

*REPORT AND INDEX OF
UNDERWAY MARINE GEOPHYSICAL DATA*

KIWI EXPEDITION

LEG 2

(KIWI02RR)

R/V Revelle

(Issued December 1997)

Ports:

San Francisco, California (11 August 1997)

to

Honolulu, Hawaii (21 August 1997)

Chief Scientist:

Ralph Stephen, Woods Hole Oceanographic Inst.

Jim Charters, Computer Engineer

Post-Cruise Processing and Report Preparation by the
Geological Data Center, Scripps Institution of Oceanography
La Jolla, California 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 I.D.# 276

**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 if collected on the cruise leg.

NOTE: One or more of the underway data types may not be collected on a given cruise 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 on Exabyte or DAT:
 - a) Separate time series ASCII files of navigation, single beam depth, gravity and magnetics.
 - b) These same data in a merged ASCII file in the MGD77 Exchange Format.
 - c) SeaBeam depth data (binary, Sun byte order) in SIO Swath Bathymetry Format. (*)
 - 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) Echosounder records - 3.5 kHz frequency.
 - d) Magnetometer records.
 - e) Seismic reflection profiler records.

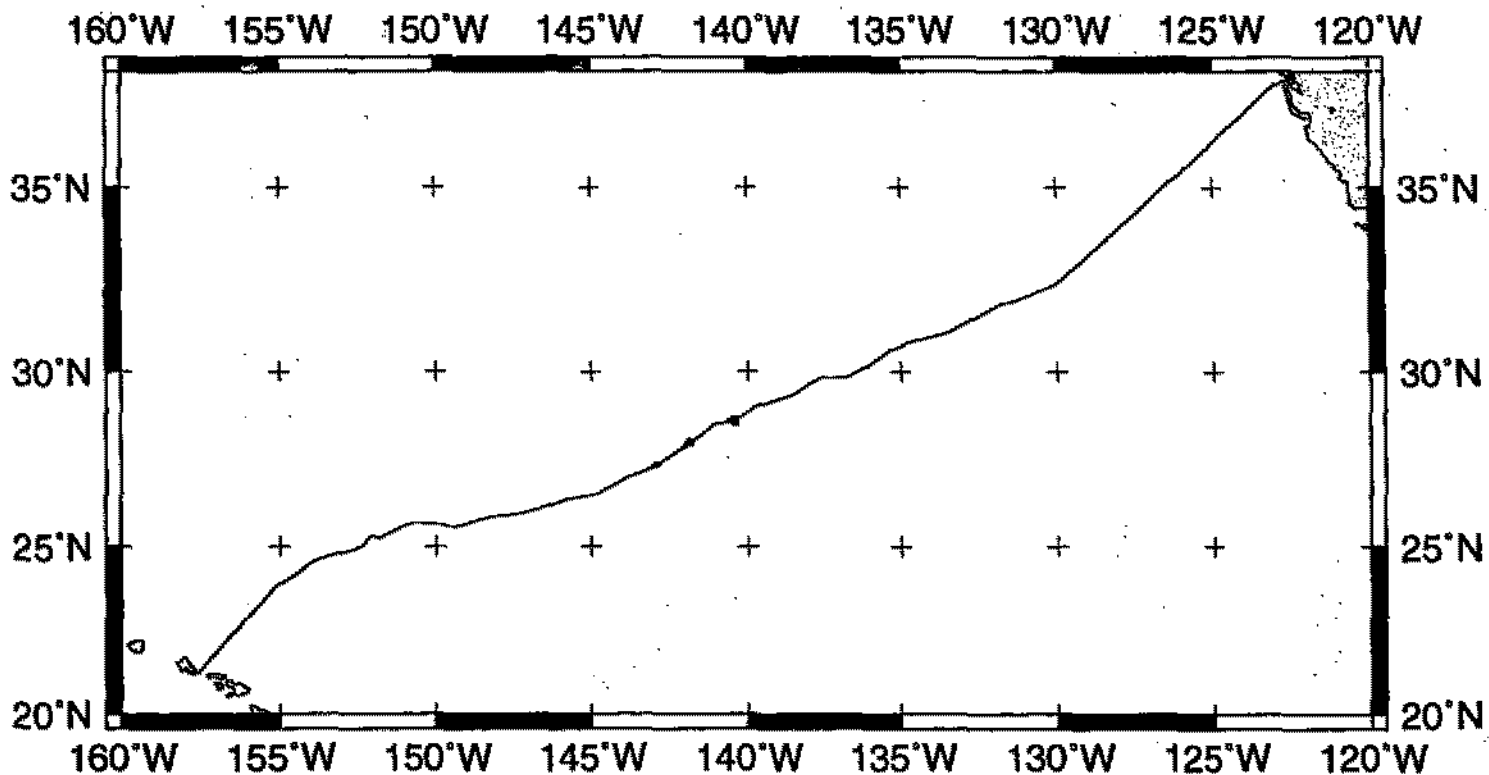
3. Navigation listing with times and positions of fixes and course and speed changes.

4. Plots:

- a) Copies of archived track plots.
- b) Copies of archived SeaBeam contour plots.
- c) Custom plots in Mercator projection:
 - 1) Track plots.
 - 2) SeaBeam depth contour plots.
 - 3) Depth, magnetic or gravity values printed or profiled along track.

(*) R/V Revelle Seabeam 2100 data available in SB2100 vendor format only, as of October 1996

rev10/96



KIWI EXPEDITION LEG 2

CHIEF SCIENTIST: Ralph Stephen, Woods Hole Ocean. Inst.

PORTS: San Francisco, Calif. - Honolulu, Hawaii

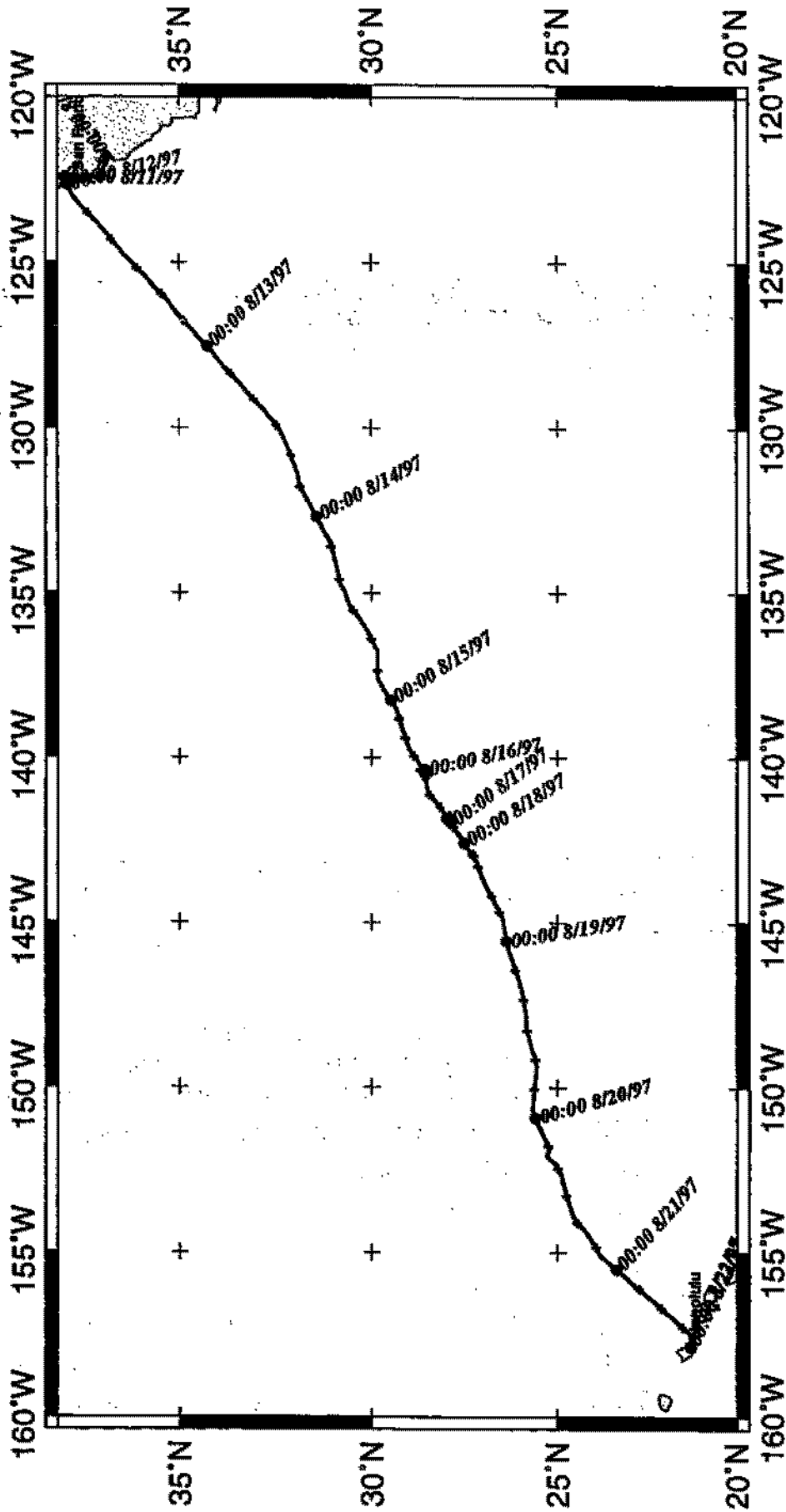
DATES: 11 - 21 August 1997

SHIP: R/V Revelle

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

Cruise - 2578 miles	Magnetics - 1713 miles
Bathymetry - 2548 miles	Seismic Reflection - 647 miles
Sea Beam - 2548 miles	Gravity - none collected

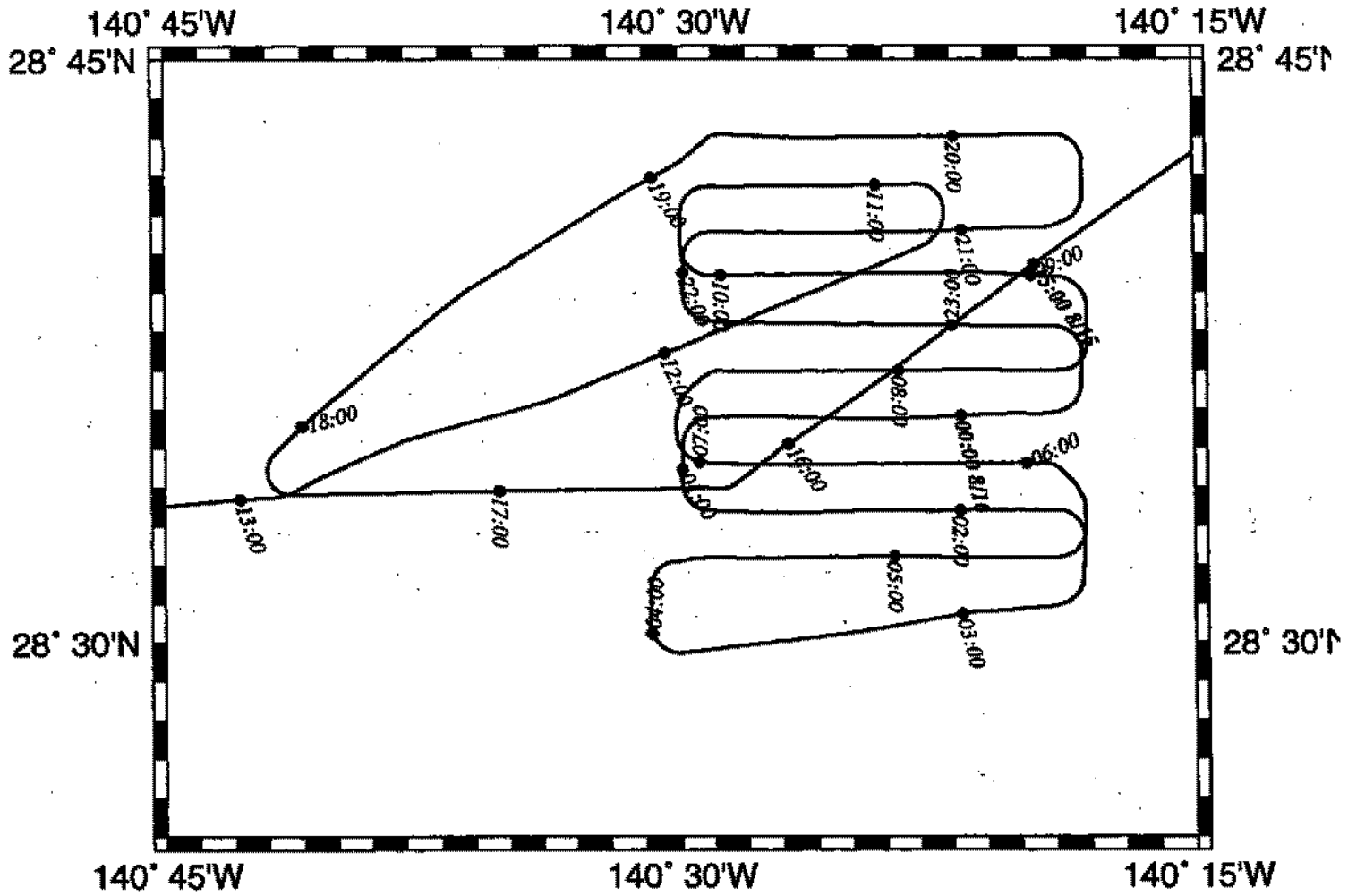
KIWI02RRR Track



San Francisco, Calif. to Honolulu, Hawaii, 11-21 August 1997:

Oct 14 00:32

KIWI02RR.survey.1



KIWI02RR.survey.2

142° 00'W

141° 45'W

28° 00'N

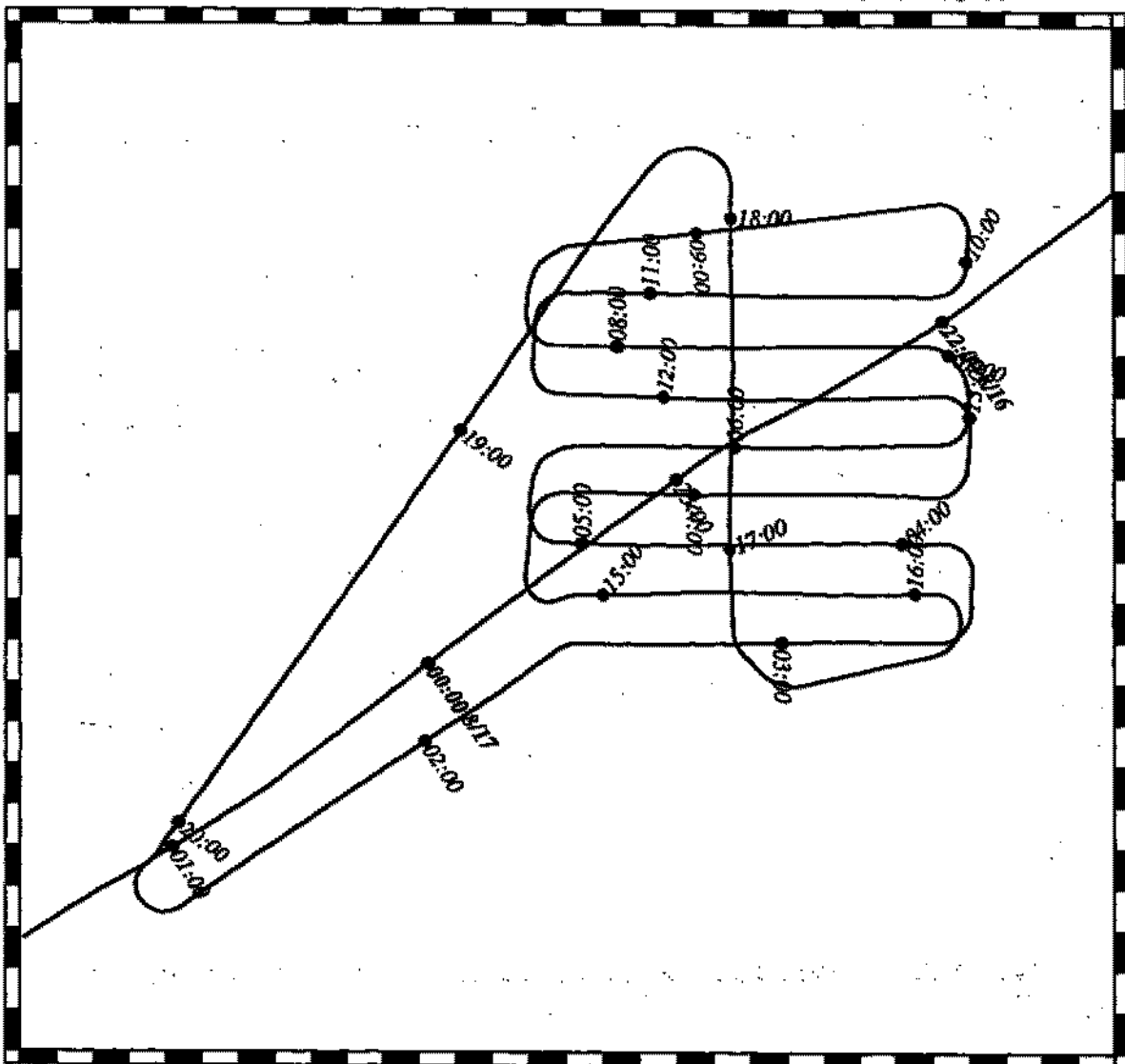
28° 00'N

27° 45'N

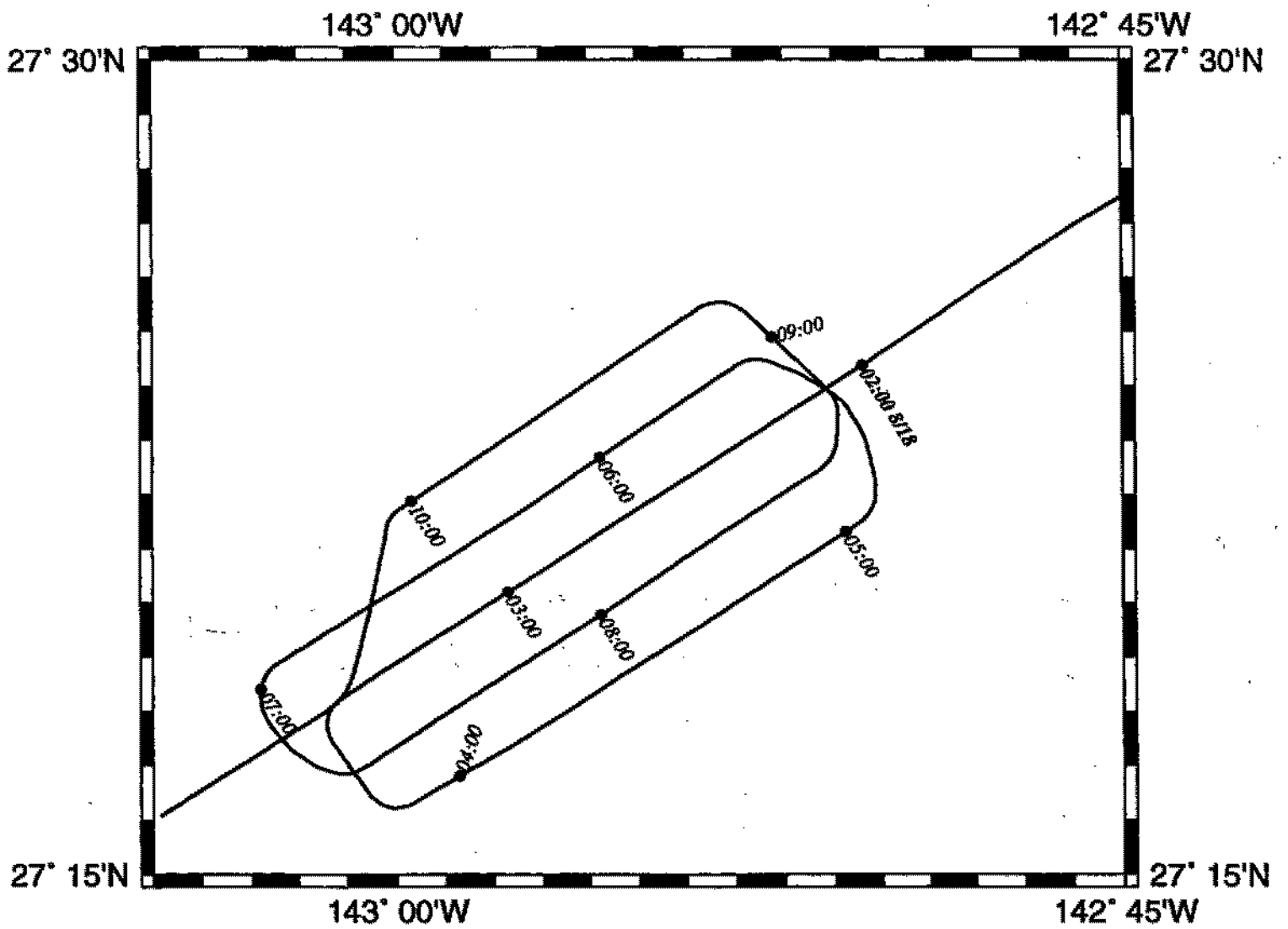
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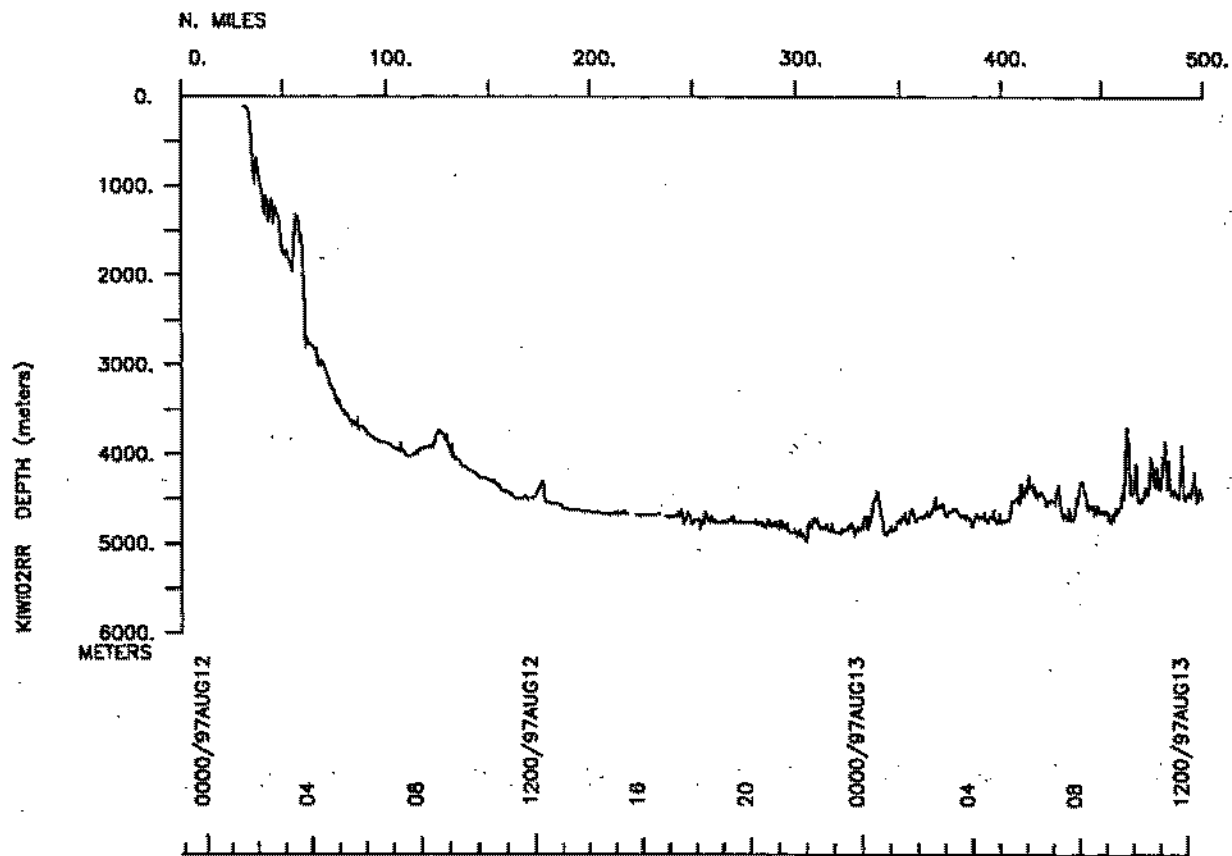
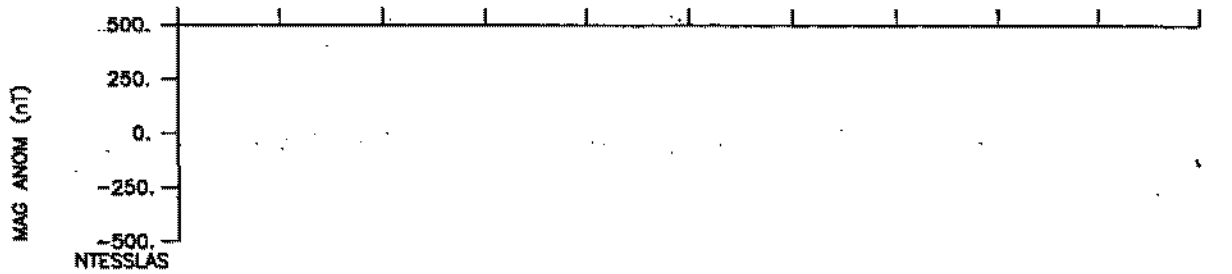
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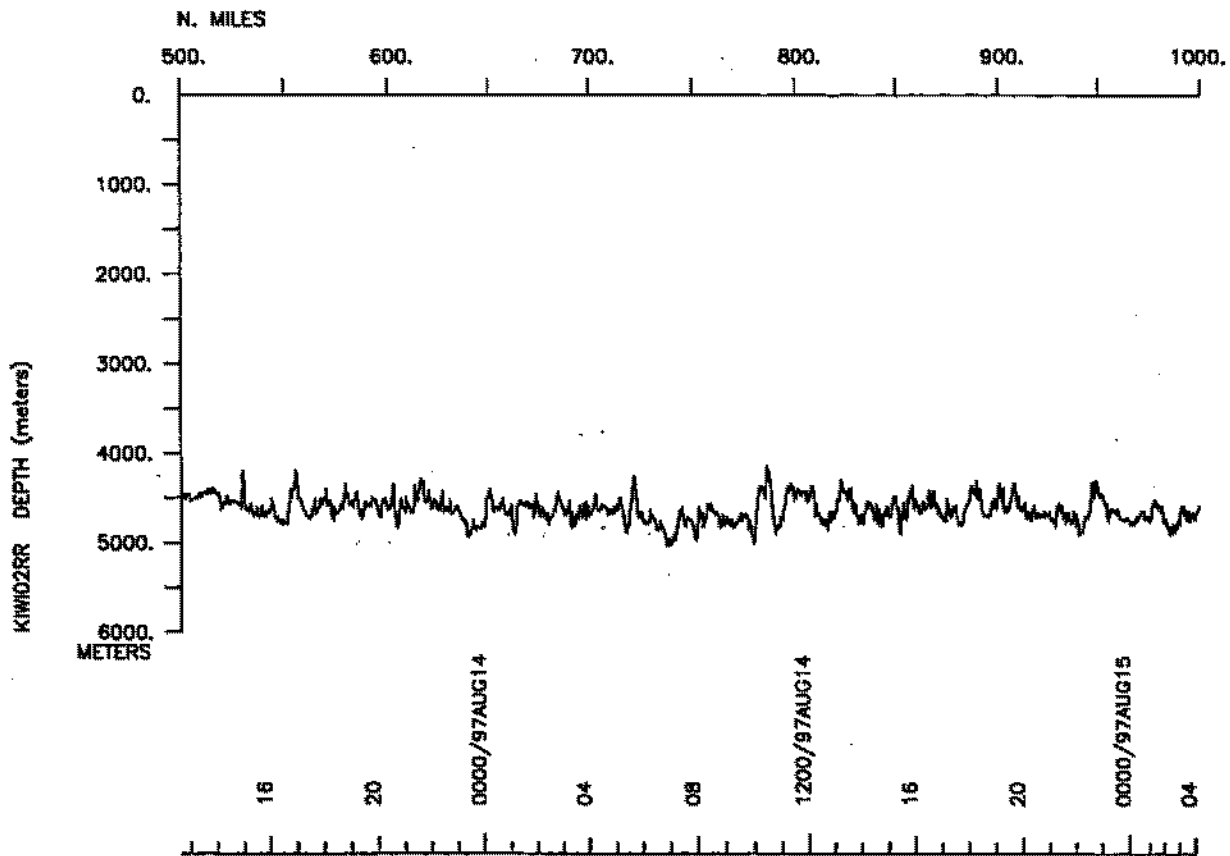
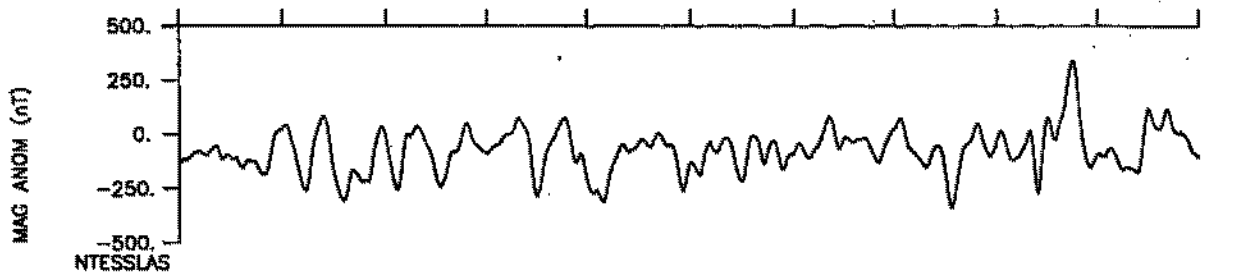
141° 45'W

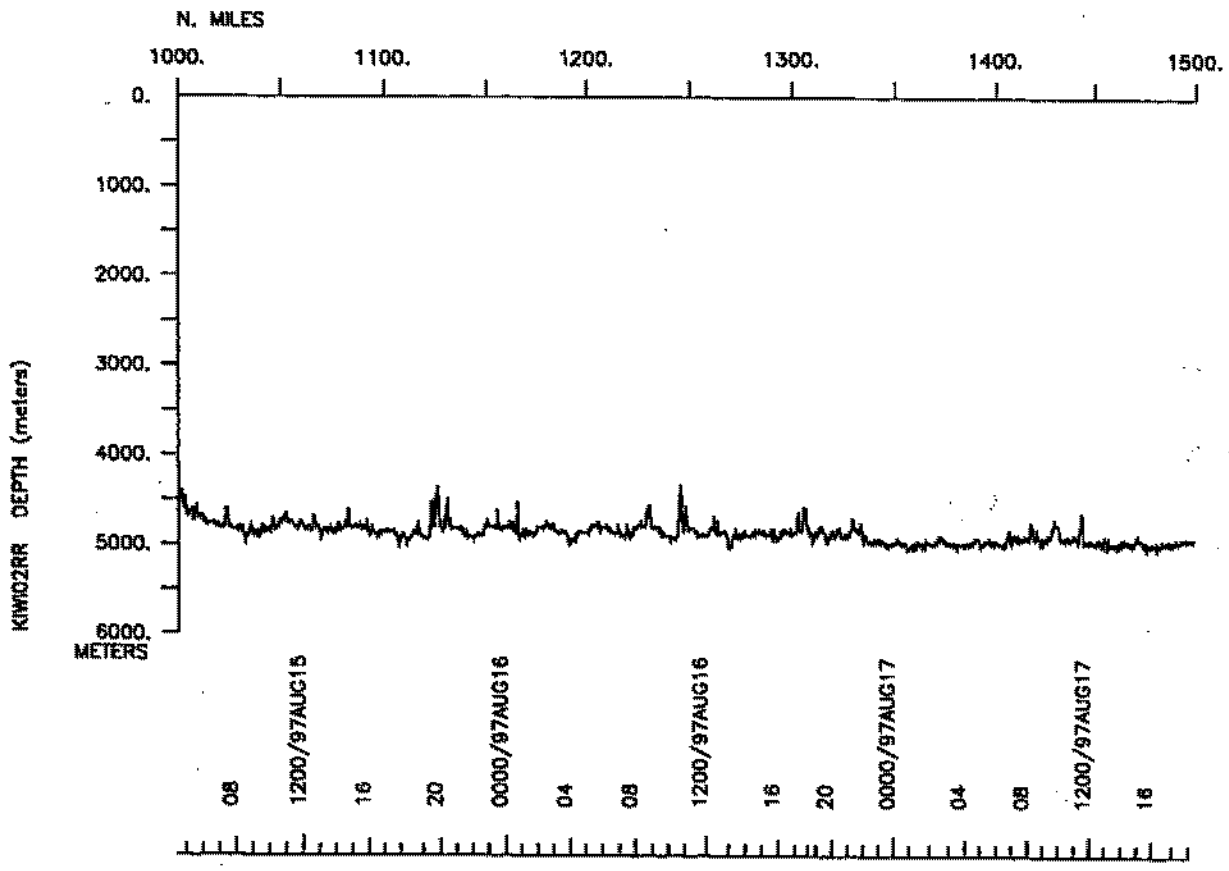
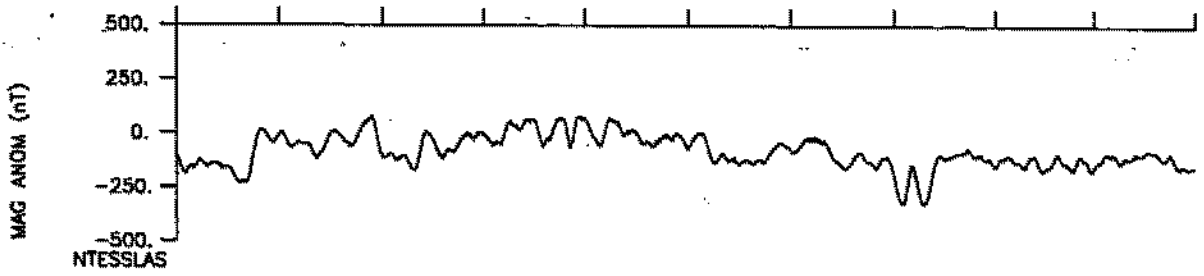


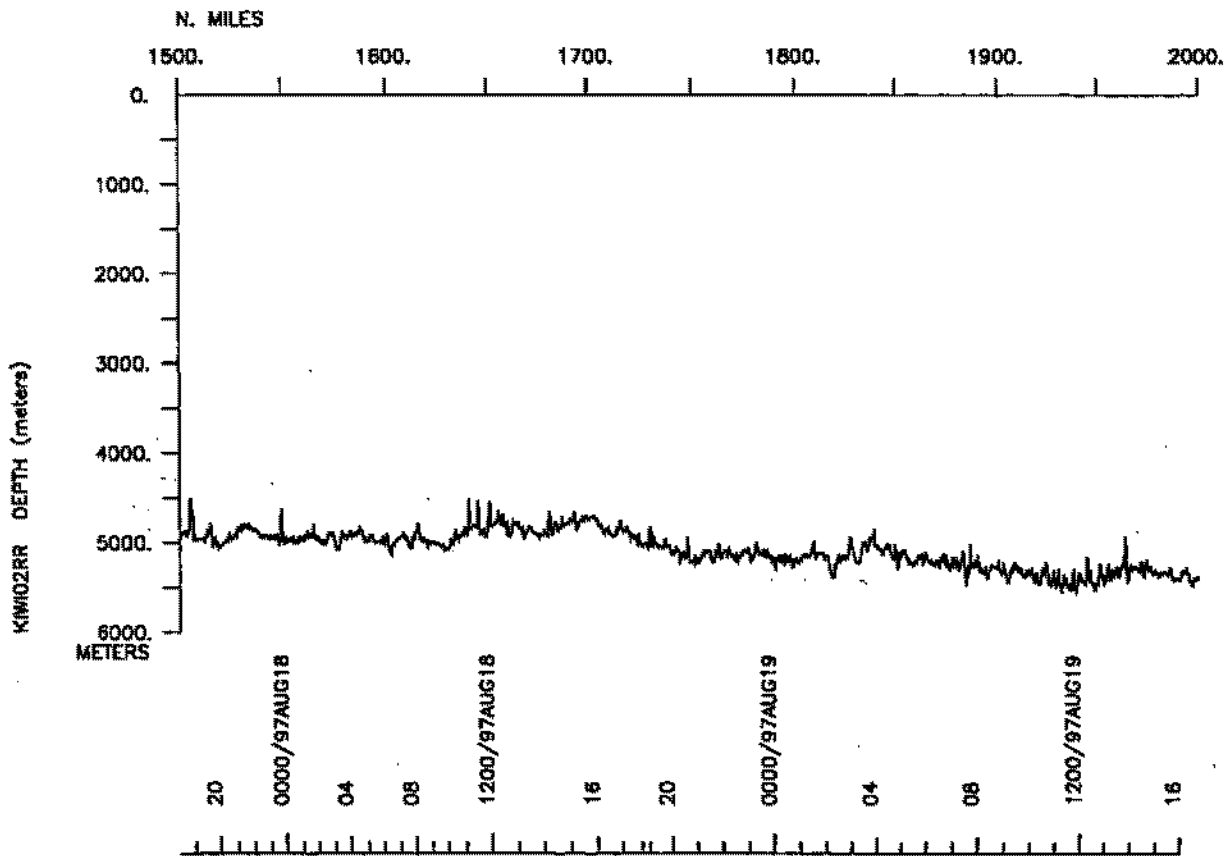
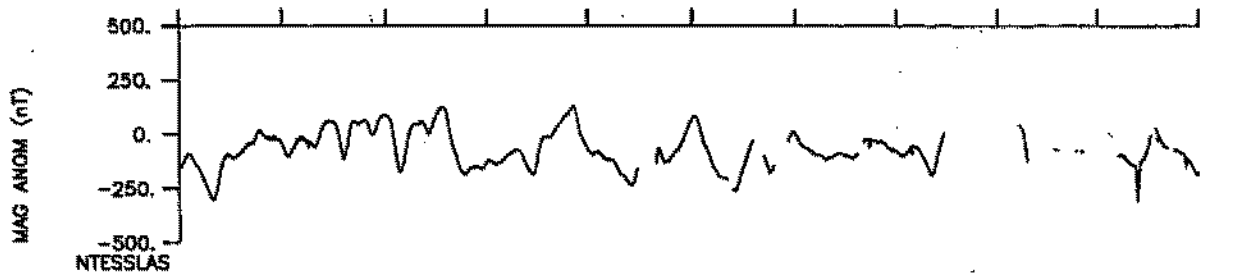
KIWI02RR.survey.3

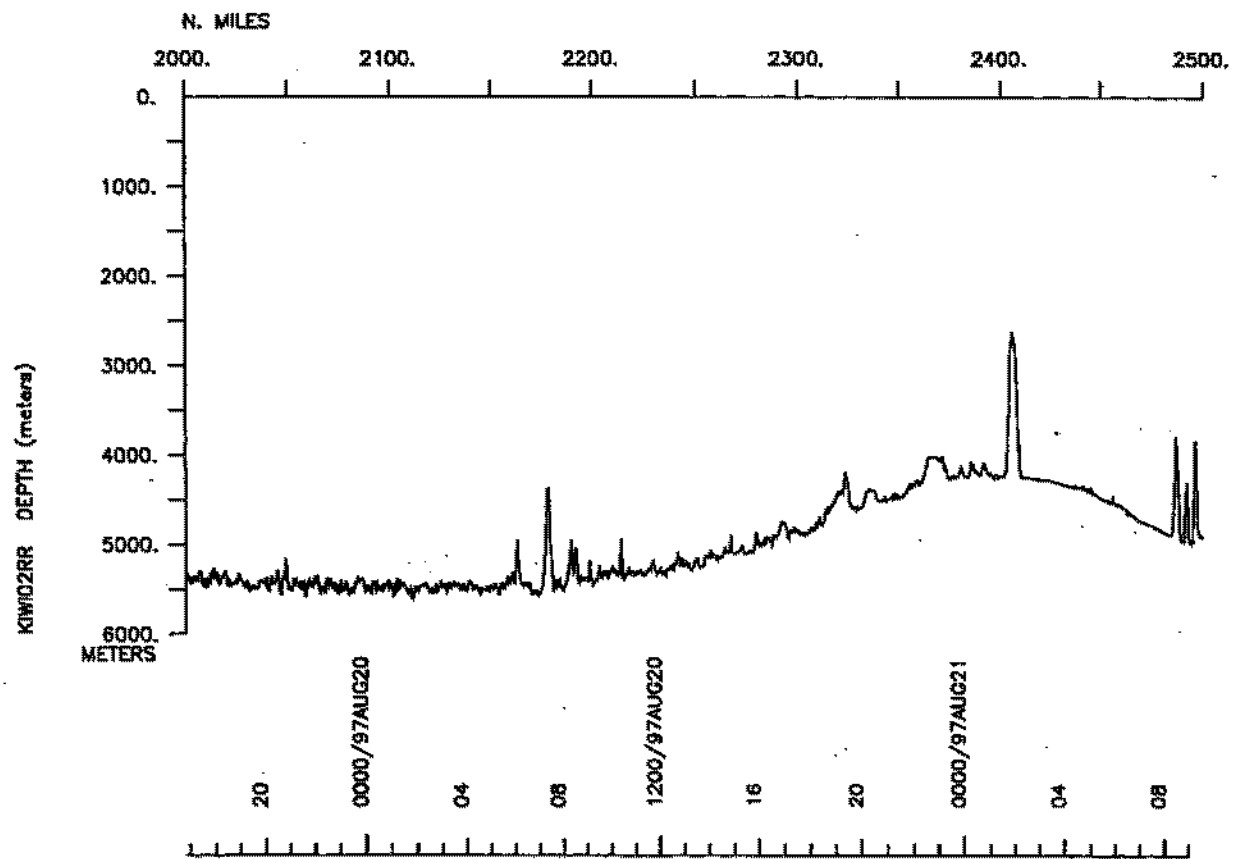
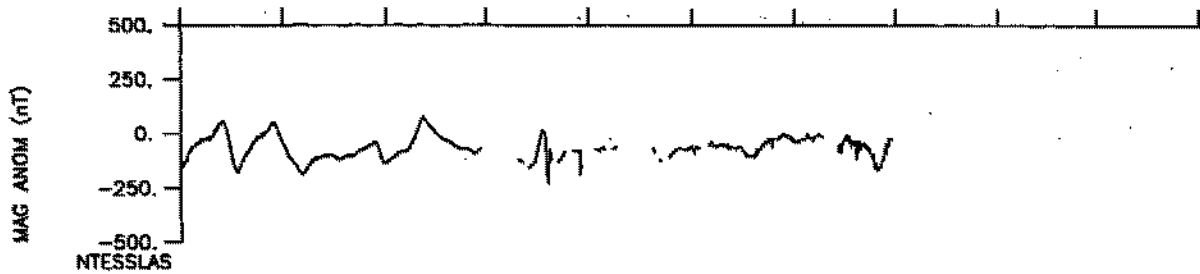


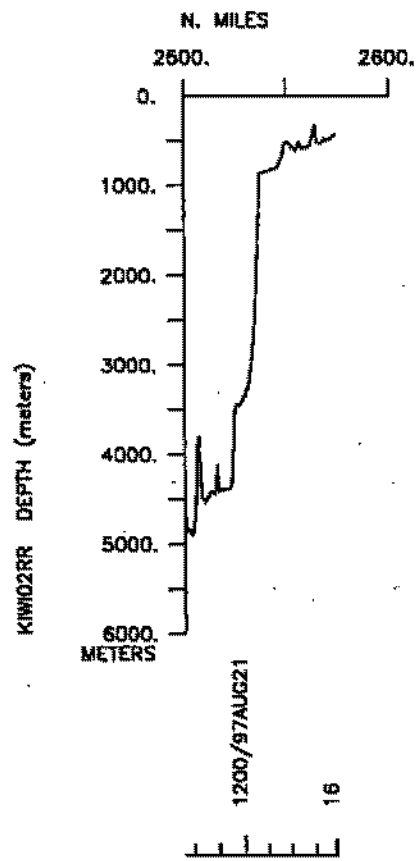
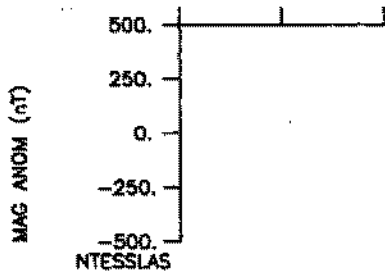












S.I.O. SAMPLE INDEX

KIWI EXPEDITION

LEG 2

(KIWI02RR)

R/V Revelle

(Issued December 1997)

Ports:

San Francisco, California (11 August 1997)
to
Honolulu, Hawaii (21 August 1997)

Chief Scientist:

Ralph Stephen, Woods Hole Oceanographic Inst.

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 I.D.# 276

**** Ports ***

```

2300 110897 0 LGPT B San Francisco, Calif. 37-49.00N 122-25.00W f KIWI02RR
1800 210897 0 LGPT E Honolulu, Hawaii 21-22.00N 157-58.00W f KIWI02RR

```

**** Personnel ***

```

# *****NAME***** *****TITLE***** *****AFFILIATION***** **CRID**
#-----
PECS WHOI Stephen,R. Chief scientist Woods Hole KIWI02RR
PECT STS Charters,J. Computer tech Scripps Institution KIWI02RR
PESP WHOI Greaves,R. Scientist Woods Hole KIWI02RR
PESP STS Mogk,S. Geophys tech Scripps Institution KIWI02RR
PESP STS Palomares,R. Hardware tech Scripps Institution KIWI02RR
PESP WHOI Swift,S. Scientist Woods Hole KIWI02RR
PESP STS Williams,R. Hydro tech Scripps Institution KIWI02RR

```

**** 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 DMMYY SAMP B SAMPLE DISP p CRUISE
#TIME DATE TZ CODE E IDENTIFIER CODE LATITUDE LONGITUDE c LEG-SHIP
#-----

```

```

**** Underway Data Curator - S. M. Smith ext. 42752 ***

```

**** Log Books ***

```

2300 110897 0 LBUW B Underway watch log GDC 37-49.34N 122-26.64W g KIWI02RR
1800 210897 0 LBUW E Underway watch log GDC 21-19.00N 157-53.17W g KIWI02RR

```


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

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

0210	120897	0	MBSR	B v.beam&sidescan r-01	GDC	37-32.41N	123-08.72W	g		KIWI02RR
1700	210897	0	MBSR	E v.beam&sidescan r-01	GDC	21-15.16N	157-53.13W	g		KIWI02RR

**** Echo Sounder Records Bathy 2000 ****

0230	120897	0	DPR3	B pdr 3.5khz r-01	GDC	37-29.46N	123-12.87W	g		KIWI02RR
2230	200897	0	DPR3	E pdr 3.5khz r-01	GDC	23-39.00N	155-17.91W	g		KIWI02RR

**** Seismic Reflection Records ****

0345	150897	0	SPRS	B Watergun (4sec)r-01	GDC	29-17.55N	138-47.12W	g		KIWI02RR
1000	180897	0	SPRS	E Watergun (4sec)r-01	GDC	27-21.88N	142-59.67W	g		KIWI02RR

**** Magnetics (Surface) **** DIGITAL

1245	130897	0	MGXX	B Surface magnetics	GDC	32-24.19N	130-05.01W	g		KIWI02RR
0000	200897	0	MGXX	E Surface magnetics	GDC	25-36.71N	150-56.08W	g		KIWI02RR

**** Expendable Bathythermograph Records ****

0245	120897	0	BTXP	MK-12 XBT # 39	GDC	37-27.29N	123-15.95W	g		KIWI02RR
2340	120897	0	BTXP	MK-12 XBT # 41	GDC	34-19.90N	127-29.14W	g		KIWI02RR
0137	140897	0	BTXP	MK-12 XBT # 43	GDC	31-16.79N	133-04.64W	g		KIWI02RR
0143	150897	0	BTXP	MK-12 XBT # 47	GDC	29-21.94N	138-30.32W	g		KIWI02RR
0149	160897	0	BTXP	MK-12 XBT # 49	GDC	28-33.39N	140-23.41W	g		KIWI02RR
0327	170897	0	BTXP	MK-12 XBT # 50	GDC	27-55.00N	141-44.97W	g		KIWI02RR
0339	180897	0	BTXP	MK-12 XBT # 51	GDC	27-17.14N	143-01.08W	g		KIWI02RR
0351	180897	0	BTXP	MK-12 XBT # 52	GDC	27-16.23N	142-59.91W	g		KIWI02RR
0301	190897	0	BTXP	MK-12 XBT # 53	GDC	26-13.13N	146-14.16W	g		KIWI02RR

End Sample Index

KIWI02RR