

**REPORT AND INDEX OF
UNDERWAY MARINE GEOPHYSICAL DATA**

KIWI EXPEDITION

LEG 3

(KIWI03RR)

R/V Revelle

(Issued December 1997)

Ports:

Honolulu, Hawaii (24 August 1997)

to

Honolulu, Hawaii (21 September 1997)

Chief Scientist:

Marcia McNutt, Massachusetts Inst. of Technology

Jim Charters, Computer Engineer

Ron Comer, Resident Marine Technician

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

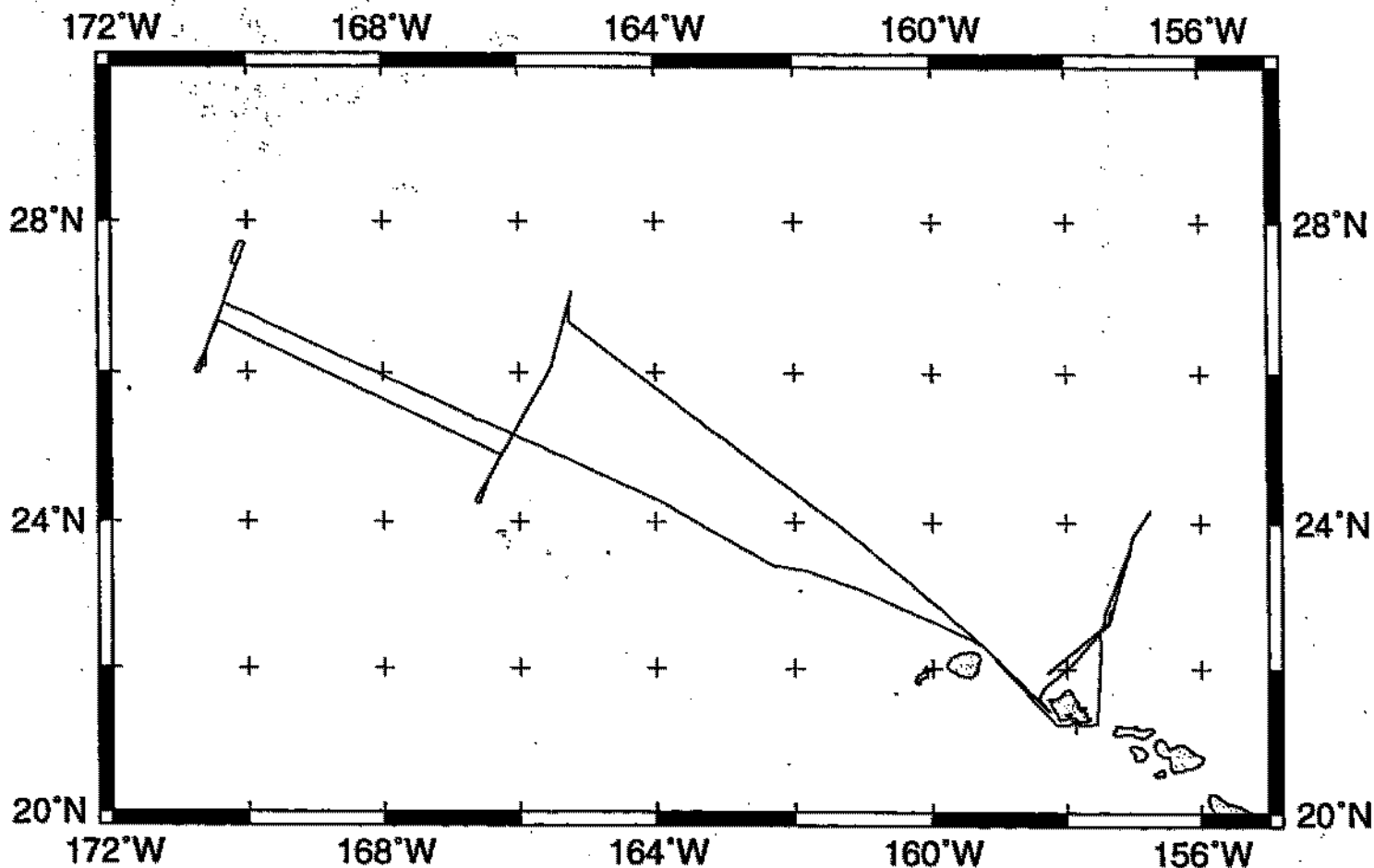
1. Files on Exabyte or DAT:
 - a) Separate time series ASCII files of navigation, single beam depth, gravity and magnetics.
 - b) These same data in a merged ASCII file in the MGD77 Exchange Format.
 - c) SeaBeam depth data (binary, Sun byte order) in SIO Swath Bathymetry Format. (*)
 - d) SeaBeam Sidescan 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 3

CHIEF SCIENTIST: Marcia McNutt, Mass. Inst. of Tech.

PORTS: Honolulu - Honolulu, Hawaii

DATES: 24 August - 21 September 1997

SHIP: R/V Revelle

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

Cruise - 2871 miles

Bathymetry - 2601 miles

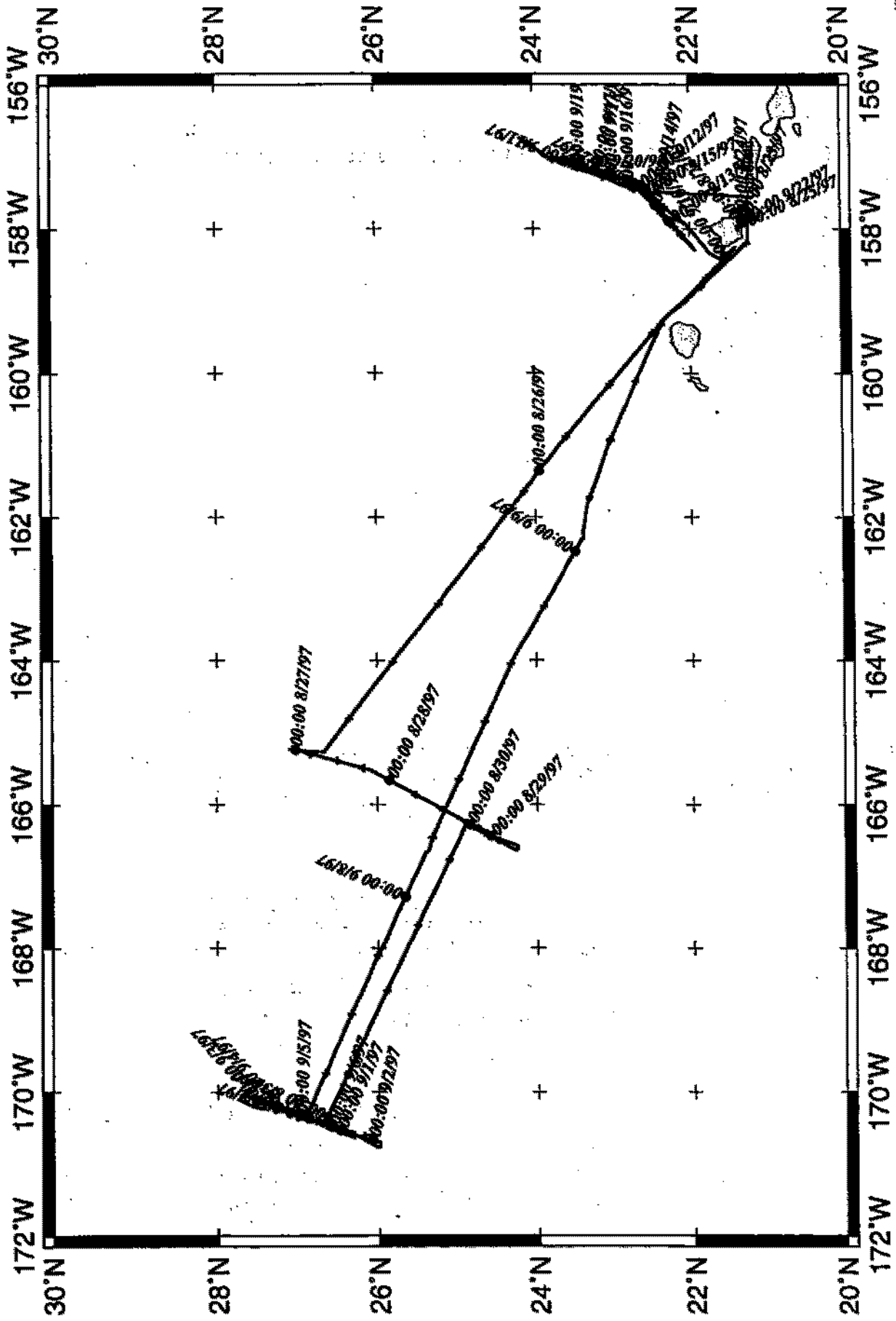
Sea Beam - 2601 miles

Magnetics - 266 miles

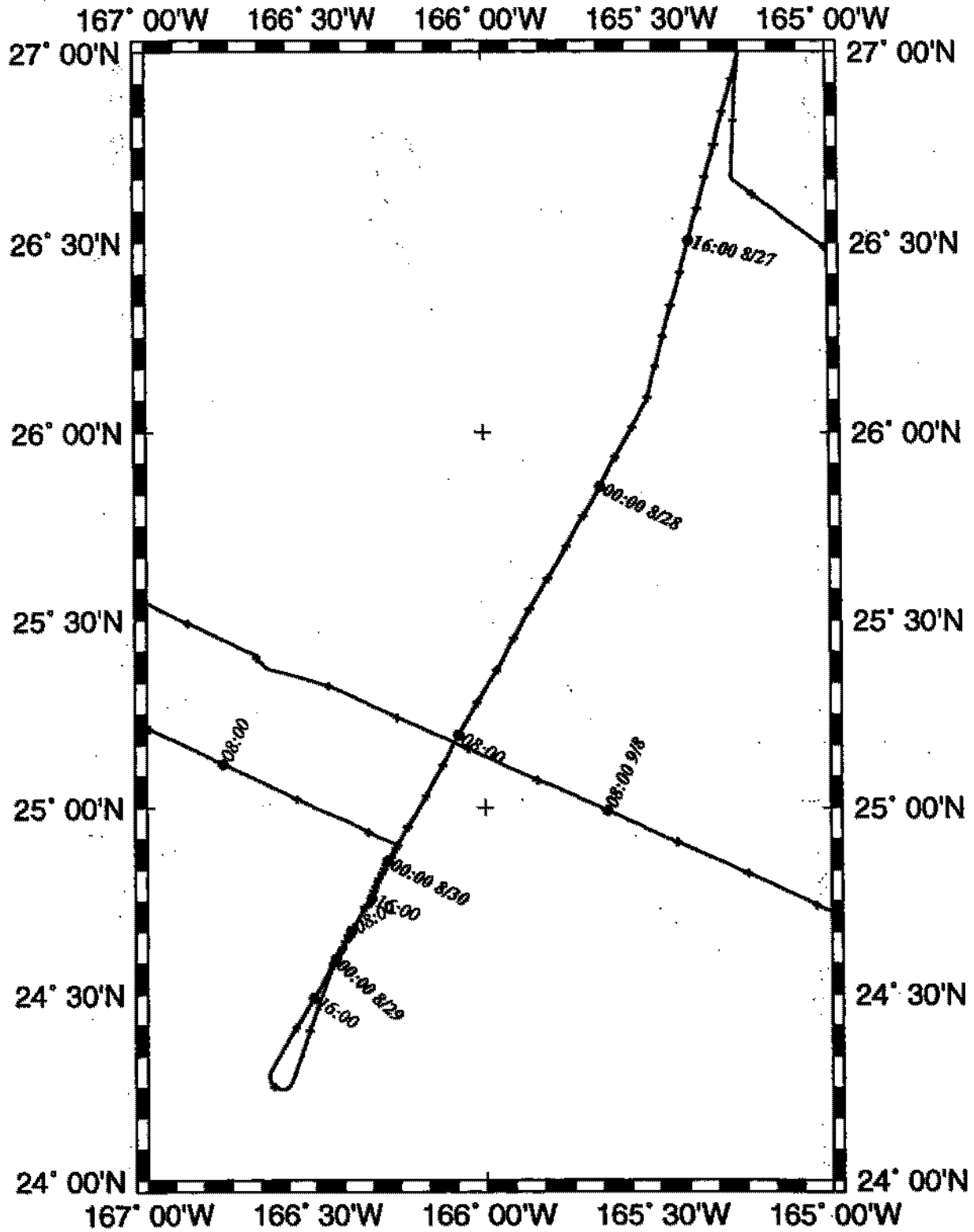
Seismic Reflection - 425 miles

**Gravity - collected with NAVO meter,
data not at GDC**

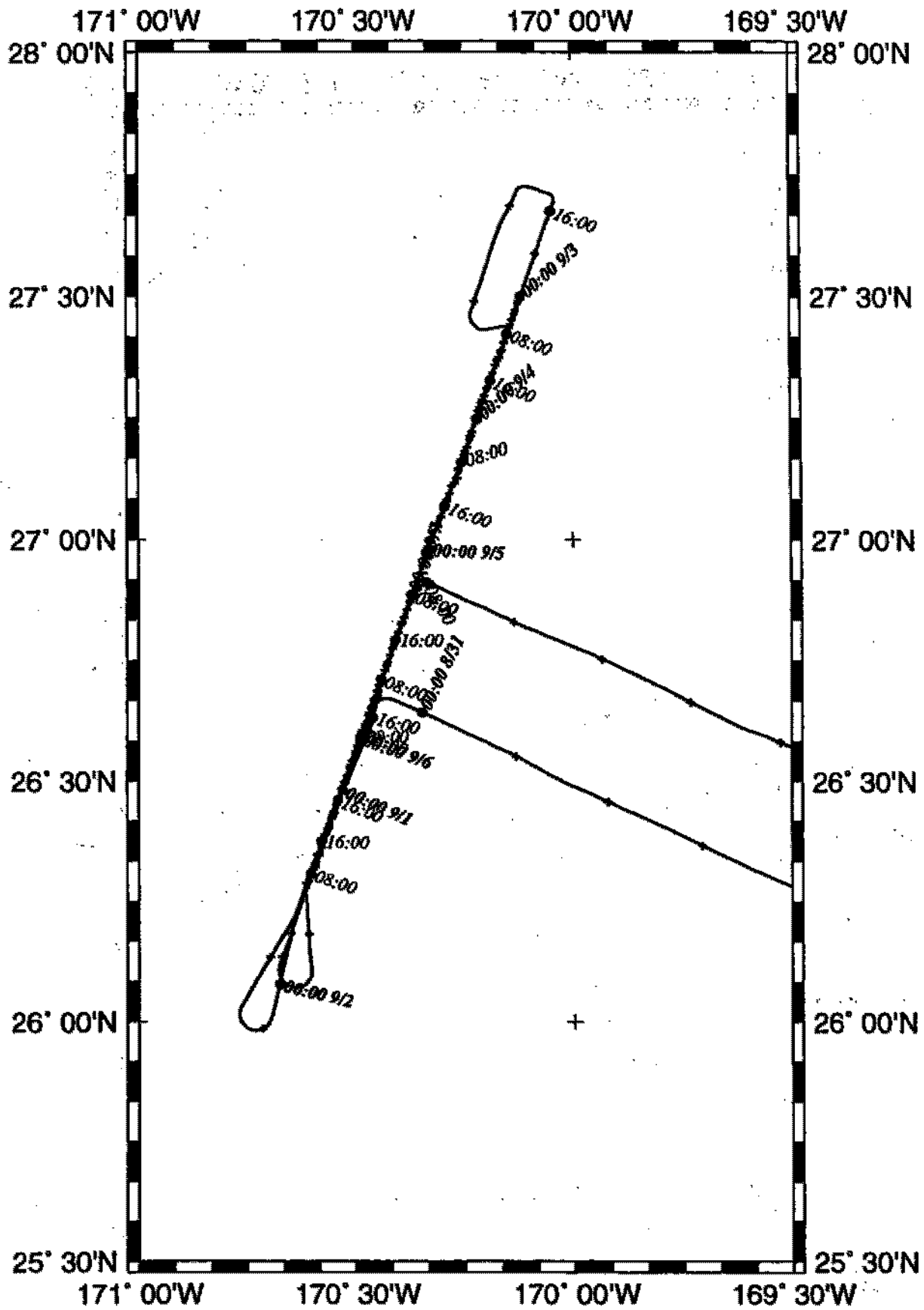
KIWIO3RRR Track



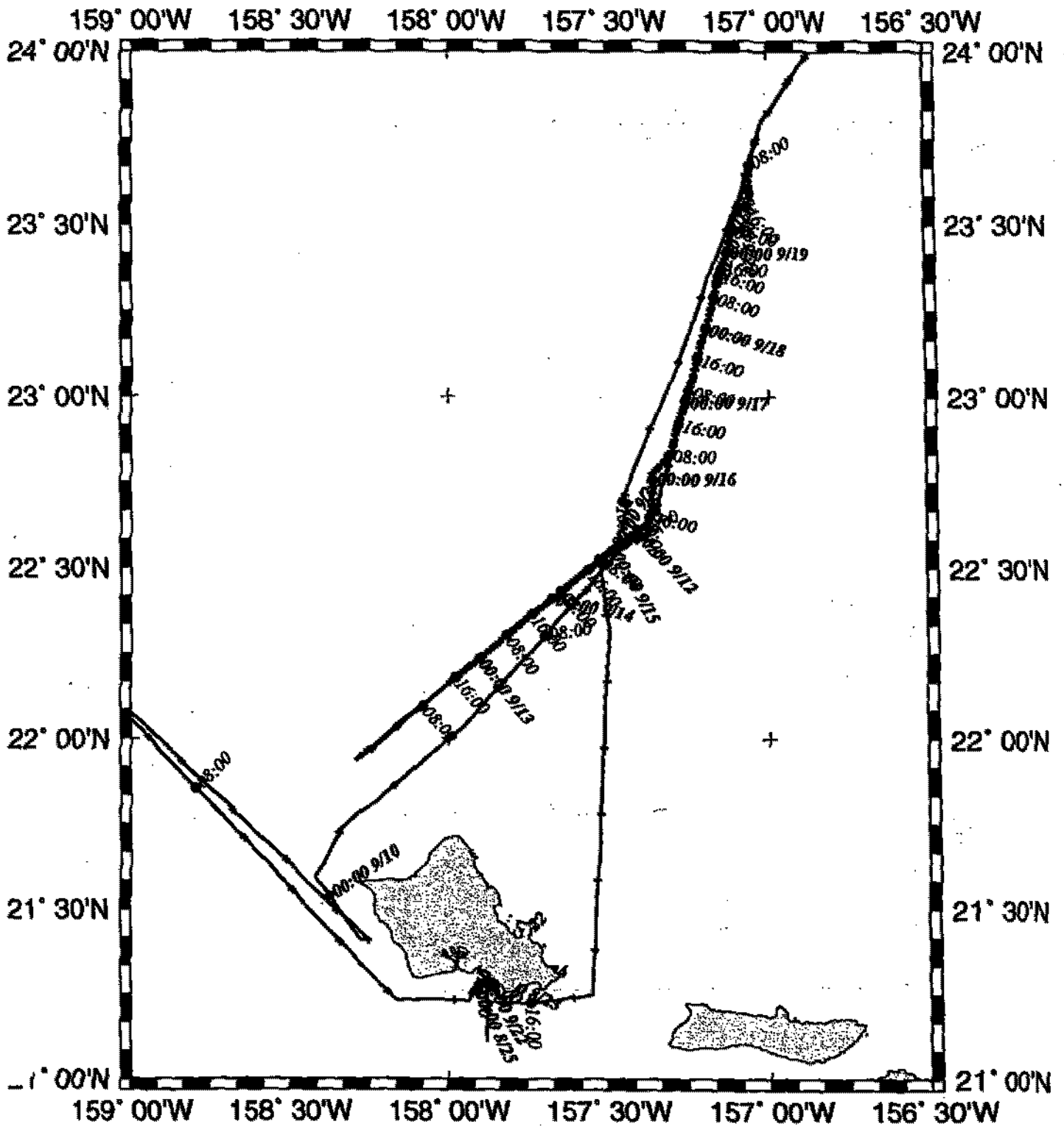
KIWI03RR.survey.1

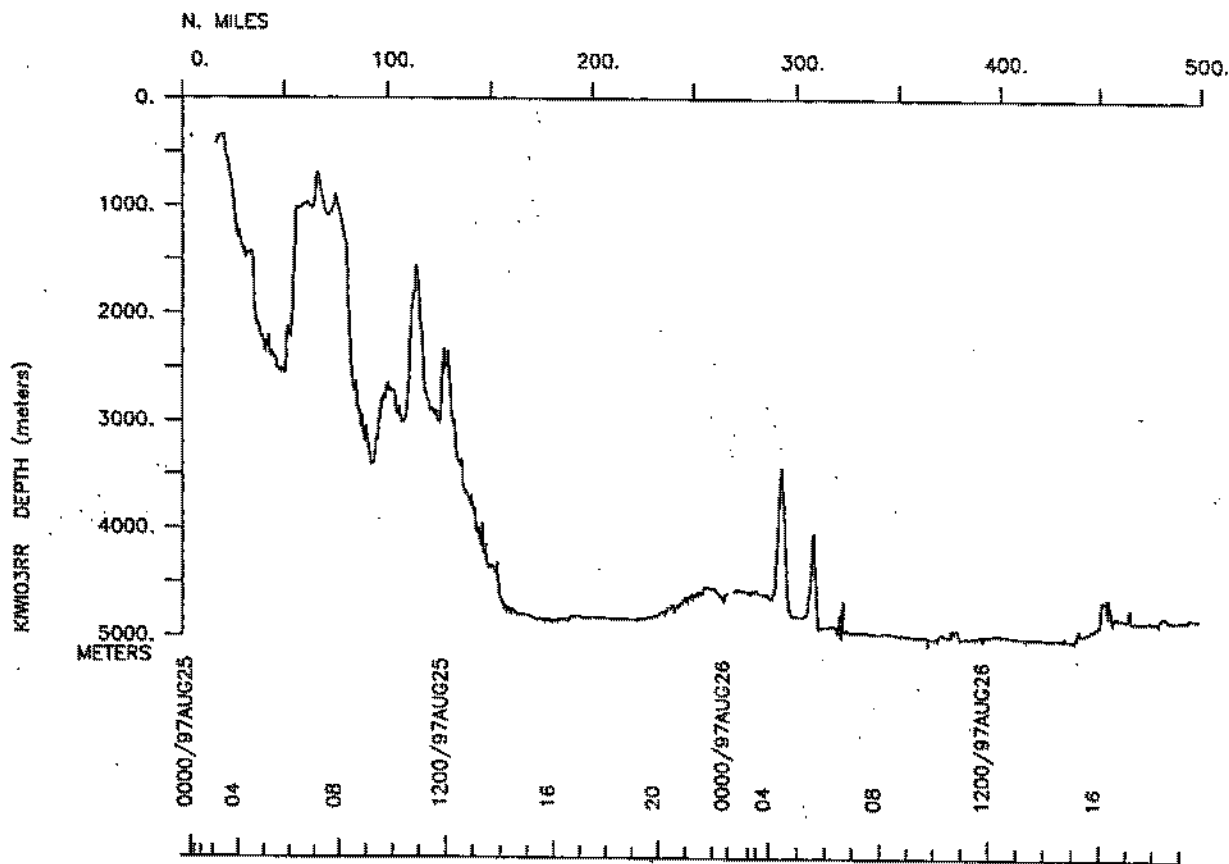
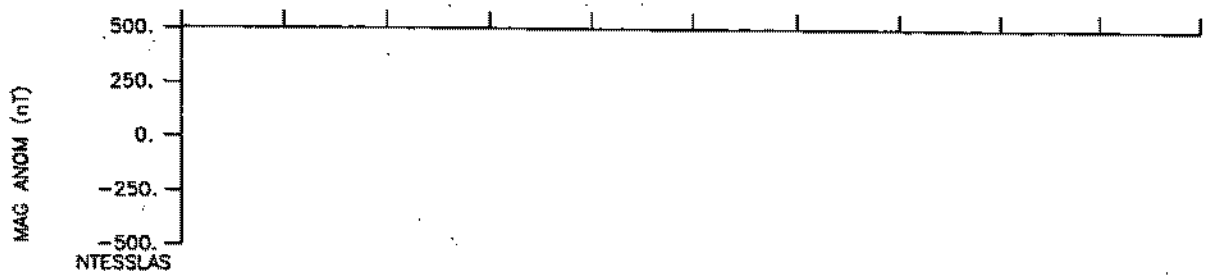


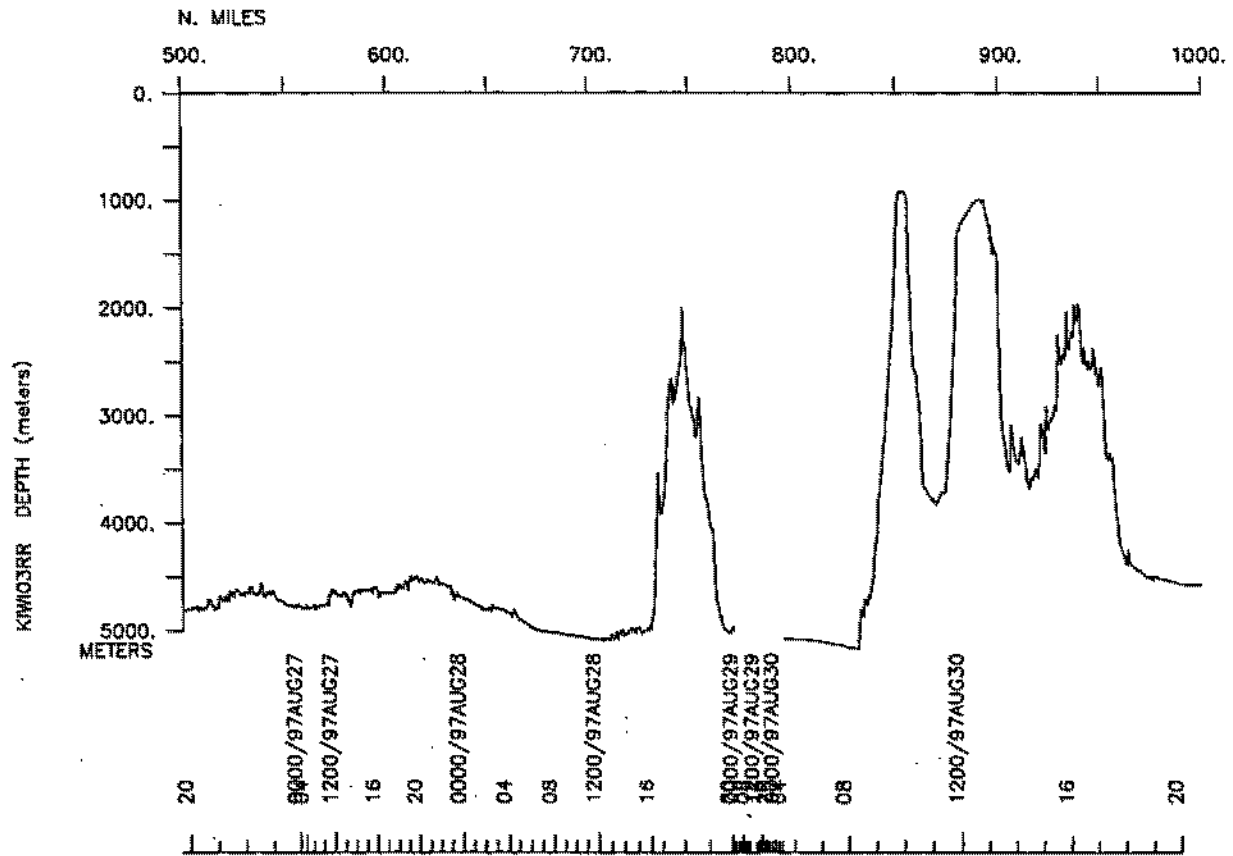
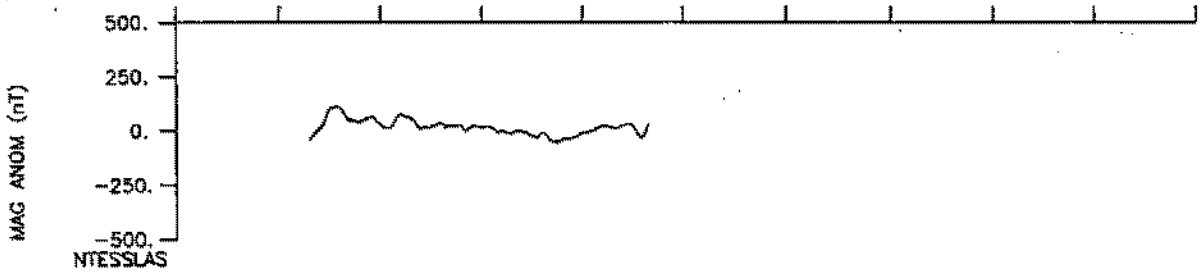
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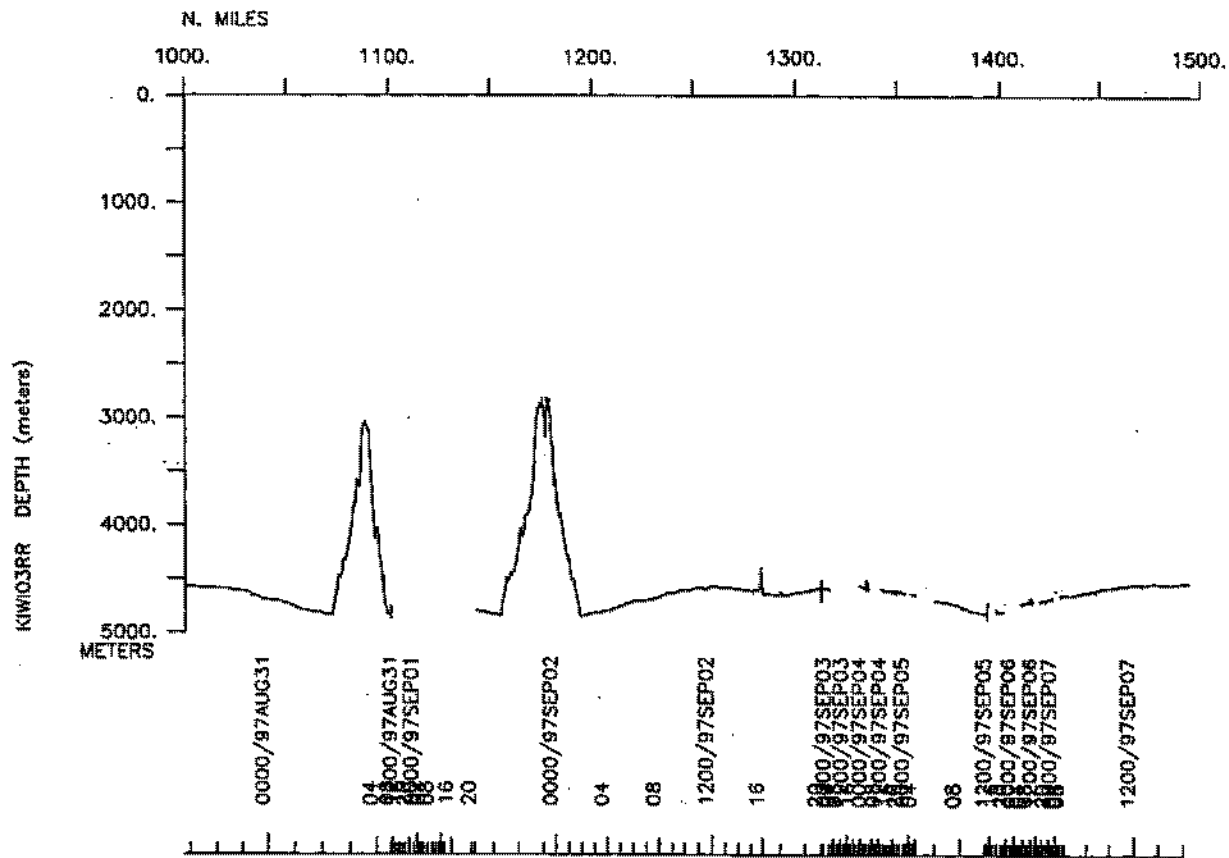
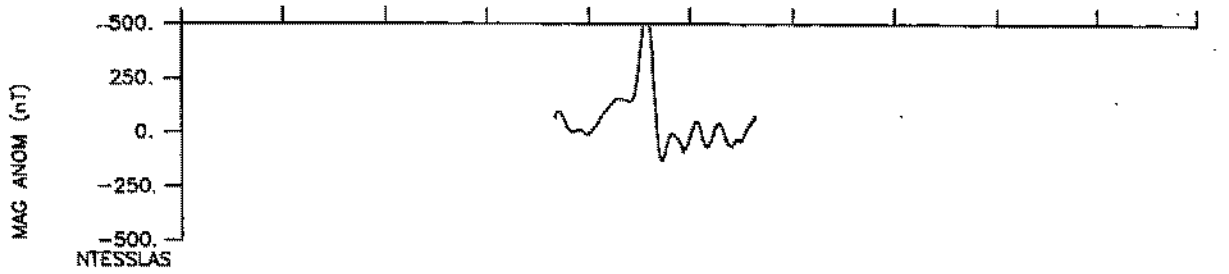


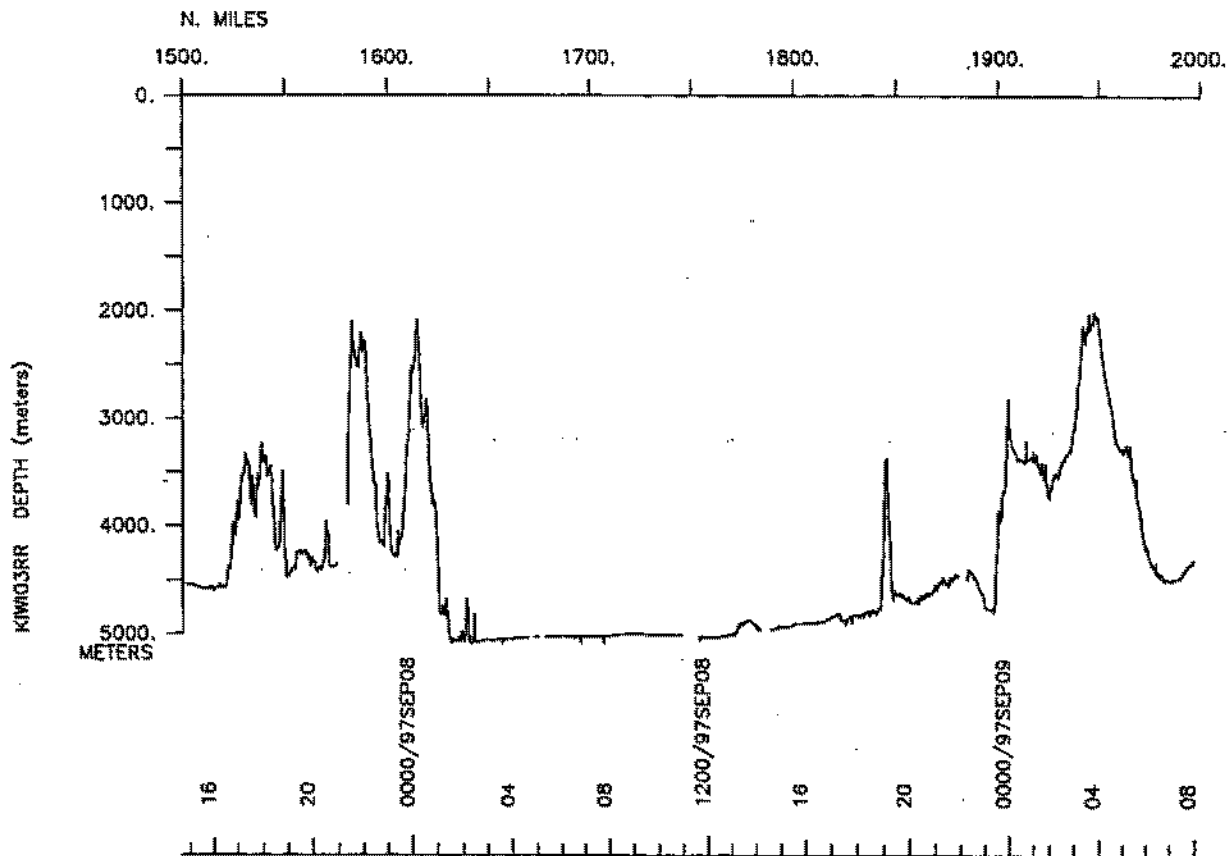
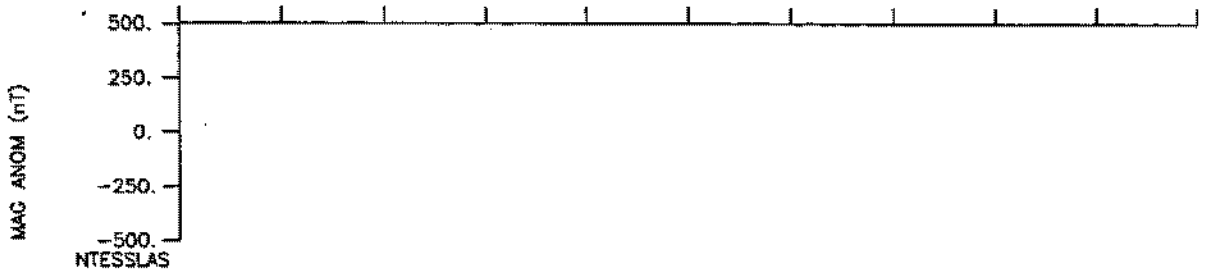
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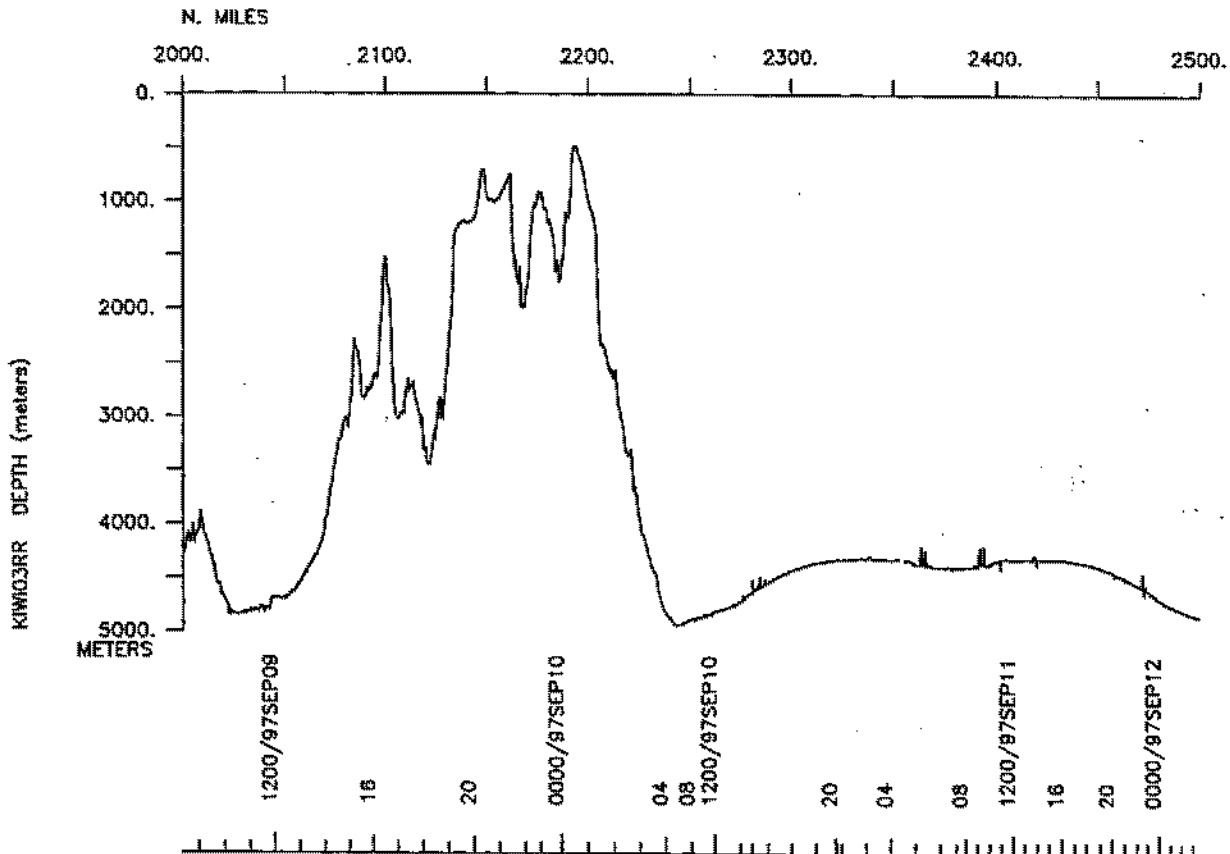
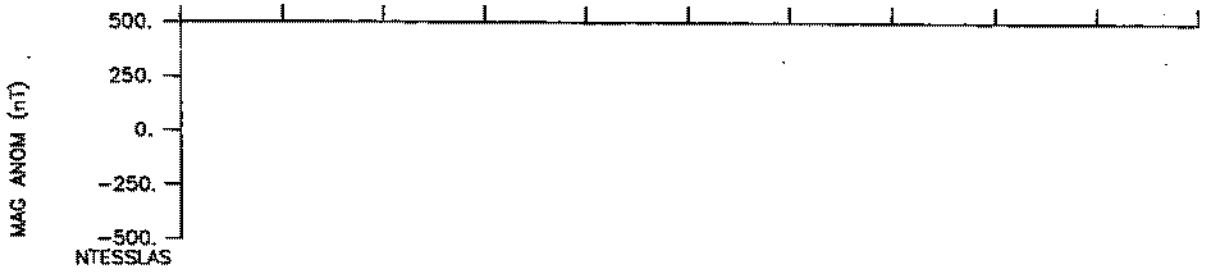


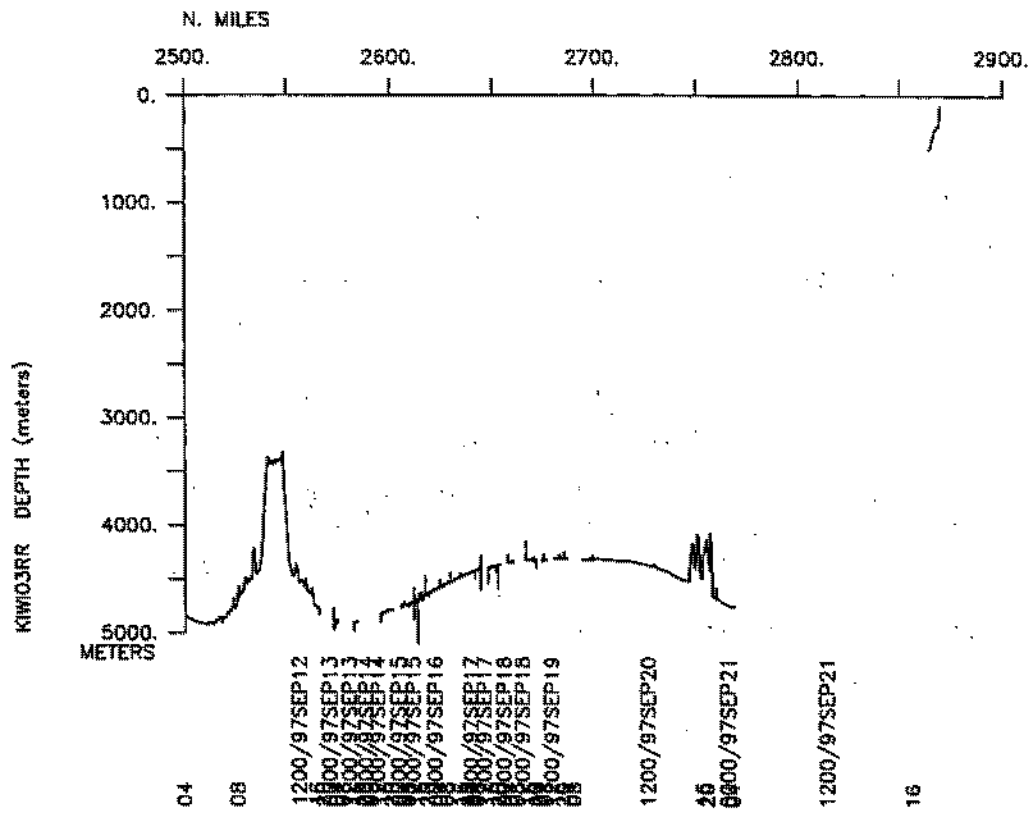
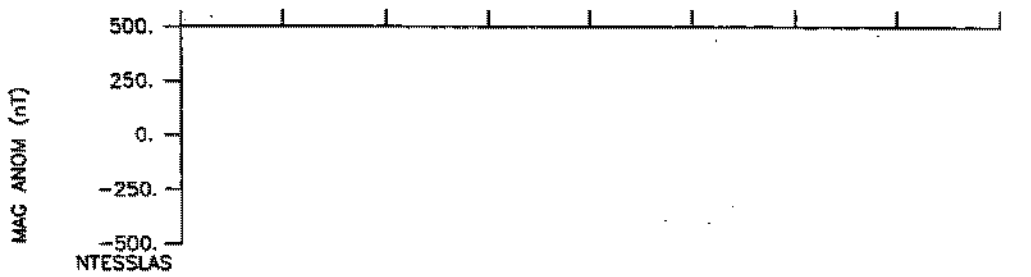












S.I.O. SAMPLE INDEX

KIWI EXPEDITION

LEG 3

(KIWI03RR)

R/V Revelle

(Issued December 1997)

Ports:

Honolulu, Hawaii (24 August 1997)

to

Honolulu, Hawaii (21 September 1997)

Chief Scientist:

Marcia McNutt (Massachusetts Inst. of Technology)

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 240897 LGPT B Honolulu, Hawaii 21-18.00N 157-52.00W f KIWI03RR
 1800 210997 LGPT E Honolulu, Hawaii 21-18.00N 157-52.00W f KIWI03RR

**** Personnel ***

#	*****NAME*****	*****TITLE*****	*****AFFILIATION*****	**CRID**
PESP MIT	McNutt, Dr. M.	Chief Scientist	Mass. Inst. Technology	KIWI03RR
PESP WHOI	Von Herzen, Dr. D.	Senior Scientist	Woods Hole	KIWI03RR
PESP SIX	Garven, Dr. G.	Geologist	Johns Hopkins Univ.	KIWI03RR
PESP GRD	Sclater, Dr. J.	Scientist	Scripps Institution	KIWI03RR
PESP SIX	Nagihara, Dr. S.	Scientist	Univ. of Houston	KIWI03RR
PESP UMI	Harris, Dr. R.	Post Doc.	U. of Miami	KIWI03RR
PESP STS	Comer, R. L.	Resident Tech.	Scripps Institution	KIWI03RR
PECT STS	Charters, J.	Computer Engineer	Scripps Institution	KIWI03RR
PESP STS	Mogk, S.	Air Gun Tech.	Scripps Institution	KIWI03RR
PESP LDEO	Young, I.	Air Gun Tech.	Lamont Doherty	KIWI03RR
PESP WHOI	Kirklin, J.	Heat Flow Tech.	Woods Hole	KIWI03RR
PESP WHOI	Hallinan, J.	Heat Flow Tech.	Woods Hole	KIWI03RR
PESP WHOI	Pelletier, G.	Heat Flow Tech.	Woods Hole	KIWI03RR
PEST SIX	Buttles, J.	Grad. Student	Johns Hopkins Univ.	KIWI03RR
PEST WHOI	Kelley, R.	Grad. Student	Woods Hole	KIWI03RR
PEST WHOI	Jordahl, K.	Grad. Student	Woods Hole	KIWI03RR
PEST WHOI	Georgen, J.	Grad. Student	Woods Hole	KIWI03RR
PEST SIX	Latter, R.	Grad. Student	U. of Southampton	KIWI03RR

**** 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 - S. M. Smith ext. 42752 ***

**** Log Books ***

1815 250897 0 LBUW B Underway watch log GDC 23-20.98N 160-34.36W g KIWI03RR
 1552 210997 0 LBUW E Underway watch log GDC 21-13.46N 157-43.30W g KIWI03RR

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

0442 250897 0 MBSR B vbeam&sidescan r-01 GDC 21-21.61N 158-18.00W g KIWI03RR
 1802 210997 0 MBSR E vbeam&sidescan r-01 GDC 21-16.87N 157-52.66W g KIWI03RR

**** Magnetism (Earth Total Field) Digital ***

1012 260897 0 MGCR B Magnetism GDC 24-59.74N 162-51.03W g KIWI03RR
 1500 020997 0 MGCR E Magnetism GDC 27-35.24N 170-04.94W g KIWI03RR

#GMT	DDMMYY	SAMP	B	SAMPLE	DISP				p	CRUISE
#TIME	DATE	TZ	CODE	E IDENTIFIER	CODE	LATITUDE	LONGITUDE		c	LEG-SHIP
**** Gravity - Digital ****										
1845	250897	0	GVCR	B Gravity/NAVO meter	MIT	23-25.19N	160-39.85W	g		KIWI03RR
1330	200997	0	GVCR	E Gravity/NAVO meter	MIT	22-48.69N	157-24.45W	g		KIWI03RR
**** Echo Sounder Records - Bathy 2000 ****										
2312	260897	0	DPR3	B 3.5khz Roll-1	GDC	26-51.75N	165-15.78W	g		KIWI03RR
1820	310897	0	DPR3	E 3.5khz Roll-1	GDC	26-24.21N	170-33.77W	g		KIWI03RR
1823	310897	0	DPR3	B 3.5khz Roll-2	GDC	26-24.21N	170-33.77W	g		KIWI03RR
1755	020997	0	DPR3	E 3.5khz Roll-2	GDC	27-30.43N	170-12.98W	g		KIWI03RR
1755	020997	0	DPR3	B 3.5khz Roll-3	GDC	27-30.43N	170-12.98W	g		KIWI03RR
0530	100997	0	DPR3	E 3.5khz Roll-3	GDC	22-18.03N	157-41.71W	g		KIWI03RR
1121	100997	0	DPR3	B 3.5khz Roll-4	GDC	22-19.80N	157-40.06W	g		KIWI03RR
2013	100997	0	DPR3	E 3.5khz Roll-4	GDC	23-20.00N	157-09.20W	g		KIWI03RR
0150	110997	0	DPR3	B 3.5khz Roll-5	GDC	23-20.26N	157-09.18W	g		KIWI03RR
1230	110997	0	DPR3	E 3.5khz Roll-5	GDC	23-41.57N	157-02.94W	g		KIWI03RR
1254	110997	0	DPR3	B 3.5khz Roll-6	GDC	23-39.29N	157-03.66W	g		KIWI03RR
0533	210997	0	DPR3	E 3.5khz Roll-6	GDC	22-31.41N	157-31.52W	g		KIWI03RR
**** Seismic Profiler Survey ****										
1015	270897	0	SPSV	B 5airgun surv. UR TA	WHOI	26-59.52N	165-15.13W	g		KIWI03RR
1630	280897	0	SPSV	E 5airgun surv. UR TA	WHOI	24-26.71N	166-32.22W	g		KIWI03RR
2347	010997	0	SPSV	B 5airgun surv. UR TA	WHOI	26-03.49N	170-40.89W	g		KIWI03RR
1536	020997	0	SPSV	E 5airgun surv. UR TA	WHOI	27-38.76N	170-03.47W	g		KIWI03RR
0730	110997	0	SPSV	B 5airgun surv. UR TA	WHOI	24-06.22N	156-47.11W	g		KIWI03RR
0941	120997	0	SPSV	E 5airgun surv. UR TA	WHOI	21-59.14N	158-13.38W	g		KIWI03RR
**** Seismic Reflection Records ****										
1015	270897	0	SPRS	B 4sec.seis.surv.line1	GDC	26-59.52N	165-15.13W	g		KIWI03RR
1630	280897	0	SPRS	E 4sec.seis.surv.line1	GDC	24-26.71N	166-32.22W	g		KIWI03RR
2347	010997	0	SPRS	B 4sec.seis.surv.line2	GDC	26-03.49N	170-40.89W	g		KIWI03RR
1530	020997	0	SPRS	E 4sec.seis.surv.line2	GDC	27-38.19N	170-03.73W	g		KIWI03RR
0725	110997	0	SPRS	B 4sec.seis.surv.line3	GDC	24-06.49N	156-46.91W	g		KIWI03RR
0930	120997	0	SPRS	E 4sec.seis.surv.line3	GDC	21-59.87N	158-12.44W	g		KIWI03RR
**** Cores ****										
1841	010997	0	COKK	King Kong 1	4772M	WHOI	26-27.96N	170-32.27W	g	KIWI03RR
2003	020997	0	COKK	King Kong 2	4570M	WHOI	27-26.45N	170-08.47W	g	KIWI03RR
0640	100997	0	COKK	King Kong 3	4865M	WHOI	22-18.03N	157-41.71W	g	KIWI03RR
1459	100997	0	COKK	King Kong 4	4624M	WHOI	22-40.01N	157-21.01W	g	KIWI03RR
2130	100997	0	COKK	X King Kong 5	4290M	WHOI	23-20.00N	157-09.20W	g	KIWI03RR
0020	110997	0	COKK	King Kong 6	4290M	WHOI	23-20.00N	157-09.21W	g	KIWI03RR

#GMT #TIME #-----	DDMMYY DATE -----	TZ	SAMP CODE	B E	SAMPLE IDENTIFIER	DISP CODE	LATITUDE	LONGITUDE	p c	CRUISE LEG-SHIP
#*** Heat Flow ***										
2208	280897	0	HFME	B	Heat Flow French	WHOI	24-34.85N	166-27.03W	g	KIWI03RR
0712	290897	0	HFME	E	Frig. Shoals 3 1-37	WHOI	24-40.14N	166-23.76W	g	KIWI03RR
1346	290897	0	HFME	B	HF French Frigate	WHOI	24-43.93N	166-21.25W	g	KIWI03RR
0334	300897	0	HFME	E	Shoals 4 1-9	WHOI	24-53.40N	166-15.72W	g	KIWI03RR
0604	310897	0	HFME	B	Maro Bank Sta. 5	WHOI	26-17.47N	170-36.56W	g	KIWI03RR
1426	010997	0	HFME	E	1-18	WHOI	26-41.10N	170-26.85W	g	KIWI03RR
0208	030997	0	HFME	B	HF Maro Bank Sta. 6	WHOI	27-29.97N	170-07.07W	g	KIWI03RR
0401	050997	0	HFME	E	1-36	WHOI	26-55.78N	170-20.99W	g	KIWI03RR
1104	050997	0	HFME	B	HF Maro Bank Sta. 7	WHOI	26-23.40N	170-34.18W	g	KIWI03RR
0521	070997	0	HFME	E	1-29	WHOI	26-54.64N	170-20.15W	g	KIWI03RR
1421	120997	0	HFME	B	HF Oahu Sta. 8 1-24	WHOI	22-09.89N	157-59.61W	g	KIWI03RR
2033	130997	0	HFME	E	HF Oahu Sta. 8 1-24	WHOI	22-23.97N	157-41.13W	g	KIWI03RR
0436	140997	0	HFME	B	HF Oahu Sta. 9 1-19	WHOI	22-24.61N	157-40.31W	g	KIWI03RR
0519	150997	0	HFME	E	HF Oahu Sta. 9 1-19	WHOI	22-34.70N	157-25.54W	g	KIWI03RR
0940	150997	0	HFME	B	HF Oahu Sta. 10 1-26	WHOI	22-35.18N	157-24.58W	g	KIWI03RR
2139	160997	0	HFME	E	HF Oahu Sta. 10 1-26	WHOI	22-59.07N	157-15.40W	g	KIWI03RR
0633	170997	0	HFME	B	HF Oahu Sta. 11 1-26	WHOI	23-00.02N	157-15.12W	g	KIWI03RR
1857	180997	0	HFME	E	HF Oahu Sta. 11 1-26	WHOI	23-24.12N	157-08.05W	g	KIWI03RR
0246	190997	0	HFME	B	HF Oahu Sta. 12 1-12	WHOI	23-25.09N	157-07.77W	g	KIWI03RR
1827	190997	0	HFME	E	HF Oahu Sta. 12 1-12	WHOI	23-34.73N	157-03.31W	g	KIWI03RR
0006	200997	0	HFME	B	HF Oahu Sta. 13 1-6	WHOI	23-35.73N	157-03.30W	g	KIWI03RR
0621	200997	0	HFME	E	HF Oahu Sta. 13 1-6	WHOI	23-40.28N	157-03.27W	g	KIWI03RR
1708	200997	0	HFME	B	HF Pore Press. Probe	WHOI	22-41.51N	157-27.00W	g	KIWI03RR
1907	200997	0	HFME	E	Oahu PP 4 1-2	WHOI	22-41.50N	157-25.91W	g	KIWI03RR
2349	200997	0	HFME	B	HF Pore Press. Probe	WHOI	22-32.99N	157-28.88W	g	KIWI03RR
0553	210997	0	HFME	E	Oahu PP 5 1-4	WHOI	22-31.41N	157-31.52W	g	KIWI03RR
#***					End Sample Index					KIWI03RR