

Report and Index of

Underway Marine Geophysical Data

Northeast Circle Route Expedition

Leg 1

(NECR01RR)

R/V **Revelle**

(Issued November 2000)

Ports:

San Diego, California (14 July 2000)
to
Astoria, Oregon (11 August 2000)

Chief Scientist: Fred Spiess
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.

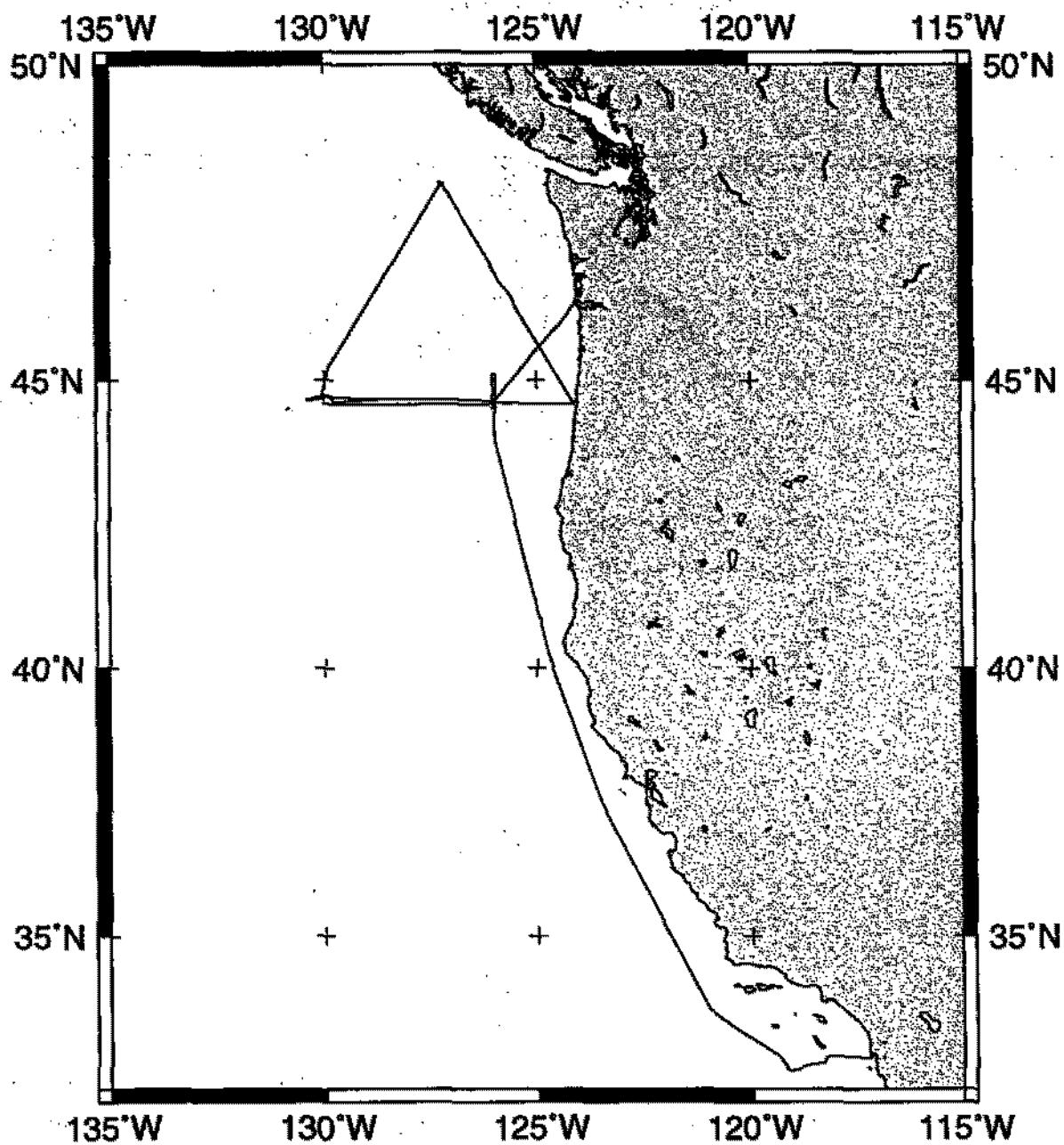
Track Charts – annotated with dates and hour ticks

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 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 1 (NECR01RR)

CHIEF SCIENTIST: Fred Spiess, Scripps Institution of Oceanography

PORTS: San Diego, California - Astoria, Oregon

DATES: 14 July - 11 August 2000

SHIP: R/V Revelle

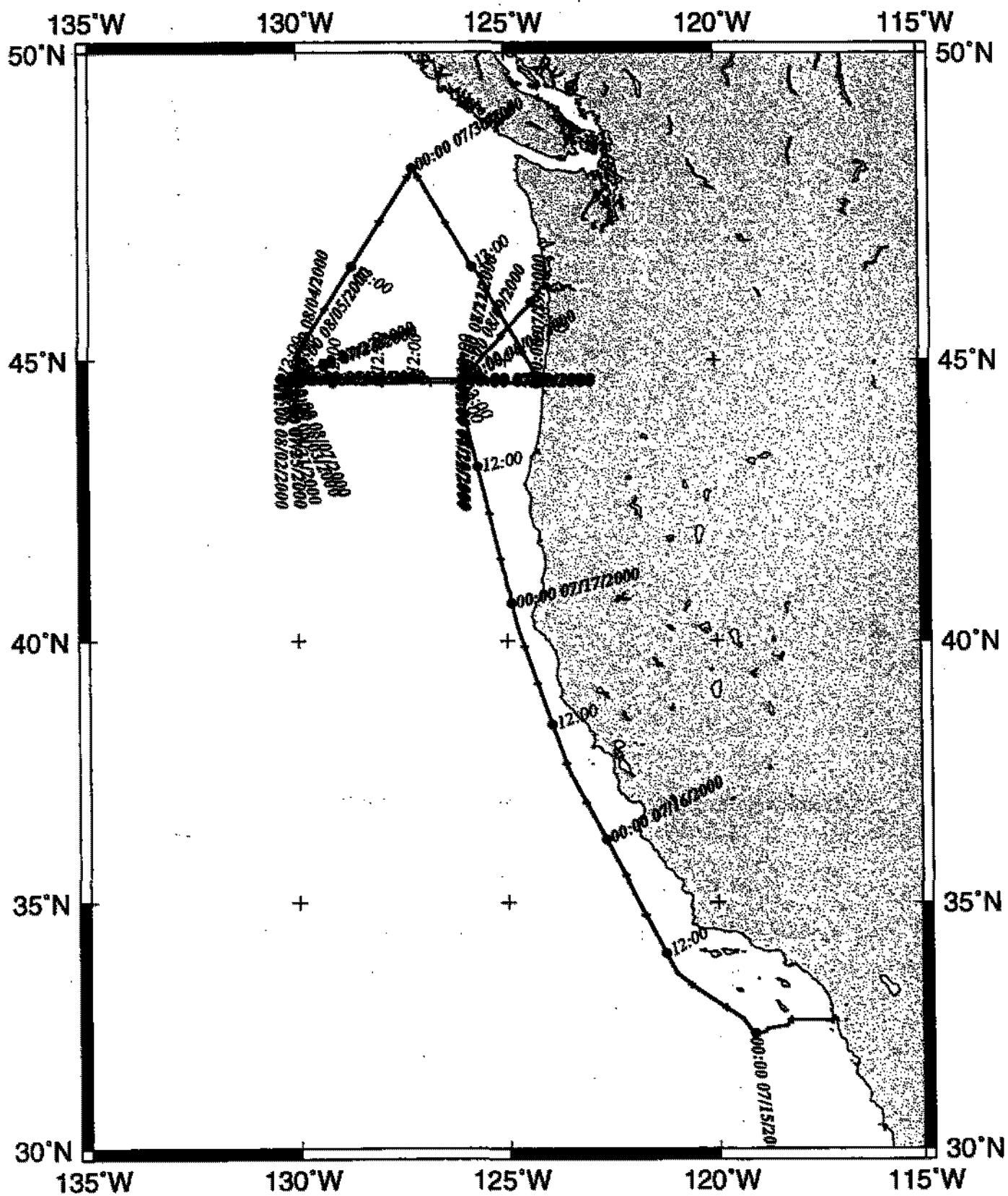
TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

Cruise- 2497 miles Magnetics- none collected

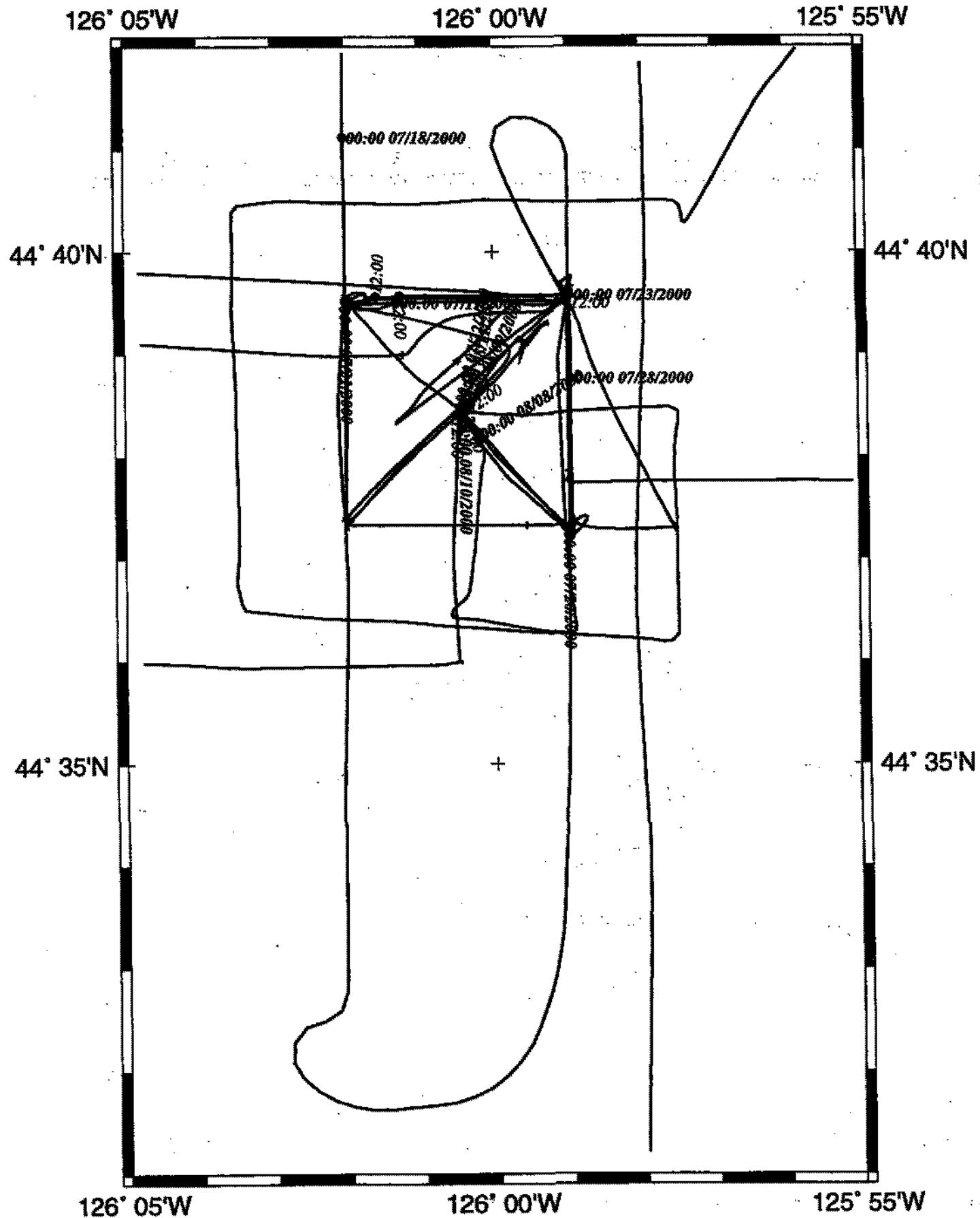
Bathymetry- 1900 miles Seismic Reflection- none collected

Sea Beam- 1900 miles Gravity- none collected

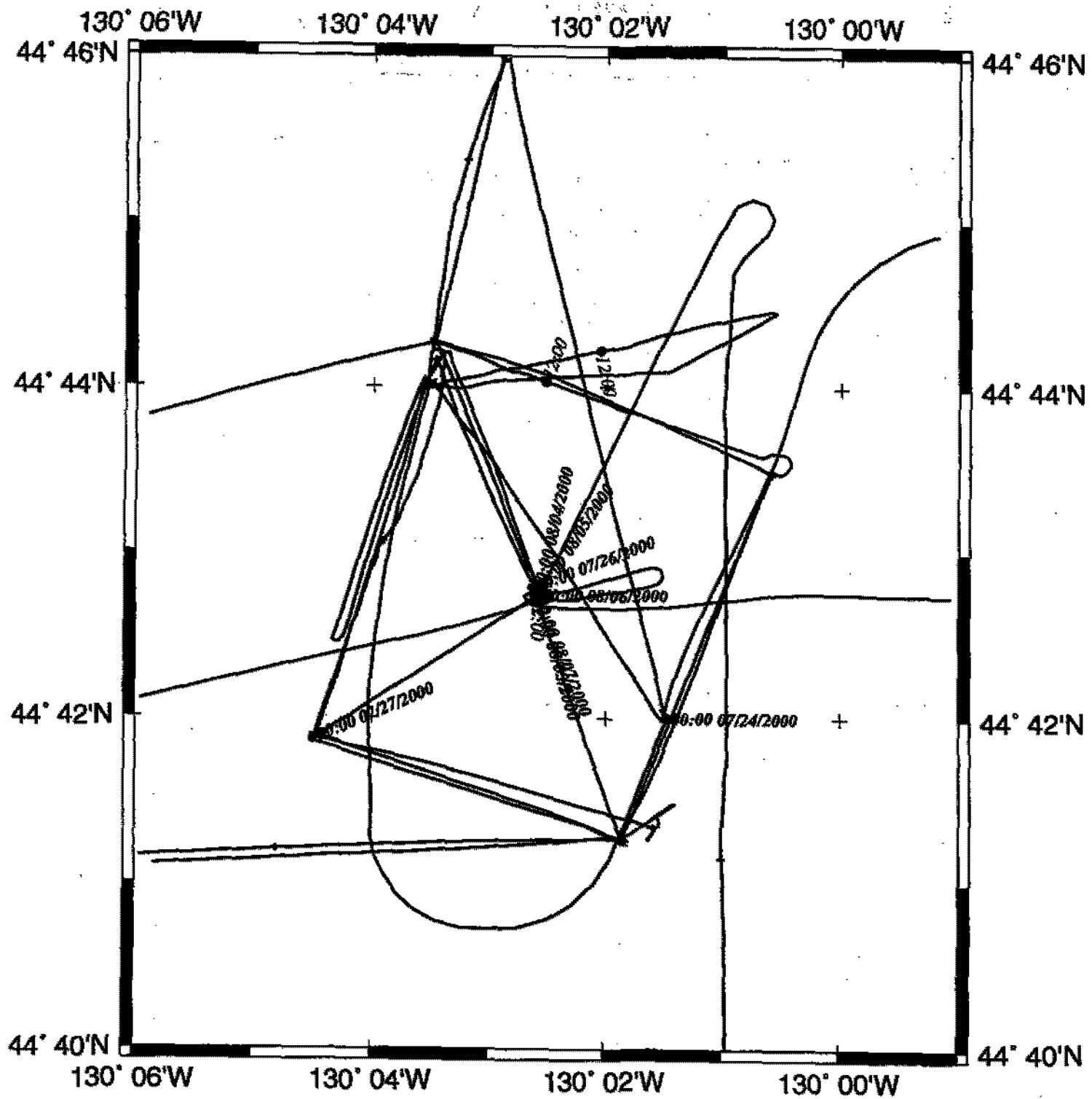
NECR leg 1 Track

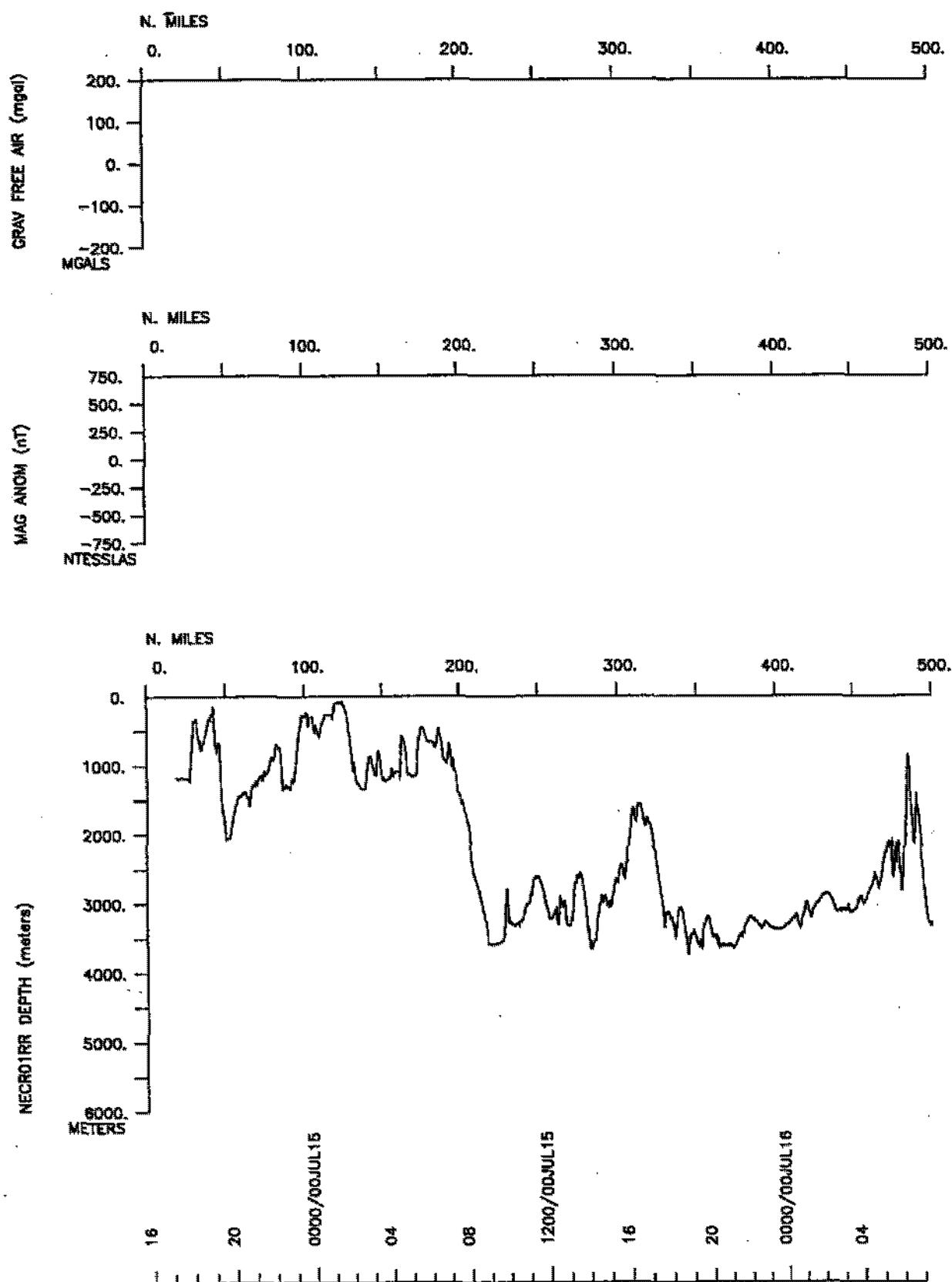


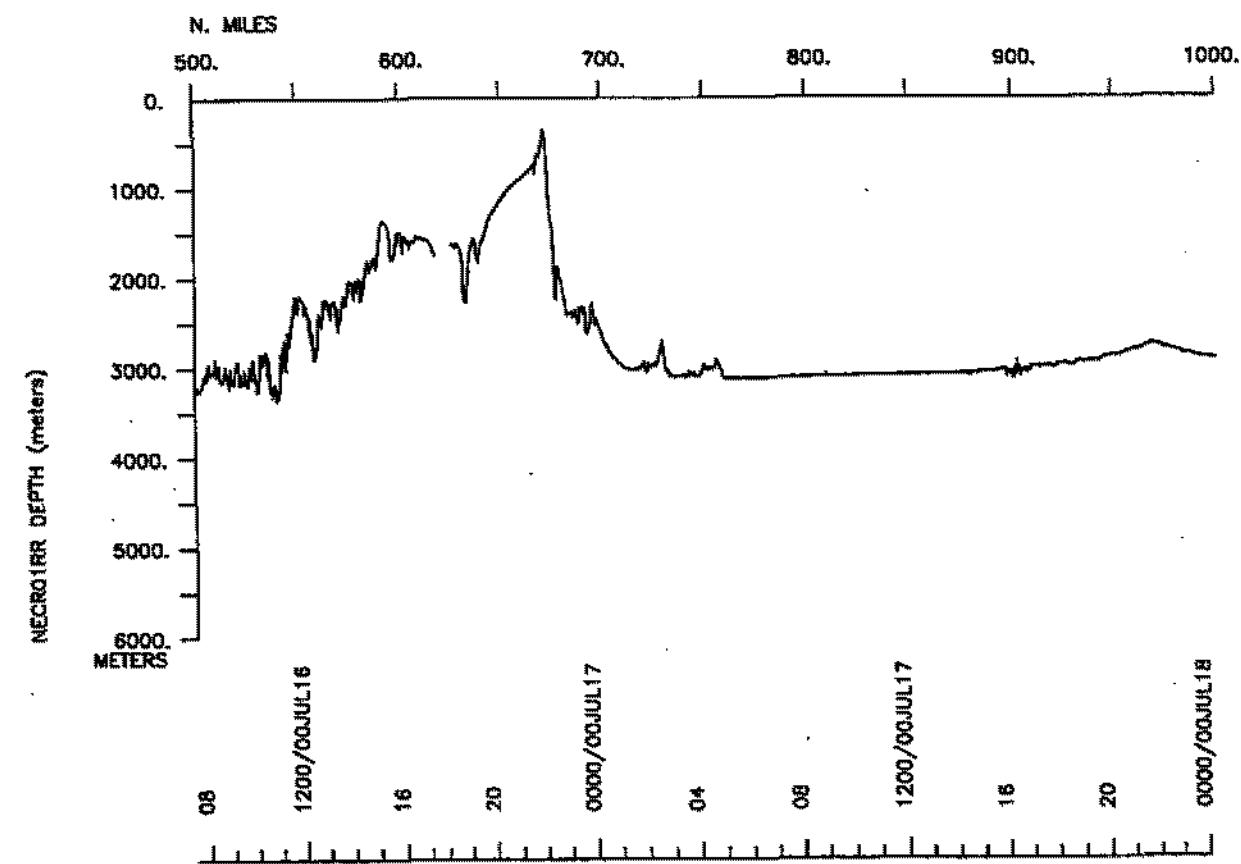
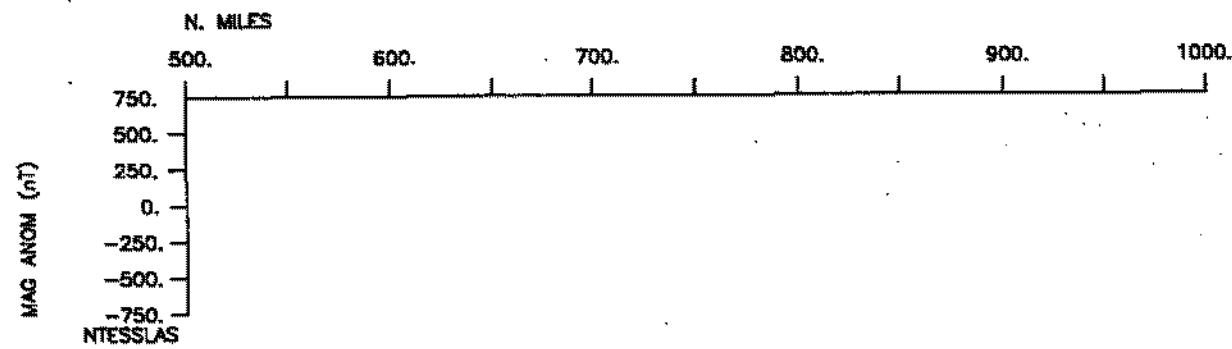
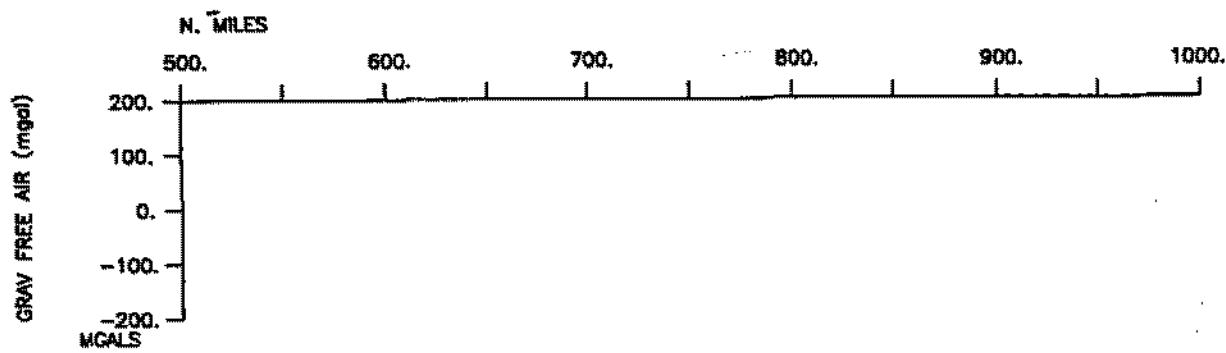
NECR01RR survey 1

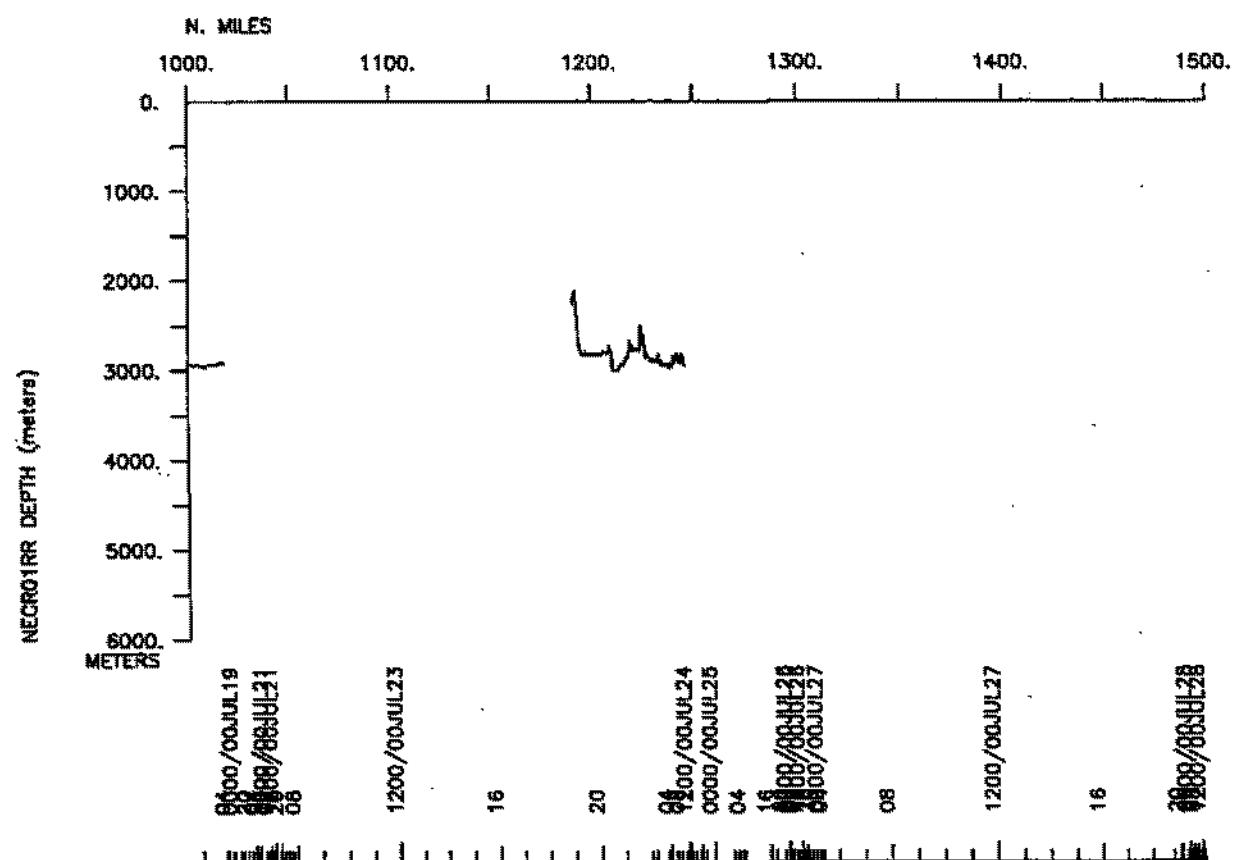
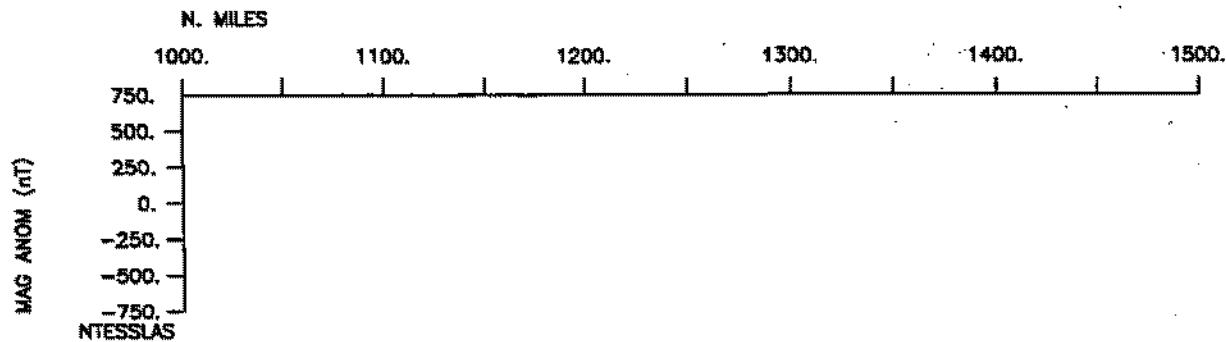
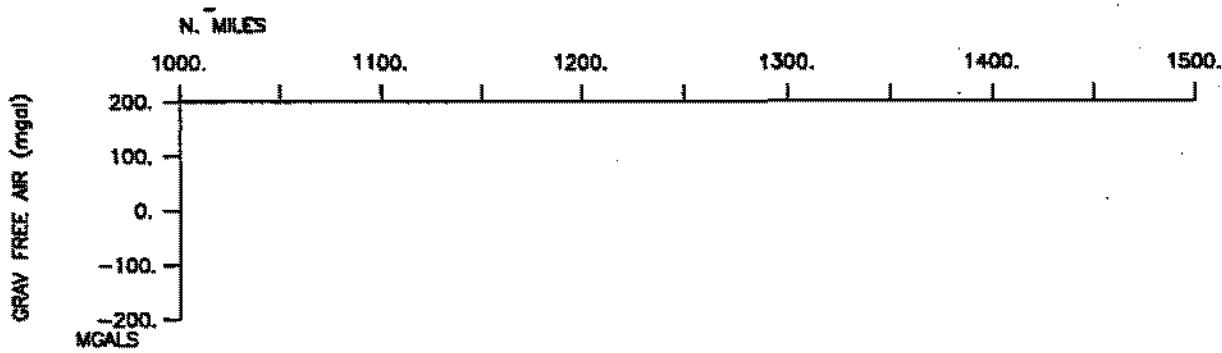


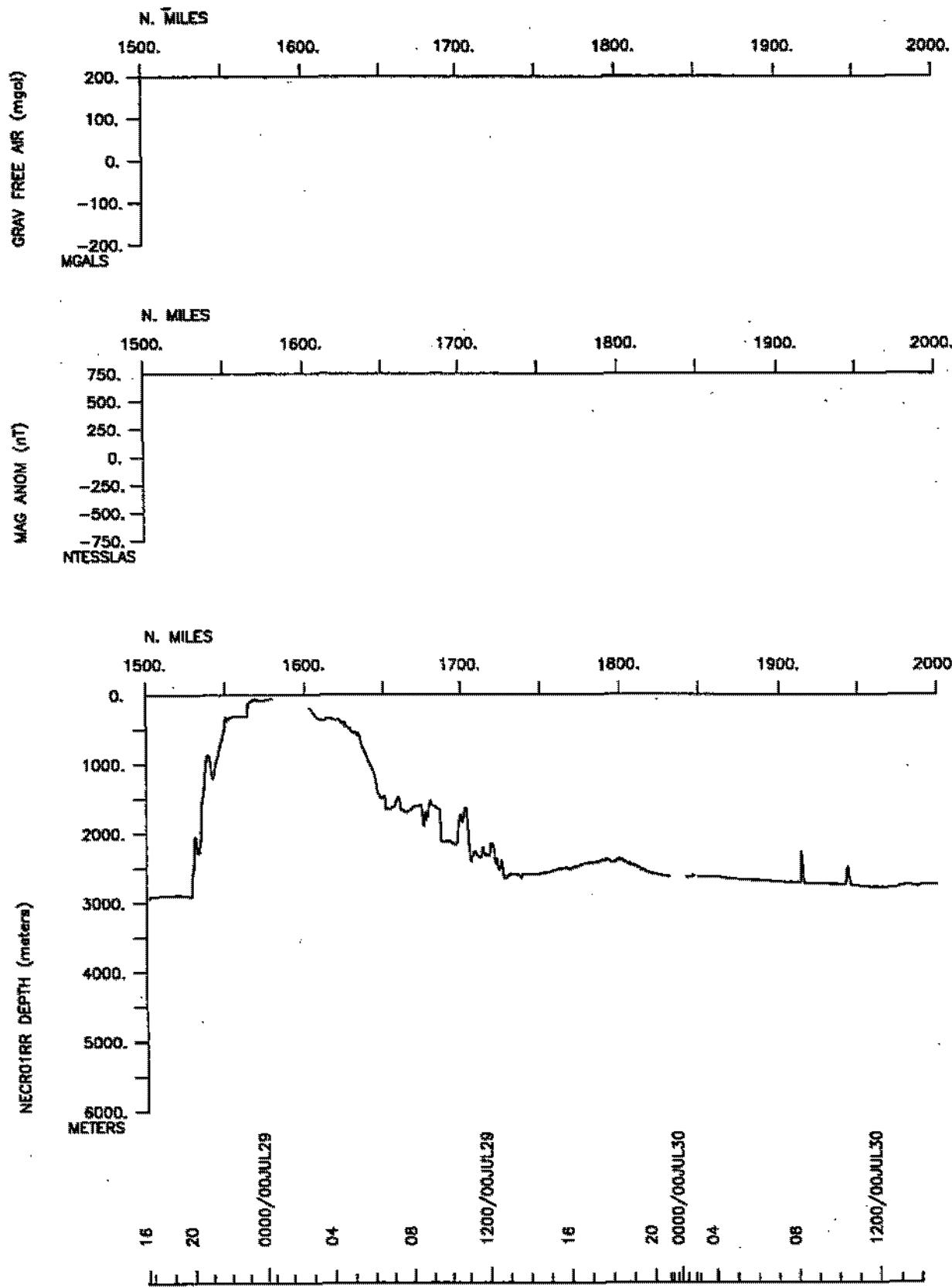
NECR01RR survey 2

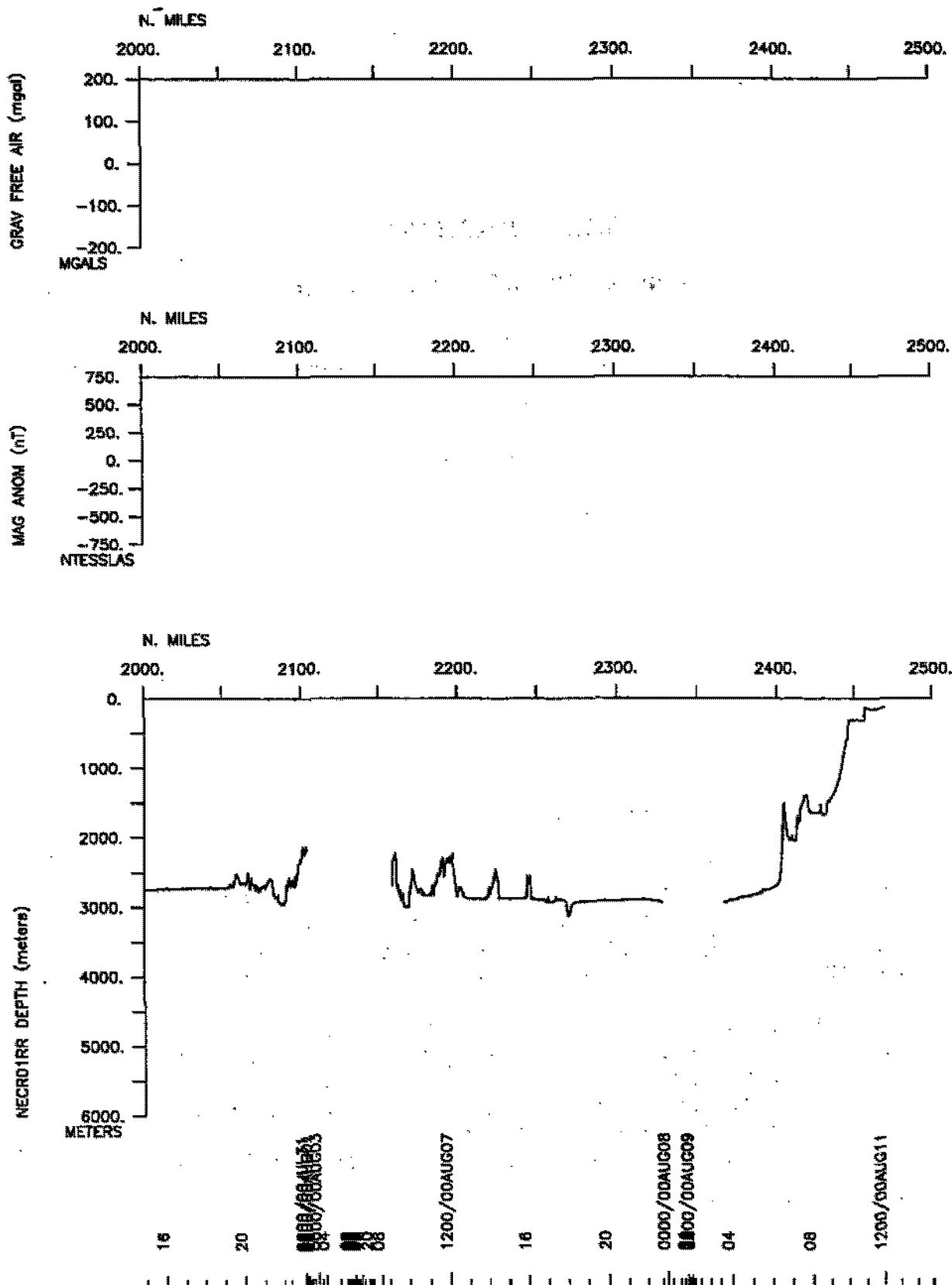












S.I.O. Sample Index

Northeast Circle Route Expedition

Leg 1

(NECR01RR)

R/V Revelle

(Issued November 2000)

PORts:

San Diego, California (14 July 2000)

to

Astoria, Oregon (11 August 2000)

**Chief Scientist: Fred Spiess
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 ***

1500 140700 0 LGPT B San Diego, Calif.	32-42.40N 117-14.17W g	NECR01RR
1500 110800 0 LGPT E Astoria, Oregon	46-11.49N 123-52.28W g	NECR01RR

**** PERSONNEL ***

#	*****NAME*****	*****TITLE*****	*****AFFILIATION*****	**CRID**
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PECS MPL	Spiess, F.	Chief Scientist	Scripps Institution	NECR01RR
PESP MPL	Hildebrand, J.	Senior scientist	Scripps Institution	NECR01RR
PESP MPL	Chadwell, D.	Senior scientist	Scripps Institution	NECR01RR
PEST SIO	Arrigoni, V.	Student intern	Scripps Institution	NECR01RR
PEST SIO	Bellanca, W.	Student intern	Scripps Institution	NECR01RR
PEST SIO	Defensor, N.	Student intern	Scripps Institution	NECR01RR
PESP MPL	Kabson, D.	Engineer	Scripps Institution	NECR01RR
PEST JPN	Osada, Y.	Graduate student	Tokyo Univ. Japan	NECR01RR
PESP MPL	Price, D.	Electronics tech	Scripps Institution	NECR01RR
PEST SIO	Sweeney, A.	Graduate student	Scripps Institution	NECR01RR
PESP MPL	Zimmerman, R.	Engineer	Scripps Institution	NECR01RR
PECT SCG	Moe, R.	Computer tech	Scripps Institution	NECR01RR
PERT STS	Baiz, T.	Res tech	Scripps Institution	NECR01RR
PESP MPL	Friesma, E.	Engineer	Scripps Institution	NECR01RR
PESP JPN	Miura, S.	Scientist	Tohoku Univ. Japan	NECR01RR
PEVL MPL	Lindquist	Student volunteer	Scripps Institution	NECR01RR
PEVL MPL	Williams, E.	Volunteer	Scripps Institution	NECR01RR
PEVL MPL	Olivares, N.	Volunteer	Scripps Institution	NECR01RR
PESP SIO	Colgan, C.	Photographer	Scripps Institution	NECR01RR

**** 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 ***

2215 200700 0 LBSC B CTD Log Book	ODF	44-39.51N 126-02.00W g	NECR01RR
0045 110800 0 LBSC E CTD Log Book	ODF	44-38.44N 125-58.83W g	NECR01RR
2100 190700 0 LBSC B Deep Tow Log Book	MPL	44-37.30N 125-59.00W g	NECR01RR
0045 110800 0 LBSC E Deep Tow Log Book	MPL	44-38.44N 125-58.83W g	NECR01RR

**** Sea Beam Records ***

1700 140700 0 MBSR B v.beam&sidescan r-01 GDC	32-38.32N 117-28.10W g	NECR01RR
1208 110800 0 MBSR E v.beam&sidescan r-01 GDC	46-00.01N 124-21.36W g	NECR01RR

**** Acoustic Doppler Current Profiler ***

1600 140700 0 ADCP B acoustic doppler	GDC	32-38.22N 117-14.09W g	NECR01RR
1500 110800 0 ADCP E current profiler	GDC	46-11.49N 123-52.28W g	NECR01RR

#GMT DDMMYY	SAMP	B SAMPLE	DISP	P CRUISE		
#TIME DATE	TZ	CODE E IDENTIFIER	CODE	LATITUDE	LONGITUDE	c LEG-SHIP

**** Integrated Meteorological Acquisition System ***

1600 140700	0	IMET B weather data	GDC	32-38.22N	117-14.09W	g NECR01RR
1500 110800	0	IMET E weather data	GDC	46-11.49N	123-52.28W	g NECR01RR

**** Current Meter Doppler ***

1948 180700	0	CMXX B Hydrographic doppler	SIO	44-39.50N	125-59.00W	g NECR01RR
1726 100800	0	CMXX E sonar system	SIO	44-38.42N	126-00.45W	g NECR01RR

**** Tide Gauge ***

1948 180700	0	CMTG B Tide gauge	MPL	44-39.50N	125-59.00W	g NECR01RR
0700 230700	0	CMTG E Tide gauge	MPL	44-39.56N	125-59.11W	g NECR01RR
1646 250700	0	CMTG B Tide gauge	MPL	44-41.26N	130-01.87W	g NECR01RR
2155 260700	0	CMTG E Tide gauge	MPL	44-41.27N	130-01.64W	g NECR01RR
2220 300700	0	CMTG B Tide gauge	MPL	44-44.27N	130-03.49W	g NECR01RR
1735 060800	0	CMTG E Tide gauge	MPL	44-44.20N	130-03.40W	g NECR01RR
2343 070800	0	CMTG B Tide gauge	MPL	44-38.48N	126-00.47W	g NECR01RR
1726 100800	0	CMTG E Tide gauge	MPL	44-38.42N	126-00.45W	g NECR01RR

**** Deep Tow Vehicle ***

2120 190700	0	DTXX B Deep Tow Control vcl	MPL	44-37.30N	125-59.00W	g NECR01RR
0542 200700	0	DTXX E Deep Tow Control vcl	MPL	44-38.47N	126-00.42W	g NECR01RR
0118 210700	0	DTXX B Deep Tow Control vcl	MPL	44-39.51N	126-02.00W	g NECR01RR
1543 210700	0	DTXX E Deep Tow Control vcl	MPL	44-39.50N	126-02.00W	g NECR01RR
2006 210700	0	DTXX B Deep Tow Control vcl	MPL	44-38.47N	126-00.46W	g NECR01RR
0052 220700	0	DTXX E Deep Tow Control vcl	MPL	44-38.48N	126-00.47W	g NECR01RR
1348 220700	0	DTXX B Deep Tow Control vcl	MPL	44-37.37N	126-01.96W	g NECR01RR
1646 220700	0	DTXX E Deep Tow Control vcl	MPL	44-37.37N	126-01.96W	g NECR01RR
2240 220700	0	DTXX B Deep Tow Control vcl	MPL	44-39.50N	125-59.00W	g NECR01RR
0409 230700	0	DTXX E Deep Tow Control vcl	MPL	44-39.66N	125-58.95W	g NECR01RR
1915 250700	0	DTXX B Deep Tow Control vcl	MPL	44-44.27N	130-03.49W	g NECR01RR
2322 250700	0	DTXX E Deep Tow Control vcl	MPL	44-44.27N	130-03.49W	g NECR01RR
0229 260700	0	DTXX B Deep Tow Control vcl	MPL	44-41.26N	130-01.87W	g NECR01RR
2005 260700	0	DTXX E Deep Tow Control vcl	MPL	44-41.87N	130-04.50W	g NECR01RR
2319 260700	0	DTXX B Deep Tow Control vcl	MPL	44-41.87N	130-04.50W	g NECR01RR
0512 270700	0	DTXX E Deep Tow Control vcl	MPL	44-42.74N	130-02.60W	g NECR01RR
2050 270700	0	DTXX B Deep Tow Control vcl	MPL	44-39.58N	125-58.95W	g NECR01RR
1736 280700	0	DTXX E Deep Tow Control vcl	MPL	44-37.78N	125-59.00W	g NECR01RR

#	GMT DDMMYY	SAMP	B SAMPLE	DISP	P CRUISE		
#	TIME DATE	TZ	CODE E IDENTIFIER	CODE	LATITUDE	LONGITUDE	c LEG-SHIP
	**** Conductivity, Temperature, Depth ***						
2215	200700	0	TDCT B ctd 001	ODF	44-39.51N	126-02.00W	g NECR01RR
0007	210700	0	TDCT E ctd 001	ODF	44-39.51N	126-02.00W	g NECR01RR
2226	230700	0	TDCT B ctd 002	ODF	44-42.01N	130-01.48W	g NECR01RR
0010	240700	0	TDCT E ctd 003	ODF	44-42.00N	130-01.48W	g NECR01RR
0155	240700	0	TDCT B ctd 003	ODF	44-44.00N	130-03.53W	g NECR01RR
0341	240700	0	TDCT E ctd 004	ODF	44-44.00N	130-03.52W	g NECR01RR
0632	240700	0	TDCT B ctd 004	ODF	44-42.00N	130-01.50W	g NECR01RR
0818	240700	0	TDCT E ctd 004	ODF	44-42.00N	130-01.50W	g NECR01RR
0855	240700	0	TDCT B ctd 005	ODF	44-44.01N	130-03.50W	g NECR01RR
1045	240700	0	TDCT E ctd 005	ODF	44-44.00N	130-03.50W	g NECR01RR
1536	240700	0	TDCT B ctd 006	ODF	44-41.87N	130-04.50W	g NECR01RR
1718	240700	0	TDCT E ctd 006	ODF	44-41.87N	130-04.50W	g NECR01RR
0319	250700	0	TDCT B ctd 007-014	ODF	44-40.45N	130-23.18W	g NECR01RR
1400	250700	0	TDCT E ctd 007-014	ODF	44-40.45N	130-23.18W	g NECR01RR
2355	250700	0	TDCT B ctd 015	ODF	44-42.77N	130-02.63W	g NECR01RR
0142	260700	0	TDCT E ctd 015	ODF	44-42.74N	130-02.60W	g NECR01RR
0053	310700	0	TDCT B ctd 016-065	ODF	44-40.42N	130-23.14W	g NECR01RR
2106	020800	0	TDCT E ctd 016-065	ODF	44-40.45N	130-23.17W	g NECR01RR
2200	020800	0	TDCT B ctd 066	ODF	44-40.30N	130-25.00W	g NECR01RR
0000	030800	0	TDCT E ctd 066	ODF	44-40.30N	130-25.01W	g NECR01RR
0017	030800	0	TDCT B ctd 067	ODF	44-41.36N	130-21.81W	g NECR01RR
0127	030800	0	TDCT E ctd 067	ODF	44-41.37N	130-21.81W	g NECR01RR
0207	030800	0	TDCT B ctd 068	ODF	44-39.16N	130-22.71W	g NECR01RR
0334	030800	0	TDCT E ctd 068	ODF	44-39.16N	130-22.72W	g NECR01RR
0628	030800	0	TDCT B ctd 069-114	ODF	44-42.74N	130-02.60W	g NECR01RR
1517	060800	0	TDCT E ctd 069-114	ODF	44-42.74N	130-02.58W	g NECR01RR
1822	060800	0	TDCT B ctd 115-121	ODF	44-42.75N	130-02.59W	g NECR01RR
0639	070800	0	TDCT E ctd 115-121	ODF	44-42.75N	130-02.59W	g NECR01RR
0357	080800	0	TDCT B ctd 122-155	ODF	44-38.47N	126-00.47W	g NECR01RR
1604	100800	0	TDCT E ctd 122-155	ODF	44-38.43N	126-00.40W	g NECR01RR
1752	100800	0	TDCT B ctd 156-159	ODF	44-38.45N	126-00.38W	g NECR01RR
0025	110800	0	TDCT E ctd 156-159	ODF	44-38.45N	126-00.37W	g NECR01RR

**** Expendable Bathythermographs ***

2254	140700	0	BTXP XBT tf_00083.edf	GDC	32-25.52N	118-51.82W	g NECR01RR
2014	150700	0	BTXP XBT tf_00084.edf	GDC	35-33.42N	122-15.96W	g NECR01RR
2039	160700	0	BTXP XBT tf_00086.edf	GDC	40-01.47N	124-38.71W	g NECR01RR
1943	170700	0	BTXP XBT tf_00087.edf	GDC	44-42.05N	125-57.98W	g NECR01RR
1922	230700	0	BTXP XBT tf_00088.edf	GDC	44-39.33N	129-21.54W	g NECR01RR
1918	280700	0	BTXP XBT tf_00089.edf	GDC	44-37.49N	125-30.86W	g NECR01RR
2140	300700	0	BTXP XBT tf_00090.edf	GDC	44-47.68N	130-02.40W	g NECR01RR

End Sample Index NECR01RR