REPORT AND INDEX OF

UNDERWAY MARINE GEOPHYSICAL DATA

KIWI EXPEDITION

LEG 1

(KIWI01RR)

R/V Revelle

(Issued December 1997)

Ports:

San Diego, California (4 August 1997)

to

San Francisco, California (10 August 1997)

Chief Scientist:

Charles Greene, Cornell University

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

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

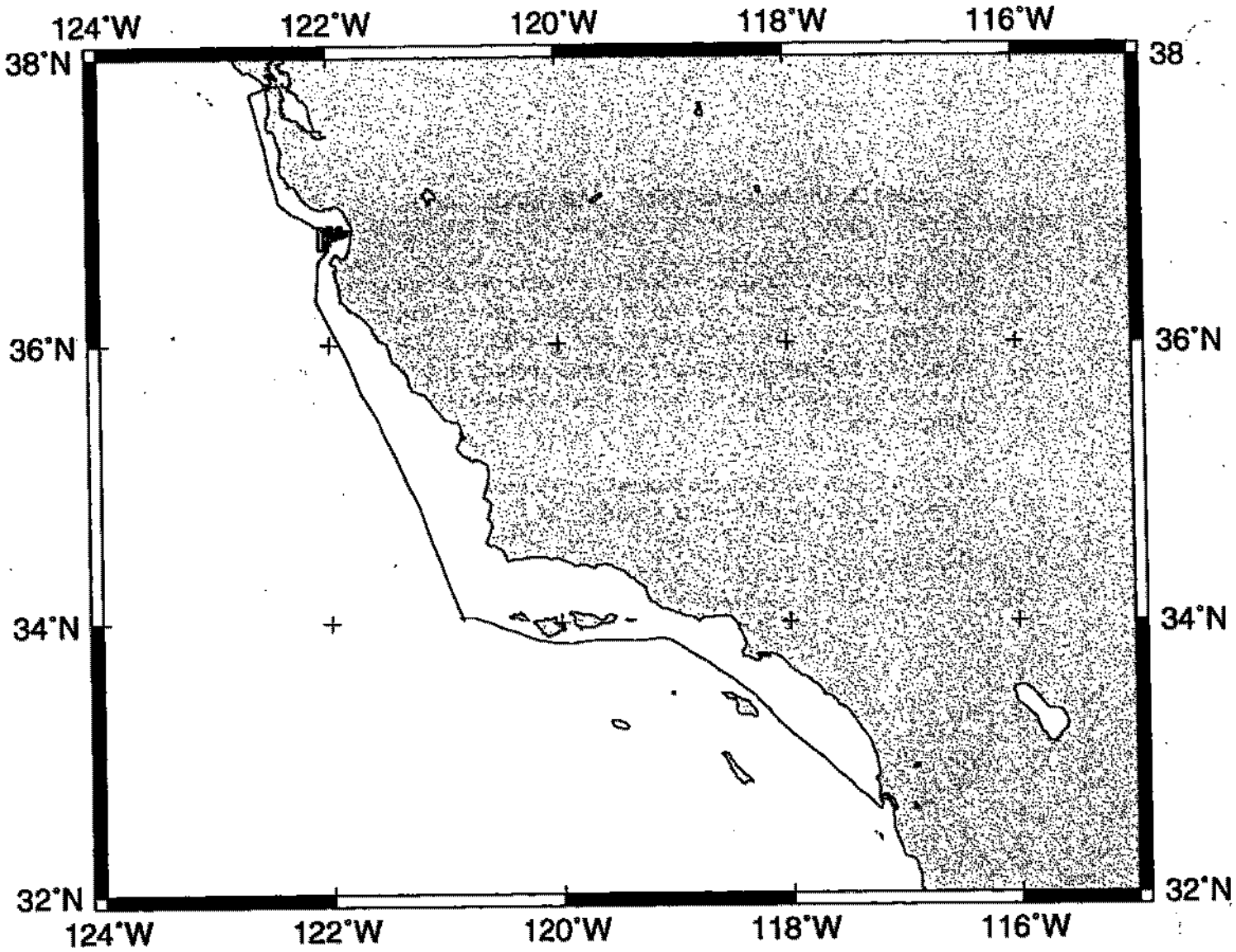
rev10/96

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 1

CHIEF SCIENTIST: Charles Greene, Cornell University

PORTS: San Diego - San Francisco, Calif.

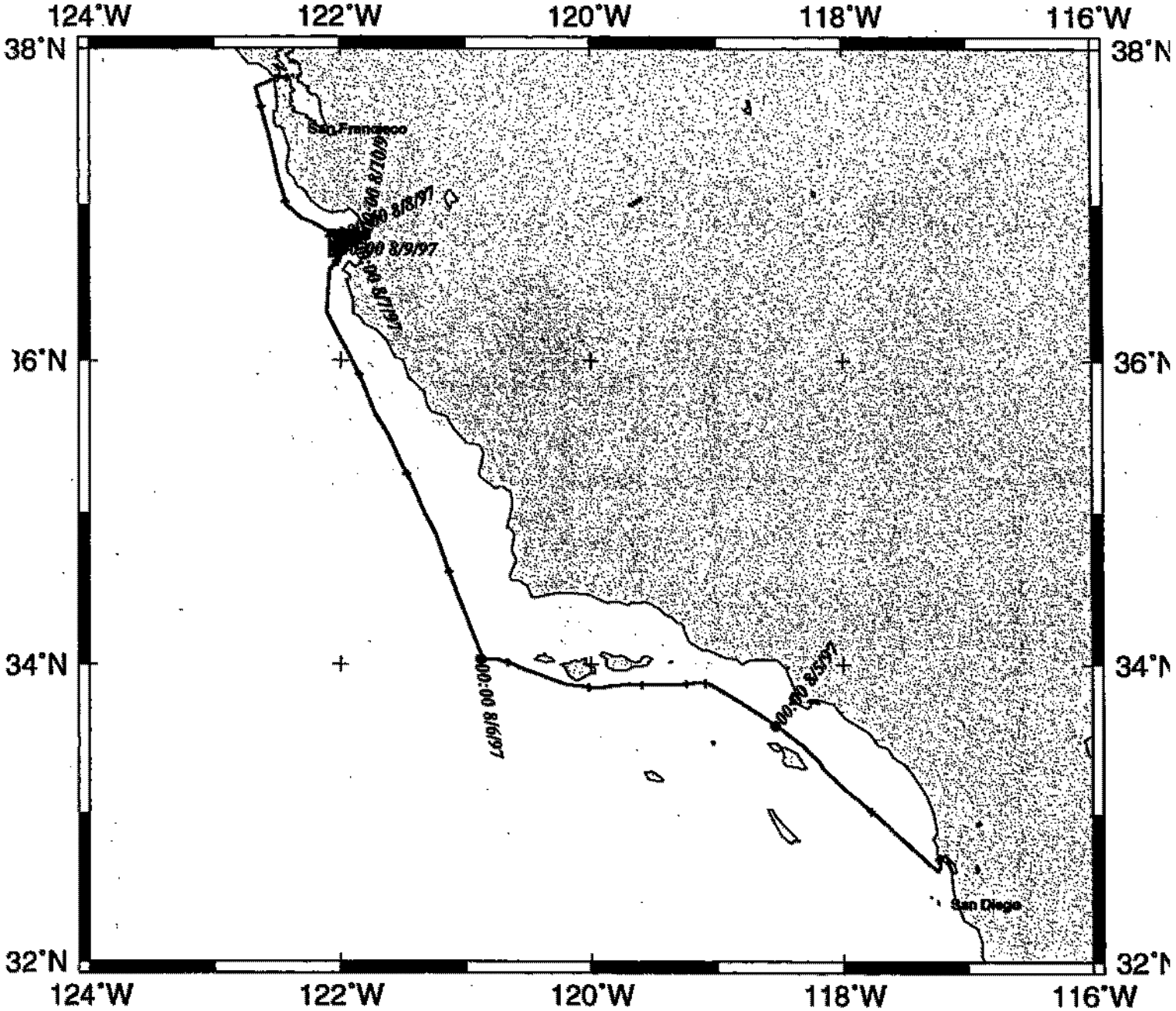
DATES: 4 - 10 August 1997

SHIP: R/V Revelle

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

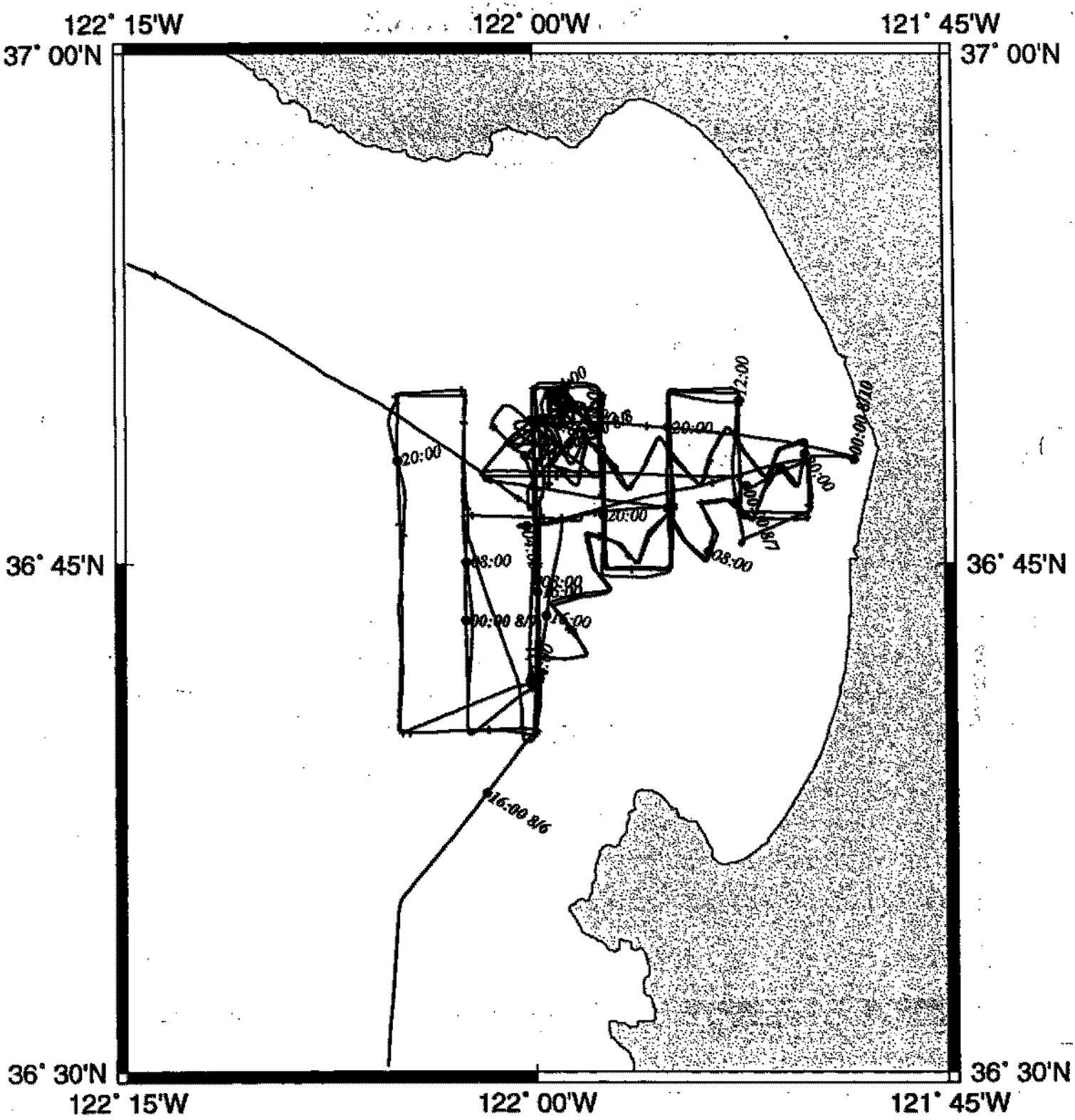
Cruise - 850 miles	**Magnetics - none collected**
Bathymetry - 650 miles	**Seismic Reflection - none collected**
Sea Beam - 650 miles	**Gravity - none collected**

KIWI01RR Track



GMT Oct 13 23:27 :San Diego to San Francisco, Calif., 4-10 August 1997:

KIWI01RR.survey

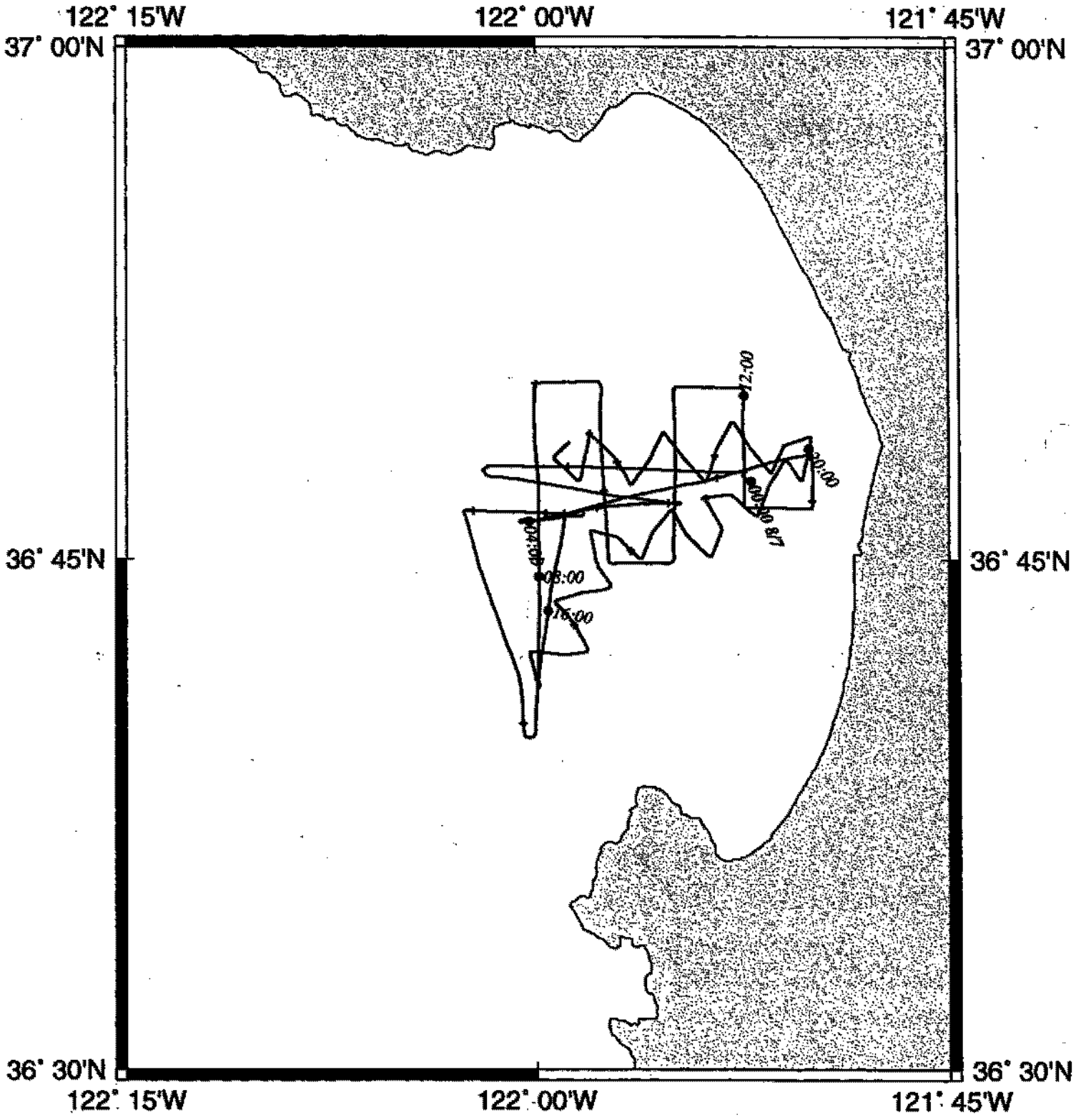


GMT Jan 6 11:18

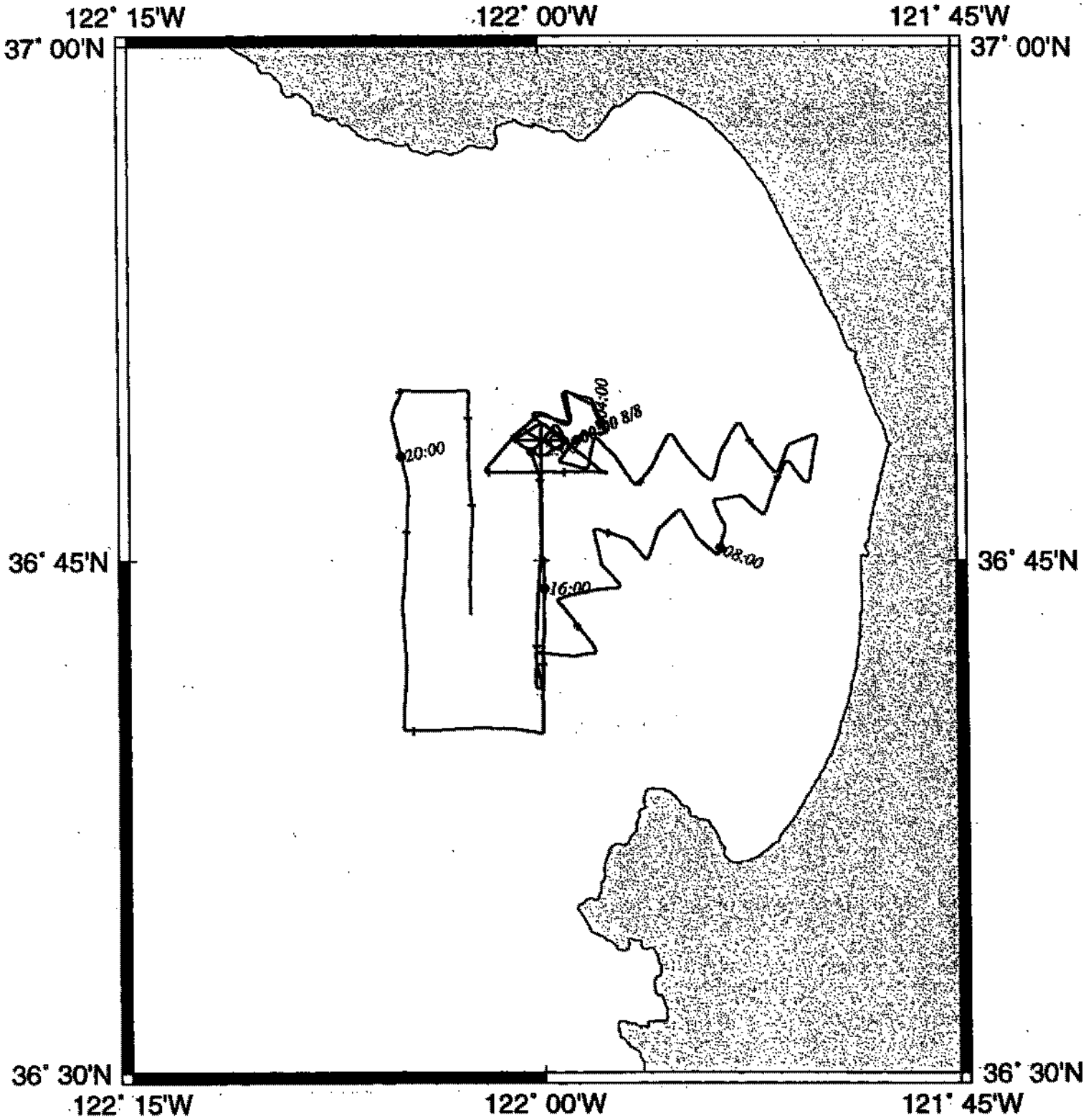
KIWI01RR.Aug.06.survey

GMT Jan 6 11:36

KIWI01RR.Aug.07.survey

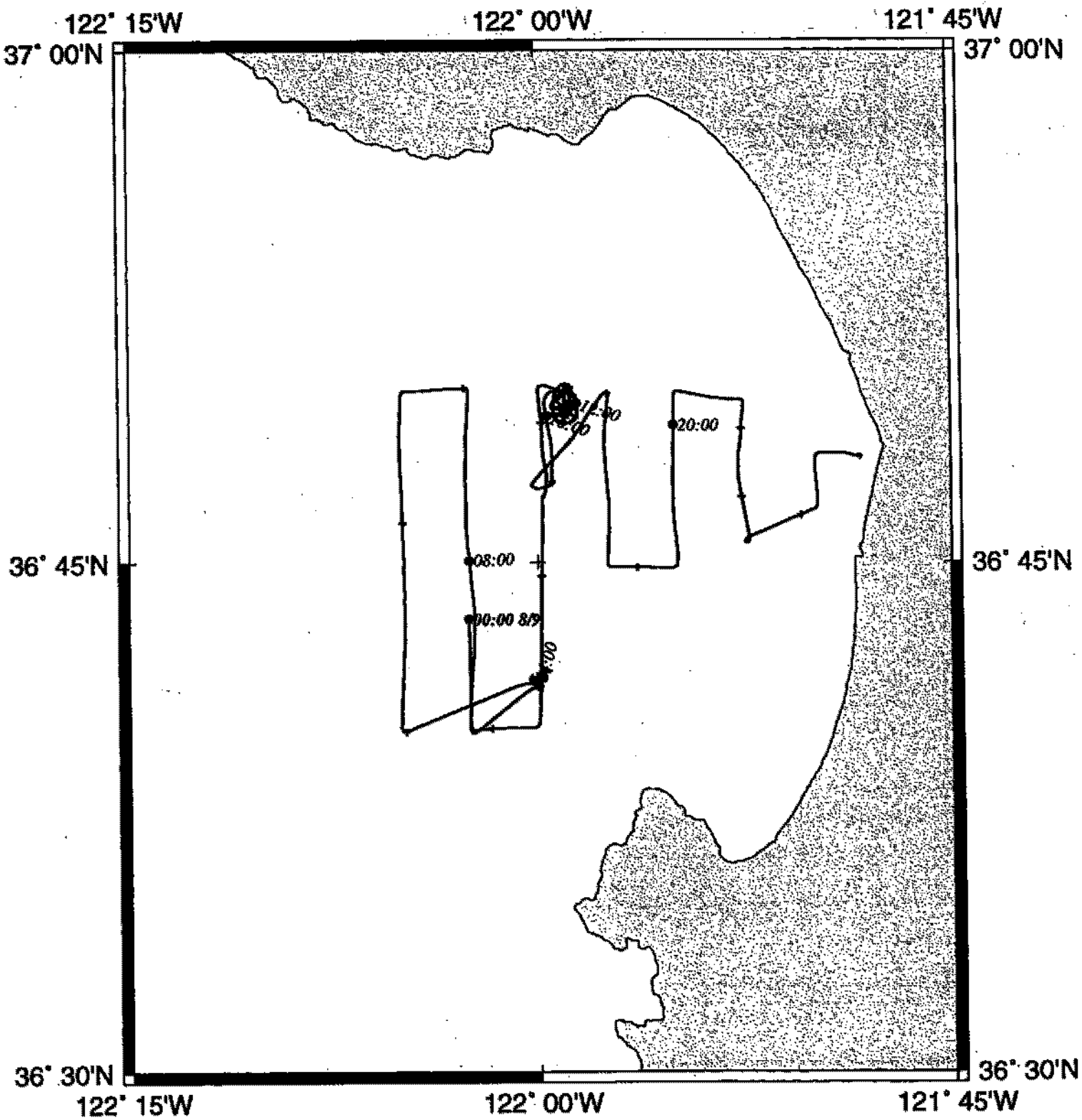


KIWI01RR.Aug.08.survey



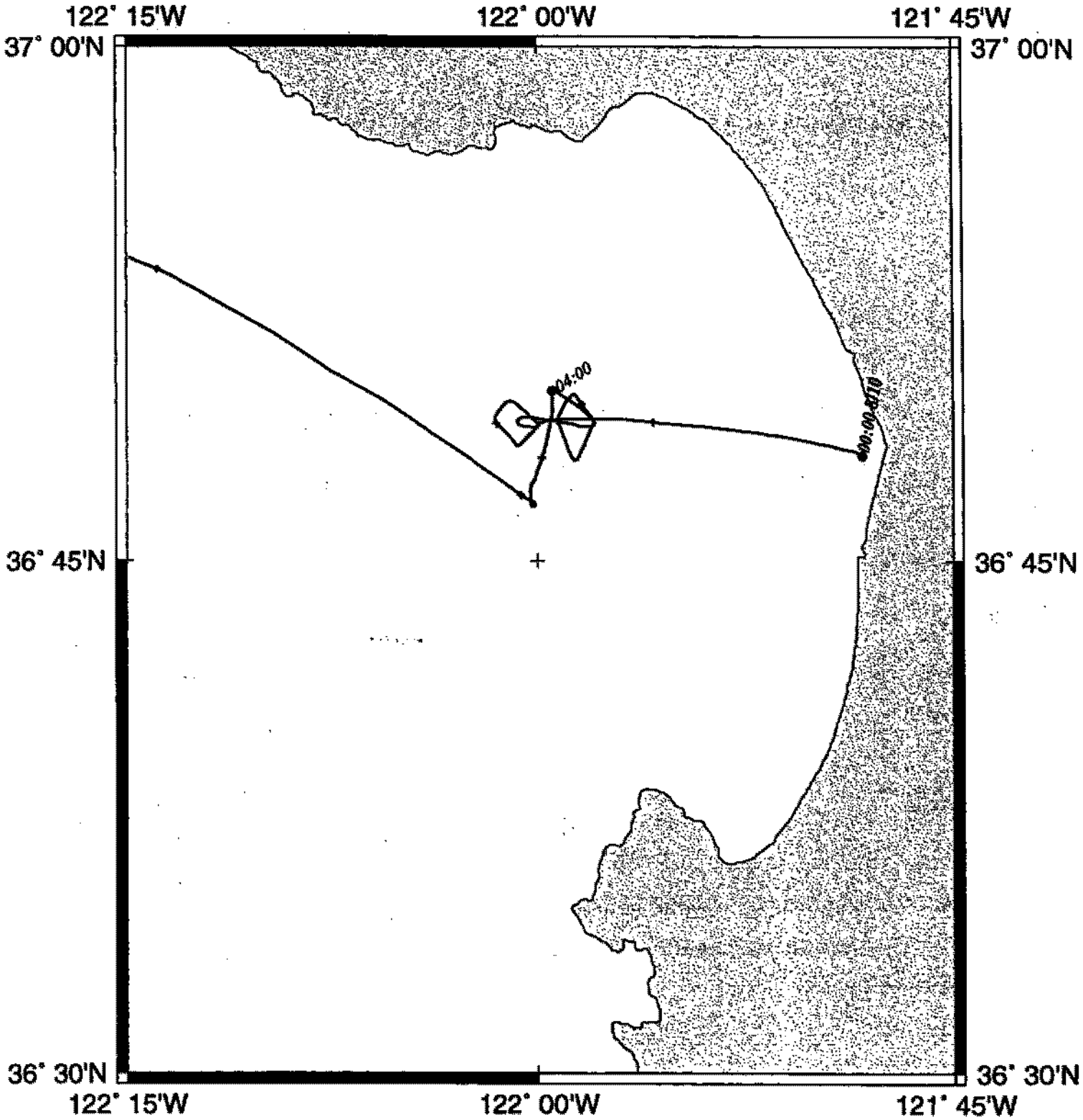
GMT Jan 6 11:12

KIWI01RR.Aug.09.survey

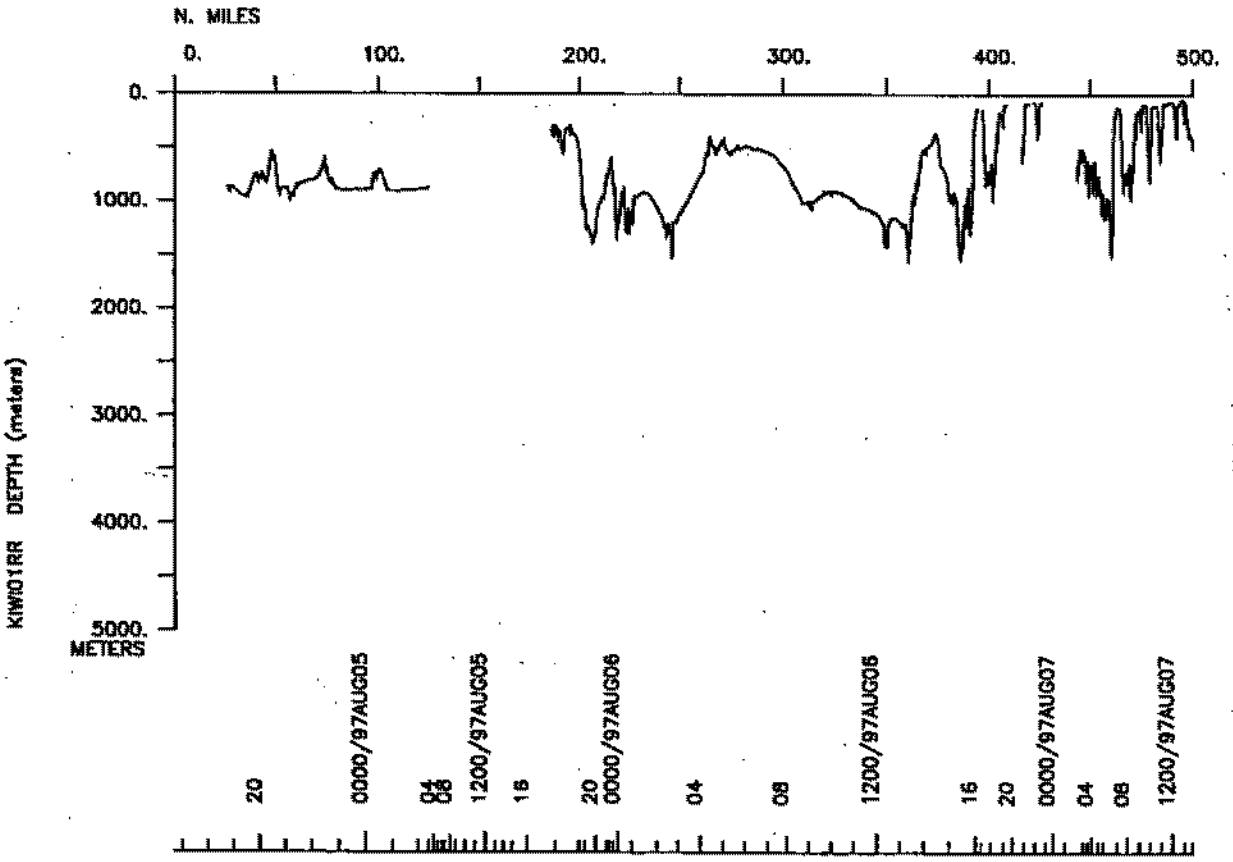


GMT Jan 6 11:12

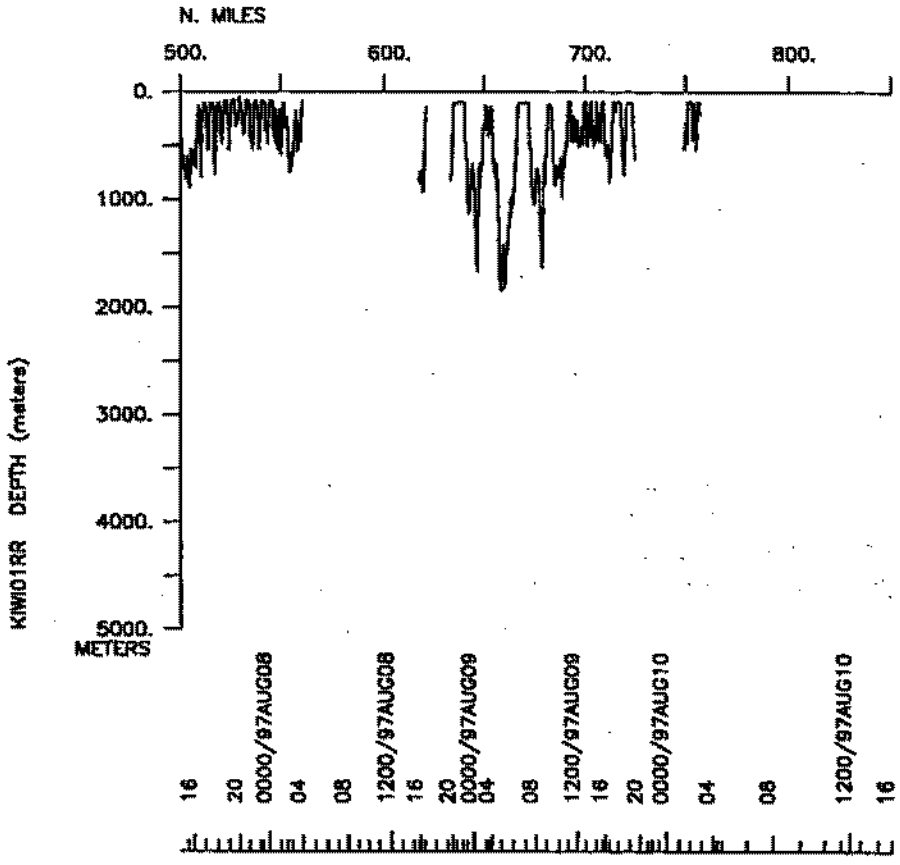
KIWI01RR.Aug.10.survey



GMT Jan 6 11:12


N. MILES
0.
100.
200.
300.
400.
500.
0.
1000.
2000.
3000.
4000.
5000.
METERS
KIWI01RR DEPTH (meters)
20
0000/97AUG05
04
08
1200/97AUG05
16
20
0000/97AUG06
04
08
1200/97AUG06
16
20
0000/97AUG07
04
08
1200/97AUG07

In Monterey Bay from August 7-10. No underway data collected from Monterey Bay to San Francisco.



S.I.O. SAMPLE INDEX

KIWI EXPEDITION

LEG 1

(KIWI01RR)

R/V Revelle

(Issued Decmber 1997)

Ports:

San Diego, California (4 August 1997)
to
San Francisco, California (10 August 1997)

Chief Scientist:
Charles Greene, Cornell University

The Sample Index is a first level interdisiplinary 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 ***

1440 040897  0 LGPT B San Diego, Ca.              32-40.00N 117-14.00W f KIWI01RR
1500 100897  0 LGPT E San Francisco, CA.          37-49.00N 122-25.00W f KIWI01RR


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

PECS CNLU Greene,Dr.C.         Chief Scientist   Cornell Univ.        KIWI01RR
PESP WHOI Wiebe,Dr.P.          Scientist         Woods Hole           KIWI01RR
PESP AUA  Nicol,Dr.S.          Observer          CSIRO Australia      KIWI01RR
PESP AUA  Pauly,Dr.T           Observer          CSIRO Australia      KIWI01RR
PESP AUA  delaMare,Dr.B.       Observer          CSIRO Australia      KIWI01RR
PESP SIX  Benfield,Dr.M        Scientist         Louisianna St. Unv.  KIWI01RR
PESP UCSC Nathalie,Dr.J.       Scientist         U.of CA Santa Cruz   KIWI01RR
PESP UCSC Marinovich,Dr.B.     Scientist         U.of CA Santa Cruz   KIWI01RR
PESP UCSC Mutlu,Dr.E.          Scientist         U.of CA Santa Cruz   KIWI01RR
PERT STS  Comer,R.L.           Resident Tech.    Scripps Institution  KIWI01RR
PECT STS  Charters,J.          Computer Engineer Scripps Institution  KIWI01RR
PESP SIX  Steig,T.             Scientist         Hydro Tech Inc.      KIWI01RR
PEST UCSC Fisher,K.            Grad. Student     U.of CA Santa Cruz   KIWI01RR
PEST UCSC Panigada,S.          Grad. Student     U.of CA Santa Cruz   KIWI01RR
PEST UCSC Warren,J.            Grad. Student     U.of CA Santa Cruz   KIWI01RR
PEST UCSC Seitz,A.             Undergrad. Stud.  U.of CA Santa Cruz   KIWI01RR
PEST SIX  Engor,R.             Grad. Student     Cal. Tech.           KIWI01RR
PEST UCSC Wong,K.              Grad. Student     U.of CA Santa Cruz   KIWI01RR
PEST UCSC Bacle,J.             Grad. Student     U.of CA Santa Cruz   KIWI01RR
PEST UCSC Mottola,J.           Grad. Student     U.of CA Santa Cruz   KIWI01RR
PEST UCSC Brennan,B.           Grad. Student     U.of CA Santa Cruz   KIWI01RR


#*** 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 ***DIGITAL

1844 040897  0 MBSR  B v.beam&sidescan        GDC  32-50.29N 117-32.19W g KIWI01RR
0255 100897  0 MBSR  E v.beam&sidescan        GDC  36-49.21N 121-58.09W g KIWI01RR
```

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

#*** Open Net ***

0508 050897  0 ONMC   1M Mocness 01      M WHOI 33-52.79N 119-08.65W g KIWI01RR

0647 050897  0 ONMC   1M Mocness 02   500M WHOI 33-52.60N 119-11.48W g KIWI01RR

2157 050897  0 ONMC   1M Mocness 03   497M WHOI 34-02.24N 120-48.31W g KIWI01RR

0446 070897  0 ONMC   1M Mocness 04   200M WHOI 36-46.30N 121-58.98W g KIWI01RR

0132 080897  0 ONMC   1M Mocness 05   250M WHOI 36-47.57N 121-57.96W g KIWI01RR

1535 080897  0 ONMC   1M Mocness 06   250M WHOI 36-44.94N 121-59.93W g KIWI01RR

1919 080897  0 ONMC   1M Mocness 07   225M WHOI 36-46.71N 122-04.81W g KIWI01RR

2218 080897  0 ONMC   1M Mocness 08   248M WHOI 36-47.92N 122-02.59W g KIWI01RR

1531 090897  0 ONMC   1M Mocness 09   250M WHOI 36-50.00N 121-59.16W g KIWI01RR

2138 090897  0 ONMC   1M Mocness 10   250M WHOI 36-47.64N 121-52.72W g KIWI01RR

0520 100897  0 ONMC   1M Mocness 11   250M WHOI 36-47.38N 122-00.09W g KIWI01RR

#*** Acoustical Studies (Cornell University) ***

0308 050897  0 ACXX B Fish 120khz & 200KHz CNLU 33-52.06N 119-03.22W g KIWI01RR
0604 050897  0 ACXX E Run  1                CNLU 33-52.69N 119-10.75W g KIWI01RR

0648 050897  0 ACXX B Fish 120khz & 200khz CNLU 33-52.60N 119-11.52W g KIWI01RR
1531 050897  0 ACXX E Run  2                CNLU 33-50.71N 119-55.16W g KIWI01RR

1810 050897  0 ACXX B Fish 120khz & 200khz CNLU 33-57.72N 120-31.02W g KIWI01RR
1829 050897  0 ACXX E Run  3                CNLU 33-58.37N 120-33.05W g KIWI01RR

1855 050897  0 ACXX B Fish 120khz & 200khz CNLU 33-58.45N 120-33.81W g KIWI01RR
2100 050897  0 ACXX E Run  4                CNLU 34-02.27N 120-46.23W g KIWI01RR

2159 050897  0 ACXX B Fish 120khz & 200khz CNLU 34-02.24N 120-48.38W g KIWI01RR
2332 050897  0 ACXX E Run  5                CNLU 34-02.18N 120-52.32W g KIWI01RR

1712 060897  0 ACXX B Fish 120khz & 200khz CNLU 36-40.59N 121-59.88W g KIWI01RR
2335 060897  0 ACXX E Run  6                CNLU 36-47.85N 121-50.58W g KIWI01RR

0152 070897  0 ACXX B Fish 120khz & 200khz CNLU 36-46.66N 121-54.87W g KIWI01RR
2212 070897  0 ACXX E Run  7                CNLU 36-48.61N 121-57.98W g KIWI01RR

2321 070897  0 ACXX B Fish 120khz & 200khz CNLU 36-48.68N 121-58.07W g KIWI01RR
2055 080897  0 ACXX E Run  8                CNLU 36-49.91N 122-05.11W g KIWI01RR

2125 080897  0 ACXX B Fish 120khz & 200khz CNLU 36-49.91N 122-05.12W g KIWI01RR
0204 090897  0 ACXX E Run  9                CNLU 36-41.82N 121-59.85W g KIWI01RR

0420 090897  0 ACXX B Fish 120khz & 200khz CNLU 36-41.42N 122-00.43W g KIWI01RR
2322 090897  0 ACXX E Run 10                CNLU 36-48.09N 121-49.92W g KIWI01RR

0130 100897  0 ACXX B Fish 120khz & 200khz CNLU 36-48.84N 122-00.10W g KIWI01RR
0530 100897  0 ACXX E Run 11                CNLU 36-47.11N 122-00.25W g KIWI01RR

#                          End Sample Index                            KIWI01RR
```