Report and Index of

Underway Marine Geophysical Data

Northeast Circle Route Expedition

Leg 3

(NECR03RR)

R/V Revelle

(Issued January 2001)

Ports:
Honolulu, Hawaii (30 August 2000)
to
Honolulu, Hawaii (29 September 2000)

Chief Scientist: Dan Rudnick
Scripps Institution of Oceanography
drudnick@ucsd.edu

Computer Tech – Dan Jacobson
Resident Marine Tech – Gene Pillard

Post–Cruise processing and report preparation by the
Geological Data Center, Scripps Institution of Oceanography
La Jolla, CA 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

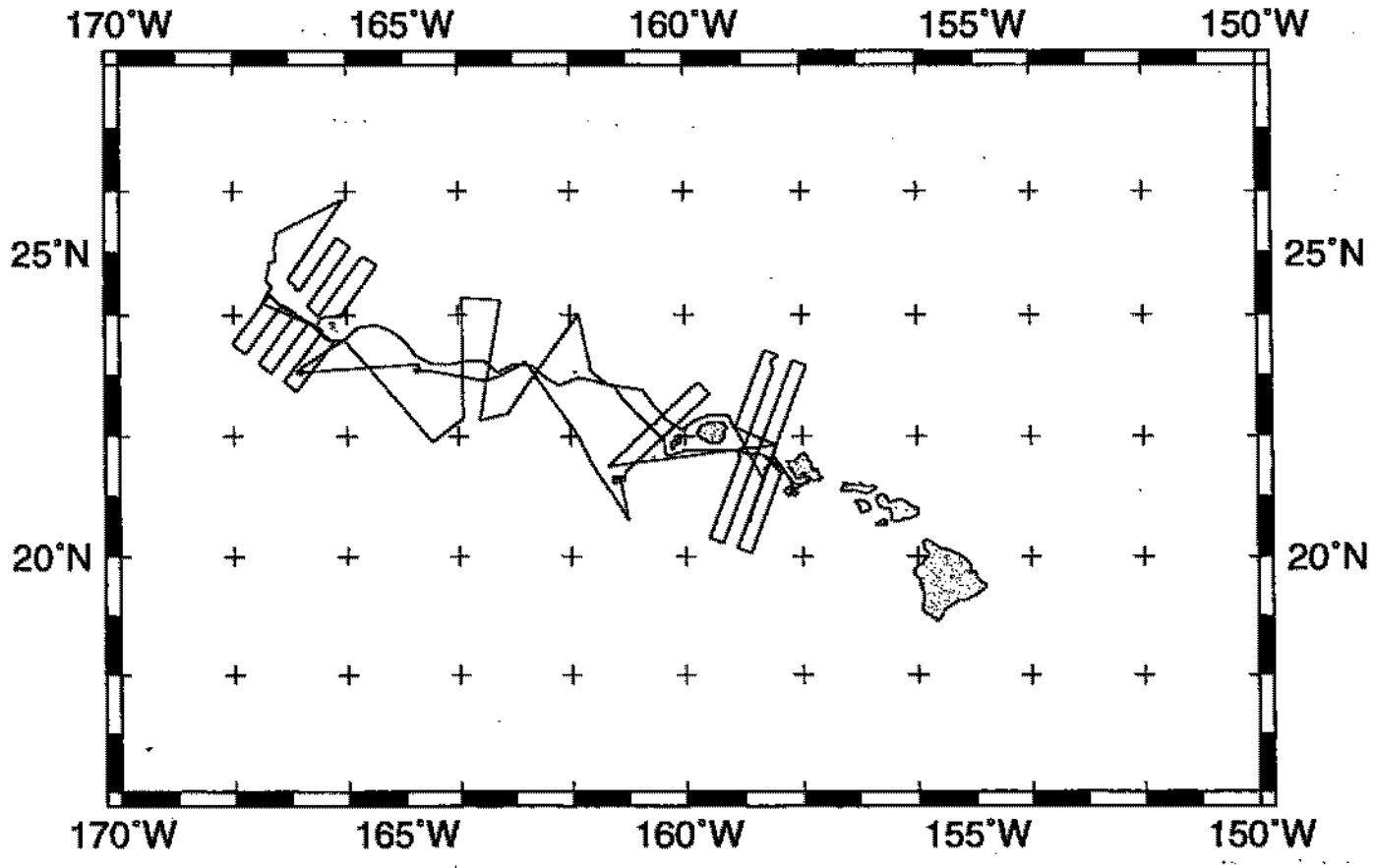
Profiles – depth, magnetic and gravity free air anomaly vs. distance. (Sections of track with seismic reflection data have a wide black line along the botttom of the profile.)

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.

Rev 6/2000



NECR EXPEDITION LEG 3 (NECR03RR)

CHIEF SCIENTIST: Dan Rudnick, Scripps Institution of Oceanography

PORTS: Honolulu - Honolulu, Hawaii

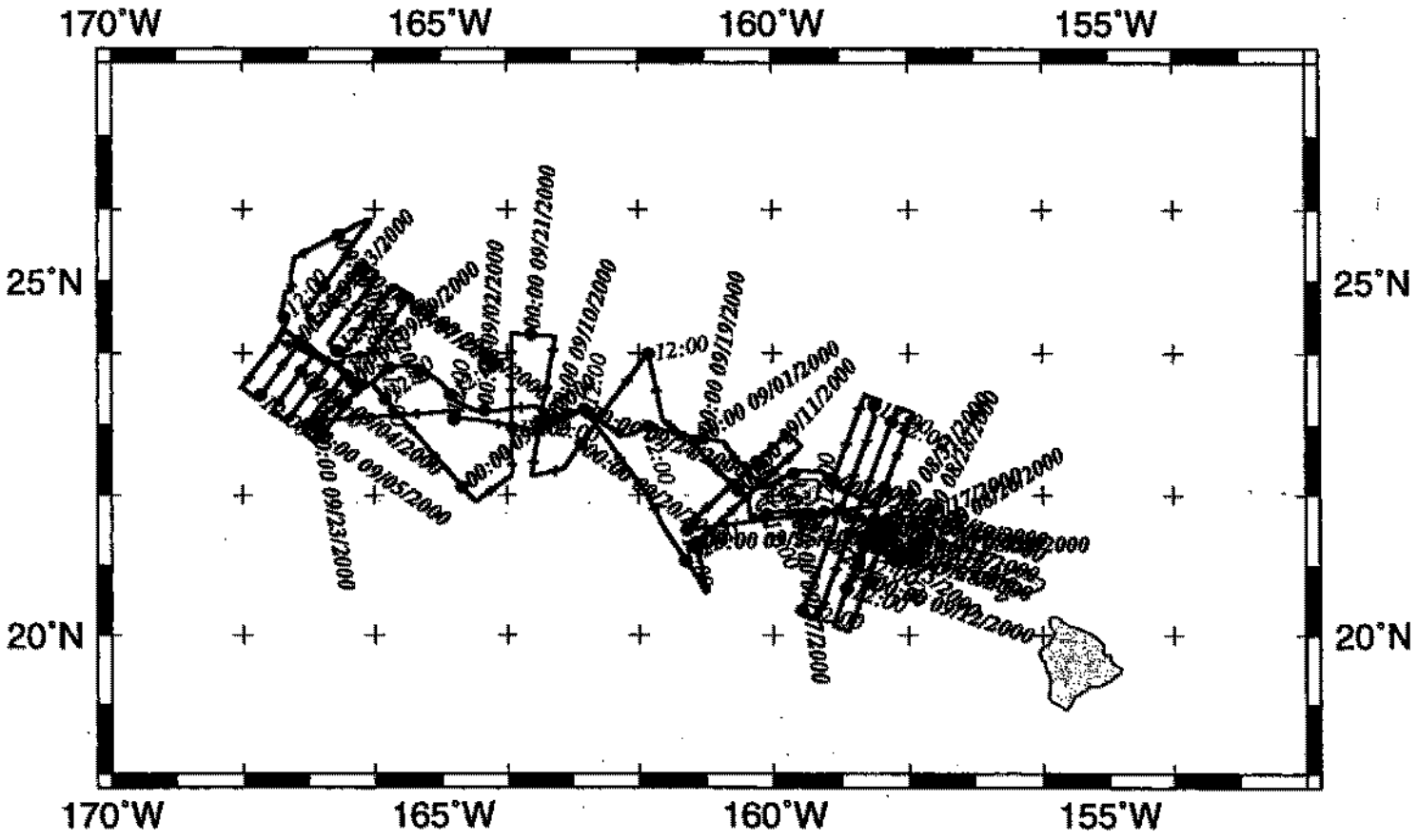
DATES: 30 August - 29 September 2000

SHIP: R/V Revelle

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

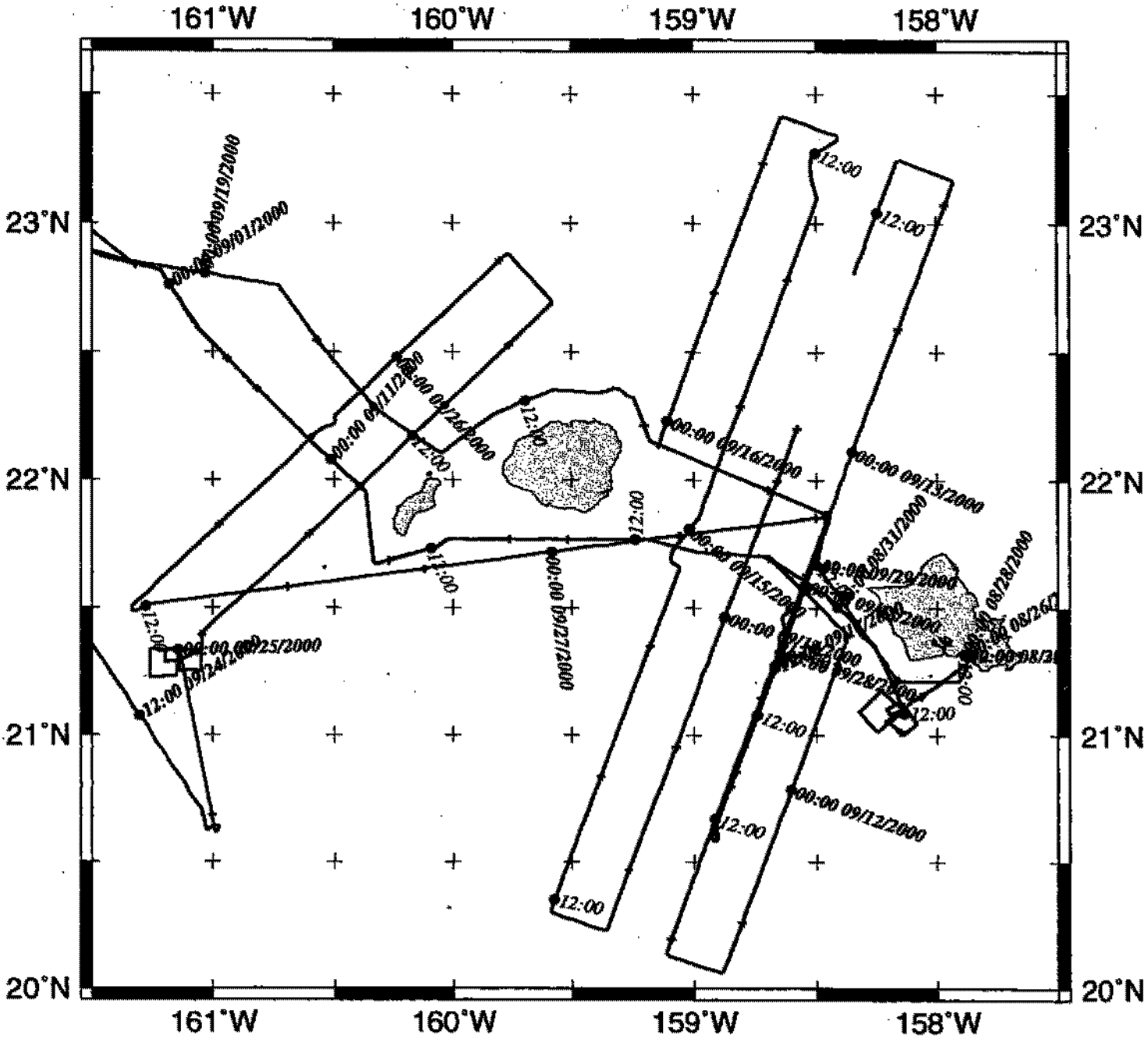
Cruise-5564 miles	**Magnetics-none collected**
Bathymetry-none collected	**Seismic Reflection-none collected**
Sea Beam-none collected	**Gravity-none collected**

NECR leg 3 Track



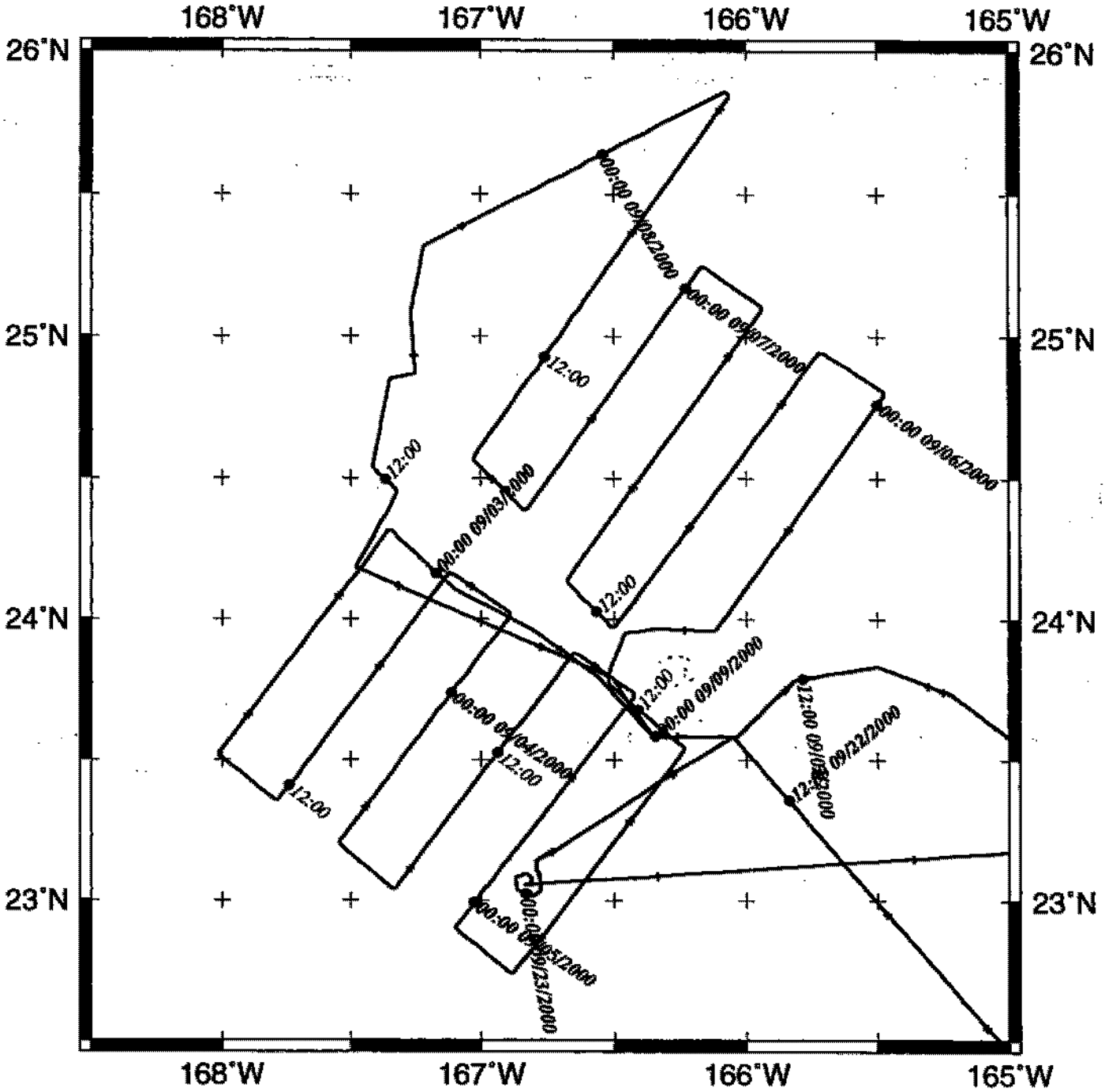
GMT Jan 24 09:54 :Honolulu - Honolulu, Hawaii 30 August - 29 September 2000 :

NECR03RR e.survey



Jan 24 09:54 :Honolulu - Honolulu, Hawaii 30 August - 29 September 2000 :

NECR03RR w.survey



GMT Jan 24 09:54 :Honolulu - Honolulu, Hawaii 30 August - 29 September 2000 :

S.I.O. Sample Index

Northeast Circle Route Expedition

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Honolulu, Hawaii (30 August 2000)
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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 ***

0154 300800    LGPT B Honolulu, Hawaii          21-18.00N 157-52.00W f NECR03RR
1945 290900    LGPT E Honolulu, Hawaii          21-18.00N 157-52.00W f NECR03RR


#*** Personnel ***
#         ********NAME******** ******TITLE******  *****AFFILIATION**** **CRID**
#--- ---- -------------------- ------------------ -------------------- --------

PECS PORD Rudnick, D.          Chief Scientist    Scripps Institution  NECR03RR
PESP MPL  Pinkel, R.           Scientist          Scripps Institution  NECR03RR
PESP PORD Regier, L.           Engineer           Scripps Institution  NECR03RR
PESP PORD Bui, M.              Programmer         Scripps Institution  NECR03RR
PESP STS  Mattson, C.          Dev. tech.         Scripps Institution  NECR03RR
PESP SIO  Martin, J.           Student            Scripps Institution  NECR03RR
PESP SIO  Lundquist, J.        Student            Scripps Institution  NECR03RR
PESP STS  Pillard, G.          Resident tech      Scripps Institution  NECR03RR
PESP STS  Jacobson, D.         Computer tech      Scripps Institution  NECR03RR


#*** 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 *


#*** Integrated Meteorological Data Acquisition ***

0200 300800  0 IMET B Weather data coll.   GDC  21-18.81N 157-52.74W g NECR03RR
1945 290900  0 IMET E Weather data coll.   GDC  21-18.98N 157-53.17W g NECR03RR


#*** Sea Soar ***

1815 300800  0 DPXX B Sea Soar deployed JF UWA  21-03.43N 158-11.97W g NECR03RR
2142 220900  0 DPXX E Sea Soar on deck JF  UWA  23-08.59N 166-47.46W g NECR03RR

0145 250900  0 DPXX B Sea Soar deplyd JPM  UWA  21-17.36N 161-07.83W g NECR03RR
1819 280900  0 DPXX E Sea Soar on deck JF  UWA  21-41.72N 158-29.60W g NECR03RR
```

#GMT TIME	DDMMYY DATE	TZ	SAMP CODE	B E	SAMPLE IDENTIFIER	DISP CODE	LATITUDE	LONGITUDE	p c	CRUISE LEG-SHIP
#*** Lagraingian Microstructure Floats ***										
2201	080900	0	TDXX	B	LAMP #1 deployed EW	UWA	23-47.58N	166-30.55W	g	NECR03RR
0132	230900	0	TDXX	E	LAMP #1 on deck EW	UWA	23-03.27N	166-50.26W	g	NECR03RR
1242	090900	0	TDXX	B	LAMP #2 deployed EW	UWA	23-20.73N	164-47.67W	g	NECR03RR
1300	230900	0	TDXX	E	LAMP #2 on deck EW	UWA	23-05.49N	164-46.69W	g	NECR03RR
0204	100900	0	TDXX	B	LAMP #3 deployed JM	UWA	23-10.16N	163-03.17W	g	NECR03RR
1915	230900	0	TDXX	E	LAMP #3 on deck JF	UWA	22-54.32N	163-32.66W	g	NECR03RR
1453	100900	0	TDXX	B	LAMP #4 deployed CC	UWA	22-52.38N	161-27.97W	g	NECR03RR
2347	230900	0	TDXX	E	LAMP #4 on deck EW	UWA	23-12.95N	162-48.39W	g	NECR03RR
1546	110900	0	TDXX	B	LAMP #5 deployed CC	UWA	21-42.06N	158-43.27W	g	NECR03RR
1521	240900	0	TDXX	E	LAMP #5 on deck CC	UWA	20-36.96N	160-59.32W	g	NECR03RR
#***					End Sample Index					NECR03RR