

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

Leg 4

(NECR04RR)

R/V Revelle

(Issued January 2001)

Ports:

Honolulu, Hawaii (5 October 2000)

to

Honolulu, Hawaii (6 November 2000)

**Chief Scientist: Michael Gregg
University of Washington**

**Computer Tech – Dan Jacobson
Resident Marine Tech – Seth Mogk**

**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.

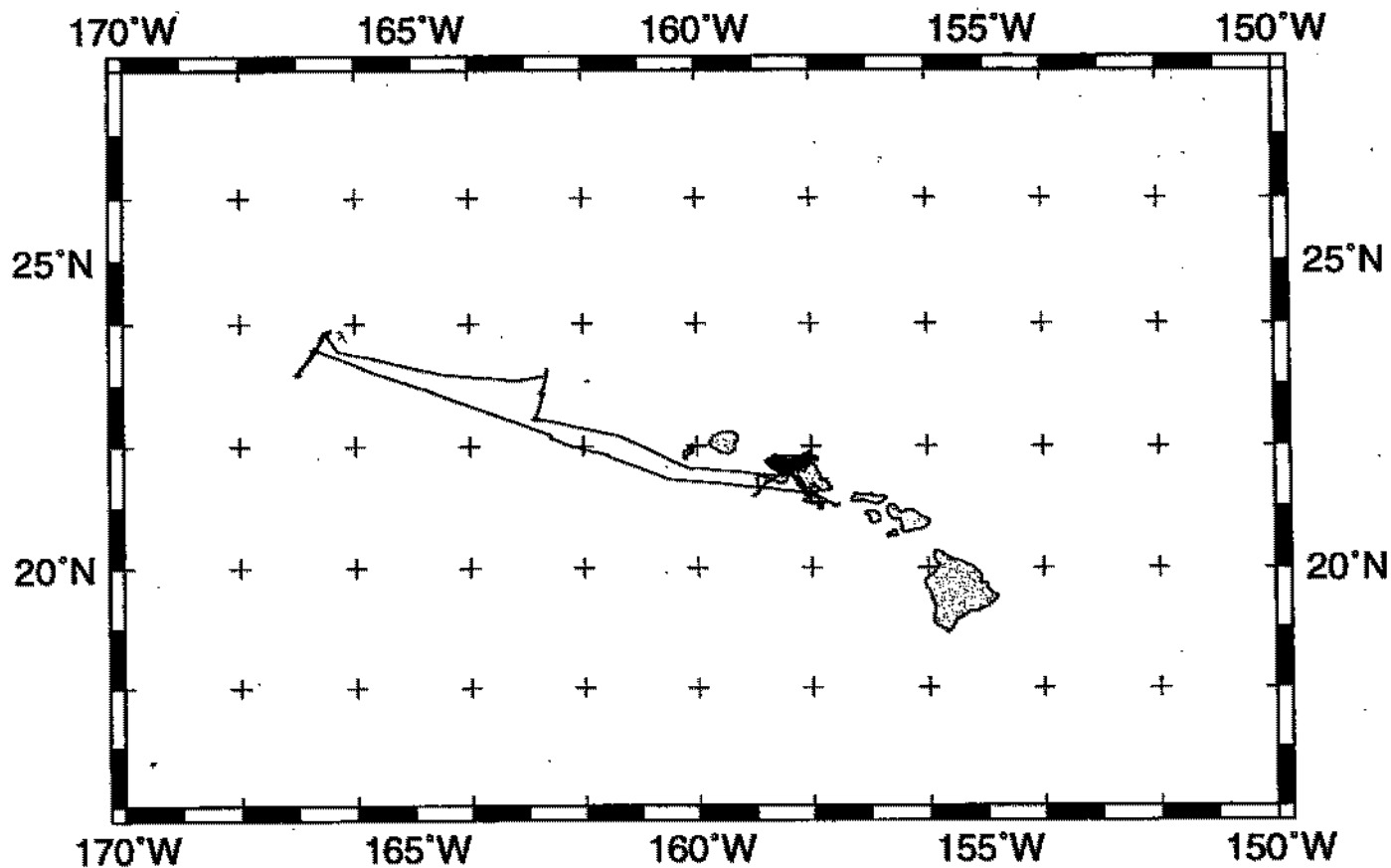
Track Charts– annotated with dates and hour ticks

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 4 (NECR04RR)

CHIEF SCIENTIST: Michael Gregg, University of Washington

PORTS: Honolulu - Honolulu, Hawaii

DATES: 5 October - 6 November 2000

SHIP: R/V Revelle

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

Cruise-3327 miles

Magnetics-none collected

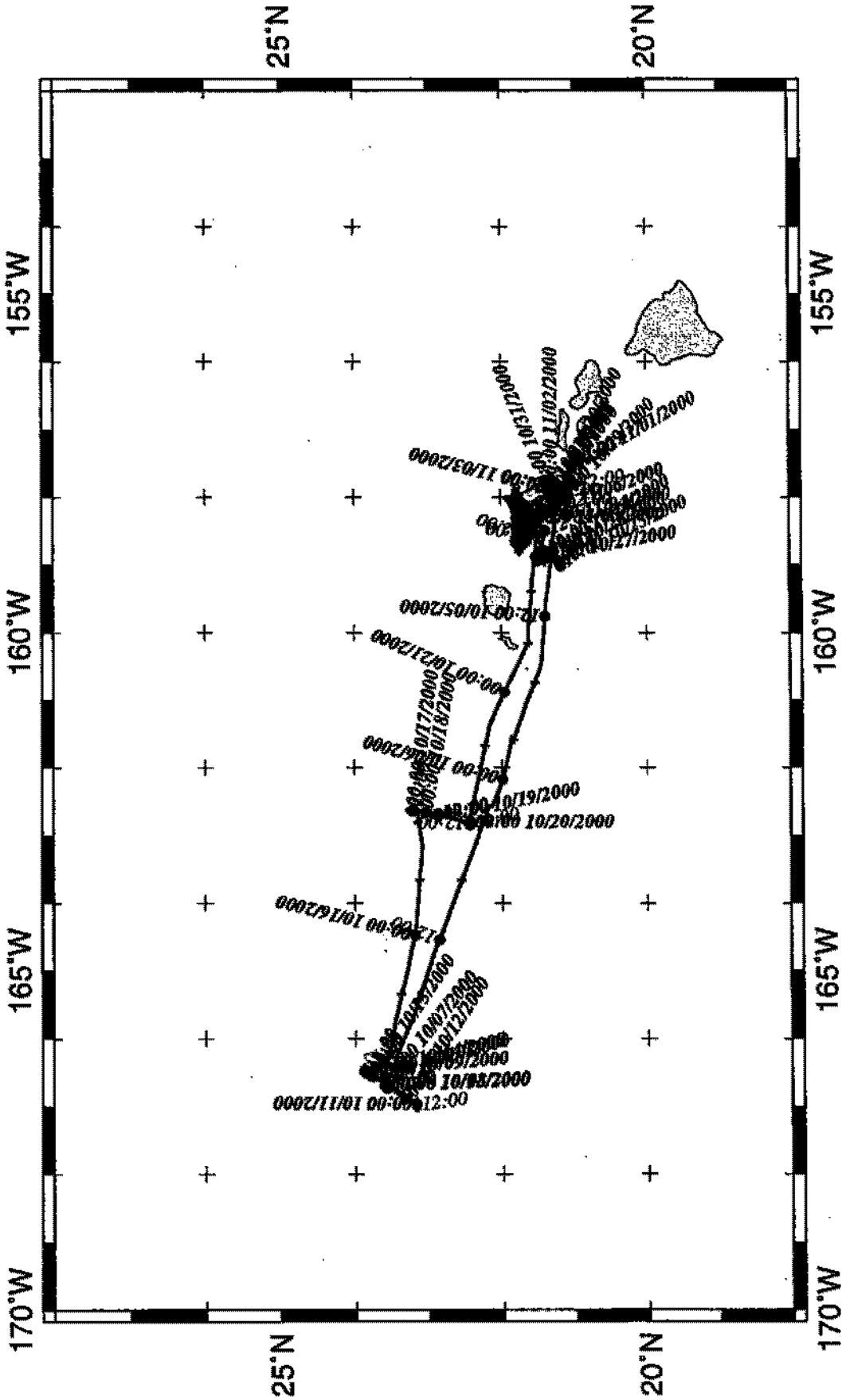
Bathymetry-870 miles

Seismic Reflection-none collected

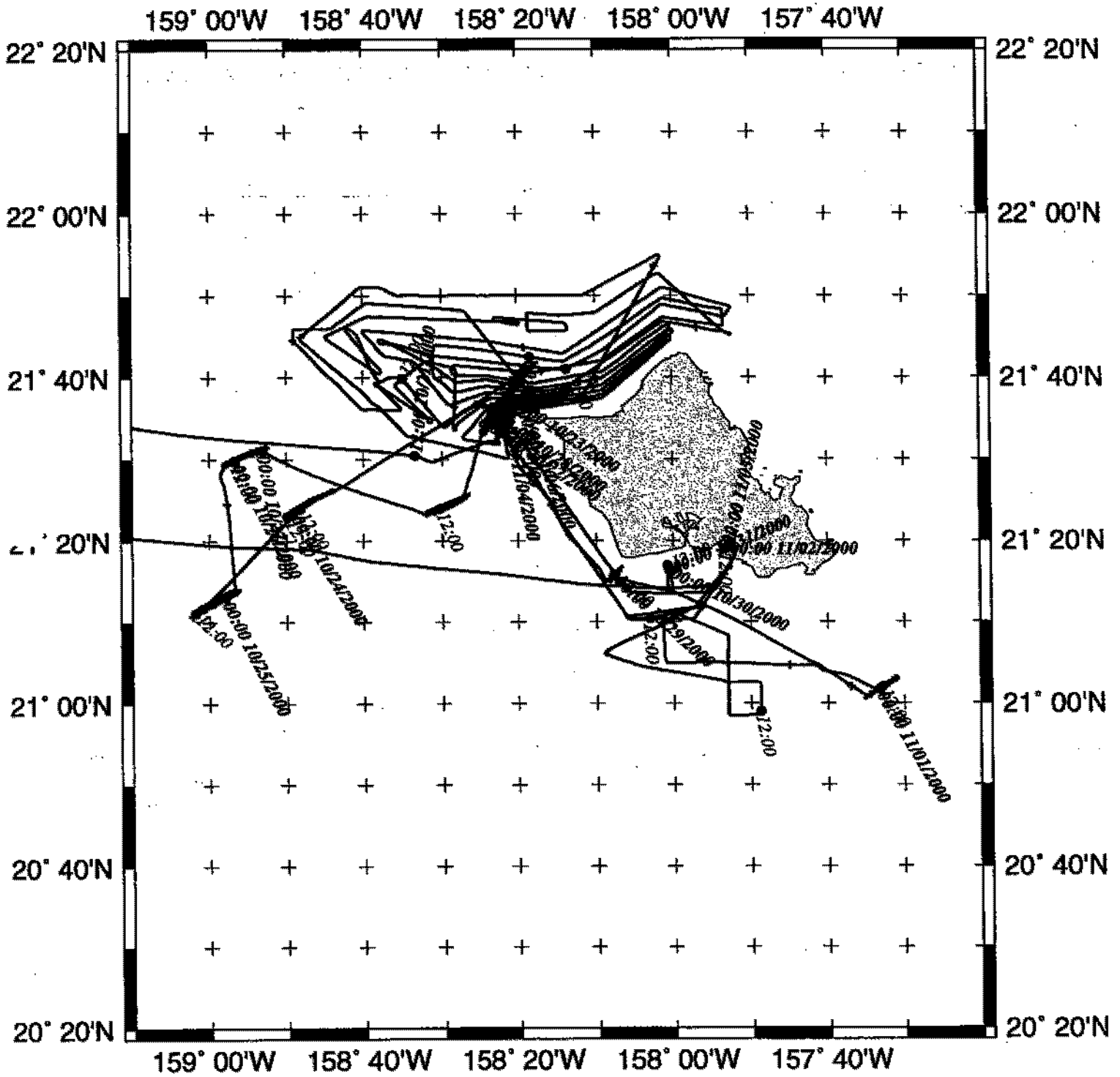
Sea Beam-870 miles

Gravity-none collected

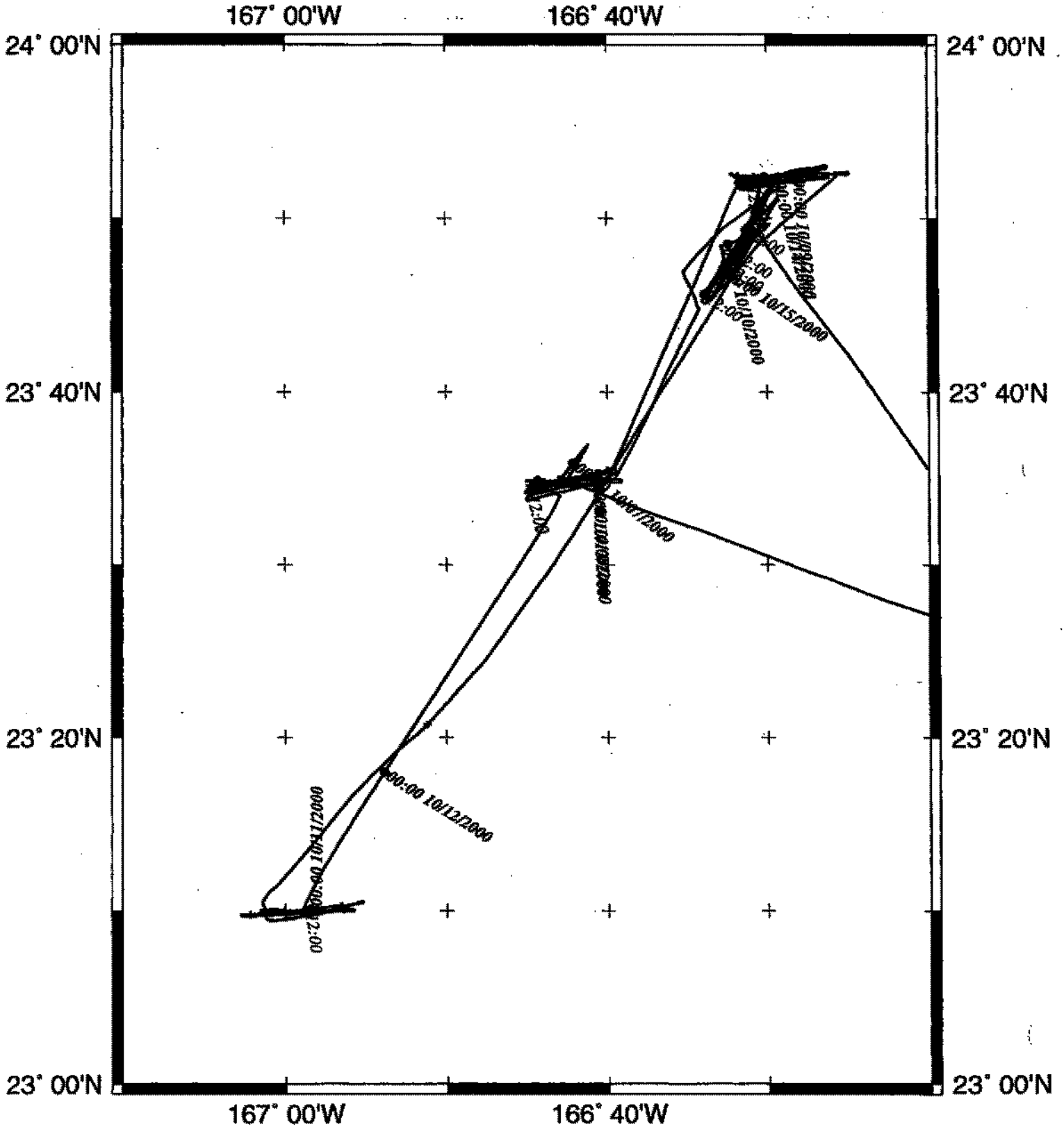
NECR leg 4 Track

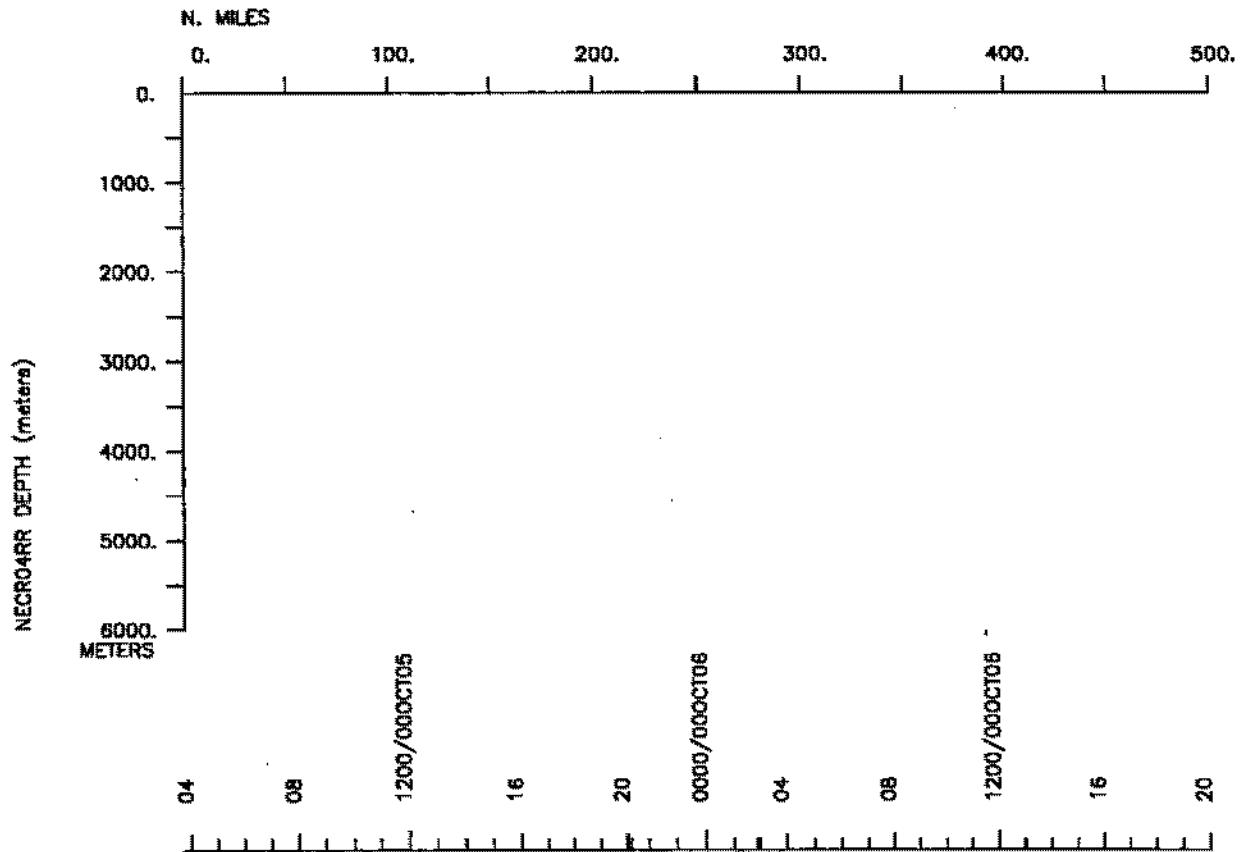
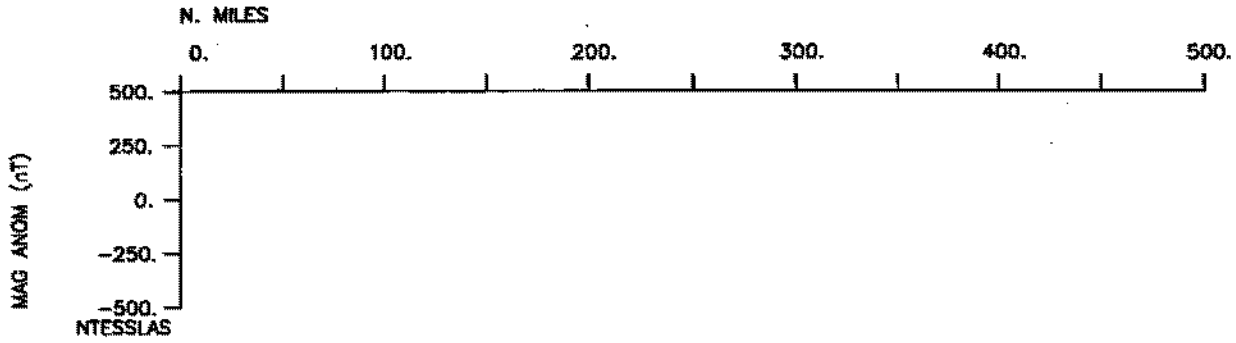
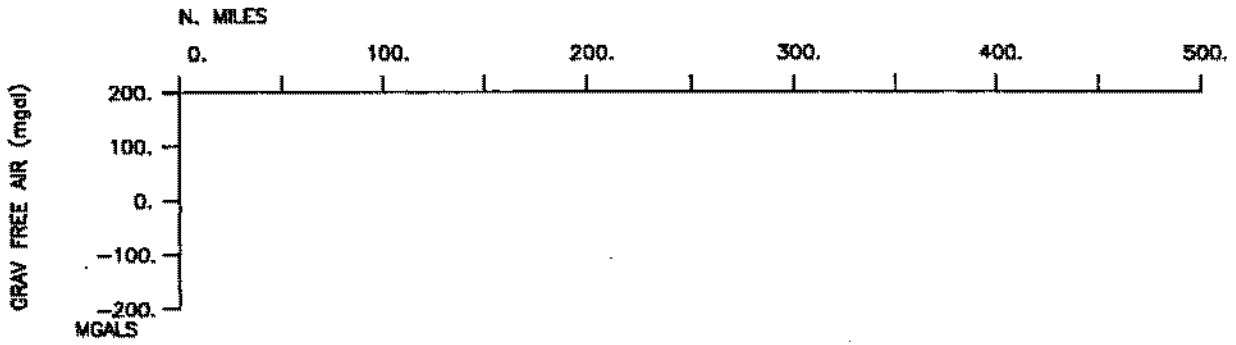


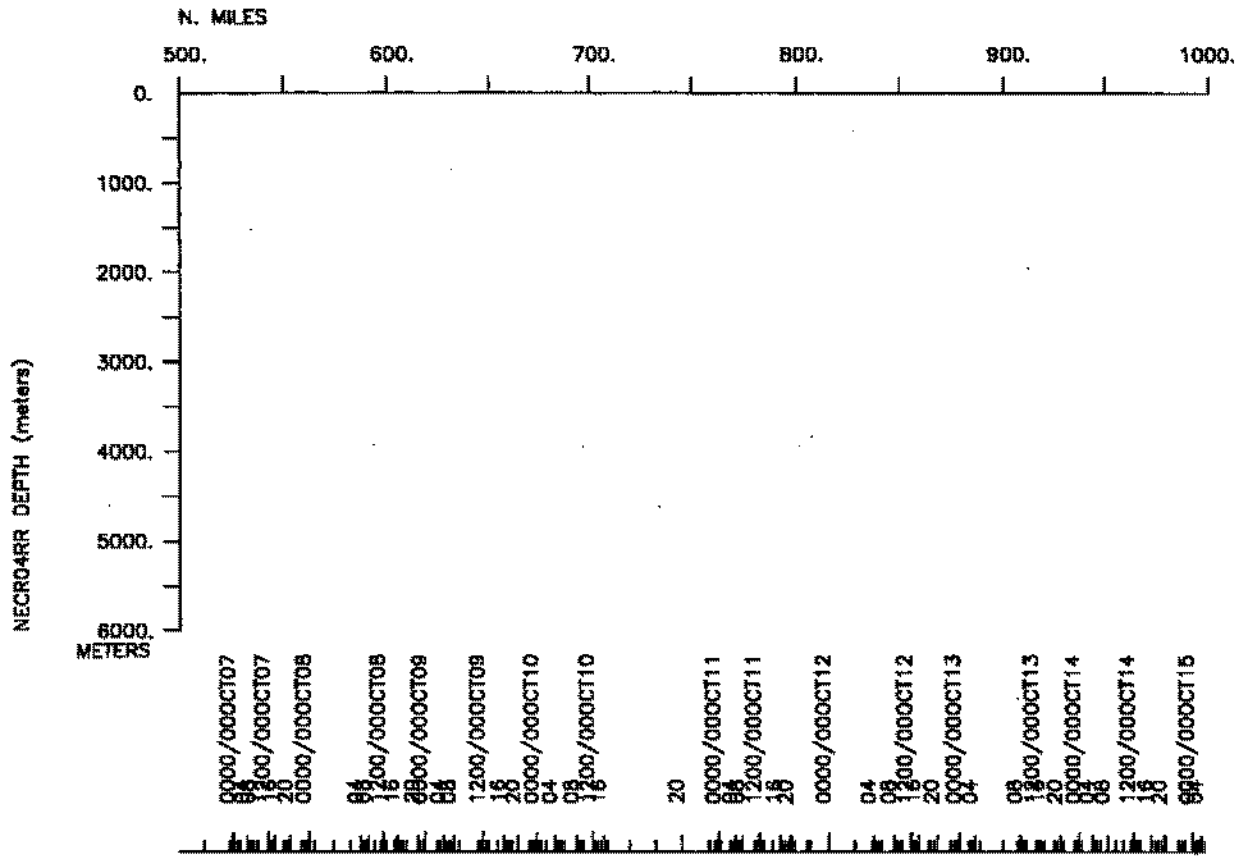
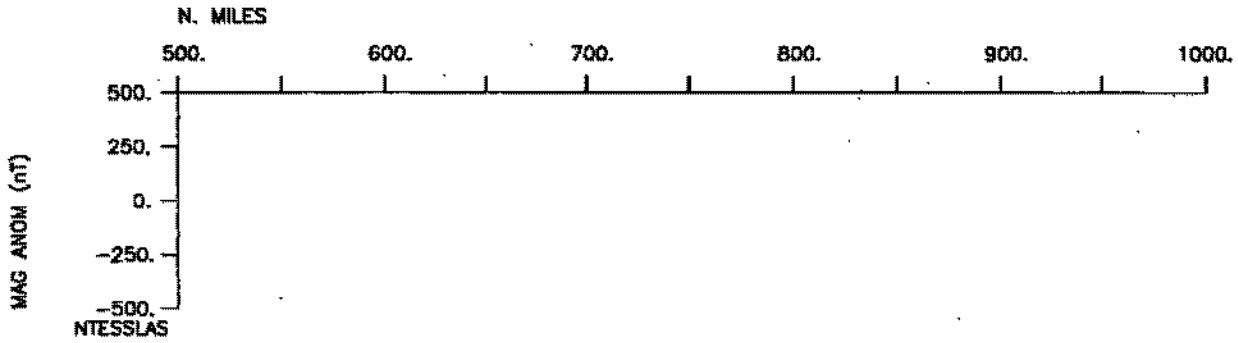
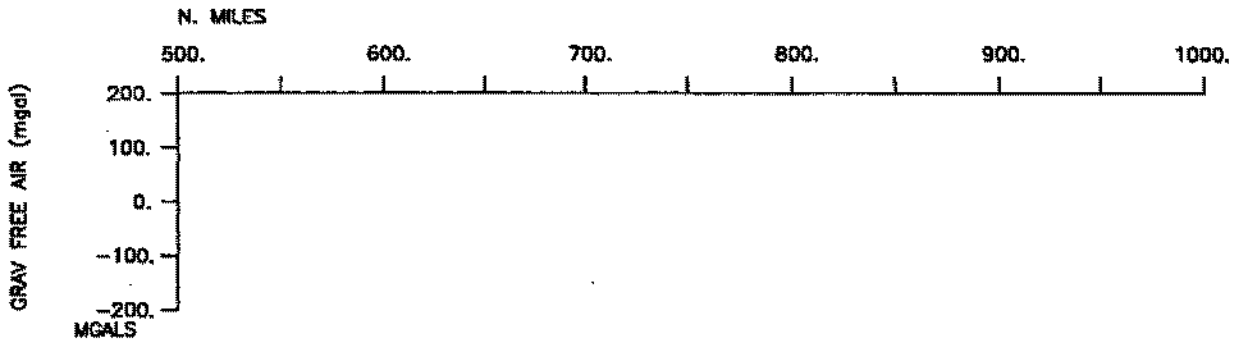
NECR04RR east.survey

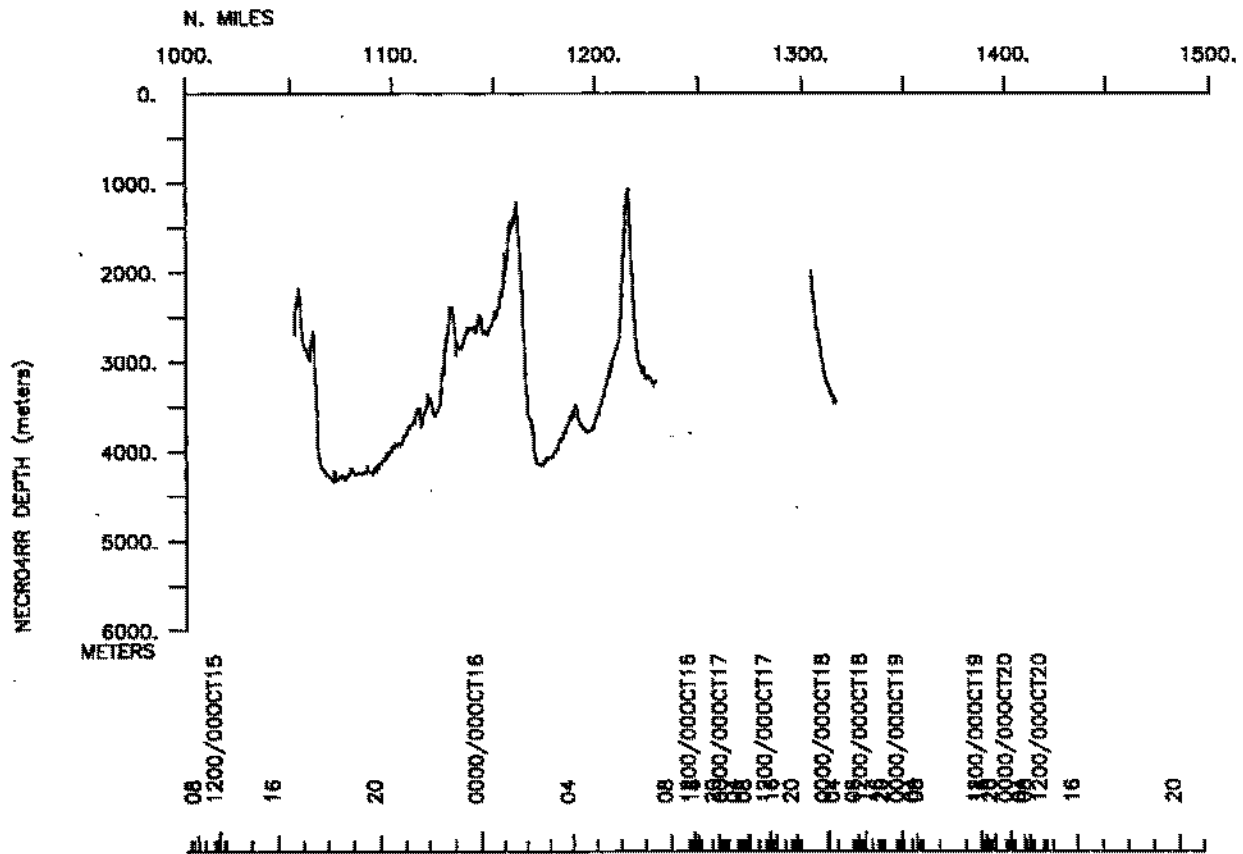
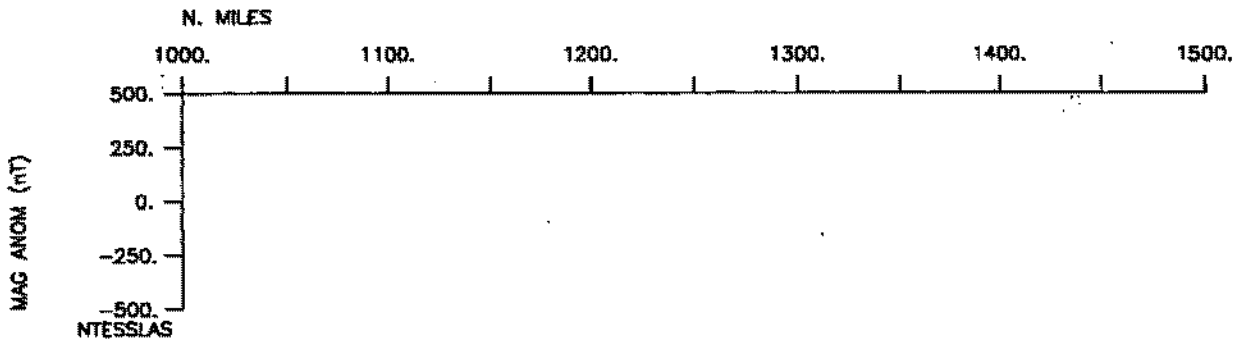
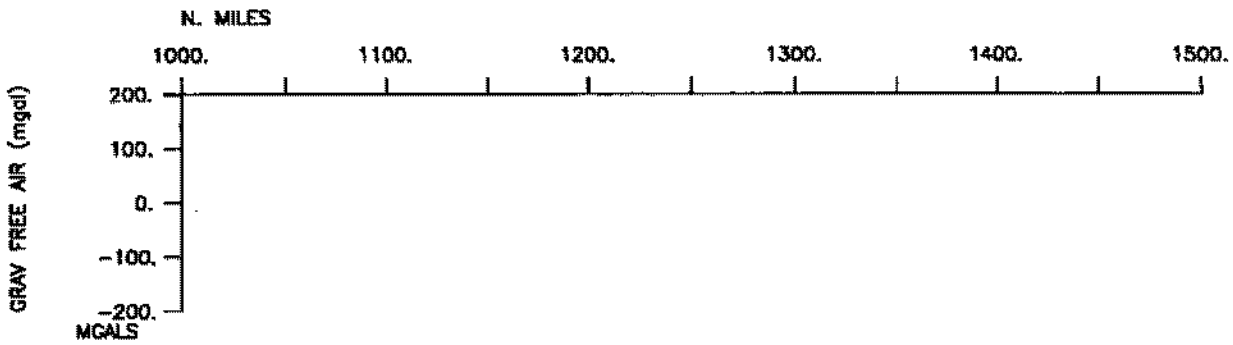


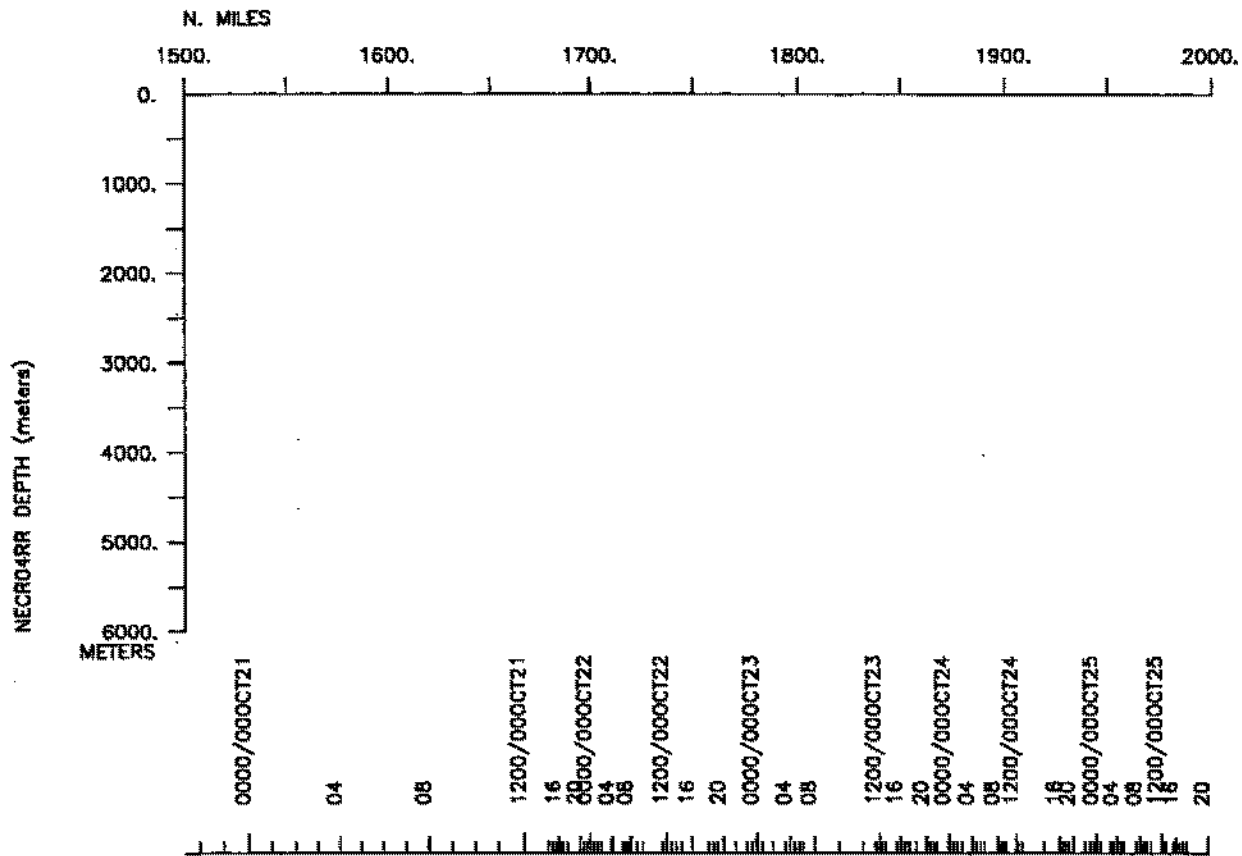
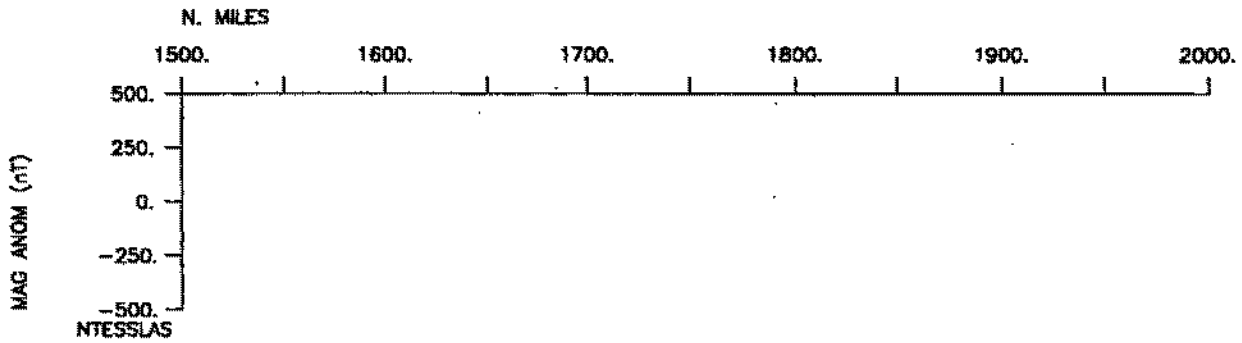
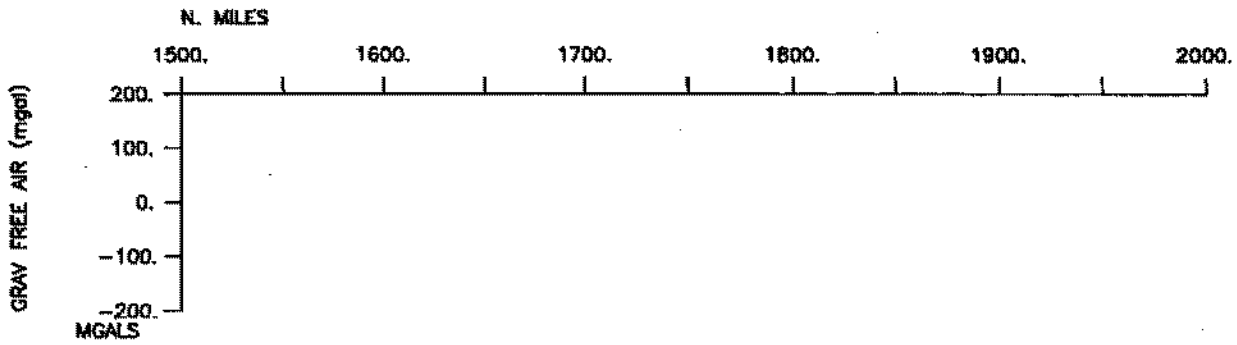
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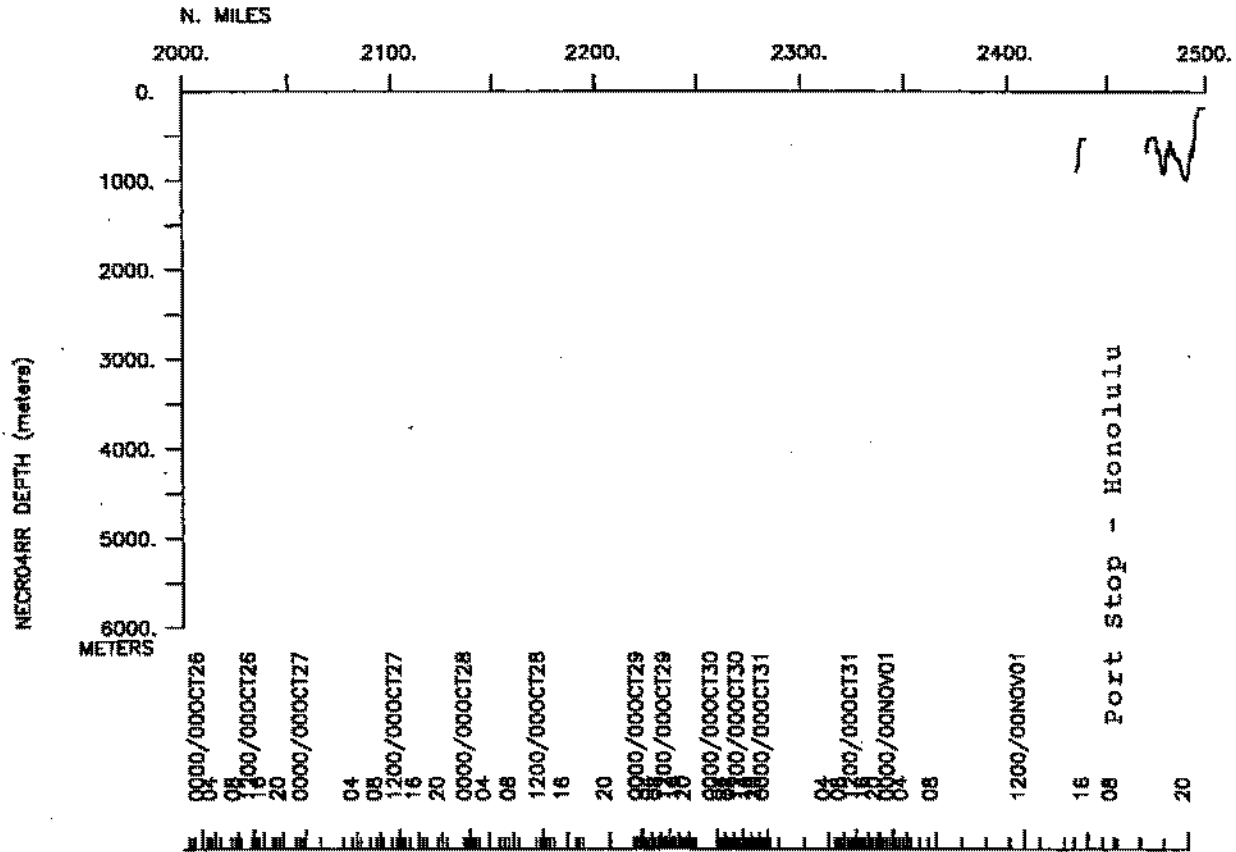
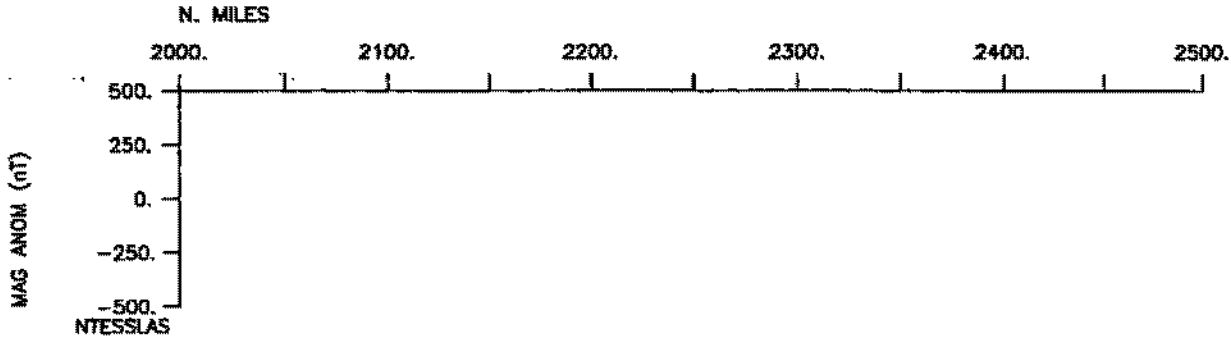
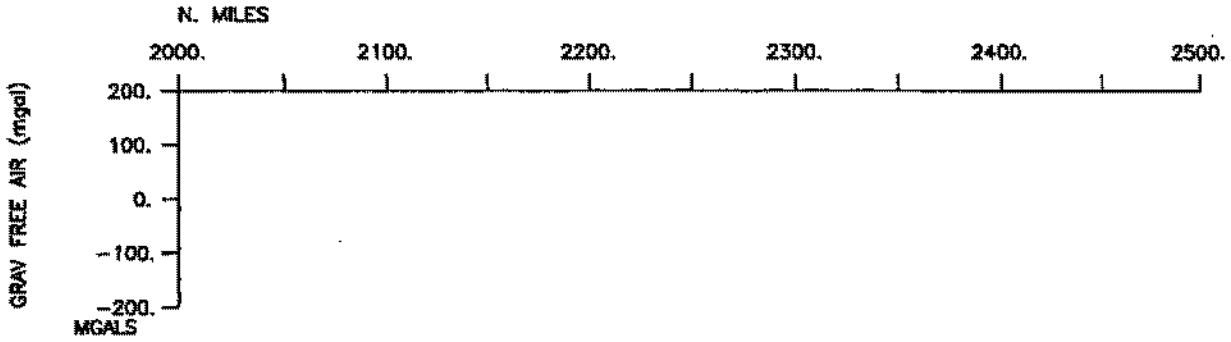


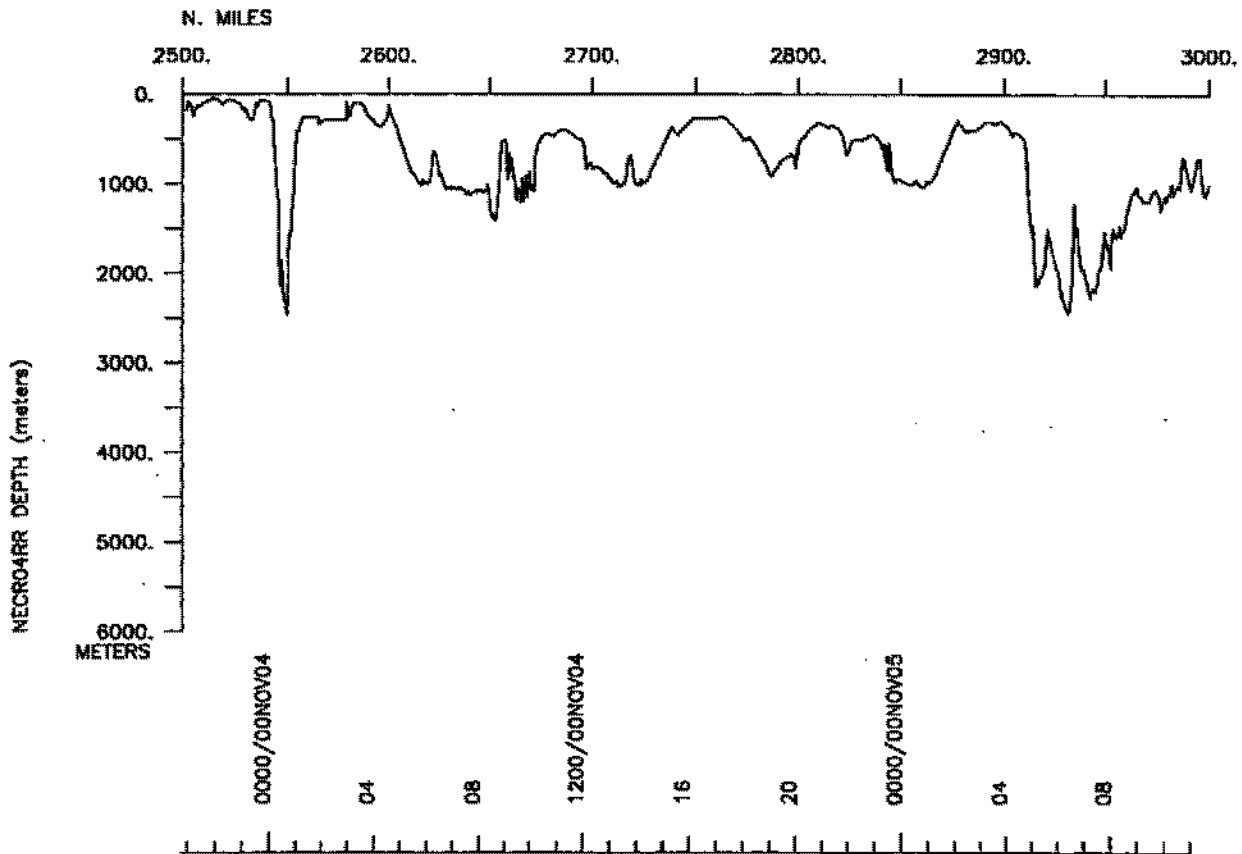
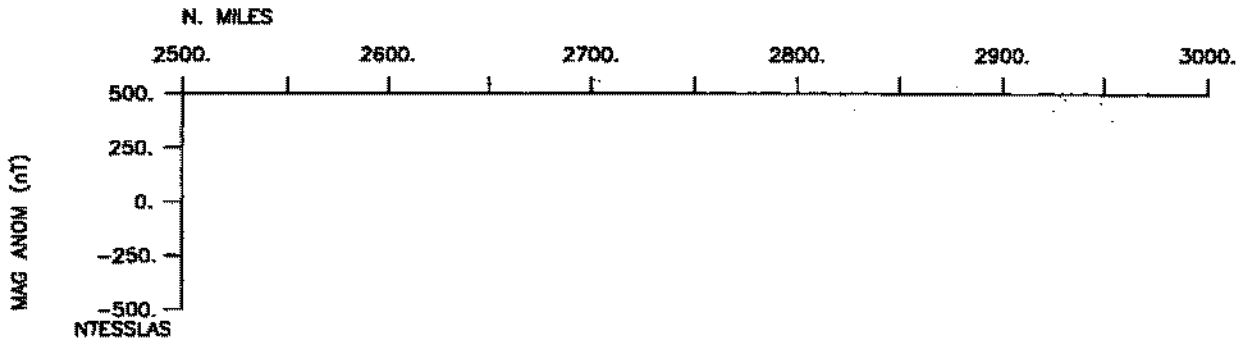
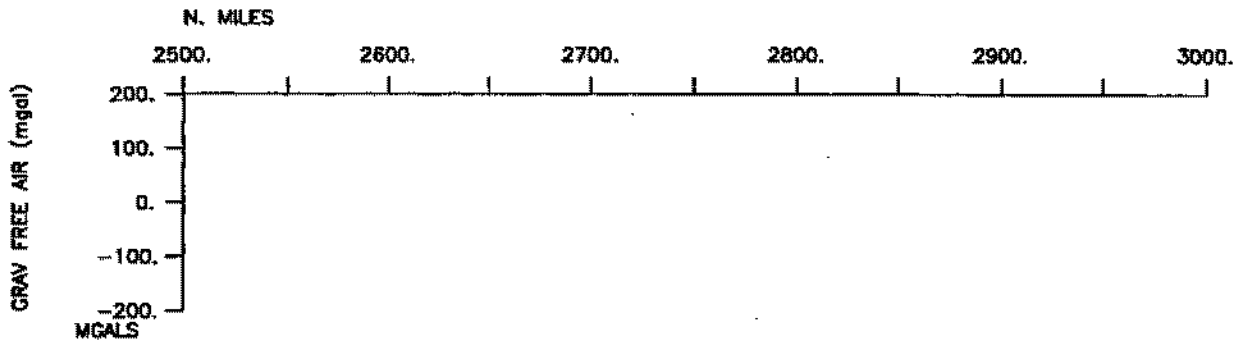


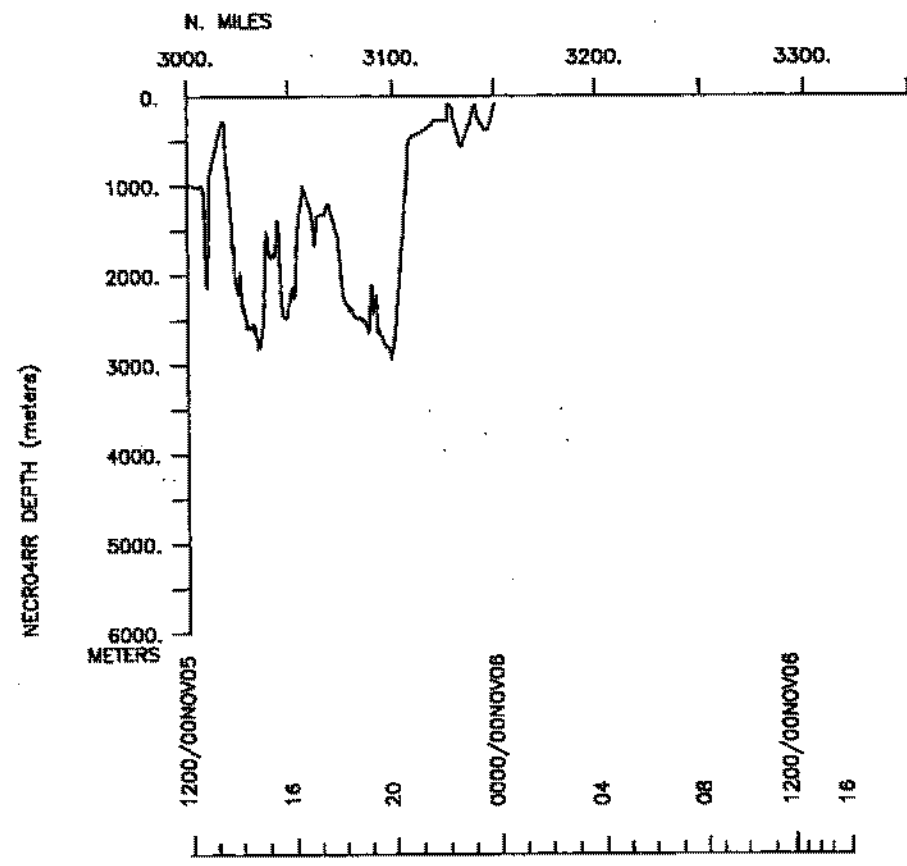
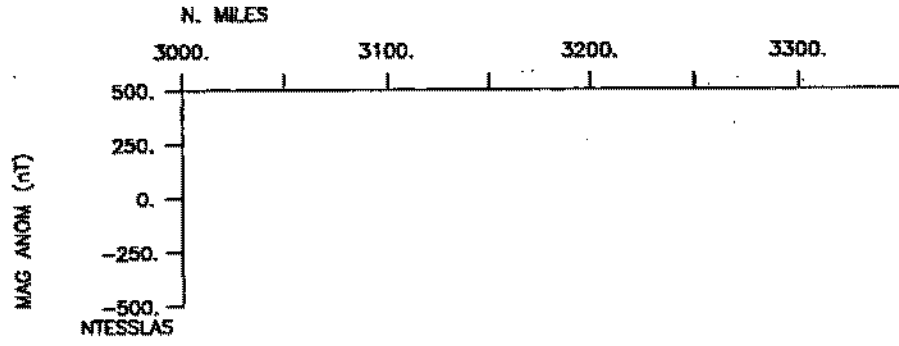
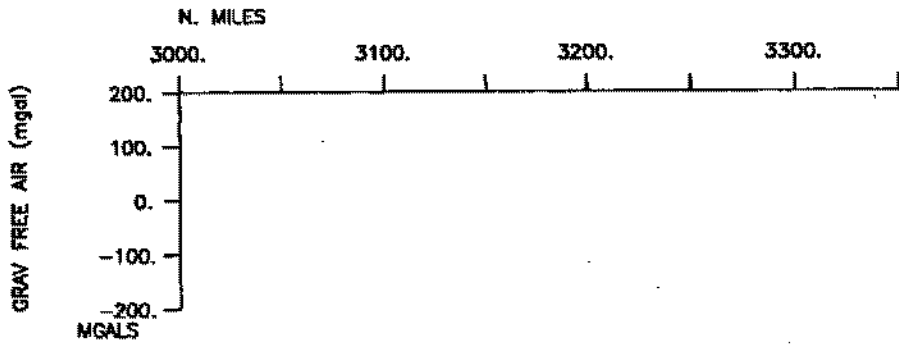












S.I.O. Sample Index

Northeast Circle Route Expedition

Leg 4

(NECR04RR)

R/V Revelle

(Issued January 2001)

PORTS:

Honolulu, Hawaii (5 October 2000)
to
Honolulu, Hawaii (6 November 2000)

Chief Scientist: Michael Gregg
University of Washington

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 ***

0200	051000	LGPT B Honolulu, Hawaii	21-18.00N 157-52.00W	f	NECR04RR
1800	061100	LGPT E Honolulu, Hawaii	21-18.00N 157-52.00W	f	NECR04RR
1800	011100	LGSS B Honolulu, Hawaii	21-18.00N 157-52.00W	f	NECR04RR
1800	031100	LGSS E Honolulu, Hawaii	21-18.00N 157-52.00W	f	NECR04RR

*** Personnel ***

#	*****NAME*****	*****TITLE*****	*****AFFILIATION*****	**CRID**
PECS UWA	Gregg, M.	Chief Scientist	Univ. of Washington	NECR04RR
PESP UWA	Winkel, D.	Scientist	Univ. of Washington	NECR04RR
PESP UWA	Alford, M.	Scientist	Univ. of Washington	NECR04RR
PESP UWA	Krause, E.	Scientist	Univ. of Washington	NECR04RR
PESP UWA	Miller, J.	Scientist	Univ. of Washington	NECR04RR
PESP UWA	Stewart, D.	Scientist	Univ. of Washington	NECR04RR
PESP UWA	Bayer, S.	Scientist	Univ. of Washington	NECR04RR
PESP UWA	Micket, J.	Scientist	Univ. of Washington	NECR04RR
PESP UWA	Aquilar, P.	Scientist	Univ. of Washington	NECR04RR
PESP UWA	Carter, G.	Scientist	Univ. of Washington	NECR04RR
PESP UWA	Small, J.	Scientist	Univ. of Washington	NECR04RR
PEST MPL	Rainville, L.	Grad student	Scripps Institution	NECR04RR
PECT SCG	Jacobson, D.	Computer tech	Scripps Institution	NECR04RR
PERT SGG	Mogk, S.	Resident tech	Scripps Institution	NECR04RR

*** 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	051000	0 LBSC B	Chief scient. log	UWA	21-18.89N 157-52.66W	g	NECR04RR
1800	061100	0 LBSC E	Chief scient. log	UWA	21-17.63N 157-52.33W	g	NECR04RR

*** Echo Sounder Records ***

1800	011100	0 DPR3 B	3.5khz Knudsen	GDC	21-18.90N 157-53.01W	g	NECR04RR
1800	031100	0 DPR3 E	3.5khz Knudsen	GDC	21-13.46N 158-00.73W	g	NECR04RR

*** Sea Beam Digital Data ***

1640	151000	0 MBSR B	v.beam&sidescan	GDC	23-30.49N 166-05.23W	g	NECR04RR
0419	181000	0 MBSR E	v.beam*sidescan	GDC	22-58.21N 162-41.18W	g	NECR04RR
1524	011100	0 MBSR B	v.beam&sidescan	GDC	21-08.39N 158-04.41W	g	NECR04RR
2352	051100	0 MBSR E	v.beam*sidescan	GDC	21-36.79N 158-17.50W	g	NECR04RR

#GMT	DDMMYY	SAMP	B	SAMPLE	DISP			p	CRUISE
#TIME	DATE	TZ	CODE	E IDENTIFIER	CODE	LATITUDE	LONGITUDE	c	LEG-SHIP
#*** Integrated Meteorological Data Acquisition ***									
0200	051000	0	IMET	B Weather data coll.	GDC	21-18.89N	157-52.66W	g	NECR04RR
1800	061100	0	IMET	E Weather data coll.	GDC	21-17.63N	157-52.33W	g	NECR04RR
#*** Expendable Bathythermographs ***									
1652	151000	0	BTXP	Mk-12 xbt # 103	GDC	23-29.97N	166-02.58W	g	NECR04RR
2341	171000	0	BTXP	Mk-12 xbt # 104	GDC	23-06.35N	162-39.54W	g	NECR04RR
0101	041100	0	BTXP	Mk-12 xbt # 105	GDC	21-35.75N	158-24.32W	g	NECR04RR
0834	051100	0	BTXP	Mk-12 xbt # 106	GDC	21-46.93N	158-26.14W	g	NECR04RR
#*** Hydrographic Doppler Sonar System ***									
0200	051000	0	CMXX	B Hydro.doppler sonar	SIO	21-18.89N	157-52.66W	g	NECR04RR
1800	061100	0	CMXX	E Hydro.doppler sonar	SIO	21-17.63N	157-52.33W	g	NECR04RR
#*** Expendable Current Profiler ***									
0823	111000	0	CMXX	XCP launched J	UWA	23-10.02N	166-56.26W	g	NECR04RR
0731	121000	0	CMXX	XCP launched J	UWA	23-34.74N	166-40.04W	g	NECR04RR
2340	171000	0	CMXX	XCP deployed. DF	UWA	23-06.56N	162-39.50W	g	NECR04RR
2000	181000	0	CMXX	XCP deployed J	UWA	22-51.98N	162-40.61W	g	NECR04RR
0917	191000	0	CMXX	XCP deployed J	UWA	22-51.05N	162-42.05W	g	NECR04RR
0930	191000	0	CMXX	XCP deployed J	UWA	22-49.26N	162-42.77W	g	NECR04RR
1200	191000	0	CMXX	XCP deployed. DF	UWA	22-26.43N	162-51.28W	g	NECR04RR
1300	211000	0	CMXX	XCP begins. DF	UWA	21-32.53N	158-22.61W	g	NECR04RR
1000	231000	0	CMXX	XCP begins. DF	UWA	21-26.10N	158-43.90W	g	NECR04RR
1415	231000	0	CMXX	XCP deployed T	UWA	21-25.23N	158-45.99W	g	NECR04RR
1840	231000	0	CMXX	XCP launched J	UWA	21-26.08N	158-44.24W	g	NECR04RR
0700	241000	0	CMXX	XCP deployed J	UWA	21-26.18N	158-44.29W	g	NECR04RR
1306	241000	0	CMXX	XCP dployed. DF	UWA	21-23.49N	158-48.97W	g	NECR04RR
1401	241000	0	CMXX	XCP deployed T	UWA	21-23.40N	158-48.69W	g	NECR04RR
1551	241000	0	CMXX	XCP deployed T	UWA	21-10.73N	159-02.23W	g	NECR04RR
2021	241000	0	CMXX	XCP deployed J	UWA	21-14.02N	158-56.19W	g	NECR04RR
0054	251000	0	CMXX	XCP deployed. DF	UWA	21-13.36N	158-57.11W	g	NECR04RR

#GMT #TIME #	DDMMYY DATE	TZ	SAMP B CODE E	SAMPLE IDENTIFIER	DISP CODE	LATITUDE	LONGITUDE	p c	CRUISE LEG-SHIP
0607	251000	0	CMXX	XCP launched J	UWA	21-13.69N	158-56.71W	g	NECR04RR
1124	251000	0	CMXX	XCP deploy. DF	UWA	21-11.63N	159-00.38W	g	NECR04RR
1855	251000	0	CMXX	XCP deployed J	UWA	21-13.78N	158-56.56W	g	NECR04RR
1554	261000	0	CMXX	XCP deployed T	UWA	21-31.02N	158-54.02W	g	NECR04RR
**** Turbulent Flux Micro Structure ****									
2042	051000	0	TFMS	Test Amp deployed J	UWA	21-50.86N	161-34.76W	g	NECR04RR
2112	051000	0	TFMS	Test Amp on deck J	UWA	21-51.04N	161-34.19W	g	NECR04RR
0200	061000	0	TFMS	MMP deployed JP	UWA	22-08.94N	162-34.89W	g	NECR04RR
0226	061000	0	TFMS	MMP on deck JP	UWA	22-09.40N	162-34.66W	g	NECR04RR
0235	061000	0	TFMS	MMP deployed JP	UWA	22-09.58N	162-34.56W	g	NECR04RR
0252	061000	0	TFMS	MMP on deck JP	UWA	22-09.91N	162-34.34W	g	NECR04RR
1320	061000	0	TFMS	MMP on board DF	UWA	22-56.89N	164-49.99W	g	NECR04RR
1545	061000	0	TFMS	AMP deployed DF	UWA	23-06.51N	165-21.96W	g	NECR04RR
2300	061000	0	TFMS	MMP deployed DF	UWA	23-35.16N	166-42.69W	g	NECR04RR
0045	071000	0	TFMS	AMP on board DF	UWA	23-36.35N	166-41.69W	g	NECR04RR
0150	071000	0	TFMS	AMP deployed DF	UWA	23-36.46N	166-41.51W	g	NECR04RR
0302	071000	0	TFMS	AMP on deck JP	UWA	23-35.16N	166-42.32W	g	NECR04RR
0348	071000	0	TFMS	AMP deployed JP	UWA	23-34.17N	166-44.99W	g	NECR04RR
0624	071000	0	TFMS	Amp on deck J	UWA	23-34.77N	166-42.61W	g	NECR04RR
0631	071000	0	TFMS	AMP deployed J	UWA	23-34.80N	166-42.49W	g	NECR04RR
0633	071000	0	TFMS	AMP on deck J	UWA	23-34.81N	166-42.45W	g	NECR04RR
0637	071000	0	TFMS	AMP deployed J	UWA	23-34.83N	166-42.38W	g	NECR04RR
0641	071000	0	TFMS	AMP on deck J	UWA	23-34.85N	166-42.31W	g	NECR04RR
0652	071000	0	TFMS	AMP deployed J	UWA	23-34.90N	166-42.13W	g	NECR04RR
0657	071000	0	TFMS	AMP on deck J	UWA	23-34.91N	166-42.05W	g	NECR04RR
0826	071000	0	TFMS	AMP deployed J	UWA	23-34.88N	166-42.04W	g	NECR04RR
2008	071000	0	TFMS	AMP deployed J	UWA	23-34.87N	166-41.10W	g	NECR04RR
2021	071000	0	TFMS	AMP on deck J	UWA	23-34.87N	166-40.81W	g	NECR04RR
2113	071000	0	TFMS	AMP deployed J	UWA	23-34.80N	166-44.41W	g	NECR04RR
2234	071000	0	TFMS	AMP on deck DF	UWA	23-34.79N	166-42.49W	g	NECR04RR

#GMT	DDMMYY	SAMP B	SAMPLE	DISP		P	CRUISE	
#TIME	DATE	TZ	CODE E	IDENTIFIER	CODE	LATITUDE	LONGITUDE	c LEG-SHIP
#								
0342	081000	0	TFMS	MMP deployed JP	UWA	23-52.49N	166-32.08W	g NECR04RR
0358	081000	0	TFMS	MMP on deck JP	UWA	23-52.48N	166-31.83W	g NECR04RR
0406	081000	0	TFMS	AMP deployed JP	UWA	23-52.47N	166-31.68W	g NECR04RR
0840	081000	0	TFMS	AMP on deck J	UWA	23-52.39N	166-27.14W	g NECR04RR
0922	081000	0	TFMS	AMP deployed J	UWA	23-52.38N	166-31.87W	g NECR04RR
1230	081000	0	TFMS	AMP on deck JP	UWA	23-52.38N	166-29.74W	g NECR04RR
1858	081000	0	TFMS	AMP on deck J	UWA	23-52.43N	166-26.17W	g NECR04RR
0412	091000	0	TFMS	AMP deployed JP	UWA	23-52.45N	166-30.62W	g NECR04RR
0450	091000	0	TFMS	AMP on deck JP	UWA	23-52.41N	166-29.90W	g NECR04RR
0504	091000	0	TFMS	AMP deployed JP	UWA	23-52.37N	166-29.60W	g NECR04RR
0552	091000	0	TFMS	AMP on deck J	UWA	23-52.44N	166-28.58W	g NECR04RR
0559	091000	0	TFMS	AMP deployed J	UWA	23-52.45N	166-28.41W	g NECR04RR
0640	091000	0	TFMS	AMP on deck J	UWA	23-52.53N	166-27.45W	g NECR04RR
0656	091000	0	TFMS	AMP deployed J	UWA	23-52.57N	166-27.08W	g NECR04RR
0737	091000	0	TFMS	AMP on deck J	UWA	23-52.58N	166-26.15W	g NECR04RR
0745	091000	0	TFMS	AMP deployed J	UWA	23-52.56N	166-25.98W	g NECR04RR
0835	091000	0	TFMS	AMP on deck J	UWA	23-52.53N	166-25.02W	g NECR04RR
2104	091000	0	TFMS	AMP deployed J	UWA	23-45.58N	166-33.84W	g NECR04RR
0225	101000	0	TFMS	AMP on deck JP	UWA	23-49.52N	166-30.18W	g NECR04RR
0358	101000	0	TFMS	AMP deployed JP	UWA	23-46.19N	166-33.38W	g NECR04RR
0657	101000	0	TFMS	AMP on deck J	UWA	23-50.05N	166-30.88W	g NECR04RR
0753	101000	0	TFMS	AMP deployed J	UWA	23-45.70N	166-33.71W	g NECR04RR
1130	101000	0	TFMS	AMP on deck DF	UWA	23-48.53N	166-31.81W	g NECR04RR
1212	101000	0	TFMS	AMP deploy DF	UWA	23-45.77N	166-33.78W	g NECR04RR
0508	111000	0	TFMS	AMP on deck JP	UWA	23-10.01N	166-59.02W	g NECR04RR
0514	111000	0	TFMS	AMP deployed JP	UWA	23-10.00N	166-58.91W	g NECR04RR
0813	111000	0	TFMS	AMP on deck J	UWA	23-10.08N	166-56.18W	g NECR04RR
0900	111000	0	TFMS	AMP deployed J	UWA	23-09.72N	167-01.11W	g NECR04RR
1200	111000	0	TFMS	AMP on deck J	UWA	23-10.07N	166-58.44W	g NECR04RR

#GMT #TIME #	DDMMYY DATE	SAMP TZ	B CODE	SAMPLE E IDENTIFIER	DISP CODE	LATITUDE	LONGITUDE	p c	CRUISE LEG-SHIP
0208	121000	0	TFMS	MMP deployed JP	UWA	23-34.83N	166-44.89W	g	NECR04RR
0225	121000	0	TFMS	MMP on deck JP	UWA	23-34.84N	166-44.77W	g	NECR04RR
0235	121000	0	TFMS	AMP deployed JP	UWA	23-34.85N	166-44.70W	g	NECR04RR
0701	121000	0	TFMS	AMP on deck J	UWA	23-34.90N	166-40.09W	g	NECR04RR
0808	121000	0	TFMS	AMP deployed J	UWA	23-34.30N	166-44.59W	g	NECR04RR
1950	121000	0	TFMS	AMP on deck J	UWA	23-35.38N	166-40.24W	g	NECR04RR
2105	121000	0	TFMS	AMP deployed J	UWA	23-34.33N	166-44.50W	g	NECR04RR
2342	121000	0	TFMS	AMP on deck DF	UWA	23-35.27N	166-40.67W	g	NECR04RR
0431	131000	0	TFMS	MMP deployed JP	UWA	23-35.33N	166-40.39W	g	NECR04RR
0451	131000	0	TFMS	MMP on deck JP	UWA	23-35.46N	166-39.87W	g	NECR04RR
0644	131000	0	TFMS	MMP deployed J	UWA	23-51.97N	166-31.57W	g	NECR04RR
0701	131000	0	TFMS	MMP on deck J	UWA	23-52.03N	166-31.16W	g	NECR04RR
0709	131000	0	TFMS	AMP deployed J	UWA	23-52.06N	166-30.97W	g	NECR04RR
1006	131000	0	TFMS	AMP aboard. df	UWA	23-52.76N	166-27.64W	g	NECR04RR
1042	131000	0	TFMS	AMP deployed DF	UWA	23-51.93N	166-31.79W	g	NECR04RR
2058	131000	0	TFMS	AMP on deck J	UWA	23-52.98N	166-26.51W	g	NECR04RR
2143	131000	0	TFMS	AMP deployed J	UWA	23-51.95N	166-31.71W	g	NECR04RR
0255	141000	0	TFMS	AMP on deck JP	UWA	23-52.79N	166-27.29W	g	NECR04RR
0342	141000	0	TFMS	AMP deployed JP	UWA	23-51.87N	166-31.76W	g	NECR04RR
0735	141000	0	TFMS	AMP on deck J	UWA	23-52.98N	166-26.60W	g	NECR04RR
0754	141000	0	TFMS	AMP deployed J	UWA	23-52.60N	166-27.41W	g	NECR04RR
0835	141000	0	TFMS	AMP deployed J	UWA	23-51.93N	166-31.65W	g	NECR04RR
0917	141000	0	TFMS	AMP on deck J	UWA	23-52.07N	166-30.83W	g	NECR04RR
0920	141000	0	TFMS	MMP deployed J	UWA	23-52.08N	166-30.77W	g	NECR04RR
0934	141000	0	TFMS	MMP on deck J	UWA	23-52.13N	166-30.50W	g	NECR04RR
1951	141000	0	TFMS	AMP on deck J	UWA	23-51.64N	166-29.86W	g	NECR04RR
2047	141000	0	TFMS	AMP deployed J	UWA	23-46.83N	166-32.81W	g	NECR04RR
2306	141000	0	TFMS	AMP onboard. DF	UWA	23-49.58N	166-31.11W	g	NECR04RR

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0935	151000	0	TFMS		AMP deployed J	UWA	23-46.84N	166-32.83W	g	NECR04RR
1200	151000	0	TFMS		AMP onboard. DF	UWA	23-49.31N	166-31.31W	g	NECR04RR
1242	151000	0	TFMS		AMP deployed. DF	UWA	23-48.49N	166-31.85W	g	NECR04RR
1330	151000	0	TFMS		AMP onboard. DF	UWA	23-49.32N	166-31.30W	g	NECR04RR
0855	161000	0	TFMS		MMP deployed J	UWA	23-09.12N	162-39.24W	g	NECR04RR
0915	161000	0	TFMS		MMP on deck J	UWA	23-09.43N	162-39.18W	g	NECR04RR
0927	161000	0	TFMS		AMP deployed J	UWA	23-09.63N	162-39.14W	g	NECR04RR
1822	161000	0	TFMS		AMP on deck J	UWA	23-15.16N	162-37.98W	g	NECR04RR
1922	161000	0	TFMS		AMP deployed J	UWA	23-08.95N	162-39.31W	g	NECR04RR
0152	171000	0	TFMS		AMP on deck JP	UWA	23-13.78N	162-38.27W	g	NECR04RR
0236	171000	0	TFMS		AMP deployed JP	UWA	23-08.98N	162-39.24W	g	NECR04RR
0757	171000	0	TFMS		AMP on deck J	UWA	23-14.16N	162-38.17W	g	NECR04RR
0804	171000	0	TFMS		AMP deployed J	UWA	23-14.35N	162-38.14W	g	NECR04RR
0824	171000	0	TFMS		AMP on deck J	UWA	23-14.88N	162-38.03W	g	NECR04RR
0927	171000	0	TFMS		AMP deployed J	UWA	23-09.10N	162-39.30W	g	NECR04RR
1636	171000	0	TFMS		Instrument aboard T	UWA	23-15.18N	162-38.05W	g	NECR04RR
1724	171000	0	TFMS		Instrument deplyd T	UWA	23-08.93N	162-39.22W	g	NECR04RR
2236	171000	0	TFMS		AMP onboard DF	UWA	23-14.08N	162-38.18W	g	NECR04RR
2236	171000	0	TFMS		MMP deployed DF	UWA	23-14.08N	162-38.18W	g	NECR04RR
2254	171000	0	TFMS		MMP onboard DF	UWA	23-14.28N	162-38.15W	g	NECR04RR
0520	181000	0	TFMS		MMP deployed JP	UWA	22-50.92N	162-46.13W	g	NECR04RR
0535	181000	0	TFMS		MMP on deck JP	UWA	22-50.93N	162-46.07W	g	NECR04RR
0540	181000	0	TFMS		AMP deployed JP	UWA	22-50.93N	162-46.04W	g	NECR04RR
1955	181000	0	TFMS		AMP on deck J	UWA	22-51.96N	162-40.68W	g	NECR04RR
2050	181000	0	TFMS		AMP deployed J	UWA	22-51.11N	162-45.25W	g	NECR04RR
0235	191000	0	TFMS		AMP on deck JP	UWA	22-51.87N	162-40.32W	g	NECR04RR
0335	191000	0	TFMS		AMP deployed JP	UWA	22-51.11N	162-44.99W	g	NECR04RR
0838	191000	0	TFMS		AMP on deck J	UWA	22-51.64N	162-42.20W	g	NECR04RR

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0845	191000	0	TFMS	MMP deployed J	UWA	22-51.67N	162-42.10W	g	NECR04RR
0902	191000	0	TFMS	MMP on deck J	UWA	22-51.71N	162-41.86W	g	NECR04RR
1212	191000	0	TFMS	MMP deployed DF	UWA	22-26.42N	162-51.21W	g	NECR04RR
1418	191000	0	TFMS	Instrument on deck T	UWA	22-26.41N	162-49.89W	g	NECR04RR
1430	191000	0	TFMS	Instrument depldyd T	UWA	22-26.41N	162-49.75W	g	NECR04RR
1948	191000	0	TFMS	AMP on deck J	UWA	22-26.30N	162-44.53W	g	NECR04RR
2046	191000	0	TFMS	AMP deployed J	UWA	22-26.39N	162-50.51W	g	NECR04RR
0253	201000	0	TFMS	AMP on deck JP	UWA	22-26.42N	162-45.43W	g	NECR04RR
0357	201000	0	TFMS	AMP deployed JP	UWA	22-26.41N	162-50.40W	g	NECR04RR
1411	201000	0	TFMS	AMP aboard T	UWA	22-26.40N	162-48.07W	g	NECR04RR
1420	201000	0	TFMS	MMP deployed T	UWA	22-26.40N	162-47.96W	g	NECR04RR
1434	201000	0	TFMS	MMP on deck T	UWA	22-26.40N	162-47.76W	g	NECR04RR
1330	211000	0	TFMS	AMP deployed. DF	UWA	21-32.10N	158-22.88W	g	NECR04RR
0300	221000	0	TFMS	AMP on deck JP	UWA	21-39.08N	158-20.37W	g	NECR04RR
0305	221000	0	TFMS	MMP deployed JP	UWA	21-39.23N	158-20.26W	g	NECR04RR
0329	221000	0	TFMS	MMP on deck JP	UWA	21-40.01N	158-19.76W	g	NECR04RR
0440	221000	0	TFMS	AMP deployed JP	UWA	21-33.36N	158-24.51W	g	NECR04RR
0945	221000	0	TFMS	AMP on deck J	UWA	21-41.06N	158-19.11W	g	NECR04RR
1530	221000	0	TFMS	AMP deployed JP	UWA	21-41.70N	158-17.60W	g	NECR04RR
1701	221000	0	TFMS	AMP on deck JP	UWA	21-33.38N	158-24.31W	g	NECR04RR
1832	221000	0	TFMS	AMP deployed J	UWA	21-35.84N	158-22.63W	g	NECR04RR
1842	221000	0	TFMS	AMP on deck J	UWA	21-35.93N	158-22.53W	g	NECR04RR
2024	221000	0	TFMS	AMP deployed J	UWA	21-40.27N	158-19.57W	g	NECR04RR
2132	221000	0	TFMS	AMP on deck J	UWA	21-33.12N	158-24.57W	g	NECR04RR
0244	231000	0	TFMS	AMP deployed JP	UWA	21-33.31N	158-24.44W	g	NECR04RR
0658	231000	0	TFMS	AMP on deck J	UWA	21-40.41N	158-19.17W	g	NECR04RR
0700	231000	0	TFMS	MMP deployed J	UWA	21-40.45N	158-19.12W	g	NECR04RR
0727	231000	0	TFMS	MMP on deck J	UWA	21-41.05N	158-18.50W	g	NECR04RR
1130	231000	0	TFMS	AMP deployed DF	UWA	21-23.44N	158-48.96W	g	NECR04RR
1312	231000	0	TFMS	AMP onboard DF	UWA	21-24.77N	158-46.65W	g	NECR04RR

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1400	231000	0	TFMS		Instrument on Deck T	UWA	21-25.50N	158-45.49W	g	NECR04RR
1500	231000	0	TFMS		AMP deployed T	UWA	21-23.02N	158-49.79W	g	NECR04RR
1826	231000	0	TFMS		AMP on deck J	UWA	21-26.10N	158-43.77W	g	NECR04RR
1937	231000	0	TFMS		AMP deployed J	UWA	21-23.03N	158-49.76W	g	NECR04RR
0344	241000	0	TFMS		AMP deploy astern JP	UWA	21-23.05N	158-49.68W	g	NECR04RR
0647	241000	0	TFMS		AMP on deck J	UWA	21-26.20N	158-44.04W	g	NECR04RR
1300	241000	0	TFMS		AMP on deck DF	UWA	21-23.43N	158-49.08W	g	NECR04RR
1558	241000	0	TFMS		MMP deployed T	UWA	21-10.76N	159-02.15W	g	NECR04RR
1645	241000	0	TFMS		MMP recovered T	UWA	21-11.28N	159-01.25W	g	NECR04RR
1647	241000	0	TFMS		AMP deployed T	UWA	21-11.31N	159-01.21W	g	NECR04RR
2010	241000	0	TFMS		AMP on deck J	UWA	21-13.95N	158-56.09W	g	NECR04RR
2110	241000	0	TFMS		AMP deployed J	UWA	21-11.13N	159-02.02W	g	NECR04RR
2119	241000	0	TFMS		AMP deployed J	UWA	21-11.01N	159-01.81W	g	NECR04RR
0042	251000	0	TFMS		AMP on deck DF	UWA	21-13.48N	158-56.98W	g	NECR04RR
0146	251000	0	TFMS		AMP deployed JP	UWA	21-10.88N	159-01.95W	g	NECR04RR
0557	251000	0	TFMS		AMP on deck J	UWA	21-13.61N	158-56.39W	g	NECR04RR
1118	251000	0	TFMS		AMP on deck FH	UWA	21-12.03N	158-59.49W	g	NECR04RR
1148	251000	0	TFMS		AMP deployed. DF	UWA	21-11.02N	159-01.95W	g	NECR04RR
1420	251000	0	TFMS		AMP on deck T	UWA	21-12.36N	158-59.23W	g	NECR04RR
1455	251000	0	TFMS		AMP deployed T	UWA	21-11.02N	159-01.94W	g	NECR04RR
1821	251000	0	TFMS		AMP on deck J	UWA	21-13.24N	158-57.26W	g	NECR04RR
1825	251000	0	TFMS		MMP deployed J	UWA	21-13.28N	158-57.16W	g	NECR04RR
1845	251000	0	TFMS		MMP on deck J	UWA	21-13.47N	158-56.64W	g	NECR04RR
2045	251000	0	TFMS		MMP deployed J	UWA	21-29.54N	158-57.76W	g	NECR04RR
2108	251000	0	TFMS		MMP on deck J	UWA	21-29.76N	158-57.01W	g	NECR04RR
2112	251000	0	TFMS		AMP deployed J	UWA	21-29.79N	158-56.88W	g	NECR04RR
2348	251000	0	TFMS		AMP on deck DF	UWA	21-30.71N	158-54.53W	g	NECR04RR
0442	261000	0	TFMS		AMP on deck JP	UWA	21-31.44N	158-52.54W	g	NECR04RR
0544	261000	0	TFMS		AMP deployed JP	UWA	21-29.17N	158-57.97W	g	NECR04RR

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0902	261000	0	TFMS		AMP on deck J	UWA	21-31.27N	158-53.44W	g	NECR04RR
1545	261000	0	TFMS		AMP on deck T	UWA	21-31.21N	158-53.51W	g	NECR04RR
1638	261000	0	TFMS		AMP deployed T	UWA	21-29.30N	158-58.02W	g	NECR04RR
1955	261000	0	TFMS		AMP on deck J	UWA	21-31.43N	158-52.71W	g	NECR04RR
2052	261000	0	TFMS		AMP deployed J	UWA	21-29.23N	158-57.96W	g	NECR04RR
2330	261000	0	TFMS		AMP on deck DF	UWA	21-31.02N	158-53.54W	g	NECR04RR
2336	261000	0	TFMS		MMP deployed. DF	UWA	21-31.04N	158-53.44W	g	NECR04RR
2354	261000	0	TFMS		MMP on deck DF	UWA	21-31.12N	158-53.19W	g	NECR04RR
0228	271000	0	TFMS		AMP deployed JP	UWA	21-23.23N	158-31.72W	g	NECR04RR
0228	271000	0	TFMS		AMP on deck JP	UWA	21-23.23N	158-31.72W	g	NECR04RR
0246	271000	0	TFMS		MMP on deck JP	UWA	21-23.47N	158-31.18W	g	NECR04RR
0250	271000	0	TFMS		AMP deployed JP	UWA	21-23.54N	158-31.05W	g	NECR04RR
0519	271000	0	TFMS		AMP on deck JP	UWA	21-25.61N	158-26.47W	g	NECR04RR
0624	271000	0	TFMS		AMP deployed J	UWA	21-23.19N	158-31.81W	g	NECR04RR
0931	271000	0	TFMS		AMP on deck J	UWA	21-25.15N	158-26.98W	g	NECR04RR
1430	271000	0	TFMS		AMP on deck T	UWA	21-25.24N	158-27.20W	g	NECR04RR
1524	271000	0	TFMS		AMP deployed T	UWA	21-23.18N	158-32.00W	g	NECR04RR
1800	271000	0	TFMS		AMP on deck J	UWA	21-25.08N	158-27.51W	g	NECR04RR
1854	271000	0	TFMS		AMP deployed J	UWA	21-23.19N	158-31.92W	g	NECR04RR
1907	271000	0	TFMS		AMP on deck J	UWA	21-23.38N	158-31.46W	g	NECR04RR
2055	271000	0	TFMS		AMP on deck J	UWA	21-24.96N	158-27.64W	g	NECR04RR
2206	271000	0	TFMS		AMP deployed DF	UWA	21-33.31N	158-24.48W	g	NECR04RR

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0330	281000	0	TFMS		AMP on deck JP	UWA	21-40.17N	158-19.57W	g	NECR04RR
0449	281000	0	TFMS		AMP deployed JP	UWA	21-33.49N	158-24.46W	g	NECR04RR
0848	281000	0	TFMS		AMP on deck J	UWA	21-40.83N	158-18.90W	g	NECR04RR
1515	281000	0	TFMS		AMP deployed T	UWA	21-40.37N	158-19.54W	g	NECR04RR
1812	281000	0	TFMS		MMP deployed J	UWA	21-35.39N	158-22.94W	g	NECR04RR
1846	281000	0	TFMS		MMP on deck J	UWA	21-36.21N	158-22.36W	g	NECR04RR
0312	291000	0	TFMS		AMP deployed JP	UWA	21-16.61N	158-06.73W	g	NECR04RR
0458	291000	0	TFMS		AMP on deck JP	UWA	21-14.89N	158-08.40W	g	NECR04RR
0507	291000	0	TFMS		AMP deployed JP	UWA	21-14.95N	158-08.38W	g	NECR04RR
0907	291000	0	TFMS		AMP on deck J	UWA	21-15.10N	158-08.23W	g	NECR04RR
0918	291000	0	TFMS		MMP deployed J	UWA	21-15.09N	158-08.24W	g	NECR04RR
0239	301000	0	TFMS		MMP on deck JP	UWA	21-16.57N	158-00.66W	g	NECR04RR
0420	311000	0	TFMS		AMP deployed JP	UWA	21-00.75N	157-34.82W	g	NECR04RR
0534	011100	0	TFMS		AMP on deck JP	UWA	21-01.43N	157-33.67W	g	NECR04RR
****					End Sample Index					NECR04RR