

*REPORT AND INDEX OF  
UNDERWAY MARINE GEOPHYSICAL DATA*

**KIWI EXPEDITION**

**LEG 4**

**(KIWI04RR)**

R/V Revelle

(Issued December 1997)

**Ports:**

Honolulu, Hawaii (24 September 1997)

to

Honolulu, Hawaii (26 September 1997)

**Chief Scientist:**

Roger Lukas, University of Hawaii

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

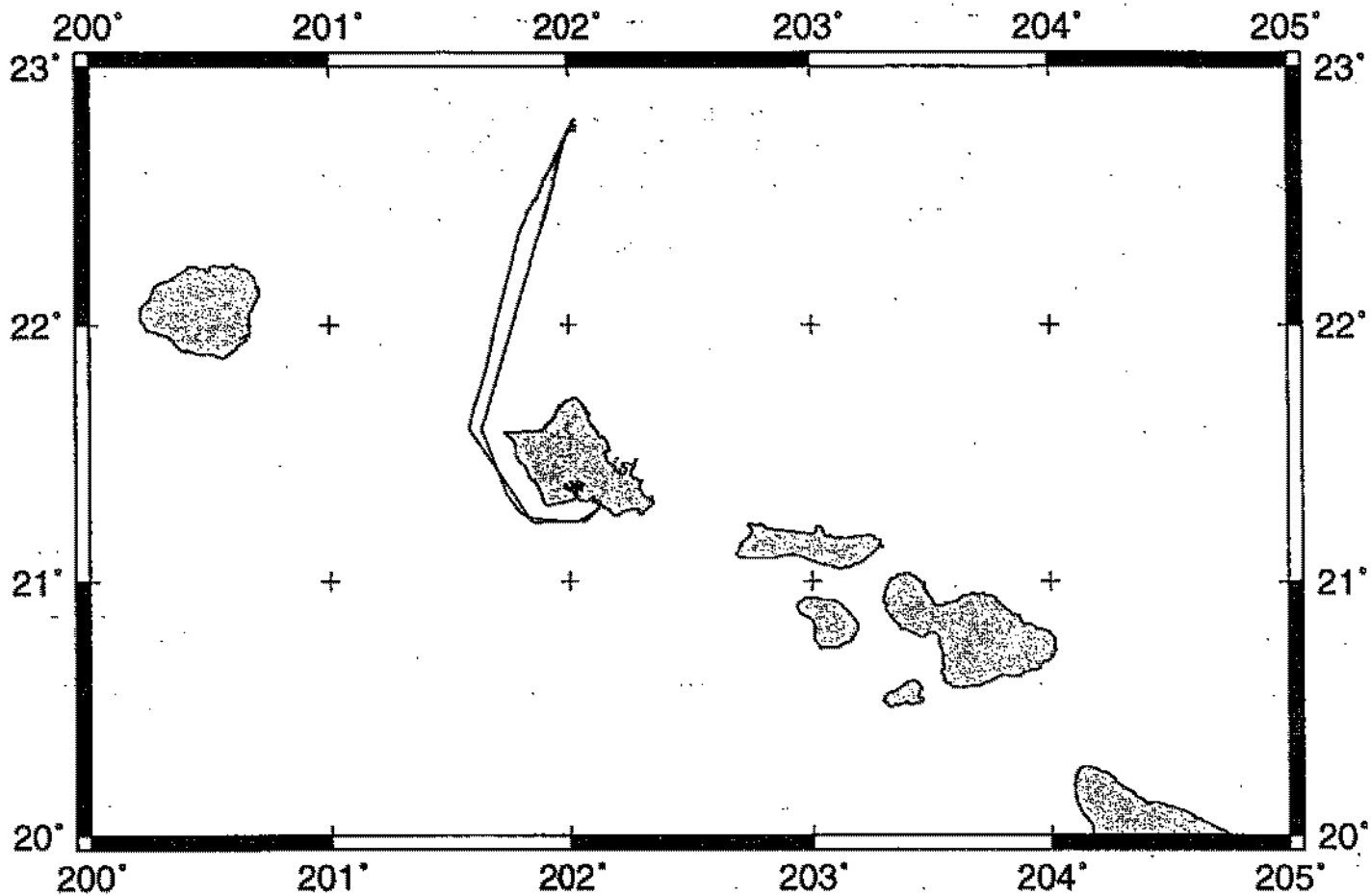
rev10/96

### Sea Beam Data Collected in Ancillary Mode

In the absence of funding for Sea Beam operations on this leg, Sea Beam data were collected in "ancillary mode". In this mode of operation, no Hardware Technician or SB/Underway Processor were on board and the types of realtime records and post-processed data products are reduced from those available under the fully funded mode.

The Sea Beam data remain proprietary to the SIO Shipboard Technical Support Group, not the chief scientist.

May 1993



**KIWI EXPEDITION LEG 4**

**CHIEF SCIENTIST:** Roger Lukas, University of Hawaii

**PORTS:** Honolulu - Honolulu, Hawaii

**DATES:** 24 - 26 September 1997

**SHIP:** R/V Reville

**TOTAL MILEAGE OF UNDERWAY DATA COLLECTED**

**Cruise - 254 miles**

**Magnetics - none collected**

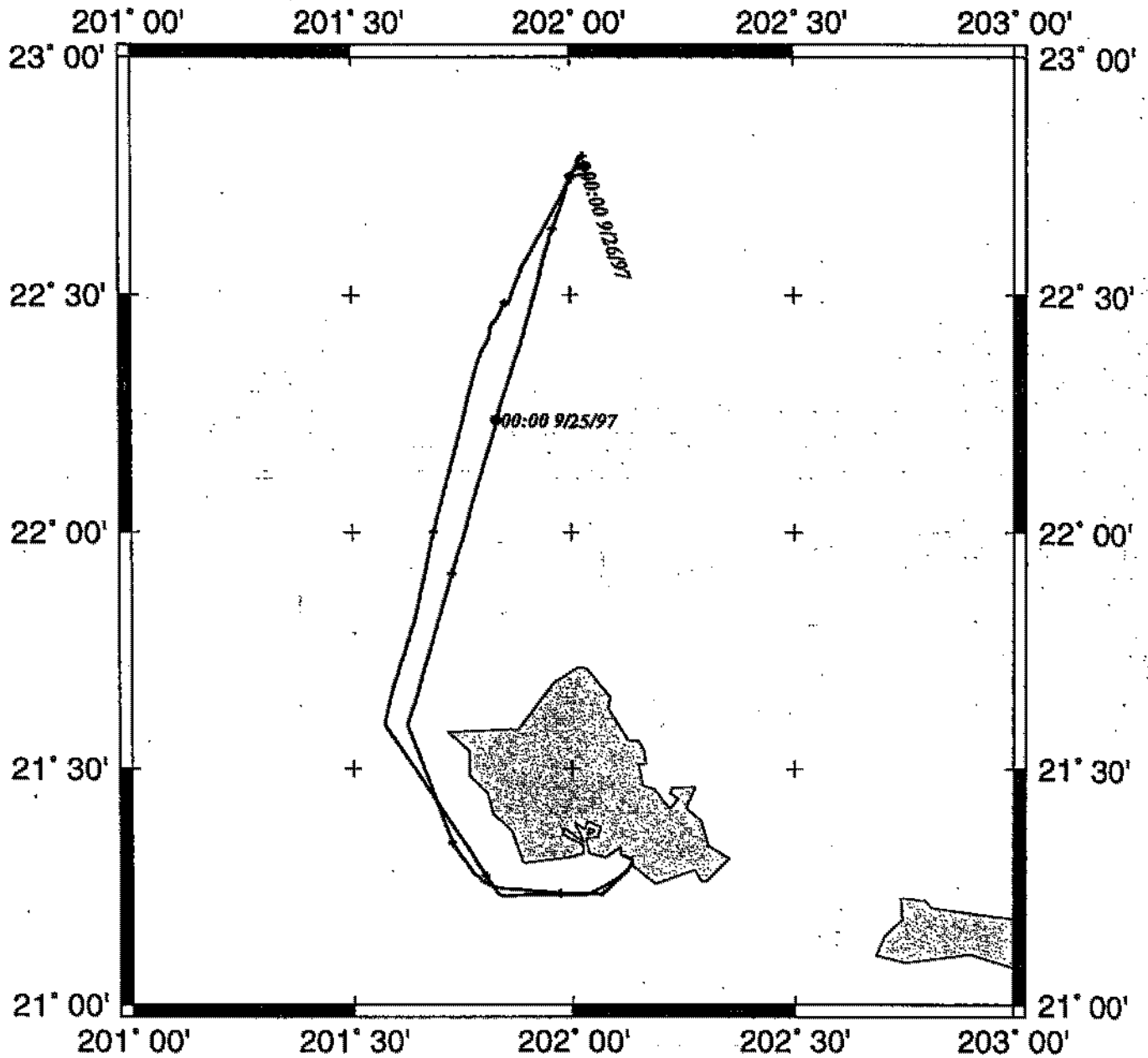
**Bathymetry - 189 miles**

**Seismic Reflection - none collected**

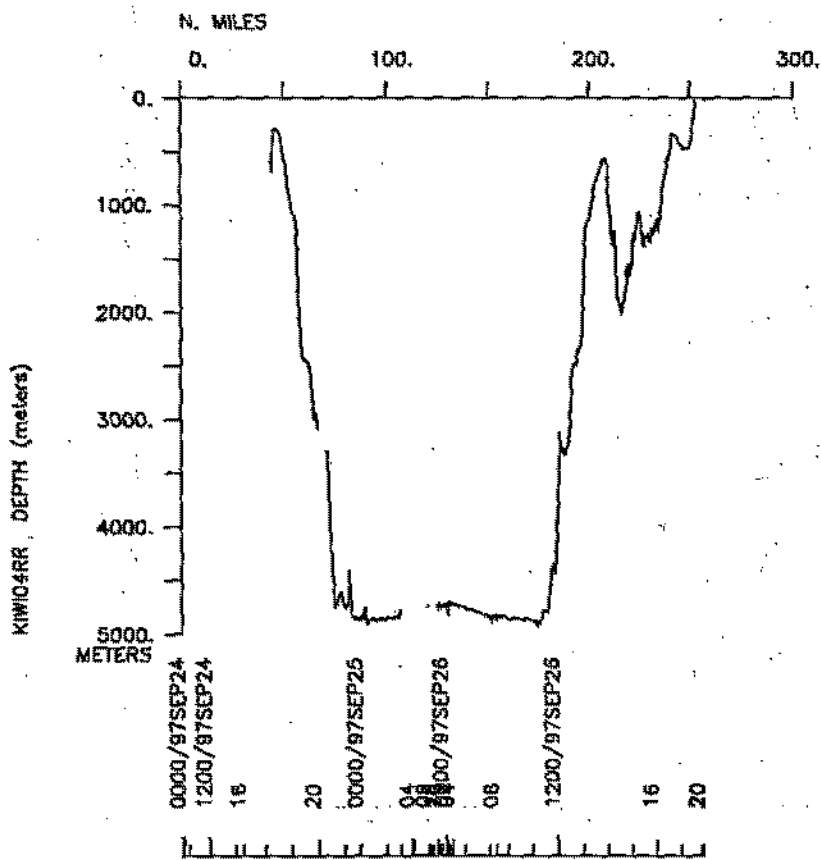
**Sea Beam - 189 miles**

**Gravity - none collected**

# KIWI04RR Track



# ANALYSIS



**S.I.O. SAMPLE INDEX**

**KIWI EXPEDITION**

**LEG 4**

**(KIWI04RR)**

R/V Revelle

(Issued December 1997)

**Ports:**

Honolulu, Hawaii (24 September 1997)

to

Honolulu, Hawaii (26 September 1997)

**Chief Scientist:**

Roger Lukas, University of Hawaii

*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 \*\*\*

1036	240997	LGPT B Honolulu, Hawaii	21-18.00N	157-52.00W	f	KIWI04RR
1800	260997	LGPT E Honolulu, Hawaii	21-18.00N	157-52.00W	f	KIWI04RR

## \*\*\*\* Personnel \*\*\*

#	*****NAME*****	*****TITLE*****	*****AFFILIATION*****	**CRID**
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PESP UHI	Stump, Dr. C.	Scientist	Univ. of Hawaii	KIWI04RR
PESP UHI	Karner, Dr. K.	Scientist	Univ. of Hawaii	KIWI04RR
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PESP UHI	Wright, D.	Technician	Univ. of Hawaii	KIWI04RR
PESP UHI	Santiago-Mandujano, F	Scientist	Univ. of Hawaii	KIWI04RR
PESP STS	DeMoustier, Dr. C.	Scientist	Scripps Institution	KIWI04RR
PERT STS	Comer, R. L.	Resident Tech.	Scripps Institution	KIWI04RR
PECT STS	Charters, J.	Computer Engineer	Scripps Institution	KIWI04RR
PECT STS	Silver, M.	Computer Engineer	Scripps Institution	KIWI04RR
PESP SIX	Staff, A.	Seabeam Consul.	SeaBeam	KIWI04RR
PESP SIX	Clawes, B.	Eng. Consultant	Clewes Tech. Cons.	KIWI04RR
PEST UHI	Robinson, D.	Grad. Student	Univ. of Hawaii	KIWI04RR
PEST UHI	Shackleford, R.	Grad. Student	Univ. of Hawaii	KIWI04RR
PEST UHI	Bazura-Duran, M.	Grad. Student	Univ. of Hawaii	KIWI04RR
PEST UHI	Hochberg, E.	Grad. Student	Univ. of Hawaii	KIWI04RR
PEST UHI	Carillo, C.	Grad. Student	Univ. of Hawaii	KIWI04RR
PEST UHI	Kelly, K.	Grad. Student	Univ. of Hawaii	KIWI04RR
PEST UHI	Liebeler, J.	Grad. Student	Univ. of Hawaii	KIWI04RR
PEST UHI	Scheinberg, R.	Grad. Student	Univ. of Hawaii	KIWI04RR

## \*\*\*\* 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 - S. M. Smith ext. 42752 ***										
*** No Analogue Records Collected on This Leg ***										
*** Sea Beam Data Collected ***										
1816	240997	0	MBSR	B v.beam&sidescan	GDC	21-33.80N	158-21.86W	g		KIWI04RR
1732	250997	0	MBSR	E v.beam&sidescan	GDC	21-16.99N	157-52.74W	g		KIWI04RR
*** Oblique Net Tows ***										
1030	240997	0	ONOB	Oblique Net Tow 150M	UHI	21-18.96N	157-53.17W	g		KIWI04RR
2130	250997	0	ONOB	Oblique Net Tow 150M	UHI	22-45.28N	157-59.69W	g		KIWI04RR
*** Hydrocast ***										
1230	250997	0	HCGF	Go Flow Cast 8	175M	UHI	22-45.16N	157-57.86W	g	KIWI04RR
*** Surface Samples ***										
1700	250997	0	SS14	B Productivity, free	UHI	22-44.92N	157-59.48W	g		KIWI04RR
0330	250997	0	SS14	E drifting at depths	UHI	22-46.42N	157-59.03W	g		KIWI04RR
*** Conductivity, Salinity, Depth ***										
0523	250997	0	TDCT	Sta. 2-1 23	1020	UHI	22-45.00N	158-00.00W	g	KIWI04RR
0827	250997	0	TDCT	Sta. 2-2 21	1020	UHI	22-45.00N	158-00.00W	g	KIWI04RR
1132	250997	0	TDCT	Sta. 2-3 23	1020	UHI	22-45.16N	157-57.85W	g	KIWI04RR
1425	250997	0	TDCT	Sta. 2-4 23	1020	UHI	22-45.16N	157-57.86W	g	KIWI04RR
1840	250997	0	TDCT	Sta. 2-5 13	1030	UHI	22-44.65N	157-59.91W	g	KIWI04RR
2115	250997	0	TDCT	Sta. 2-6 24	1021	UHI	22-45.28N	157-59.69W	g	KIWI04RR
0202	260997	0	TDCT	Sta. 2-7 24	4790	UHI	22-46.42N	157-59.03W	g	KIWI04RR
0724	260997	0	TDCT	Sta. 8-1 14	1020	UHI	22-28.95N	158-08.87W	g	KIWI04RR
#				End Sample Index						KIWI04RR