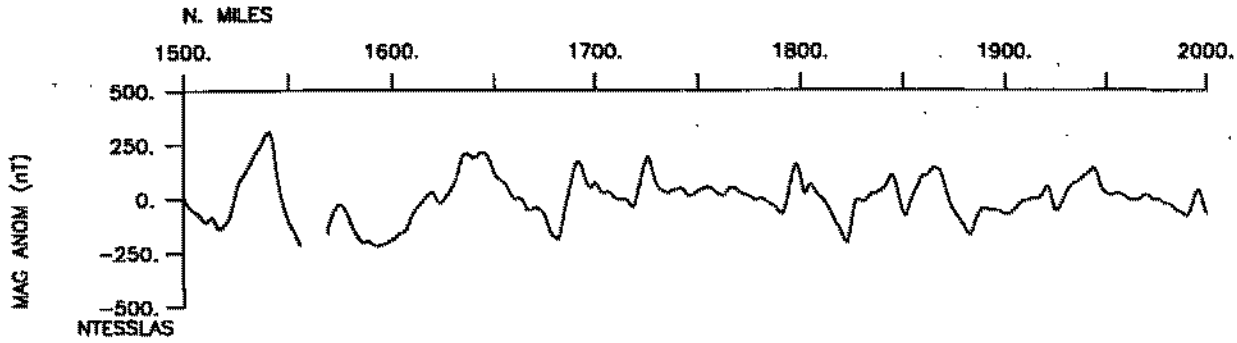
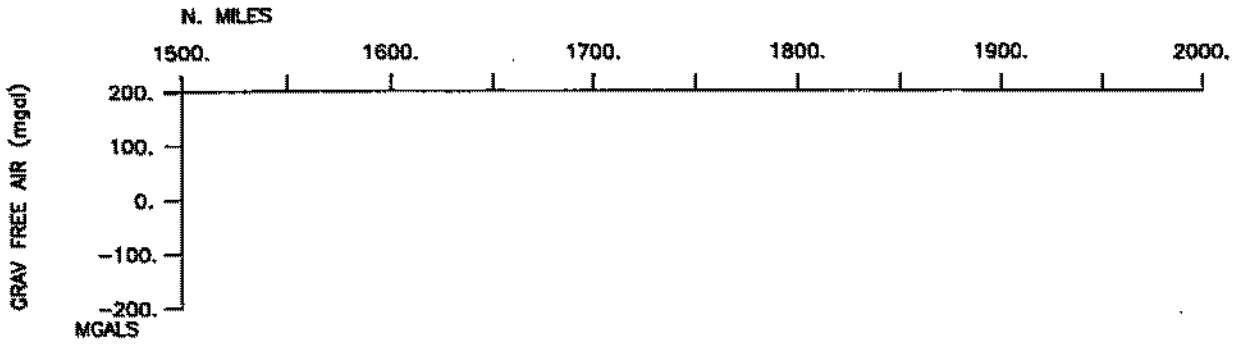
NECR leg 2 Track

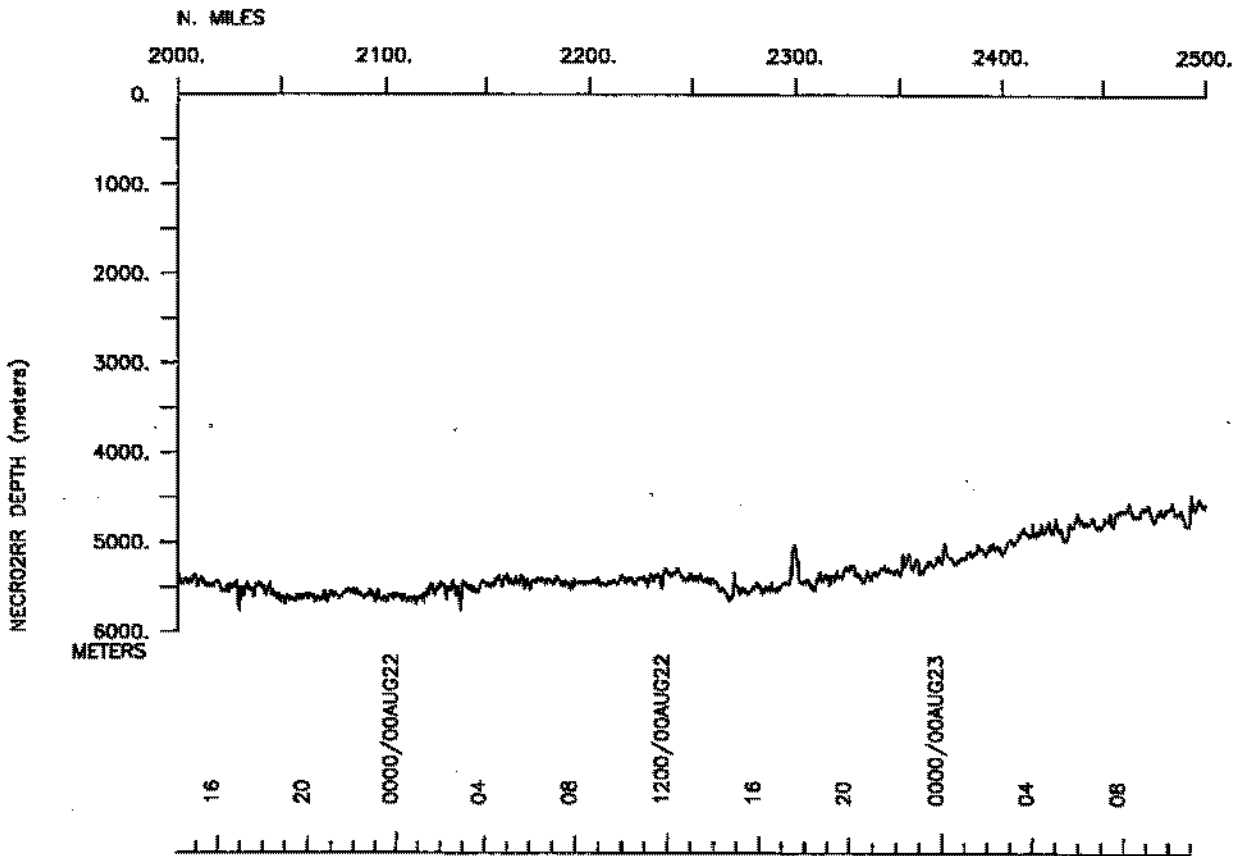
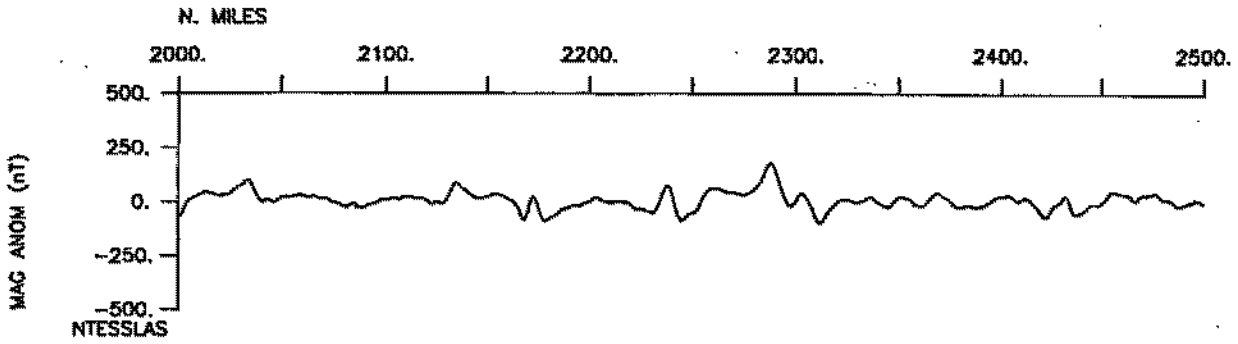
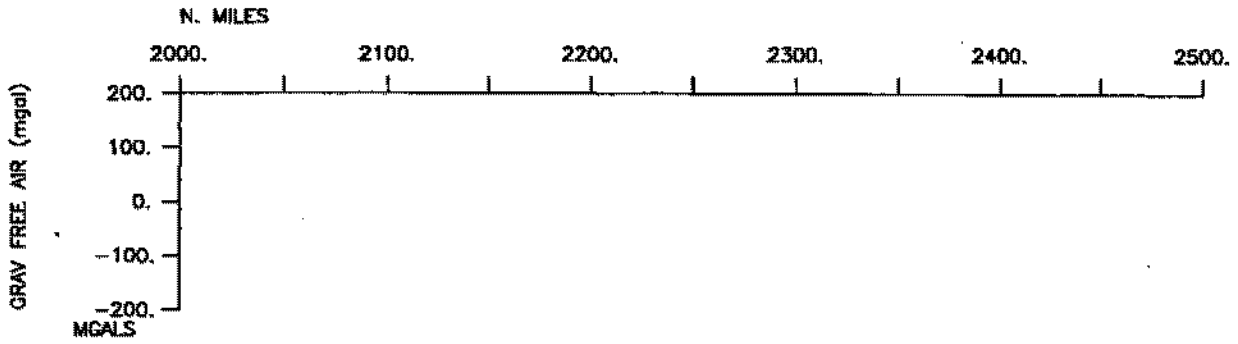


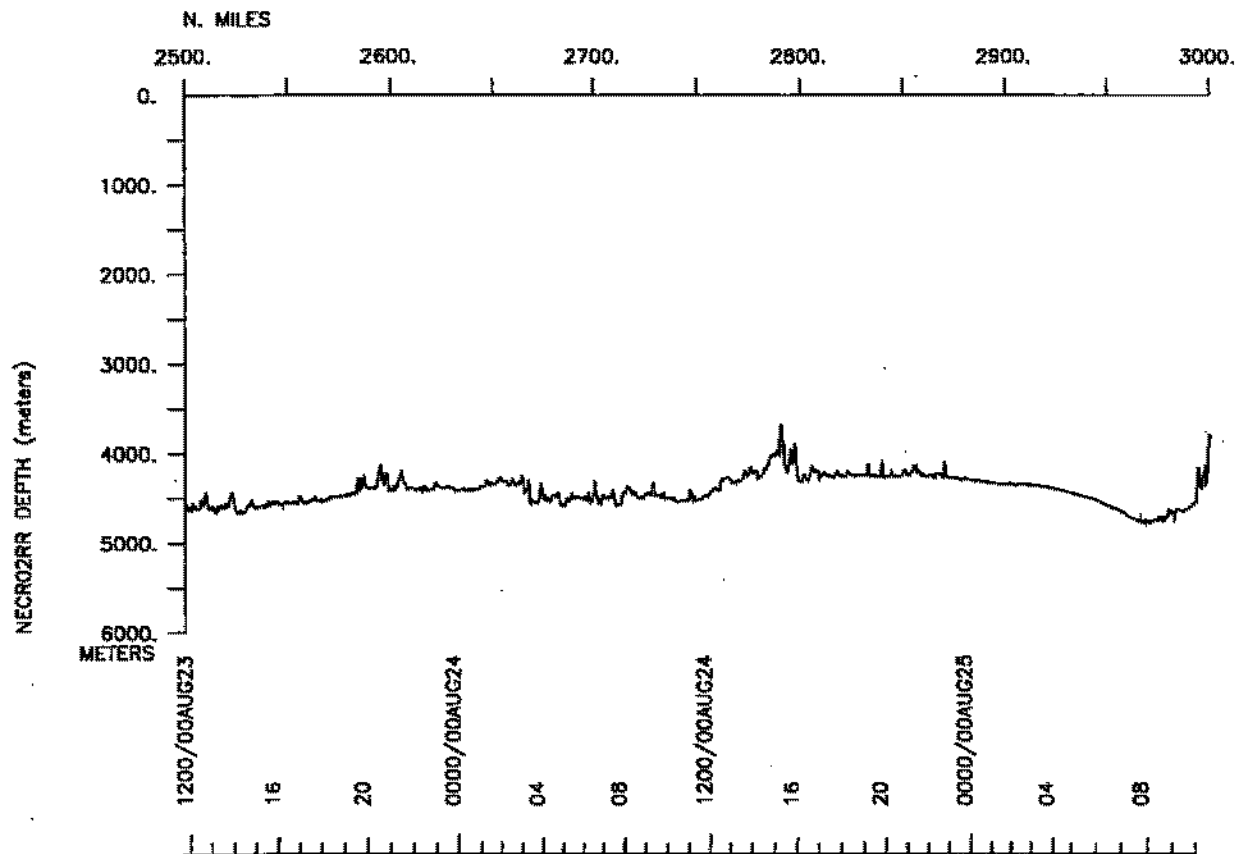
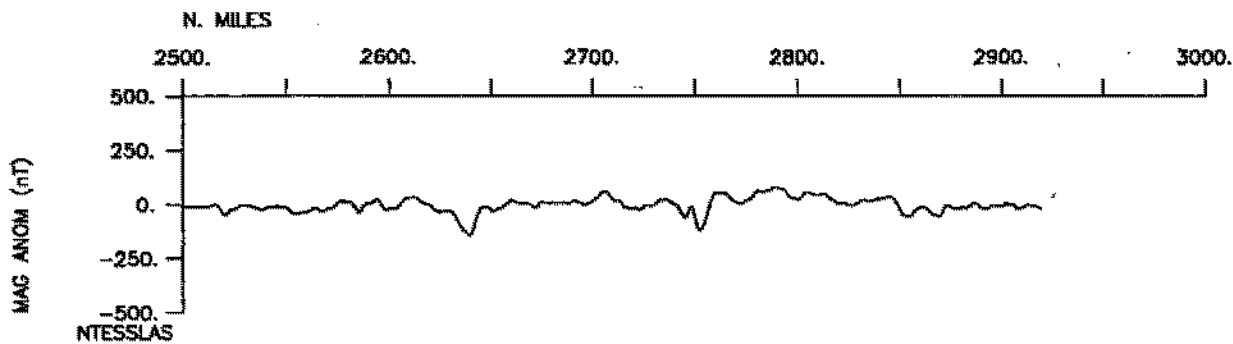
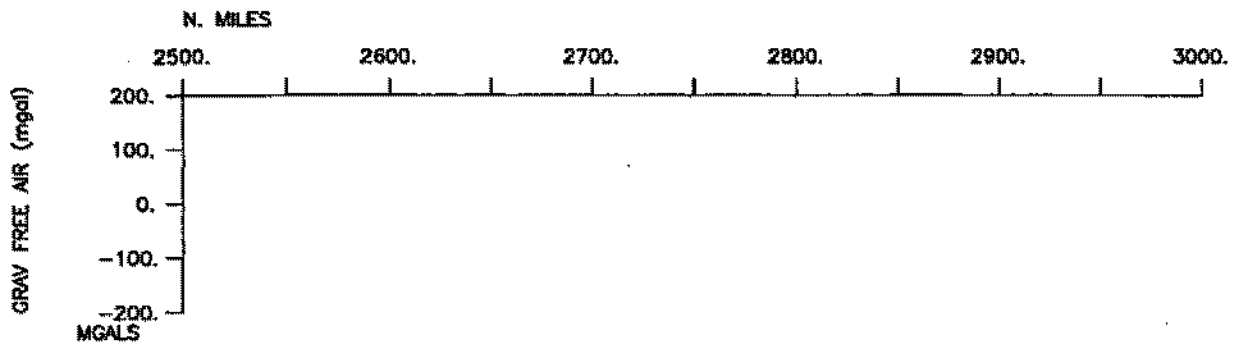


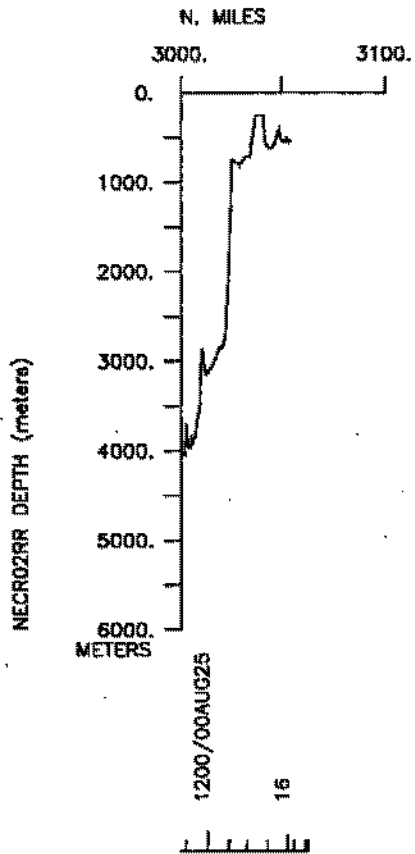
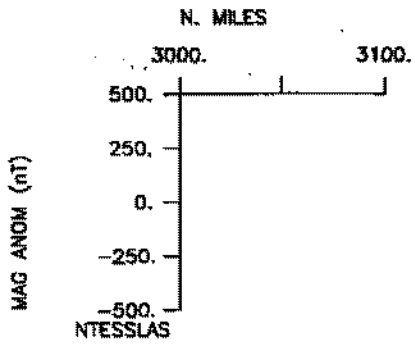
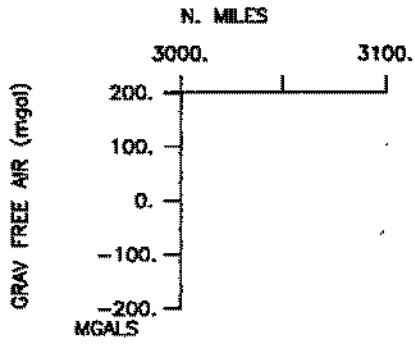












S.I.O. Sample Index

Northeast Circle Route Expedition

Leg 2

(NECR02RR)

R/V Revelle

(Issued November 2000)

PORTS:

Astoria, Oregon (13 August 2000)
to
Honolulu, Hawaii (25 August 2000)

Chief Scientist: Jeffrey Gee
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 ****

| | | | | | | | |
|------|--------|--------|------------------|-----------|------------|---|----------|
| 2250 | 130800 | LGPT B | Astoria, Oregon | 46-12.00N | 123-50.00W | f | NECR02RR |
| 1800 | 250800 | LGPT E | Honolulu, Hawaii | 21-18.00N | 157-52.00W | f | NECR02RR |

**** Personnel ****

| # | *****NAME***** | *****TITLE***** | *****AFFILIATION***** | **CRID** |
|-----------|----------------|------------------|-----------------------|----------|
| PECS GRD | Gee, J. | Chief Scientist | Scripps Institution | NECR02RR |
| PESP GRD | Cande, S. | Senior Scientist | Scripps Institution | NECR02RR |
| PEST GRD | Selkin, P. | Grad student | Scripps Institution | NECR02RR |
| PEST GRD | Varnell, S. | Grad student | Scripps Institution | NECR02RR |
| PESP LDEO | Janke, P. | Engineer | Lamont-Doherty | NECR02RR |
| PECT SCG | Moe, R. | Computer tech | Scripps Institution | NECR02RR |
| PERT STS | Baiz, T. | Resident tech | Scripps Institution | NECR02RR |

**** 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 ****

**** Log Books ****

| | | | | | | | | | | |
|------|--------|---|-----|---|--------------------|-----|-----------|------------|---|----------|
| 1502 | 140800 | 0 | LBW | B | Underway log books | GDC | 44-09.58N | 127-46.21W | g | NECR02RR |
| 0200 | 250800 | 0 | LBW | E | Underway log books | GDC | 23-19.16N | 157-16.73W | g | NECR02RR |

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

| | | | | | | | | | | |
|------|--------|---|------|---|----------------------|-----|-----------|------------|---|----------|
| 0202 | 140800 | 0 | MBSR | B | v.beam&sidescan r-01 | GDC | 45-58.07N | 124-41.80W | g | NECR02RR |
| 1607 | 250800 | 0 | MBSR | E | v.beam&sidescan r-01 | GDC | 21-13.09N | 157-49.52W | g | NECR02RR |

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

| | | | | | | | | | | |
|------|--------|---|------|---|--------------------|-----|-----------|------------|---|----------|
| 2250 | 130800 | 0 | IMET | B | Weather data coll. | GDC | 46-11.54N | 123-50.28W | g | NECR02RR |
| 1800 | 250800 | 0 | IMET | E | Weather data coll. | GDC | 21-18.35N | 157-52.18W | g | NECR02RR |

| #GMT | DDMMYY | SAMP | B | SAMPLE | DISP | | | | p | CRUISE |
|--------------------------------------|--------|------|------|------------------------|------|-----------|------------|---|---|----------|
| #TIME | DATE | TZ | CODE | E IDENTIFIER | CODE | LATITUDE | LONGITUDE | | c | LEG-SHIP |
| # | | | | | | | | | | |
| *** Doppler Systems *** | | | | | | | | | | |
| 2250 | 130800 | 0 | ADCP | B Accoustic Doppler | GDC | 46-11.54N | 123-50.28W | g | | NECR02RR |
| 1800 | 250800 | 0 | ADCP | E Current Profiler | GDC | 21-18.35N | 157-52.18W | g | | NECR02RR |
| 2250 | 130800 | 0 | ADXX | B Hydrographic Doppler | GRD | 46-11.54N | 123-50.28W | g | | NECR02RR |
| 1800 | 250800 | 0 | ADXX | E Sonar system | GRD | 21-18.35N | 157-52.18W | g | | NECR02RR |
| *** Magnetics *** | | | | | | | | | | |
| 0257 | 140800 | 0 | MGDR | B Digital magnetics | GDC | 45-51.06N | 124-55.60W | g | | NECR02RR |
| 0341 | 250800 | 0 | MGDR | E Digital magnetics | GDC | 23-10.52N | 157-19.71W | g | | NECR02RR |
| 1502 | 140800 | 0 | MGSV | B Mag survey | GRD | 44-09.58N | 127-46.21W | g | | NECR02RR |
| 1535 | 140800 | 0 | MGSV | E Mag survey | GRD | 44-05.73N | 127-52.65W | g | | NECR02RR |
| 1725 | 140800 | 0 | MGSV | B Mag survey | GRD | 44-00.66N | 128-00.97W | g | | NECR02RR |
| 2054 | 140800 | 0 | MGSV | E Mag survey | GRD | 43-41.34N | 128-32.88W | g | | NECR02RR |
| 2309 | 140800 | 0 | MGSV | B Mag survey | GRD | 43-30.65N | 128-49.99W | g | | NECR02RR |
| 2022 | 190800 | 0 | MGSV | E Mag survey | GRD | 30-36.85N | 145-24.13W | g | | NECR02RR |
| 2248 | 190800 | 0 | MGSV | B Mag survey | GRD | 30-35.55N | 145-38.97W | g | | NECR02RR |
| 0200 | 250800 | 0 | MGSV | E Mag survey | GRD | 23-19.16N | 157-16.73W | g | | NECR02RR |
| 1502 | 140800 | 0 | MGXX | B MRU Magnetometer | GRD | 44-09.58N | 127-46.21W | g | | NECR02RR |
| 1535 | 140800 | 0 | MGXX | E MRU Magnetometer | GRD | 44-05.73N | 127-52.65W | g | | NECR02RR |
| 1725 | 140800 | 0 | MGXX | B MRU Magnetometer | GRD | 44-00.66N | 128-00.97W | g | | NECR02RR |
| 2054 | 140800 | 0 | MGXX | E MRU Magnetometer | GRD | 43-41.34N | 128-32.88W | g | | NECR02RR |
| 2309 | 140800 | 0 | MGXX | B MRU Magnetometer | GRD | 43-30.65N | 128-49.99W | g | | NECR02RR |
| 2022 | 190800 | 0 | MGXX | E MRU Magnetometer | GRD | 30-36.85N | 145-24.13W | g | | NECR02RR |
| 2248 | 190800 | 0 | MGXX | B MRU Magnetometer | GRD | 30-35.55N | 145-38.97W | g | | NECR02RR |
| 0200 | 250800 | 0 | MGXX | E MRU Magnetometer | GRD | 23-19.16N | 157-16.73W | g | | NECR02RR |
| *** Expendable Bathythermographs *** | | | | | | | | | | |
| 2242 | 140800 | 0 | BTXP | XBT Deep tf_00091 | GDC | 43-33.64N | 128-45.22W | g | | NECR02RR |
| 0035 | 170800 | 0 | BTXP | XBT Deep tf_00092 | GDC | 37-13.78N | 135-10.12W | g | | NECR02RR |
| 2037 | 170800 | 0 | BTXP | XBT Deep tf_00093 | GDC | 33-47.39N | 136-49.14W | g | | NECR02RR |
| 2113 | 180800 | 0 | BTXP | XBT Deep tf_00094 | GDC | 32-54.75N | 141-50.31W | g | | NECR02RR |
| 2017 | 190800 | 0 | BTXP | XBT Deep tf_00095 | GDC | 30-36.93N | 145-23.06W | g | | NECR02RR |
| 2214 | 200800 | 0 | BTXP | XBT Deep tf_00096 | GDC | 28-31.24N | 149-52.52W | g | | NECR02RR |
| 2224 | 200800 | 0 | BTXP | XBT Deep tf_00097 | GDC | 28-30.77N | 149-54.54W | g | | NECR02RR |
| 2236 | 210800 | 0 | BTXP | XBT Deep tf_00098 | GDC | 27-34.73N | 154-26.58W | g | | NECR02RR |
| 2246 | 210800 | 0 | BTXP | XBT Deep tf_00099 | GDC | 27-35.13N | 154-24.71W | g | | NECR02RR |
| 2233 | 220800 | 0 | BTXP | XBT Deep tf_00100 | GDC | 25-57.25N | 154-11.08W | g | | NECR02RR |
| 2213 | 230800 | 0 | BTXP | XBT Deep tf_00101 | GDC | 24-03.33N | 157-03.42W | g | | NECR02RR |
| 2226 | 240800 | 0 | BTXP | XBT Deep tf_00102 | GDC | 23-23.14N | 156-45.18W | g | | NECR02RR |
| **** | | | | End Sample Index | | | | | | NECR02RR |