

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

KIWI EXPEDITION

LEG 9

(KIWI09RR)

R/V Revelle

(Issued August 1998)

Ports:

Lyttelton, New Zealand (13 February 1998)

to

Lyttelton, New Zealand (19 March 1998)

Chief Scientist:

Wilford Gardner, Texas A&M University
email:wgardner@tamu.edu

Tammy Koonce, Resident Marine Technician
Marc Silver, Computer Technician

Post-Cruise Processing and Report Preparation by the
Geological Data Center, Scripps Institution of Oceanography
La Jolla, California 92093-0223
GDC email:gdcinfo@gdcmp1.ucsf.edu

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.

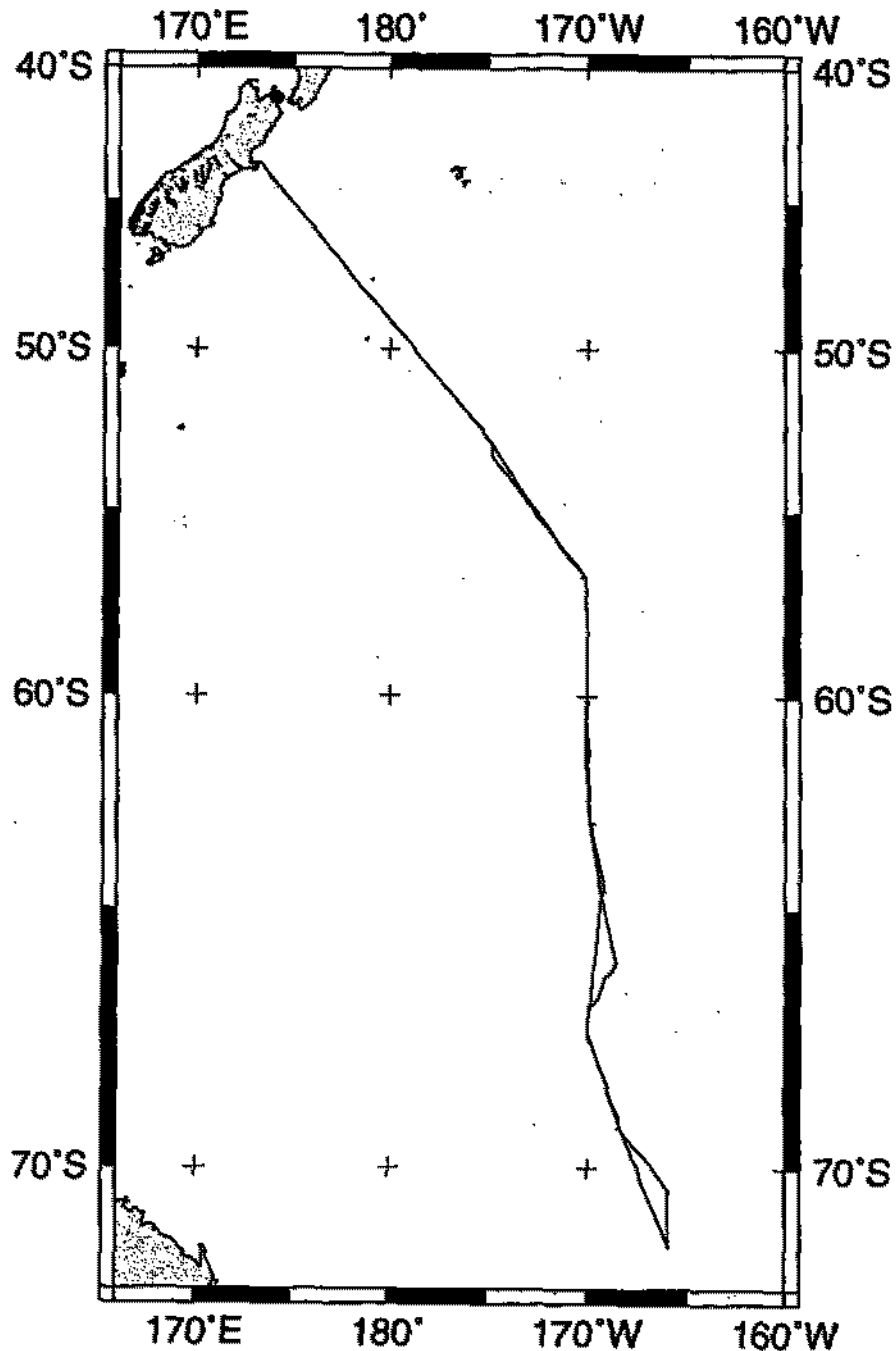
Track Charts - annotated with dates and hour ticks.

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 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 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 via ftp or on 8mm (Exabyte) and 4mm (DAT) magnetic tape:
 - 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 (35 mm flowfilm) or hard copies of:
 - a) Underway watch log book.
 - b) SeaBeam vertical beam profile/Sidescan records.
 - c) 3.5 kHz and 12 kHz echosounder records.
 - d) Seismic reflection profiler records.
3. Navigation listing with times and positions of fixes and course and speed changes.
4. Custom plots in Mercator projection:
 - a) Track plots.
 - b) SeaBeam depth contour plots.
 - c) Depth, magnetic or gravity values printed or profiled along track.



KIWI EXPEDITION LEG 09

CHIEF SCIENTIST: Wilford Gardner, Texas A&M University

PORTS: Lyttelton - Lyttelton, New Zealand

DATES: 13 February - 19 March 1998

SHIP: R/V Revelle

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

Cruise - 4052 miles

Magnetics - none collected

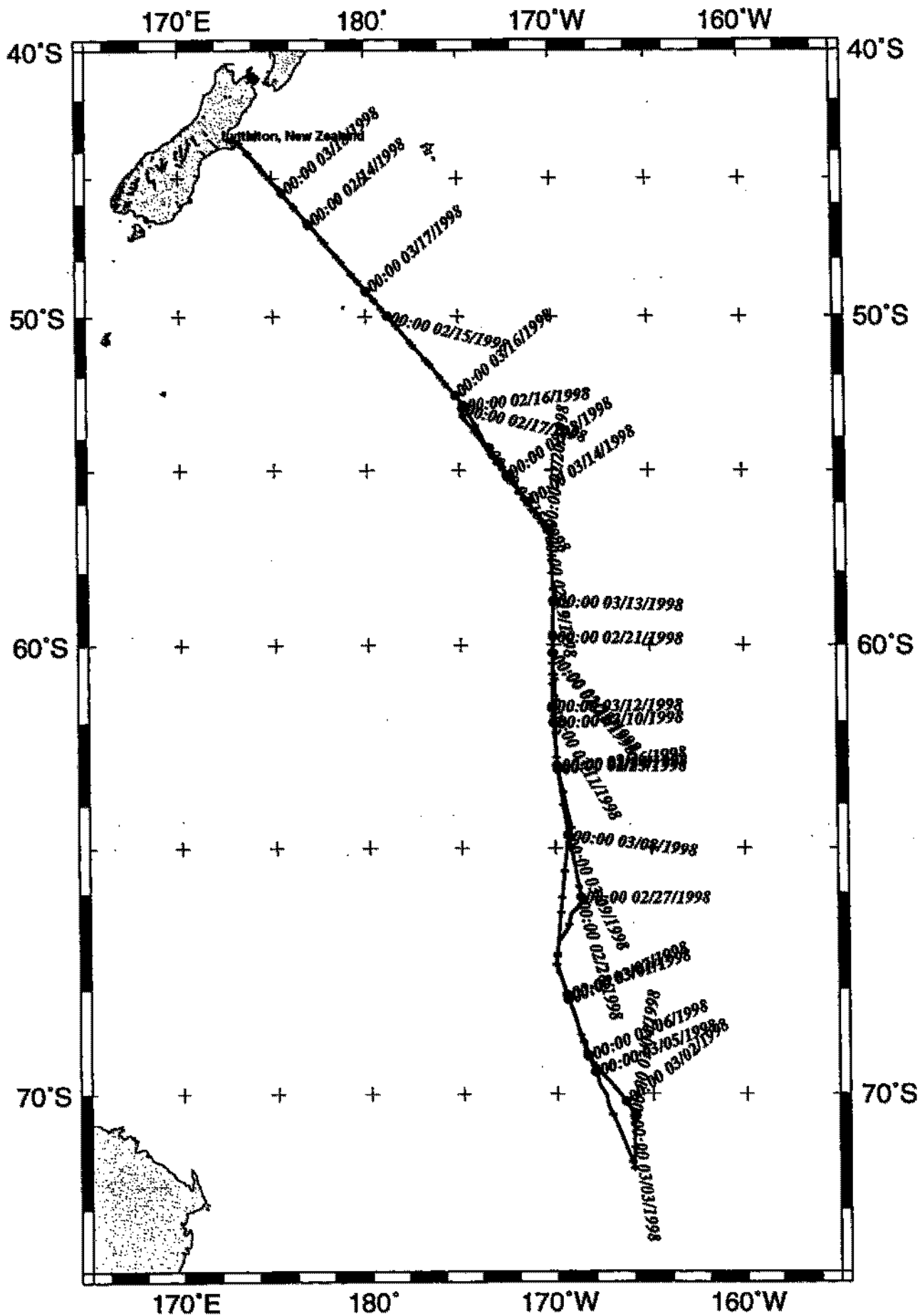
Bathymetry - 605 miles

Seismic Reflection - none collected

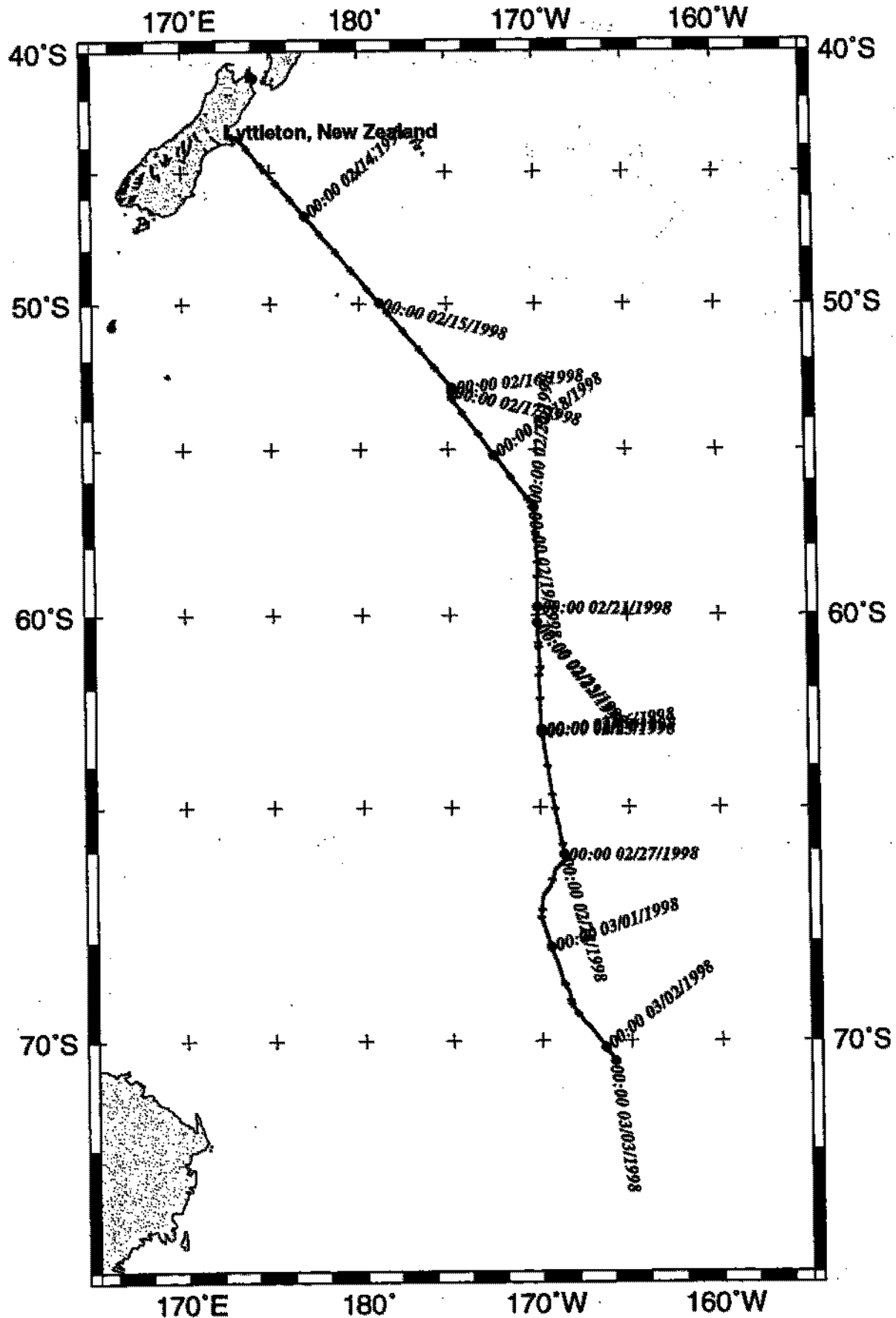
Sea Beam - 605 miles

Gravity - none collected

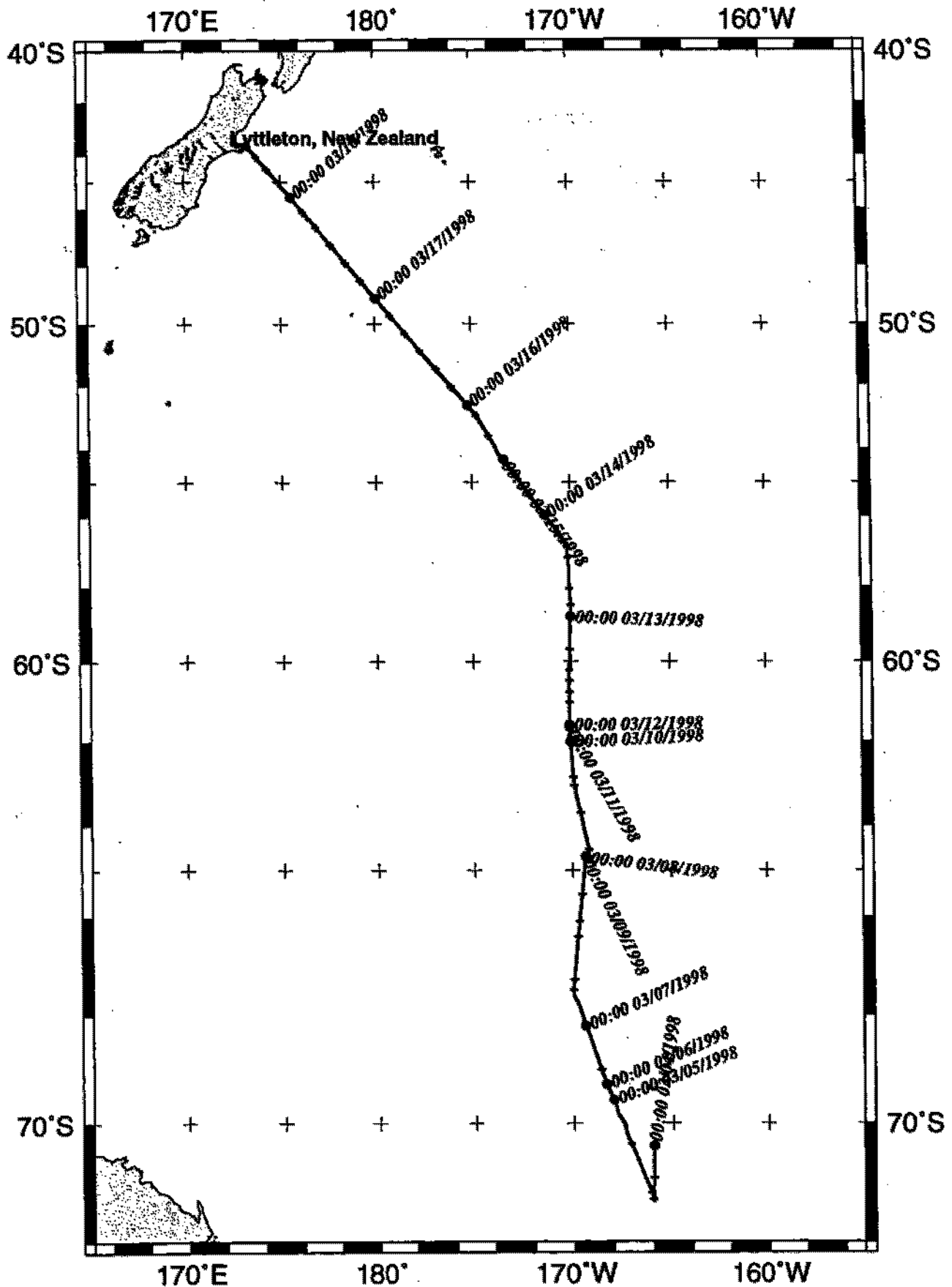
KIWI09RR Track

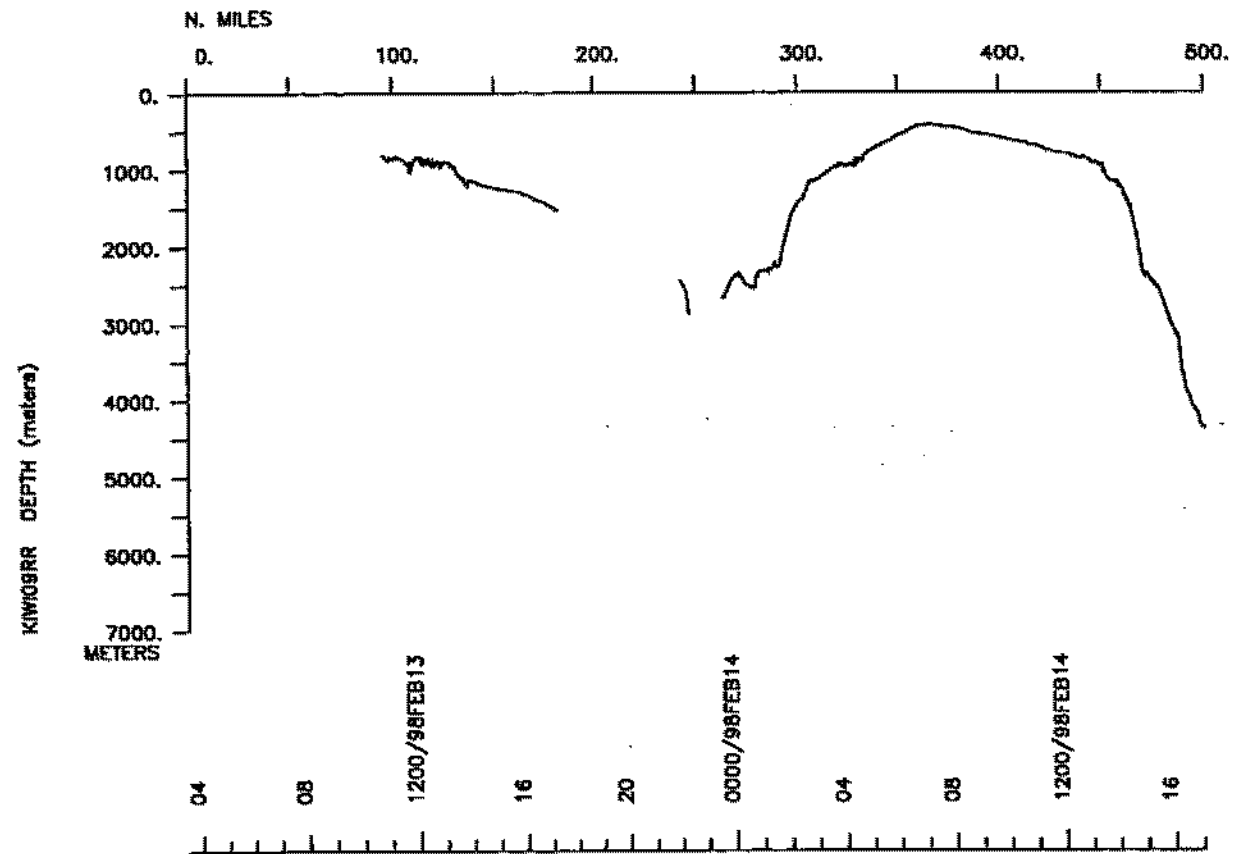
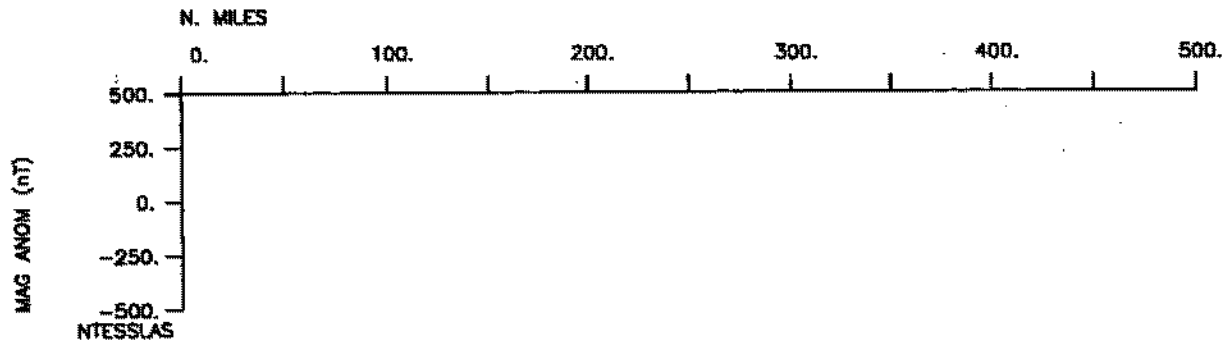
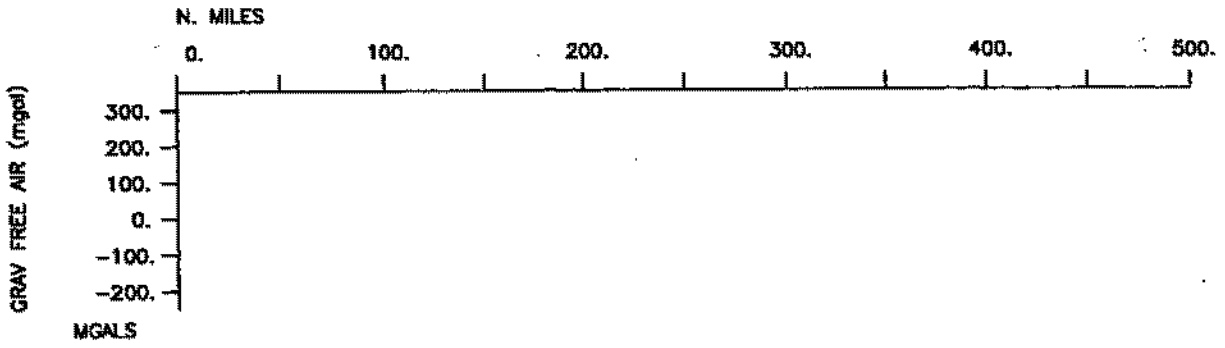


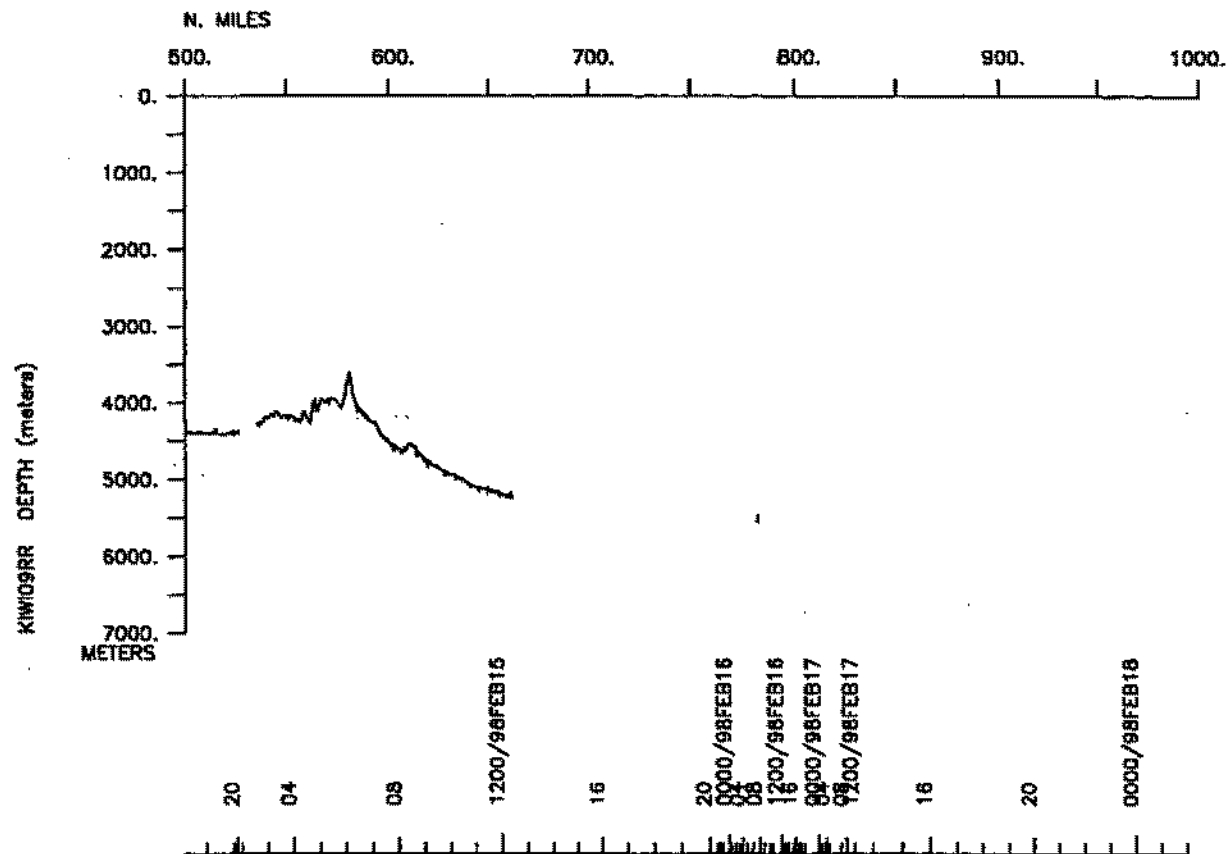
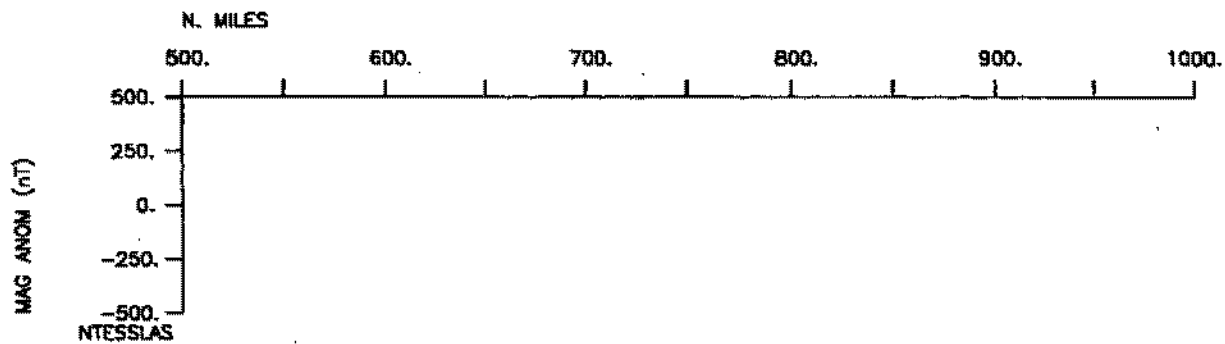
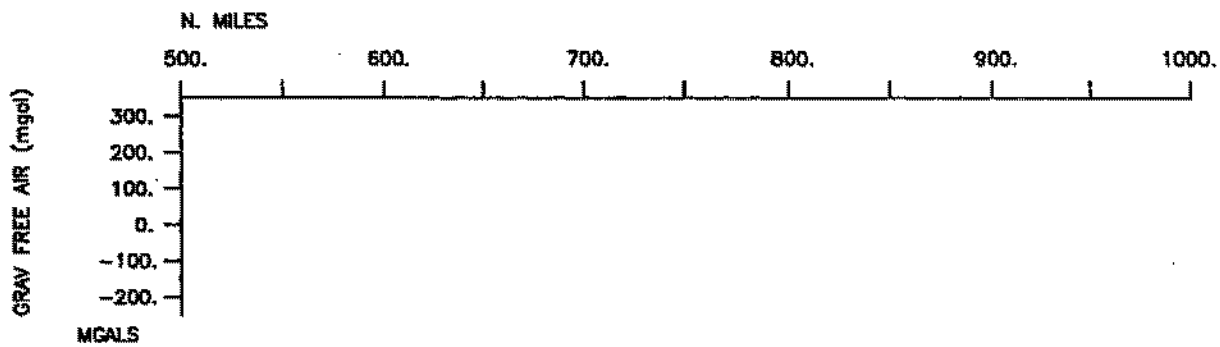
KIWI09RR Begin Track

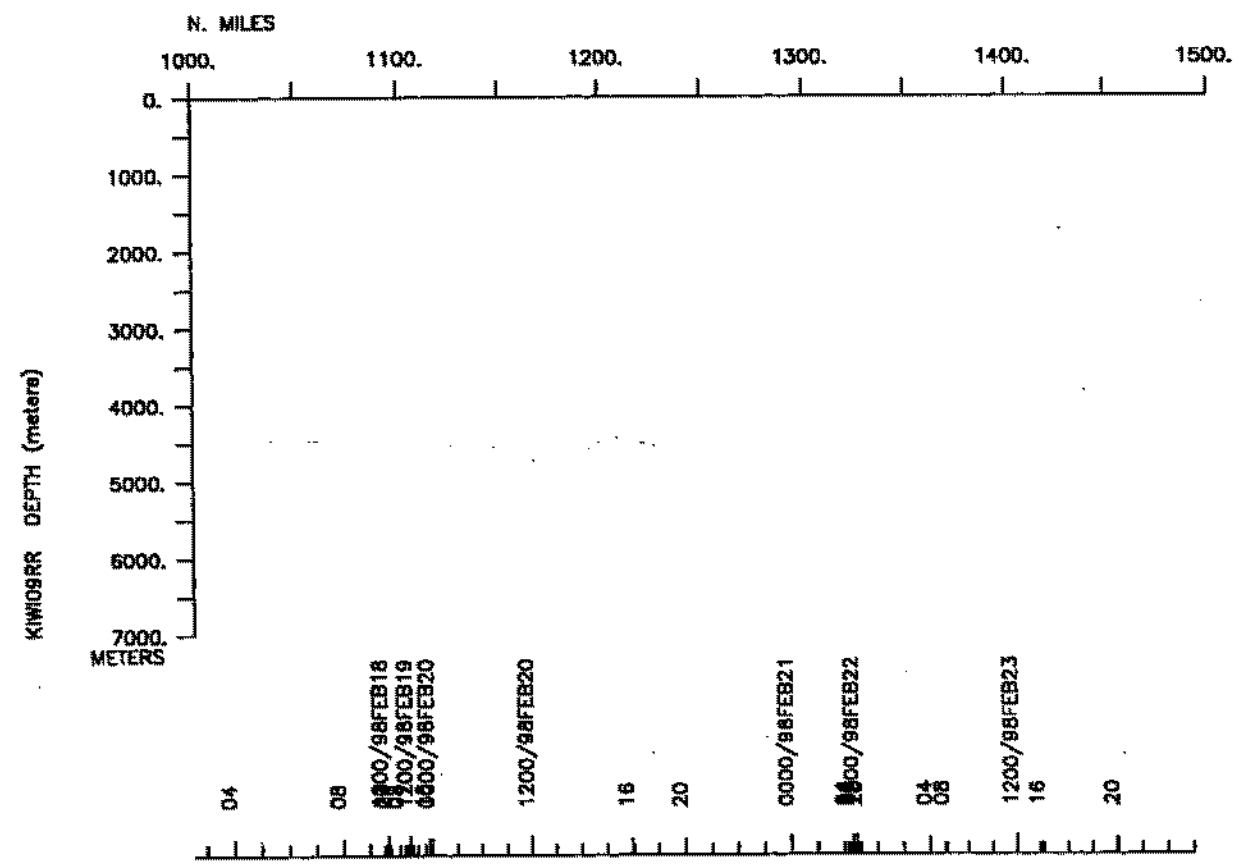
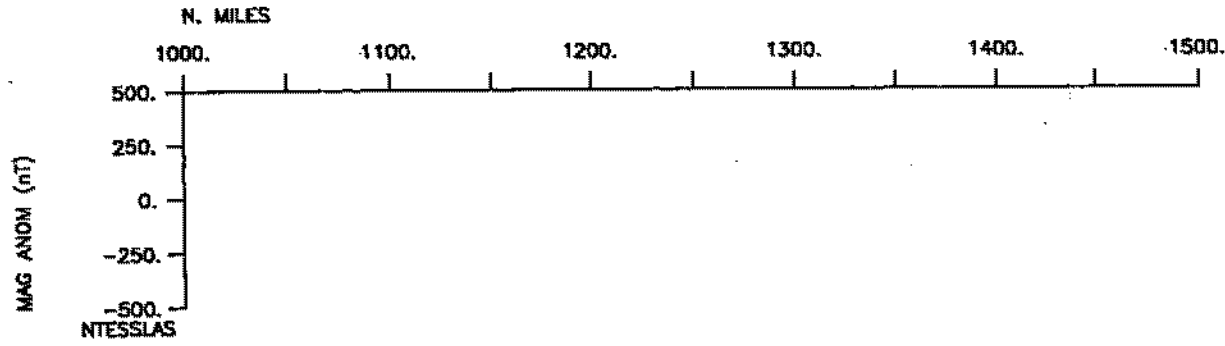
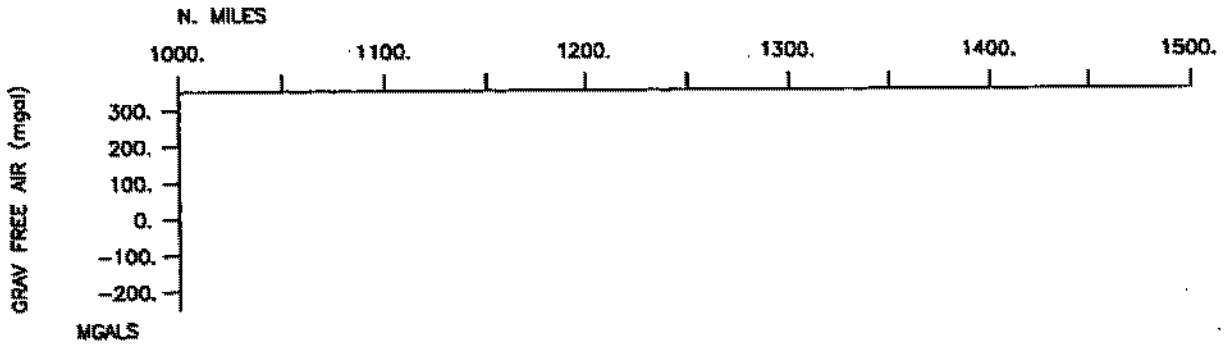


KIWI09RR End Track

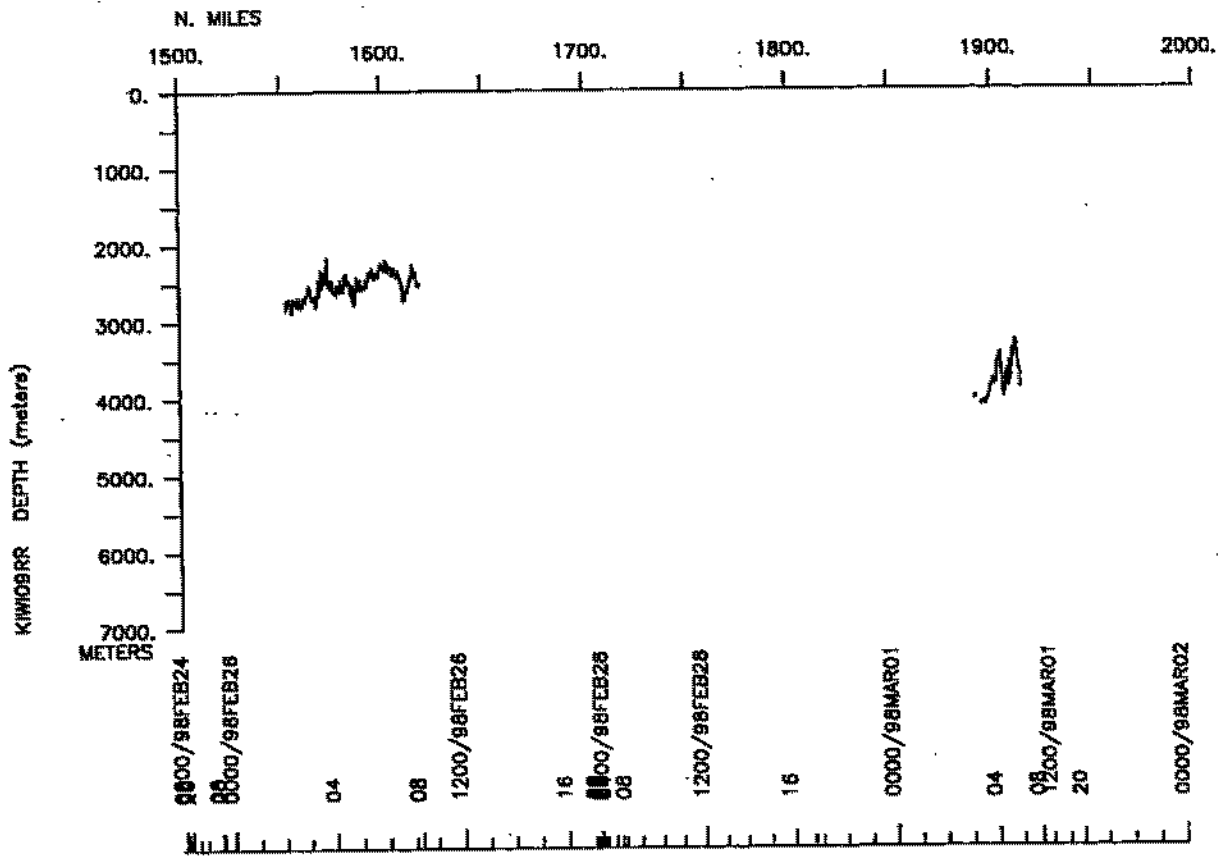
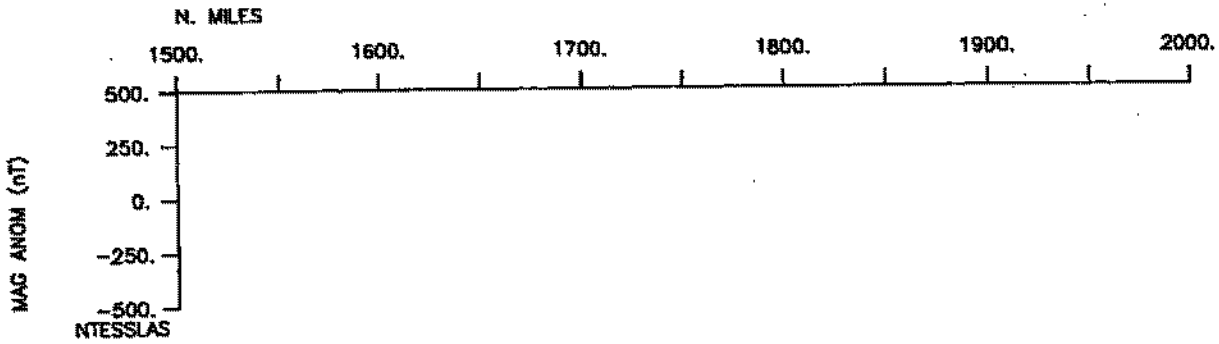
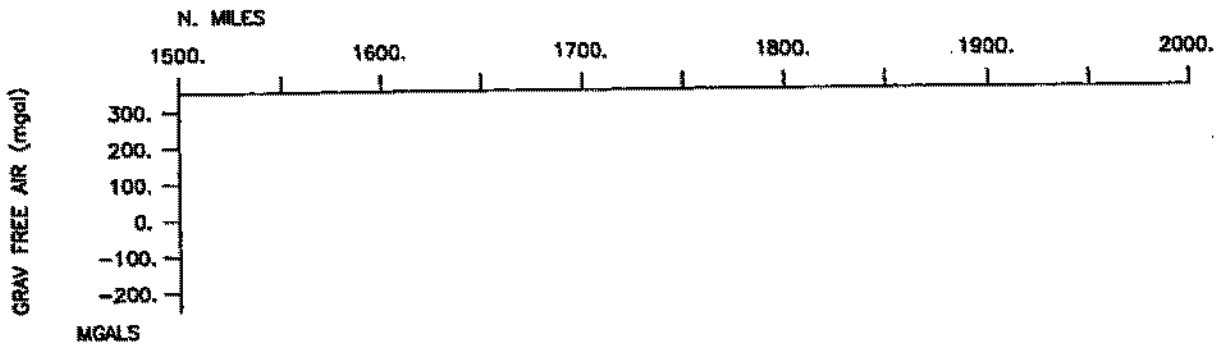


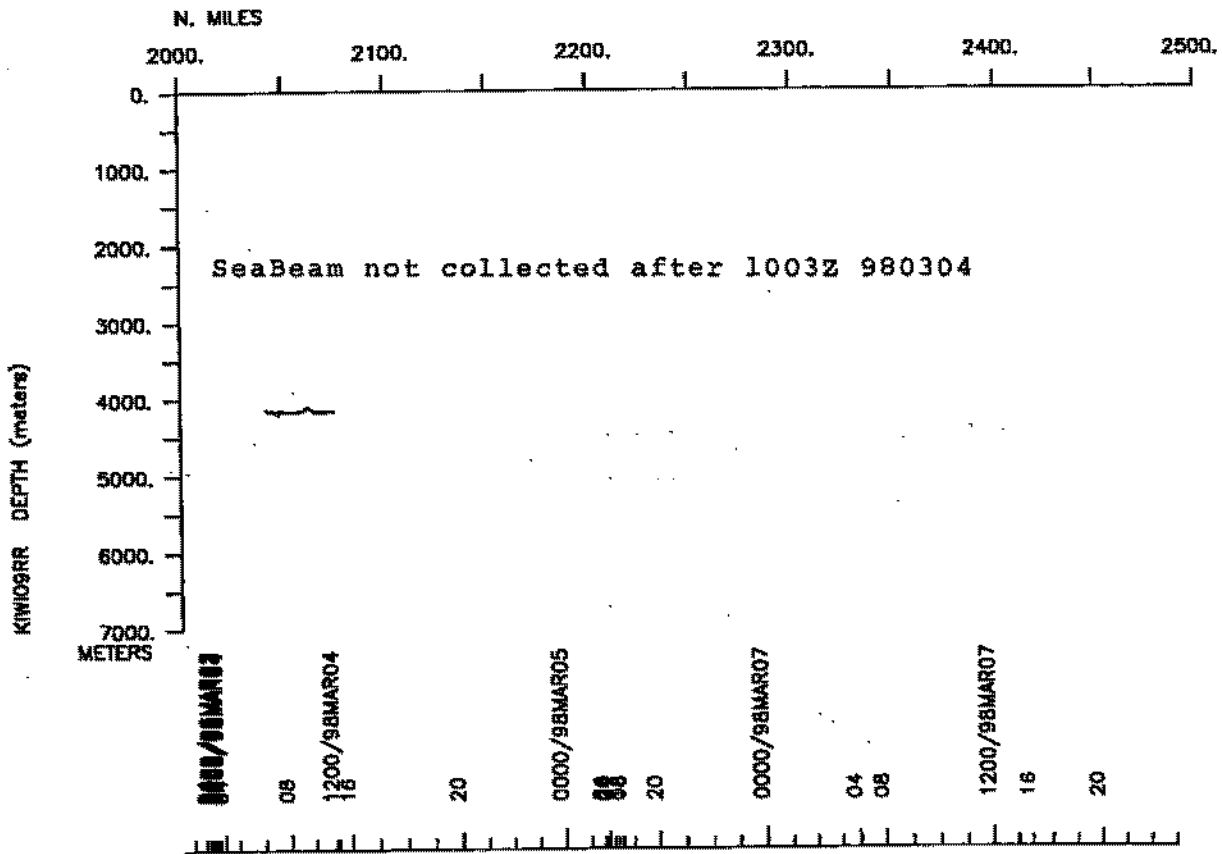
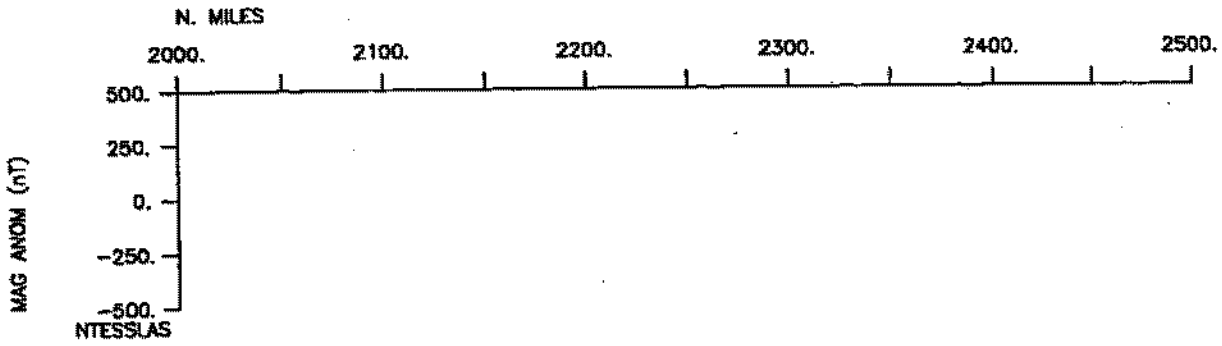
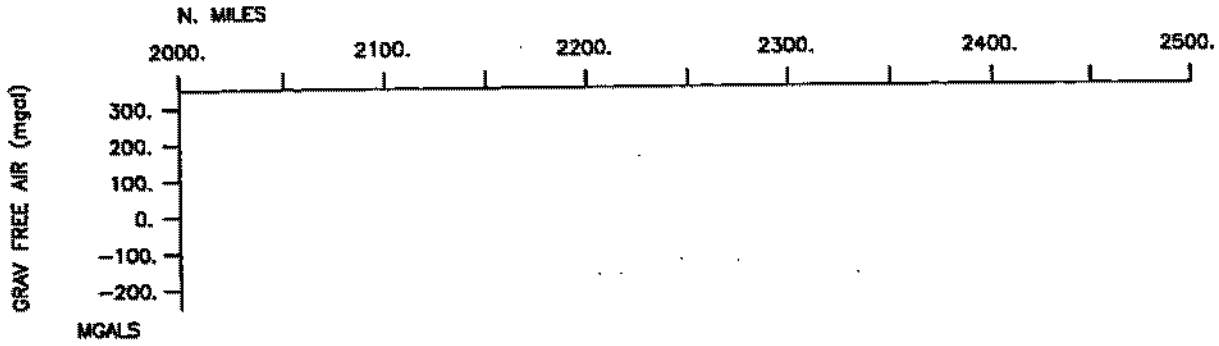






04
08
0000/98FEB18
0000/98FEB19
0000/98FEB20
1200/98FEB20
16
20
0000/98FEB21
0000/98FEB22
04
08
1200/98FEB23
16
20





S.I.O. SAMPLE INDEX

KIWI EXPEDITION

LEG 9

(KIWI09RA)

R/V Revelle

(Issued August 1998)

Ports:

Lyttelton, New Zealand (13 February 1998)

to

Lyttelton, New Zealand (19 March 1998)

Chief Scientist:

Wilford Gardner, Woods Hole

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 ***

```

0300 130298   LGPT B Lyttelton, N.Z.   GDC 43-36.00S 172-43.00E f KIWI09RR
2000 180398   LGPT E Lyttelton, N.Z.   GDC 43-36.00S 172-43.00E f KIWI09RR

```

**** Personnel ***

```

# *****NAME***** *****TITLE***** *****AFFILIATION***** **CRID**
#-----
PECS TAMU Gardner, W.      Chief Scientist      Texas A&M Univ.      KIWI09RR
PESP UHI Measures, C.     Scientist            University of Hawaii  KIWI09RR
PEST UHI Selph, K.       Grad Student         U. of Rhode Island  KIWI09RR
PESP OSU Nelson, D.      Scientist            Oregon State Univ.   KIWI09RR
PESP LDEO Marra, J.      Scientist            Lamont-Doherty       KIWI09RR
PESP WHOI Sosik, H.     Scientist            Woods Hole            KIWI09RR
PESP URI Dickson, M.    Scientist            U. of Rhode Island  KIWI09RR
PESP SIO Reynolds, R.   Scientist            Scripps Institution  KIWI09RR
PESP SIO Wieland        Technician           Scripps Institution  KIWI09RR
PESP WHOI Olson, R.     Scientist            Woods Hole            KIWI09RR
PEXN SIX Rossini, P.    Scientist            Inst Marine Geo ITAL KIWI09RR
PESP LDEO Anderson, H.  Scientist            Lamont-Doherty       KIWI09RR
PESP LDEO Breger, L.    Scientist            Lamont-Doherty       KIWI09RR
PESP SIX Hiscock, M.    Technician           Duke University       KIWI09RR
PESP SIX Masserini, R.  Technician           Univ. of So. Florida  KIWI09RR
PESP SIX Castle, D.     Technician           Univ. of Delaware    KIWI09RR
PESP LDEO Mace, B.      Technician           Lamont-Doherty       KIWI09RR
PESP WHOI Crossin, G.   Technician           Woods Hole            KIWI09RR
PESP WHOI Andrews, J.  Technician           Woods Hole            KIWI09RR
PESP SIX Peterson, J.  Scientist            LUMCON                KIWI09RR
PESP TAMU Gundersen, J. Technician           Texas A&M Univ.       KIWI09RR
PESP SIX Cook, M.       Technician           No. Carolina State   KIWI09RR
PESP TAMU Quiroz, E.    Technician           Texas A&M Univ.       KIWI09RR
PESP LDEO Rubin, S.     Scientist            Lamont-Doherty       KIWI09RR
PESP OSU Arrington, J. Technician           Oregon State Univ.   KIWI09RR
PEXN TAMU Searson, S.   Technician           Texas A&M Univ.       KIWI09RR
PESP URI Orchardo, J.  Scientist            U. of Rhode Island  KIWI09RR
PECT SCG Silver, M.     Computer Tech       Scripps Institution  KIWI09RR
PEMT ODF Hiller, S.    Electronics tech   Scripps Institution  KIWI09RR
PEMT ODF Williams, B.  Odf Tech           Scripps Institution  KIWI09RR
PESP UHI Nolla, H.     Technician           University of Hawaii  KIWI09RR
PESP TAMU Guffy, D.    Nutrient Tech       Texas A&M Univ.       KIWI09RR
PESP SIX Urban-rch, J.  Scientist            LUMCON                KIWI09RR
PESP SIX Quinby, H.    Scientist            VA Inst. of Mar.Sci. KIWI09RR
PESP SIX White, A.     Technician           Univ. of Tennessee  KIWI09RR
PESP UWA Krogsland, K. Nutrient Tech       Univ. of Washington  KIWI09RR
PERT STS Koonce, T.    Resident Tech       Scripps Institution  KIWI09RR

```

**** 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 ***										
**** Log Books ****										
1958	140298		LBSC	B Hydro data log(NCS)	SIX	49-59.19S	178-49.56W	g		KIWI09RR
2132	150398		LBSC	E Hydro data log(NCS)	SIX	52-58.09S	174-43.62W	g		KIWI09RR
**** SeaBeam (vertical beam & sidescan) No analog records ****										
0300	130298	0	MBSR	B vbeam&sscan	GDC	43-36.40S	172-43.18E	g		KIWI09RR
2000	180398	0	MBSR	E vbeam&sscan	GDC	43-36.37S	172-43.21E	g		KIWI09RR
**** Echo Sounder Records ****										
0300	130298	0	DPRT	B 12khz depth rec-01	GDC	43-36.40S	172-43.18E	g		KIWI09RR
2000	180398	0	DPRT	E 12khz depth rec-01	GDC	43-36.37S	172-43.21E	g		KIWI09RR
**** Continuous Surface Water Sample ****										
**** Sample split between ODF (SIO) & University of Washington ****										
0300	130298	0	CSXX	B Underway water samp	UWA	43-36.40S	172-43.18E	g		KIWI09RR
0200	170398	0	CSXX	E TSONI P	UWA	48-50.07S	179-39.43E	g		KIWI09RR
**** Acoustic Doppler Current Profiler ****										
0300	130298	0	ADCP	B ADCP	GDC	43-36.40S	172-43.18E	g		KIWI09RR
2000	180398	0	ADCP	E ADCP	GDC	43-36.37S	172-43.21E	g		KIWI09RR
**** Continuous Surface Water Sample - Towed Pump ****										
0300	130298	0	CSTV	B Trace Metal Tow pump	UHI	43-36.40S	172-43.18E	g		KIWI09RR
1948	150398	0	CSTV	E towed bet. stas.	UHI	52-57.99S	174-43.81W	g		KIWI09RR
**** Conductivity, Temperature, Depth ****										
**** Each sample was split between ODF (SIO) and No. Carolina State (SIX) ****										
1958	140298		TDCT	B CTD FLOURIMETER	XMIT SIX	49-59.19S	178-49.56W	g		KIWI09RR
2036	140298		TDCT	E 24 BTL	400M SIX	49-59.19S	178-49.56W	g		KIWI09RR
2038	150298		TDCT	B CTD	SIO	52-58.06S	174-44.03W	g		KIWI09RR
2128	150298		TDCT	E 24 BTL	400M SIO	52-58.41S	174-43.93W	g		KIWI09RR
0035	160298		TDCT	B CTD	SIX	52-58.10S	174-44.00W	g		KIWI09RR
0115	160298		TDCT	E 24 BTL	400M SIX	52-58.93S	174-43.94W	g		KIWI09RR
0256	160298		TDCT	B CTD	SIO	52-58.08S	174-43.91W	g		KIWI09RR
0345	160298		TDCT	E 24 BTL	400M SIO	52-58.97S	174-43.69W	g		KIWI09RR
0845	160298		TDCT	B CTD	SIX	52-59.85S	174-43.59W	g		KIWI09RR
0930	160298		TDCT	E 24 BTL	400M SIX	53-01.20S	174-43.21W	g		KIWI09RR
1158	160298		TDCT	B CTD	SIO	52-58.32S	174-43.98W	g		KIWI09RR
1348	160298		TDCT	E 24 BTL	2000M SIO	53-00.81S	174-43.63W	g		KIWI09RR

#GMT	DDMMYY	SAMP B	SAMPLE	DISP			p	CRUISE
#TIME	DATE	TZ	CODE E IDENTIFIER	CODE	LATITUDE	LONGITUDE	c	LEG-SHIP
#								
1458	160298		TDCT B CTD	SIX	52-58.01S	174-43.90W	g	KIWI09RR
1543	160298		TDCT E 24 BTL	400M SIX	52-58.37S	174-43.62W	g	KIWI09RR
1647	160298		TDCT B CTD	SIO	52-57.97S	174-43.94W	g	KIWI09RR
1715	160298		TDCT E 24 BTL	400M SIO	52-58.01S	174-43.92W	g	KIWI09RR
1917	160298		TDCT B CTD	SIX	52-58.01S	174-43.92W	g	KIWI09RR
1957	160298		TDCT E 24 BTL	400M SIX	52-58.16S	174-44.01W	g	KIWI09RR
2109	160298		TDCT B CTD	SIO	52-57.92S	174-43.88W	g	KIWI09RR
2152	160298		TDCT E 24 BTL	400M SIO	52-58.54S	174-44.41W	g	KIWI09RR
0007	170298		TDCT B CTD	SIX	53-04.56S	174-46.16W	g	KIWI09RR
0503	170298		TDCT E 24 BTL	5400M SIX	53-08.58S	174-47.48W	g	KIWI09RR
0704	170298		TDCT B CTD	SIO	53-14.13S	174-46.43W	g	KIWI09RR
0742	170298		TDCT E 24 BTL	400M SIO	53-15.28S	174-46.05W	g	KIWI09RR
0910	170298		TDCT B CTD	SIX	53-20.78S	174-45.09W	g	KIWI09RR
0946	170298		TDCT E 24 BTL	400M SIX	53-20.78S	174-45.00W	g	KIWI09RR
1043	180298		TDCT B CTD	SIO	56-51.00S	170-09.99W	g	KIWI09RR
1130	180298		TDCT E 24 BTL	400M SIO	56-50.99S	170-09.98W	g	KIWI09RR
1656	180298		TDCT B CTD	SIX	56-51.00S	170-09.98W	g	KIWI09RR
1743	180298		TDCT E 24 BTL	400M SIX	56-50.99S	170-09.97W	g	KIWI09RR
2025	180298		TDCT B CTD	SIO	56-50.99S	170-09.98W	g	KIWI09RR
2105	180298		TDCT E 24 BTL	400M SIO	56-50.99S	170-09.98W	g	KIWI09RR
0106	190298		TDCT B CTD	SIX	56-51.00S	170-10.01W	g	KIWI09RR
0306	190298		TDCT E 24 BTL	2000M SIX	56-50.98S	170-09.98W	g	KIWI09RR
0449	190298		TDCT B CTD	SIO	56-51.01S	170-10.01W	g	KIWI09RR
0548	190298		TDCT E 24 BTL	400M SIO	56-50.95S	170-09.98W	g	KIWI09RR
1557	190298		TDCT B CTD	SIX	56-51.00S	170-10.00W	g	KIWI09RR
2116	190298		TDCT E 24 BTL	4950M SIX	56-50.98S	170-10.01W	g	KIWI09RR
0320	200298		TDCT B CTD	SIO	56-50.88S	170-09.81W	g	KIWI09RR
0412	200298		TDCT E 24 BTL	400M SIO	56-50.88S	170-09.80W	g	KIWI09RR
0630	200298		TDCT B CTD	SIX	56-50.93S	170-09.90W	g	KIWI09RR
0722	200298		TDCT E 24 BTL	400M SIX	56-50.93S	170-09.90W	g	KIWI09RR
1610	200298		TDCT B CTD	SIO	58-30.00S	170-00.01W	g	KIWI09RR
1657	200298		TDCT E 24 BTL	400M SIO	58-30.00S	169-59.98W	g	KIWI09RR
0328	210298		TDCT B CTD	SIX	60-13.99S	170-04.01W	g	KIWI09RR
0515	210298		TDCT E 24 BTL	2000M SIX	60-14.00S	170-03.99W	g	KIWI09RR
0850	210298		TDCT B CTD	SIO	60-14.00S	170-04.00W	g	KIWI09RR
0930	210298		TDCT E 24 BTL	400M SIO	60-14.00S	170-04.00W	g	KIWI09RR
1651	210298		TDCT B CTD	SIX	60-14.00S	170-04.00W	g	KIWI09RR
1741	210298		TDCT E 24 BTL	400M SIX	60-13.99S	170-04.00W	g	KIWI09RR

#GMT #TIME #	DDMMYY DATE	SAMP B TZ	SAMPLE CODE E	IDENTIFIER	DISP CODE	LATITUDE	LONGITUDE	P c	CRUISE LEG-SHIP
2352	210298		TDCT B	CTD	SIO	60-14.00S	170-03.99W	g	KIWI09RR
0040	220298		TDCT E	24 BTL	400M SIO	60-13.99S	170-04.00W	g	KIWI09RR
0830	220298		TDCT B	CTD	SIX	60-14.00S	170-04.00W	g	KIWI09RR
0919	220298		TDCT E	24 BTL	400M SIX	60-13.99S	170-03.99W	g	KIWI09RR
1337	220298		TDCT B	CTD	SIO	60-14.00S	170-04.00W	g	KIWI09RR
1811	220298		TDCT E	24 BTL	3900M SIO	60-14.00S	170-04.00W	g	KIWI09RR
2126	220298		TDCT B	CTD	SIX	60-14.00S	170-04.00W	g	KIWI09RR
2215	220298		TDCT E	24 BTL	400M SIX	60-13.99S	170-03.99W	g	KIWI09RR
2324	220298		TDCT B	CTD	SIO	60-13.99S	170-03.99W	g	KIWI09RR
0012	230298		TDCT E	24 BTL	400M SIO	60-14.00S	170-03.99W	g	KIWI09RR
0509	230298		TDCT B	CTD	SIX	60-54.99S	169-59.98W	g	KIWI09RR
0606	230298		TDCT E	24 BTL	400M SIX	60-55.00S	170-00.00W	g	KIWI09RR
1336	230298		TDCT B	CTD	SIO	61-40.00S	170-00.00W	g	KIWI09RR
1434	230298		TDCT E	24 BTL	400M SIO	61-39.99S	170-00.00W	g	KIWI09RR
0212	240298		TDCT B	CTD	SIX	63-04.97S	169-52.96W	g	KIWI09RR
0355	240298		TDCT E	24 BTL	2000M SIX	63-04.96S	169-52.89W	g	KIWI09RR
1627	240298		TDCT B	CTD	SIO	63-05.01S	169-52.85W	g	KIWI09RR
1711	240298		TDCT E	24 BTL	400M SIO	63-05.00S	169-52.99W	g	KIWI09RR
2235	240298		TDCT B	CTD	SIX	63-05.00S	169-53.00W	g	KIWI09RR
2310	240298		TDCT E	24 BTL	400M SIX	63-05.00S	169-53.00W	g	KIWI09RR
0101	250298		TDCT B	CTD	SIO	63-05.00S	169-53.00W	g	KIWI09RR
0147	250298		TDCT E	24 BTL	400M SIO	63-05.00S	169-53.00W	g	KIWI09RR
0330	250298		TDCT B	CTD	SIX	63-05.00S	169-52.99W	g	KIWI09RR
0420	250298		TDCT E	24 BTL	400M SIX	63-05.00S	169-53.00W	g	KIWI09RR
0810	250298		TDCT B	CTD	SIO	63-04.98S	169-52.98W	g	KIWI09RR
0853	250298		TDCT E	24 BTL	400M SIO	63-04.99S	169-52.98W	g	KIWI09RR
0943	250298		TDCT B	CTD	SIX	63-04.99S	169-52.99W	g	KIWI09RR
1024	250298		TDCT E	24 BTL	400M SIX	63-04.99S	169-52.99W	g	KIWI09RR
1153	250298		TDCT B	CTD	SIO	63-04.99S	169-52.99W	g	KIWI09RR
1418	250298		TDCT E	24 BTL	2945M SIO	63-05.00S	169-52.99W	g	KIWI09RR
1757	250298		TDCT B	CTD	SIX	63-04.99S	169-52.99W	g	KIWI09RR
1823	250298		TDCT E	24 BTL	400M SIX	63-04.99S	169-52.99W	g	KIWI09RR
2037	250298		TDCT B	CTD	SIO	63-04.99S	169-52.99W	g	KIWI09RR
2120	250298		TDCT E	24 BTL	400M SIO	63-05.00S	169-52.99W	g	KIWI09RR
0735	260298		TDCT B	CTD	SIX	64-42.00S	169-19.97W	g	KIWI09RR
0823	260298		TDCT E	24 BTL	400M SIX	64-42.00S	169-19.98W	g	KIWI09RR
1933	260298		TDCT B	CTD	SIO	66-05.99S	168-40.29W	g	KIWI09RR
2014	260298		TDCT E	24 BTL	400M SIO	66-05.99S	168-40.29W	g	KIWI09RR
0118	270298		TDCT B	CTD	SIX	66-05.99S	168-40.29W	g	KIWI09RR
0216	270298		TDCT E	24 BTL	400M SIX	66-06.00S	168-40.29W	g	KIWI09RR

#GMT	DDMMYY	SAMP	B	SAMPLE	DISP			p	CRUISE
#TIME	DATE	TZ	CODE	E IDENTIFIER	CODE	LATITUDE	LONGITUDE	c	LEG-SHIP
#									
0353	270298		TDCT	B CTD	SIO	66-05.99S	168-40.29W	g	KIWI09RR
0603	270298		TDCT	E 24 BTL	2756M SIO	66-06.00S	168-40.30W	g	KIWI09RR
0849	270298		TDCT	B CTD	SIX	66-05.99S	168-40.29W	g	KIWI09RR
0938	270298		TDCT	E 24 BTL	400M SIX	66-06.00S	168-40.30W	g	KIWI09RR
1652	270298		TDCT	B CTD	SIO	66-06.02S	168-40.38W	g	KIWI09RR
1742	270298		TDCT	E 24 BTL	400M SIO	66-05.98S	168-40.31W	g	KIWI09RR
2248	270298		TDCT	B CTD	SIX	66-05.99S	168-40.30W	g	KIWI09RR
2332	270298		TDCT	E 24 BTL	400M SIX	66-05.99S	168-40.29W	g	KIWI09RR
0352	280298		TDCT	B CTD	SIO	66-05.99S	168-40.34W	g	KIWI09RR
0433	280298		TDCT	E 24 BTL	400M SIO	66-05.99S	168-40.31W	g	KIWI09RR
1908	280298		TDCT	B CTD	SIX	67-30.00S	170-00.02W	g	KIWI09RR
1950	280298		TDCT	E 24 BTL	400M SIX	67-29.99S	170-00.00W	g	KIWI09RR
0512	010398		TDCT	B CTD	SIO	69-04.74S	168-27.89W	g	KIWI09RR
0609	010398		TDCT	E 24 BTL	400M SIO	69-04.74S	168-27.87W	g	KIWI09RR
0927	010398		TDCT	B CTD	SIX	69-18.04S	168-22.54W	g	KIWI09RR
1003	010398		TDCT	E 24 BTL	400M SIX	69-17.88S	168-22.19W	g	KIWI09RR
0504	020398		TDCT	B CTD	SIO	70-24.05S	165-54.86W	g	KIWI09RR
0650	020398		TDCT	E 24 BTL	2000M SIO	70-24.05S	165-54.86W	g	KIWI09RR
1654	020398		TDCT	B CTD	SIX	70-24.01S	165-54.89W	g	KIWI09RR
1742	020398		TDCT	E 24 BTL	400M SIX	70-24.01S	165-54.88W	g	KIWI09RR
0001	030398		TDCT	B CTD	SIO	70-24.01S	165-54.87W	g	KIWI09RR
0046	030398		TDCT	E 24 BTL	400M SIO	70-24.01S	165-54.89W	g	KIWI09RR
0458	030398		TDCT	B CTD	SIX	70-24.01S	165-54.89W	g	KIWI09RR
0549	030398		TDCT	E 24 BTL	400M SIX	70-24.00S	165-54.91W	g	KIWI09RR
0856	030398		TDCT	B CTD	SIO	70-24.01S	165-54.88W	g	KIWI09RR
0935	030398		TDCT	E 24 BTL	400M SIO	70-24.01S	165-54.86W	g	KIWI09RR
1910	030398		TDCT	B CTD	SIX	70-24.45S	165-55.48W	g	KIWI09RR
2001	030398		TDCT	E 24 BTL	400M SIX	70-24.45S	165-55.47W	g	KIWI09RR
2204	030398		TDCT	B CTD	SIO	70-24.61S	165-57.23W	g	KIWI09RR
0107	040398		TDCT	E 24 BTL	4100M SIO	70-24.61S	165-57.23W	g	KIWI09RR
1009	040398		TDCT	B CTD	SIX	71-18.94S	166-00.51W	g	KIWI09RR
1057	040398		TDCT	E 24 BTL	400M SIX	71-18.94S	166-00.49W	g	KIWI09RR
0244	050398		TDCT	B CTD	SIO	69-17.99S	168-22.00W	g	KIWI09RR
0426	050398		TDCT	E 24 BTL	2000M SIO	69-17.99S	168-22.00W	g	KIWI09RR
0829	050398		TDCT	B CTD	SIX	69-17.99S	168-22.03W	g	KIWI09RR
0910	050398		TDCT	E 24 BTL	400M SIX	69-17.99S	168-21.99W	g	KIWI09RR
1415	050398		TDCT	B CTD	SIO	69-18.00S	168-22.00W	g	KIWI09RR
1450	050398		TDCT	E 24 BTL	400M SIO	69-18.00S	168-21.99W	g	KIWI09RR
1536	050398		TDCT	B CTD	SIX	69-18.00S	168-21.99W	g	KIWI09RR
1626	050398		TDCT	E 24 BTL	400M SIX	69-17.99S	168-22.00W	g	KIWI09RR

#GMT #TIME #	DDMMYY DATE	SAMP TZ	B CODE	SAMPLE E IDENTIFIER	DISP CODE	LATITUDE	LONGITUDE	p c	CRUISE LEG-SHIP
1900	050398	TDCT	B	CTD	SIO	69-18.00S	168-22.00W	g	KIWI09RR
1938	050398	TDCT	E	24 BTL	400M SIO	69-17.99S	168-22.00W	g	KIWI09RR
2101	050398	TDCT	B	CTD	SIX	69-18.00S	168-21.99W	g	KIWI09RR
2140	050398	TDCT	E	24 BTL	400M SIX	69-18.00S	168-22.00W	g	KIWI09RR
0253	060398	TDCT	B	CTD	SIO	69-18.00S	168-22.00W	g	KIWI09RR
0338	060398	TDCT	E	24 BTL	400M SIO	69-17.99S	168-21.99W	g	KIWI09RR
0916	060398	TDCT	B	CTD	SIX	69-17.99S	168-21.99W	g	KIWI09RR
0943	060398	TDCT	E	24 BTL	400M SIX	69-18.00S	168-21.99W	g	KIWI09RR
1136	060398	TDCT	B	CTD	SIO	69-18.00S	168-21.99W	g	KIWI09RR
1459	060398	TDCT	E	24 BTL	4140M SIO	69-18.00S	168-22.00W	g	KIWI09RR
1752	060398	TDCT	B	CTD	SIX	69-17.73S	168-21.89W	g	KIWI09RR
1836	060398	TDCT	E	24 BTL	400M SIX	69-17.75S	168-21.97W	g	KIWI09RR
0353	070398	TDCT	B	CTD	SIO	67-30.02S	169-59.99W	g	KIWI09RR
0437	070398	TDCT	E	24 BTL	400M SIO	67-30.01S	169-59.97W	g	KIWI09RR
0547	070398	TDCT	B	CTD	SIX	67-29.99S	170-00.01W	g	KIWI09RR
0627	070398	TDCT	E	24 BTL	400M SIX	67-30.00S	170-00.00W	g	KIWI09RR
1342	070398	TDCT	B	CTD	SIO	67-06.001	169-40.30W	g	KIWI09RR
1431	070398	TDCT	E	24 BTL	400M SIO	66-05.99S	169-40.30W	g	KIWI09RR
1613	070398	TDCT	B	CTD	SIX	66-06.00S	169-40.30W	g	KIWI09RR
1659	070398	TDCT	E	24 BTL	400M SIX	66-06.00S	169-40.30W	g	KIWI09RR
0018	080398	TDCT	B	CTD	SIO	64-42.00S	169-19.95W	g	KIWI09RR
0054	080398	TDCT	E	24 BTL	400M SIO	64-42.00S	169-19.99W	g	KIWI09RR
0224	080398	TDCT	B	CTD	SIX	64-42.00S	169-20.01W	g	KIWI09RR
0305	080398	TDCT	E	24 BTL	400M SIX	64-41.99S	169-20.00W	g	KIWI09RR
0902	080398	TDCT	B	CTD	SIO	64-42.00S	169-20.00W	g	KIWI09RR
0944	080398	TDCT	E	24 BTL	400M SIO	64-42.00S	169-20.00W	g	KIWI09RR
0150	080398	TDCT	B	CTD	SIX	64-42.00S	169-19.98W	g	KIWI09RR
0327	080398	TDCT	E	24 BTL	2000M SIX	64-42.00S	169-20.00W	g	KIWI09RR
1411	080398	TDCT	B	CTD	SIO	64-41.99S	169-19.99W	g	KIWI09RR
1450	080398	TDCT	E	24 BTL	400M SIO	64-42.00S	169-20.00W	g	KIWI09RR
1857	080398	TDCT	B	CTD	SIX	64-41.99S	169-19.98W	g	KIWI09RR
1935	080398	TDCT	E	24 BTL	400M SIX	64-41.99S	169-19.99W	g	KIWI09RR
2200	080398	TDCT	B	CTD	SIO	64-41.99S	169-19.97W	g	KIWI09RR
2238	080398	TDCT	E	24 BTL	400M SIO	64-41.99S	169-19.99W	g	KIWI09RR
0040	090398	TDCT	B	CTD	SIX	64-41.99S	169-19.98W	g	KIWI09RR
0125	090398	TDCT	E	24 BTL	400M SIX	64-41.99S	169-19.98W	g	KIWI09RR
0437	090398	TDCT	B	CTD	SIO	64-41.99S	169-19.99W	g	KIWI09RR
0620	090398	TDCT	E	24 BTL	2000M SIO	64-42.00S	169-20.00W	g	KIWI09RR
1533	090398	TDCT	B	CTD	SIX	63-04.99S	169-53.00W	g	KIWI09RR
1620	090398	TDCT	E	24 BTL	400M SIX	63-05.00S	169-53.00W	g	KIWI09RR

#GMT	DDMMYY	SAMP	B	SAMPLE	DISP				p	CRUISE
#TIME	DATE	TZ	CODE	E IDENTIFIER	CODE	LATITUDE	LONGITUDE		c	LEG-SHIP
#										
0201	100398		TDCT	B CTD	SIO	61-39.99S	170-05.99W	g		KIWI09RR
0244	100398		TDCT	E 24 BTL	400M SIO	61-39.99S	170-06.00W	g		KIWI09RR
0432	100398		TDCT	B CTD	SIX	61-40.00S	170-05.99W	g		KIWI09RR
0514	100398		TDCT	E 24 BTL	400M SIX	61-40.00S	170-06.00W	g		KIWI09RR
0859	100398		TDCT	B CTD	SIO	61-39.94S	170-05.90W	g		KIWI09RR
0936	100398		TDCT	E 24 BTL	400M SIO	61-39.90S	170-05.93W	g		KIWI09RR
1600	100398		TDCT	B CTD	SIX	61-40.00S	170-06.01W	g		KIWI09RR
1747	100398		TDCT	E 24 BTL	2000M SIX	61-40.00S	170-06.00W	g		KIWI09RR
2215	100398		TDCT	B CTD	SIO	61-40.00S	170-06.00W	g		KIWI09RR
2248	100398		TDCT	E 24 BTL	400M SIO	61-40.00S	170-06.00W	g		KIWI09RR
0100	110398		TDCT	B CTD	SIX	61-40.00S	170-06.00W	g		KIWI09RR
0142	110398		TDCT	E 24 BTL	400M SIX	61-40.00S	170-06.00W	g		KIWI09RR
0900	110398		TDCT	B CTD	SIO	61-40.00S	170-05.99W	g		KIWI09RR
0945	110398		TDCT	E 24 BTL	400M SIO	61-40.00S	170-05.99W	g		KIWI09RR
1125	110398		TDCT	B CTD	SIX	61-40.00S	170-05.99W	g		KIWI09RR
1415	110398		TDCT	E 24 BTL	3399M SIX	61-40.00S	170-05.99W	g		KIWI09RR
0155	120398		TDCT	B CTD	SIO	61-15.00S	170-05.99W	g		KIWI09RR
0253	120398		TDCT	E 24 BTL	400M SIO	61-14.99S	170-05.99W	g		KIWI09RR
0408	120398		TDCT	B CTD	SIX	61-02.50S	170-06.00W	g		KIWI09RR
0506	120398		TDCT	E 24 BTL	400M SIX	61-02.50S	170-06.00W	g		KIWI09RR
0606	120398		TDCT	B CTD	SIO	60-54.95S	170-05.93W	g		KIWI09RR
0700	120398		TDCT	E 24 BTL	400M SIO	60-55.00S	170-05.99W	g		KIWI09RR
0802	120398		TDCT	B CTD	SIX	60-48.01S	170-05.96W	g		KIWI09RR
0904	120398		TDCT	E 24 BTL	400M SIX	60-48.01S	170-05.97W	g		KIWI09RR
1008	120398		TDCT	B CTD	SIO	60-39.99S	170-06.00W	g		KIWI09RR
1108	120398		TDCT	E 24 BTL	400M SIO	60-39.99S	170-05.98W	g		KIWI09RR
1322	120398		TDCT	B CTD	SIX	60-13.99S	170-05.99W	g		KIWI09RR
1411	120398		TDCT	E 24 BTL	400M SIX	60-13.99S	170-05.99W	g		KIWI09RR
0445	130398		TDCT	B CTD	SIO	58-29.99S	170-00.00W	g		KIWI09RR
0535	130398		TDCT	E 24 BTL	400M SIO	58-30.02S	170-00.01W	g		KIWI09RR
1400	130398		TDCT	B CTD	SIX	56-50.99S	170-10.00W	g		KIWI09RR
1445	130398		TDCT	E 24 BTL	400M SIX	56-51.00S	170-09.99W	g		KIWI09RR
1215	140398		TDCT	B CTD	SIO	54-19.99S	173-19.99W	g		KIWI09RR
1301	140398		TDCT	E 24 BTL	400M SIO	54-20.00S	173-19.99W	g		KIWI09RR
1926	140398		TDCT	B CTD	SIX	54-19.99S	173-20.00W	g		KIWI09RR
2013	140398		TDCT	E 24 BTL	400M SIX	54-19.99S	173-19.99W	g		KIWI09RR
0004	150398		TDCT	B CTD	SIO	54-19.99S	173-20.00W	g		KIWI09RR
0105	150398		TDCT	E 24 BTL	400M SIO	54-19.99S	173-19.99W	g		KIWI09RR

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

0655	150398		TDCT B CTD	SIX	54-23.76S	173-17.90W		g	KIWI09RR
1131	150398		TDCT E 24 BTL	5070M SIX	54-23.77S	173-17.90W		g	KIWI09RR
1948	150398		TDCT B CTD	SIO	52-57.98S	174-43.79W		g	KIWI09RR
2046	150398		TDCT E 24 BTL	400M SIO	52-58.07S	174-43.64W		g	KIWI09RR

*** Geochemical Samples - Thorium Pumps ***

2106	140298		GCXX B Thorium pumps	WHO	49-59.19S	178-49.56W		g	KIWI09RR
2150	140298		GCXX E Thorium pumps	WHO	49-59.21S	178-49.56W		g	KIWI09RR
0415	160298		GCXX B Thorium pumps	WHO	52-58.06S	174-44.03W		g	KIWI09RR
0644	160298		GCXX E Thorium pumps	WHO	53-00.24S	174-45.17W		g	KIWI09RR
2350	190298		GCXX B Thorium Pumps	WHO	56-50.88S	170-09.80W		g	KIWI09RR
0251	200298		GCXX E Thorium Pumps	WHO	56-50.88S	170-09.80W		g	KIWI09RR
0132	220298		GCXX B Thorium Pumps	WHO	60-13.99S	170-03.99W		g	KIWI09RR
0454	220298		GCXX E Thorium Pumps	WHO	60-13.99S	170-04.00W		g	KIWI09RR
0604	240298		GCXX B Thorium Pumps	WHO	63-04.99S	169-53.00W		g	KIWI09RR
0949	240298		GCXX E Thorium pumps	WHO	63-04.99S	169-53.00W		g	KIWI09RR
2356	270298		GCXX B Thorium Pumps	WHO	66-05.99S	168-40.34W		g	KIWI09RR
0340	280298		GCXX E Thorium Pumps	WHO	66-06.00S	168-40.26W		g	KIWI09RR
0100	030398		GCXX B Thorium Pumps	WHO	70-24.01S	165-54.88W		g	KIWI09RR
0448	030398		GCXX E Thorium Pumps	WHO	70-24.01S	165-54.89W		g	KIWI09RR
2330	050398		GCXX B Thorium Pumps	WHO	69-17.99S	168-22.01W		g	KIWI09RR
0241	060398		GCXX E Thorium Pumps	WHO	69-18.00S	168-22.00W		g	KIWI09RR
0315	080398		GCXX B Thorium Pumps	WHO	64-41.99S	169-20.01W		g	KIWI09RR
0633	080398		GCXX E Thorium pumps	WHO	64-42.00S	169-20.00W		g	KIWI09RR
0151	110398		GCXX B Thorium Pumps	WHO	61-40.00S	170-06.00W		g	KIWI09RR
0514	110398		GCXX E Thorium Pumps	WHO	61-40.00S	170-05.99W		g	KIWI09RR
2000	110398		GCXX B Thorium pumps	WHO	61-39.99S	170-06.00W		g	KIWI09RR
2337	110398		GCXX E Thorium Pumps	WHO	61-39.99S	170-06.00W		g	KIWI09RR
0113	150398		GCXX B Thorium Pumps	WHO	54-19.99S	173-20.00W		g	KIWI09RR
0448	150398		GCXX E Thorium pumps	WHO	54-19.99S	173-19.99W		g	KIWI09RR

*** Open Nets - LUMCON ***

2204	140298		ON1M B Vertical net Net	SIX	49-59.20S	178-49.56W		g	KIWI09RR
2224	140298		ON1M E LIVE STUDIES	200M SIX	49-59.20S	178-49.56W		g	KIWI09RR
2223	150298		ON1M B Vertical Net Tow	SIX	52-58.53S	174-43.99W		g	KIWI09RR
2255	150298		ON1M E LIVE STUDIES	200M SIX	52-59.05S	174-44.04W		g	KIWI09RR
1000	160298		ON1M B Net Net	SIX	53-00.12S	174-43.48W		g	KIWI09RR
1030	160298		ON1M E LIVE STUDIES	200M SIX	53-00.70S	174-43.23W		g	KIWI09RR
0958	170298		ON1M B Vertical net Net	SIX	53-20.78S	174-45.00W		g	KIWI09RR
1027	170298		ON1M E LIVE STUDIES	200M SIX	53-20.78S	174-44.99W		g	KIWI09RR
2343	180298		ON1M B Live Net Tow	SIX	56-50.94S	170-09.80W		g	KIWI09RR
0013	190298		ON1M E LIVE STUDIES	200M SIX	56-50.95S	170-09.81W		g	KIWI09RR

#GMT	DDMMYY	SAMP B	SAMPLE	DISP				p	CRUISE
#TIME	DATE	TZ	CODE E IDENTIFIER	CODE	LATITUDE	LONGITUDE	c	LEG-SHIP	
#									
2210	190298		ON1M B Live Net Tow	SIX	56-50.00S	170-09.99W	g	KIWI09RR	
2248	190298		ON1M E LIVE STUDIES	200M SIX	56-50.87S	170-09.80W	g	KIWI09RR	
0950	210298		ON1M B Vertical net Net	SIX	60-14.00S	170-03.99W	g	KIWI09RR	
1020	210298		ON1M E LIVE STUDIES	200M SIX	60-14.00S	170-04.00W	g	KIWI09RR	
2150	210298		ON1M B Vertical net Net	SIX	60-14.00S	170-04.00W	g	KIWI09RR	
2223	210298		ON1M E LIVE STUDIES	200M SIX	60-13.99S	170-03.99W	g	KIWI09RR	
0930	220298		ON1M B Vertical net Net	SIX	60-13.99S	170-03.98W	g	KIWI09RR	
1000	220298		ON1M E LIVE STUDIES	200M SIX	60-14.00S	170-04.00W	g	KIWI09RR	
2358	240298		ON1M B Live Net Tow	SIX	63-05.00S	169-53.00W	g	KIWI09RR	
0030	250298		ON1M E LIVE STUDIES	200M SIX	63-05.00S	169-53.00W	g	KIWI09RR	
1037	250298		ON1M B Vertical net Net	SIX	63-04.99S	169-52.99W	g	KIWI09RR	
1112	250298		ON1M E LIVE STUDIES	200M SIX	63-04.99S	169-52.99W	g	KIWI09RR	
2200	250298		ON1M B Vertical net Net	SIX	63-05.00S	169-53.00W	g	KIWI09RR	
2236	250298		ON1M E LIVE STUDIES	200M SIX	63-04.99S	169-52.99W	g	KIWI09RR	
2219	260298		ON1M B Vertical Net Tow	SIX	66-05.99S	168-40.29W	g	KIWI09RR	
2251	260298		ON1M E LIVE STUDIES	200M SIX	66-05.99S	168-40.29W	g	KIWI09RR	
1026	270298		ON1M B Vertical net Net	SIX	66-06.00S	168-40.30W	g	KIWI09RR	
1059	270298		ON1M E LIVE STUDIES	200M SIX	66-06.00S	168-40.30W	g	KIWI09RR	
1026	010398		ON1M B Vertical Net Tow	SIX	69-17.81S	168-22.03W	g	KIWI09RR	
1046	010398		ON1M E LIVE STUDIES	200M SIX	69-17.76S	168-21.96W	g	KIWI09RR	
1010	020398		ON1M B Vertical net Net	SIX	70-24.04S	165-54.95W	g	KIWI09RR	
1035	020398		ON1M E LIVE STUDIES	200M SIX	70-24.05S	165-54.85W	g	KIWI09RR	
2157	020398		ON1M B Vertical net Net	SIX	70-24.02S	165-54.75W	g	KIWI09RR	
2227	020398		ON1M E LIVE STUDIES	200M SIX	70-24.01S	165-54.88W	g	KIWI09RR	
0947	030398		ON1M B Vertical net Net	SIX	70-24.01S	165-54.90W	g	KIWI09RR	
1016	030398		ON1M E LIVE STUDIES	200M SIX	70-24.01S	165-54.85W	g	KIWI09RR	
1110	040398		ON1M B Vertical	SIX	71-18.94S	166-00.49W	g	KIWI09RR	
1140	040398		ON1M E LIVE STUDIES	200M SIX	71-18.94S	166-00.49W	g	KIWI09RR	
0956	050398		ON1M B Vertical net Net	SIX	69-18.00S	168-21.99W	g	KIWI09RR	
1025	050398		ON1M E LIVE STUDIES	200M SIX	69-18.00S	168-22.00W	g	KIWI09RR	
2150	050398		ON1M B Vertical net Net	SIX	69-18.00S	168-22.00W	g	KIWI09RR	
2222	050398		ON1M E LIVE STUDIES	200M SIX	69-18.00S	168-21.99W	g	KIWI09RR	
0956	060398		ON1M B Vertical net Net	SIX	69-18.00S	168-22.10W	g	KIWI09RR	
1026	050398		ON1M E LIVE STUDIES	200M SIX	69-17.99S	168-22.01W	g	KIWI09RR	
1026	080398		ON1M B Vertical net Net	SIX	64-42.00S	169-19.99W	g	KIWI09RR	
1100	080398		ON1M E LIVE STUDIES	200M SIX	64-41.99S	169-20.00W	g	KIWI09RR	
2318	080398		ON1M B Vertical Net Tow	SIX	64-41.99S	169-20.00W	g	KIWI09RR	
2349	080398		ON1M E LIVE STUDIES	200M SIX	64-41.99S	169-19.99W	g	KIWI09RR	
0951	100398		ON1M B Vertical net Net	SIX	61-39.94S	170-05.96W	g	KIWI09RR	
1024	100398		ON1M E LIVE STUDIES	200M SIX	61-40.00S	170-05.99W	g	KIWI09RR	

#GMT	DDMMYY	SAMP	B	SAMPLE	DISP				p	CRUISE
#TIME	DATE	TZ	CODE	E IDENTIFIER	CODE	LATITUDE	LONGITUDE		c	LEG-SHIP
#										
2255	100398		ON1M	B Vertical Net Tow	SIX	61-40.00S	170-05.99W	g		KIWI09RR
2315	100398		ON1M	E LIVE STUDIES	200M SIX	61-40.00S	170-06.00W	g		KIWI09RR
1000	110398		ON1M	B Vertical net Net	SIX	61-39.99S	170-05.99W	g		KIWI09RR
1030	110398		ON1M	E LIVE STUDIES	200M SIX	61-39.99S	170-06.00W	g		KIWI09RR
1311	140398		ON1M	B Vertical Net Tow	SIX	54-19.99S	173-19.99W	g		KIWI09RR
1345	140398		ON1M	E LIVE STUDIES	200M SIX	54-20.00S	173-20.00W	g		KIWI09RR
*** OPTICS ***										
2258	140298		OPXX	B MER Optical Package	SIO	49-59.19S	178-49.56W	g		KIWI09RR
2327	140298		OPXX	E Optical Package	SIO	49-59.19S	178-49.56W	g		KIWI09RR
0133	160298		OPXX	B Optical Package	SIO	52-58.15S	174-43.96W	g		KIWI09RR
0208	160298		OPXX	E Optical Package	SIO	52-58.99S	174-44.02W	g		KIWI09RR
2223	160298		OPXX	B Optical Package	SIO	52-58.01S	174-44.27W	g		KIWI09RR
2249	160298		OPXX	E Optical Package	SIO	52-58.47S	174-44.54W	g		KIWI09RR
1142	180298		OPXX	B Optical Package	SIO	56-50.99S	170-09.98W	g		KIWI09RR
1159	180298		OPXX	E Optical Package	SIO	56-50.98S	170-09.97W	g		KIWI09RR
1210	210298		OPXX	B Optical Package	SIO	60-14.00S	170-03.99W	g		KIWI09RR
1238	210298		OPXX	E Optical Package	SIO	60-14.00S	170-03.99W	g		KIWI09RR
2014	210298		OPXX	B Optical package	SIO	60-14.00S	170-04.00W	g		KIWI09RR
2047	210298		OPXX	E Optical package	SIO	60-14.00S	170-04.00W	g		KIWI09RR
0920	220298		OPXX	B Optical package	SIO	60-13.99S	170-03.99W	g		KIWI09RR
2049	220298		OPXX	E Optical package	SIO	60-14.00S	170-04.00W	g		KIWI09RR
1953	240298		OPXX	B Optical package	SIO	63-04.93S	169-52.99W	g		KIWI09RR
2015	240298		OPXX	E Optical package	SIO	63-05.00S	169-52.99W	g		KIWI09RR
0158	250298		OPXX	B Optical Package	SIO	63-05.00S	169-53.00W	g		KIWI09RR
0220	250298		OPXX	E Optical Package	SIO	63-05.00S	169-52.99W	g		KIWI09RR
1910	250298		OPXX	B Optical package	SIO	63-04.99S	169-52.99W	g		KIWI09RR
1950	250298		OPXX	E Optical package	SIO	63-04.99S	169-52.99W	g		KIWI09RR
2031	260298		OPXX	B Optical package	SIO	66-05.99S	168-40.29W	g		KIWI09RR
2103	260298		OPXX	E Optical package	SIO	66-05.99S	168-40.29W	g		KIWI09RR
0021	270298		OPXX	B Optical Package	SIO	66-05.99S	168-40.29W	g		KIWI09RR
0059	270298		OPXX	E Optical Package	SIO	66-05.99S	168-40.29W	g		KIWI09RR
2154	270298		OPXX	B Optical package	SIO	66-05.99S	168-40.29W	g		KIWI09RR
2229	270298		OPXX	E Optical package	SIO	66-05.99S	168-40.30W	g		KIWI09RR
2000	020398		OPXX	B Optical package	SIO	70-24.02S	165-54.86W	g		KIWI09RR
2034	020398		OPXX	E Optical package	SIO	70-24.02S	165-54.85W	g		KIWI09RR
2010	030398		OPXX	B Optical package	SIO	70-24.45S	165-55.47W	g		KIWI09RR
2040	030398		OPXX	E Optical package	SIO	70-24.45S	165-55.46W	g		KIWI09RR

#GMT #TIME #	DDMMYY DATE	TZ	SAMP CODE	B E	SAMPLE IDENTIFIER	DISP CODE	LATITUDE	LONGITUDE	p c	CRUISE LEG-SHIP
1247	040398		OPXX	B	Optical Package	SIO	71-18.42S	165-57.44W	g	KIWI09RR
1313	040398		OPXX	E	Optical Package	SIO	71-18.42S	165-57.44W	g	KIWI09RR
0720	050398		OPXX	B	Optical package	SIO	69-18.00S	168-22.00W	g	KIWI09RR
0746	050398		OPXX	E	Optical package	SIO	69-18.00S	168-21.99W	g	KIWI09RR
1958	050398		OPXX	B	Optical package	SIO	69-18.00S	168-21.99W	g	KIWI09RR
2031	050398		OPXX	E	Optical package	SIO	69-18.00S	168-22.04W	g	KIWI09RR
1654	060398		OPXX	B	Optics Package	SIO	69-17.74S	168-21.90W	g	KIWI09RR
1724	060398		OPXX	E	Optics	SIO	69-17.74S	168-21.92W	g	KIWI09RR
0109	080398		OPXX	B	Optical Package	SIO	64-41.99S	169-19.99W	g	KIWI09RR
0144	080398		OPXX	E	Optical Package	SIO	64-41.99S	169-19.99W	g	KIWI09RR
1948	080398		OPXX	B	Optical package	SIO	64-41.97S	169-20.00W	g	KIWI09RR
2027	080398		OPXX	E	Optical package	SIO	64-41.98S	169-19.99W	g	KIWI09RR
0324	100398		OPXX	B	Optical Package	SIO	61-40.00S	170-06.00W	g	KIWI09RR
0355	100398		OPXX	E	Optical Package	SIO	61-40.00S	170-05.99W	g	KIWI09RR
2009	100398		OPXX	B	Optical package	SIO	61-40.00S	170-06.02W	g	KIWI09RR
2042	100398		OPXX	E	Optical package	SIO	61-39.98S	170-05.84W	g	KIWI09RR
0800	110398		OPXX	B	Optical package	SIO	61-40.00S	170-06.00W	g	KIWI09RR
0821	110398		OPXX	E	Optical package	SIO	61-39.99S	170-05.99W	g	KIWI09RR
2028	140398		OPXX	B	Optical package	SIO	54-19.99S	173-20.00W	g	KIWI09RR
2056	140398		OPXX	E	Optical package	SIO	54-19.99S	173-20.00W	g	KIWI09RR
0413	230298		OPXX		Optics Drifter #1	OSU	60-49.87S	170-00.36W	g	KIWI09RR
0430	230298		OPXX		Optics Drifter #2	OSU	60-53.26S	170-00.11W	g	KIWI09RR
1654	060398		OPXX	B	Optics Package	SIO	69-17.74S	168-21.90W	g	KIWI09RR
**** Hydrographic Casts ****										
**** Each sample split between OSU & UHI ****										
2359	140298		HCGF	B	TRACE METAL Rosette	OSU	49-59.20S	178-49.56W	g	KIWI09RR
0023	150298		HCGF	E	8 BTL	150M OSU	49-59.20S	178-49.56W	g	KIWI09RR
1330	180298		HCGF	B	TM Rosette	UHI	56-51.00S	170-09.99W	g	KIWI09RR
1422	180298		HCGF	E	8 BTL	150M UHI	56-51.00S	170-09.98W	g	KIWI09RR
1540	180298		HCGF	B	TM Rosette	OSU	56-51.00S	170-09.98W	g	KIWI09RR
1615	180298		HCGF	E	8 BTL	150M OSU	56-51.00S	170-09.98W	g	KIWI09RR
2127	180298		HCGF	B	TM Rosette	UHI	56-50.99S	170-09.98W	g	KIWI09RR
2152	180298		HCGF	E	8 BTL	150M UHI	56-51.00S	170-09.98W	g	KIWI09RR
2138	190298		HCGF	B	TM Rosette	OSU	56-51.00S	170-10.00W	g	KIWI09RR
2205	190298		HCGF	E	8 BTL	150M OSU	56-51.00S	170-09.99W	g	KIWI09RR
1712	200298		HCGF	B	TM Rosette	UHI	58-30.00S	169-59.98W	g	KIWI09RR
1753	200298		HCGF	E	8 BTL	150M UHI	58-30.00S	169-59.98W	g	KIWI09RR

#GMT #TIME #	DDMMYY DATE	SAMP TZ	B CODE	SAMPLE E IDENTIFIER	DISP CODE	LATITUDE	LONGITUDE	p c	CRUISE LEG-SHIP
0227	210298	HCGF	B	TM Rosette	OSU	60-14.00S	170-03.96W	g	KIWI09RR
0259	210298	HCGF	E	8 BTL	150M OSU	60-14.00S	170-03.98W	g	KIWI09RR
0718	210298	HCGF	B	TM Rosette	UHI	60-13.99S	170-04.00W	g	KIWI09RR
0823	210298	HCGF	E	8 BTL	150M UHI	60-14.00S	170-04.00W	g	KIWI09RR
1300	210298	HCGF	B	TM Rosette	OSU	60-14.00S	170-04.00W	g	KIWI09RR
1335	210298	HCGF	E	8 BTL	150M OSU	60-14.00S	170-04.00W	g	KIWI09RR
1442	210298	HCGF	B	TM Rosette	UHI	60-13.99S	170-04.00W	g	KIWI09RR
1515	210298	HCGF	E	8 BTL	150M UHI	60-14.00S	170-03.98W	g	KIWI09RR
2110	210298	HCGF	B	TM rosette	OSU	60-14.00S	170-03.98W	g	KIWI09RR
2139	210298	HCGF	E	8 BTL	150M OSU	60-13.99S	170-04.00W	g	KIWI09RR
0634	230298	HCGF	B	TM Rosette	UHI	60-55.00S	170-00.00W	g	KIWI09RR
0721	230298	HCGF	E	8 BTL	150M UHI	60-55.01S	170-00.02W	g	KIWI09RR
1443	230298	HCGF	B	TM Rosette	OSU	61-40.00S	170-00.00W	g	KIWI09RR
1518	230298	HCGF	E	8 BTL	150M OSU	61-40.00S	170-00.00W	g	KIWI09RR
0017	240298	HCGF	B	TM Rosette	UHI	63-04.99S	169-53.00W	g	KIWI09RR
0052	240298	HCGF	E	8 BTL	150M UHI	63-05.00S	169-53.00W	g	KIWI09RR
0450	240298	HCGF	B	TM Rosette	OSU	63-05.00S	169-53.00W	g	KIWI09RR
0521	240298	HCGF	E	8 BTL	150M OSU	63-04.99S	169-52.99W	g	KIWI09RR
1233	240298	HCGF	B	TM Rosette	UHI	63-05.00S	169-52.99W	g	KIWI09RR
1259	240298	HCGF	E	8 BTL	150M UHI	63-04.99S	169-52.99W	g	KIWI09RR
1349	240298	HCGF	B	TM Rosette	OSU	63-04.99S	169-52.99W	g	KIWI09RR
1422	240298	HCGF	E	8 BTL	150M OSU	63-05.00S	169-52.99W	g	KIWI09RR
2056	240298	HCGF	B	TM Rosette	UHI	63-05.00S	169-52.99W	g	KIWI09RR
2136	240298	HCGF	E	8 BTL	150M UHI	63-04.99S	169-53.00W	g	KIWI09RR
0850	260298	HCGF	B	TM rosette	OSU	64-42.00S	169-19.98W	g	KIWI09RR
0926	260298	HCGF	E	8 BTL	150M OSU	64-42.00S	169-19.99W	g	KIWI09RR
1737	260298	HCGF	B	TM Rosette	UHI	66-05.99S	168-40.28W	g	KIWI09RR
1809	260298	HCGF	E	8 BTL	150M UHI	66-05.99S	168-40.29W	g	KIWI09RR
2136	260298	HCGF	B	TM Rosette	OSU	66-05.99S	168-40.29W	g	KIWI09RR
2209	260298	HCGF	E	8 BTL	150M OSU	66-05.99S	168-40.29W	g	KIWI09RR
1231	270298	HCGF	B	TM Rosette	UHI	66-06.00S	168-40.30W	g	KIWI09RR
1310	270298	HCGF	E	8 BTL	150M UHI	66-06.00S	168-40.29W	g	KIWI09RR
1414	270298	HCGF		TM Rosette	OSU	66-06.00S	168-40.30W	g	KIWI09RR
2031	270298	HCGF	B	TM Rosette	OSU	66-05.98S	168-40.31W	g	KIWI09RR
2104	270298	HCGF	E	8 BTL	150M OSU	66-05.99S	168-40.34W	g	KIWI09RR
1513	010398	HCGF	B	TM Rosette	UHI	69-17.74S	168-21.94W	g	KIWI09RR
1600	010398	HCGF	E	8 BTL	150M UHI	69-17.79S	168-22.29W	g	KIWI09RR
0340	020398	HCGF	B	TM Rosette	OSU	70-24.05S	165-54.86W	g	KIWI09RR
0433	020398	HCGF	E	8 BTL	150M OSU	70-24.05S	165-54.86W	g	KIWI09RR

#GMT	DDMMYY	SAMP	B	SAMPLE	DISP				p	CRUISE
#TIME	DATE	TZ	CODE	E IDENTIFIER	CODE	LATITUDE	LONGITUDE		c	LEG-SHIP
#										
0900	020398		HCGF	B TM rosette	UHI	70-24.05S	165-54.95W	g		KIWI09RR
0926	020398		HCGF	E 8 BTL	150M UHI	70-24.05S	165-55.02W	g		KIWI09RR
1226	020398		HCGF	B TM Rosette	OSU	70-24.01S	165-54.88W	g		KIWI09RR
1254	020398		HCGF	E 8 BTL	150M OSU	70-24.01S	165-54.88W	g		KIWI09RR
1226	020398		HCGF	B TM Rosette	OSU	70-24.01S	165-54.88W	g		KIWI09RR
1254	020398		HCGF	E 8 BTL	150M OSU	70-24.01S	165-54.88W	g		KIWI09RR
1407	020398		HCGF	B TM Rosette	UHI	70-24.00S	165-54.89W	g		KIWI09RR
1436	020398		HCGF	E 8 BTL	150M UHI	70-24.01S	165-54.89W	g		KIWI09RR
2101	020398		HCGF	B TM Rosette	OSU	70-24.04S	165-54.80W	g		KIWI09RR
2140	020398		HCGF	E 8 BTL	150M OSU	70-24.04S	165-54.72W	g		KIWI09RR
0606	030398		HCGF	B TM Rosette	UHI	70-24.01S	165-54.87W	g		KIWI09RR
0634	030398		HCGF	E 8 BTL	150M UHI	70-24.01S	165-54.88W	g		KIWI09RR
1400	030398		HCGF	B TM Rosette	OSU	70-24.46S	165-55.47W	g		KIWI09RR
1429	030398		HCGF	E 8 BTL	150M OSU	70-24.46S	165-55.48W	g		KIWI09RR
2055	030398		HCGF	B TM rosette	UHI	70-24.45S	165-55.46W	g		KIWI09RR
2140	030398		HCGF	E 8 BTL	150M UHI	70-24.61S	165-57.24W	g		KIWI09RR
1337	040398		HCGF	B TM Rosette	OSU	71-18.42S	165-57.44W	g		KIWI09RR
1407	040398		HCGF	E 8 BTL	150M OSU	71-18.42S	165-57.44W	g		KIWI09RR
1455	040398		HCGF	B TM Rosette	UHI	71-18.42S	165-57.44W	g		KIWI09RR
1525	040398		HCGF	E 8 BTL	150M UHI	71-18.42S	165-57.44W	g		KIWI09RR
0145	050398		HCGF	B TM Rosette	OSU	69-18.08S	168-21.80W	g		KIWI09RR
0215	050398		HCGF	E 8 BTL	150M OSU	69-18.08S	168-21.84W	g		KIWI09RR
1228	050398		HCGF	B TM Rosette	UHI	69-18.00S	168-21.99W	g		KIWI09RR
1257	050398		HCGF	E 8 BTL	150M UHI	69-18.01S	168-21.97W	g		KIWI09RR
1228	080398		HCGF	B TM Rosette	OSU	64-42.00S	169-20.00W	g		KIWI09RR
1240	080398		HCGF	E 8 BTL	150M OSU	64-42.00S	169-19.99W	g		KIWI09RR
2105	080398		HCGF	B TM rosette	UHI	64-41.99S	169-19.98W	g		KIWI09RR
2124	080398		HCGF	E 8 BTL	150M UHI	64-41.99S	169-19.99W	g		KIWI09RR
1809	090398		HCGF	B TM Rosette	OSU	63-04.99S	169-53.00W	g		KIWI09RR
1853	090398		HCGF	E 8 BTL	150M OSU	63-04.99S	169-53.00W	g		KIWI09RR
1230	100398		HCGF	B TM Rosette	UHI	61-40.01S	170-06.02W	g		KIWI09RR
1258	100398		HCGF	E 8 BTL	150M UHI	61-39.99S	170-05.99W	g		KIWI09RR
1351	100398		HCGF	B TM Rosette	OSU	61-40.01S	170-06.02W	g		KIWI09RR
1423	100398		HCGF	E 8 BTL	150M OSU	61-40.00S	170-06.00W	g		KIWI09RR
2055	100398		HCGF	B TM rosette	UHI	61-40.00S	170-05.97W	g		KIWI09RR
2121	100398		HCGF	E 8 BTL	150M UHI	61-40.00S	170-06.01W	g		KIWI09RR
1652	120398		HCGF	B TM Rosette	OSU	60-13.99S	170-06.00W	g		KIWI09RR
1723	120398		HCGF	E 8 BTL	150M OSU	60-13.96S	170-05.99W	g		KIWI09RR
0142	130398		HCGF	B TM Rosette	UHI	58-30.00S	170-00.01W	g		KIWI09RR
0219	130398		HCGF	E 8 BTL	150M UHI	58-30.00S	170-00.00W	g		KIWI09RR
1719	130398		HCGF	B TM Rosette	OSU	56-51.00S	170-09.99W	g		KIWI09RR
1754	130398		HCGF	E 8 BTL	150M OSU	56-50.99S	170-09.99W	g		KIWI09RR

#GMT #TIME #	DDMMYY DATE	SAMP TZ	B CODE	SAMPLE E IDENTIFIER	DISP CODE	LATITUDE	LONGITUDE	P c	CRUISE LEG-SHIP
1500	140398	HCGF	B	TM Rosette	UHI	54-19.99S	173-20.00W	g	KIWI09RR
1532	140398	HCGF	E	8 BTL	150M UHI	54-20.00S	173-20.00W	g	KIWI09RR
1800	140398	HCGF	B	TM Rosette	OSU	54-19.99S	173-20.00W	g	KIWI09RR
1824	140398	HCGF	E	8 BTL	150M OSU	54-19.99S	173-20.00W	g	KIWI09RR
2108	140398	HCGF	B	TM rosette	UHI	54-19.99S	173-20.00W	g	KIWI09RR
2135	140398	HCGF	E	8 BTL	150M UHI	54-19.99S	173-19.99W	g	KIWI09RR
*** Cameras - Particle and Optic Profiling System ***									
0115	150298	CAXX	B	POPS PARTICLES & OPTIC	TAMU	49-59.19S	178-49.56W	g	KIWI09RR
0130	150298	CAXX	E	PROFILING SYSTEM	TAMU	49-59.20S	178-49.56W	g	KIWI09RR
0721	160298	CAXX	B	POPS	TAMU	52-58.21S	174-44.07W	g	KIWI09RR
0745	160298	CAXX	E	POPS	TAMU	52-58.96S	174-43.83W	g	KIWI09RR
0755	160298	CAXX	B	POPS	TAMU	52-59.31S	174-43.64W	g	KIWI09RR
0815	160298	CAXX	E	POPS	TAMU	52-59.93S	174-43.53W	g	KIWI09RR
2001	160298	CAXX	B	POPS	TAMU	52-58.21S	174-44.05W	g	KIWI09RR
2051	160298	CAXX	E	POPS	TAMU	52-58.12S	174-44.43W	g	KIWI09RR
0521	170298	CAXX	B	POPS	TAMU	53-08.74S	174-47.37W	g	KIWI09RR
0601	170298	CAXX	E	POPS	TAMU	53-09.14S	174-47.13W	g	KIWI09RR
1145	170298	CAXX	B	POPS	TAMU	53-20.78S	174-45.00W	g	KIWI09RR
1304	170298	CAXX	E	POPS	TAMU	53-20.78S	174-45.00W	g	KIWI09RR
1907	180298	CAXX	B	POPS	TAMU	56-50.99S	170-09.97W	g	KIWI09RR
1952	180298	CAXX	E	POPS	TAMU	56-50.99S	170-09.99W	g	KIWI09RR
0503	200298	CAXX	B	POPS	TAMU	56-50.93S	170-09.89W	g	KIWI09RR
0614	200298	CAXX	E	POPS	TAMU	56-50.94S	170-09.88W	g	KIWI09RR
0547	210298	CAXX	B	POPS	TAMU	60-14.00S	170-03.99W	g	KIWI09RR
0646	210298	CAXX	E	POPS	TAMU	60-14.00S	170-03.99W	g	KIWI09RR
1901	210298	CAXX	B	POPS	TAMU	60-14.00S	170-03.99W	g	KIWI09RR
1948	210298	CAXX	E	POPS	TAMU	60-14.00S	170-03.97W	g	KIWI09RR
0535	220298	CAXX	B	POPS	TAMU	60-14.00S	170-03.99W	g	KIWI09RR
0646	220298	CAXX	E	POPS	TAMU	60-13.98S	170-03.95W	g	KIWI09RR
0739	230298	CAXX	B	POPS	TAMU	60-54.98S	169-59.93W	g	KIWI09RR
0853	230298	CAXX	E	POPS	TAMU	60-55.00S	170-00.01W	g	KIWI09RR
1530	230298	CAXX	B	POPS	TAMU	61-40.00S	170-00.00W	g	KIWI09RR
1646	230298	CAXX	E	POPS	TAMU	61-40.00S	170-00.00W	g	KIWI09RR

#GMT	DDMMYY	SAMP	B	SAMPLE	DISP			p	CRUISE
#TIME	DATE	TZ	CODE	E IDENTIFIER	CODE	LATITUDE	LONGITUDE	c	LEG-SHIP
#									
1722	240298		CAXX	B POPS	TAMU	63-05.00S	169-52.99W	g	KIWI09RR
1850	240298		CAXX	E POPS	TAMU	63-05.00S	169-53.00W	g	KIWI09RR
0439	250298		CAXX	B POPS	TAMU	63-05.00S	169-53.00W	g	KIWI09RR
0522	250298		CAXX	E POPS	TAMU	63-05.00S	169-53.00W	g	KIWI09RR
1604	250298		CAXX	B POPS	TAMU	63-04.99S	169-52.99W	g	KIWI09RR
1622	250298		CAXX	E POPS	TAMU	63-04.99S	169-53.00W	g	KIWI09RR
1627	250298		CAXX	B POPS	TAMU	63-04.99S	169-53.00W	g	KIWI09RR
1728	250298		CAXX	E POPS	TAMU	63-05.00S	169-53.00W	g	KIWI09RR
0935	260298		CAXX	B POPS	TAMU	64-42.00S	169-19.98W	g	KIWI09RR
1010	260298		CAXX	E POPS	TAMU	64-42.00S	169-19.99W	g	KIWI09RR
1830	260298		CAXX	B POPS	TAMU	66-05.99S	168-40.29W	g	KIWI09RR
1901	260298		CAXX	E POPS	TAMU	66-05.99S	168-40.29W	g	KIWI09RR
0733	270298		CAXX	B POPS	TAMU	66-06.00S	168-40.30W	g	KIWI09RR
0808	270298		CAXX	E POPS	TAMU	66-06.00S	168-40.29W	g	KIWI09RR
1907	270298		CAXX	B POPS	TAMU	66-05.98S	168-40.30W	g	KIWI09RR
1940	270298		CAXX	E POPS	TAMU	66-06.00S	168-40.36W	g	KIWI09RR
0717	020398		CAXX	B POPS	TAMU	70-24.06S	165-54.84W	g	KIWI09RR
0754	020398		CAXX	E POPS	TAMU	70-24.11S	165-54.68W	g	KIWI09RR
1803	020398		CAXX	B POPS	TAMU	70-24.01S	165-54.88W	g	KIWI09RR
1834	020398		CAXX	E POPS	TAMU	70-24.01S	165-54.88W	g	KIWI09RR
0708	030398		CAXX	B POPS	TAMU	70-24.01S	165-54.88W	g	KIWI09RR
0737	030398		CAXX	E POPS	TAMU	70-24.01S	165-54.88W	g	KIWI09RR
1800	030398		CAXX	B POPS	TAMU	70-24.45S	165-55.47W	g	KIWI09RR
1831	030398		CAXX	E POPS	TAMU	70-24.45S	165-55.47W	g	KIWI09RR
0237	040398		CAXX	B POPS	TAMU	70-24.61S	165-57.23W	g	KIWI09RR
0307	040398		CAXX	E POPS	TAMU	70-24.61S	165-57.24W	g	KIWI09RR
1417	040398		CAXX	B POPS	TAMU	71-18.42S	165-57.44W	g	KIWI09RR
1447	040398		CAXX	E POPS	TAMU	71-18.42S	165-57.44W	g	KIWI09RR
0500	050398		CAXX	B POPS	TAMU	69-18.00S	168-22.00W	g	KIWI09RR
0531	050398		CAXX	E POPS	TAMU	69-18.00S	168-22.00W	g	KIWI09RR
1737	050398		CAXX	B POPS	TAMU	69-18.00S	168-22.00W	g	KIWI09RR
1826	050398		CAXX	E POPS	TAMU	69-18.00S	168-21.99W	g	KIWI09RR
0713	060398		CAXX	B POPS	TAMU	69-17.99S	168-21.99W	g	KIWI09RR
0834	060398		CAXX	E POPS	TAMU	69-17.99S	168-21.99W	g	KIWI09RR
1528	060398		CAXX	B POPS	TAMU	69-18.00S	168-21.97W	g	KIWI09RR
1601	060398		CAXX	E POPS	TAMU	69-18.00S	168-22.00W	g	KIWI09RR

#GMT #TIME #	DDMMYY DATE	SAMP TZ	B CODE	SAMPLE E IDENTIFIER	DISP CODE	LATITUDE	LONGITUDE	p c	CRUISE LEG-SHIP
0450	070398		CAXX	B POPS	TAMU	67-29.99S	170-00.01W	g	KIWI09RR
0537	070398		CAXX	E POPS	TAMU	67-30.00S	170-00.00W	g	KIWI09RR
1442	070398		CAXX	B POPS	TAMU	66-06.00S	169-40.30W	g	KIWI09RR
1602	070398		CAXX	E POPS	TAMU	66-06.00S	169-40.30W	g	KIWI09RR
0641	080398		CAXX	B POPS	TAMU	64-42.00S	169-19.99W	g	KIWI09RR
0712	080398		CAXX	E POPS	TAMU	64-42.00S	169-20.00W	g	KIWI09RR
1628	080398		CAXX	B POPS	TAMU	64-41.98S	169-19.93W	g	KIWI09RR
1749	080398		CAXX	E POPS	TAMU	64-41.99S	169-19.99W	g	KIWI09RR
0236	090398		CAXX	B POPS	TAMU	64-41.99S	169-19.99W	g	KIWI09RR
0355	090398		CAXX	E POPS	TAMU	64-41.99S	169-19.99W	g	KIWI09RR
1636	090398		CAXX	B POPS	TAMU	63-05.00S	169-52.99W	g	KIWI09RR
1759	090398		CAXX	E POPS	TAMU	63-05.00S	169-52.99W	g	KIWI09RR
0638	100398		CAXX	B POPS	TAMU	61-40.00S	170-06.00W	g	KIWI09RR
0757	100398		CAXX	E POPS	TAMU	61-40.00S	170-06.00W	g	KIWI09RR
1802	100398		CAXX	B POPS	TAMU	61-39.99S	170-05.98W	g	KIWI09RR
1833	100398		CAXX	E POPS	TAMU	61-40.00S	170-06.01W	g	KIWI09RR
1527	110398		CAXX	B POPS	TAMU	61-39.99S	170-06.00W	g	KIWI09RR
1951	110398		CAXX	E POPS	TAMU	61-40.00S	170-06.00W	g	KIWI09RR
1442	120398		CAXX	B POPS	TAMU	60-14.00S	170-05.99W	g	KIWI09RR
1510	120398		CAXX	E POPS	TAMU	60-14.00S	170-05.99W	g	KIWI09RR
0243	130398		CAXX	B POPS	TAMU	58-30.01S	169-59.98W	g	KIWI09RR
0405	130398		CAXX	E POPS	TAMU	58-30.00S	170-00.00W	g	KIWI09RR
0407	130398		CAXX	B POPS	TAMU	58-30.00S	170-00.00W	g	KIWI09RR
0436	130398		CAXX	E POPS	TAMU	58-30.00S	170-00.00W	g	KIWI09RR
1559	130398		CAXX	B POPS	TAMU	56-50.99S	170-09.99W	g	KIWI09RR
1629	130398		CAXX	E POPS	TAMU	56-51.00S	170-10.00W	g	KIWI09RR
1546	140398		CAXX	B POPS	TAMU	54-19.99S	173-19.99W	g	KIWI09RR
1615	140398		CAXX	E POPS	TAMU	54-20.00S	173-20.00W	g	KIWI09RR
0453	150398		CAXX	B POPS	TAMU	54-19.99S	173-20.00W	g	KIWI09RR
0527	150398		CAXX	E POPS	TAMU	54-19.99S	173-19.99W	g	KIWI09RR
2055	150398		CAXX	B POPS	TAMU	52-58.05S	174-43.75W	g	KIWI09RR
2132	150398		CAXX	E POPS	TAMU	52-58.09S	174-43.62W	g	KIWI09RR

**** Open Nets - LUMCON ****

2300	150298		ONBG	B Bongo Net		SIX	52-59.17S	174-43.99W	g	KIWI09RR
2327	150298		ONBG	E Bongo Net	200M	SIX	52-59.78S	174-44.01W	g	KIWI09RR
1035	160298		ONBG	B Bongo Net		SIX	53-00.85S	174-43.06W	g	KIWI09RR
1104	160298		ONBG	E Bongo Net	200M	SIX	53-01.43S	174-42.89W	g	KIWI09RR

#GMT #TIME #	DDMMYY DATE	TZ	SAMP CODE	B E	SAMPLE IDENTIFIER	DISP CODE	LATITUDE	LONGITUDE	P c	CRUISE LEG-SHIP
1032	170298		ONBG	B	Bongo Net	SIX	53-20.78S	174-44.99W	g	KIWI09RR
1103	170298		ONBG	E	Bongo Net	200M SIX	53-20.78S	174-45.00W	g	KIWI09RR
0959	180298		ONBG	B	Bongo Net	SIX	56-50.99S	170-09.98W	g	KIWI09RR
1026	180298		ONBG	E	Bongo Net	200M SIX	56-50.99S	170-09.97W	g	KIWI09RR
1435	180298		ONBG	B	Bongo Net	SIX	56-50.99S	170-09.98W	g	KIWI09RR
1508	180298		ONBG	E	Bongo Net	200M SIX	56-50.99S	170-09.99W	g	KIWI09RR
1752	180298		ONBG	B	Bongo net	SIX	56-50.99S	170-09.98W	g	KIWI09RR
1826	180298		ONBG	E	Bongo Net	200M SIX	56-50.99S	170-09.98W	g	KIWI09RR
2305	180298		ONBG	B	Bongo Net	SIX	56-50.96S	170-09.79W	g	KIWI09RR
2337	180298		ONBG	E	Bongo Net	200M SIX	56-50.94S	170-09.78W	g	KIWI09RR
0328	190298		ONBG	B	Bongo net	SIX	56-50.99S	170-09.98W	g	KIWI09RR
0357	190298		ONBG	E	Bongo Net	200M SIX	56-51.00S	170-10.00W	g	KIWI09RR
2254	190298		ONBG	B	Bongo Net	SIX	56-50.88S	170-09.80W	g	KIWI09RR
2320	190298		ONBG	E	Bongo Net	200M SIX	56-50.88S	170-09.81W	g	KIWI09RR
1025	210298		ONBG	B	Bongo Net	SIX	60-14.00S	170-04.00W	g	KIWI09RR
1055	210298		ONBG	E	Bongo Net	200M SIX	60-14.00S	170-04.00W	g	KIWI09RR
2227	210298		ONBG	B	Bongo Net	SIX	60-14.00S	170-04.00W	g	KIWI09RR
2301	210298		ONBG	E	Bongo Net	200M SIX	60-13.99S	170-03.97W	g	KIWI09RR
1005	220298		ONBG	B	Bongo Net	SIX	60-14.00S	170-04.00W	g	KIWI09RR
1035	220298		ONBG	E	Bongo Net	200M SIX	60-13.99S	170-03.99W	g	KIWI09RR
0121	240298		ONBG	B	Bongo Net	SIX	63-04.99S	169-52.99W	g	KIWI09RR
0152	240298		ONBG	E	Bongo Net	200M SIX	63-04.99S	169-53.00W	g	KIWI09RR
0532	240298		ONBG	B	Bongo Net	SIX	63-05.00S	169-53.00W	g	KIWI09RR
0601	240298		ONBG	E	Bongo Net	200M SIX	63-05.00S	169-53.00W	g	KIWI09RR
1115	240298		ONBG	B	Bongo Net	SIX	63-05.00S	169-53.00W	g	KIWI09RR
1147	240298		ONBG	E	Bongo Net	200M SIX	63-04.99S	169-52.99W	g	KIWI09RR
1432	240298		ONBG	B	Bongo Net	SIX	63-05.00S	169-52.99W	g	KIWI09RR
1500	240298		ONBG	E	Bongo Net	200M SIX	63-05.00S	169-52.99W	g	KIWI09RR
1901	240298		ONBG	B	Bongo Net	SIX	63-05.00S	169-53.00W	g	KIWI09RR
1933	240298		ONBG	E	Bongo Net	200M SIX	63-05.00S	169-53.00W	g	KIWI09RR
2322	240298		ONBG	B	Bongo Net	SIX	63-05.01S	169-53.00W	g	KIWI09RR
2353	240298		ONBG	E	Bongo Net	200M SIX	63-05.00S	169-52.99W	g	KIWI09RR
1115	250298		ONBG	B	Bongo Net	SIX	63-05.00S	169-53.00W	g	KIWI09RR
1142	250298		ONBG	E	Bongo Net	200M SIX	63-05.00S	169-53.00W	g	KIWI09RR
2240	250298		ONBG	B	Bongo Net	SIX	63-04.99S	169-52.99W	g	KIWI09RR
2313	250298		ONBG	E	Bongo Net	200M SIX	63-04.99S	169-53.00W	g	KIWI09RR
2255	260298		ONBG	B	Bongo Net	SIX	66-05.99S	168-40.29W	g	KIWI09RR
2325	260298		ONBG	E	Bongo Net	200M SIX	66-05.99S	168-40.29W	g	KIWI09RR
1103	270298		ONBG	B	Bongo Net	SIX	66-05.99S	168-40.29W	g	KIWI09RR
1131	270298		ONBG	E	Bongo Net	200M SIX	66-05.99S	168-40.29W	g	KIWI09RR
1052	010398		ONBG	B	Bongo Net	SIX	69-17.75S	168-21.96W	g	KIWI09RR
1123	010398		ONBG	E	Bongo Net	200M SIX	69-17.72S	168-21.91W	g	KIWI09RR

#GMT	DDMMYY	SAMP B	SAMPLE	DISP				p	CRUISE
#TIME	DATE	TZ	CODE E IDENTIFIER	CODE	LATITUDE	LONGITUDE		c	LEG-SHIP
#									
1042	020398		ONBG B Bongo Net		SIX	70-24.05S	165-54.84W	g	KIWI09RR
1112	020398		ONBG E Bongo Net	200M	SIX	70-24.05S	165-54.86W	g	KIWI09RR
2234	020398		ONBG B Bongo Net		SIX	70-24.01S	165-54.88W	g	KIWI09RR
2301	020398		ONBG E Bongo Net	200M	SIX	70-24.01S	165-54.83W	g	KIWI09RR
1036	030398		ONBG B Bongo Net		SIX	70-24.45S	165-55.46W	g	KIWI09RR
1105	030398		ONBG E Bongo Net	200M	SIX	70-24.45S	165-55.45W	g	KIWI09RR
1145	040398		ONBG B Bongo Net		SIX	71-18.95S	166-00.49W	g	KIWI09RR
1220	040398		ONBG E Bongo Net	200M	SIX	71-18.93S	166-00.40W	g	KIWI09RR
1030	050398		ONBG B Bongo Net		SIX	69-18.00S	168-22.00W	g	KIWI09RR
1101	050398		ONBG E Bongo Net	200M	SIX	69-18.00S	168-21.99W	g	KIWI09RR
2227	050398		ONBG B Bongo Net		SIX	69-18.00S	168-22.00W	g	KIWI09RR
2257	050398		ONBG E Bongo Net	200M	SIX	69-18.00S	168-22.00W	g	KIWI09RR
1032	060398		ONBG B Bongo Net		SIX	69-17.98S	168-22.12W	g	KIWI09RR
1058	060398		ONBG E Bongo Net	200M	SIX	69-17.99S	168-21.98W	g	KIWI09RR
1103	080398		ONBG B Bongo Net		SIX	64-42.00S	169-20.00W	g	KIWI09RR
1135	080398		ONBG E Bongo Net	200M	SIX	64-42.00S	169-19.99W	g	KIWI09RR
2355	080398		ONBG B Bongo Net		SIX	64-41.99S	169-19.99W	g	KIWI09RR
0023	090398		ONBG E Bongo Net	200M	SIX	64-41.99S	169-19.98W	g	KIWI09RR
1029	100398		ONBG B Bongo Net		SIX	61-40.00S	170-06.00W	g	KIWI09RR
1053	100398		ONBG E Bongo Net	200M	SIX	61-40.00S	170-06.00W	g	KIWI09RR
1220	100398		ONBG B Bongo Net		SIX	61-40.00S	170-06.00W	g	KIWI09RR
0001	110398		ONBG E Bongo Net	200M	SIX	61-40.00S	170-05.99W	g	KIWI09RR
1036	110398		ONBG B Bongo Net		SIX	61-39.98S	170-06.01W	g	KIWI09RR
1103	110398		ONBG E Bongo Net	200M	SIX	61-40.00S	170-05.99W	g	KIWI09RR
1350	140398		ONBG B Bongo Net		SIX	54-20.00S	173-20.00W	g	KIWI09RR
1421	140398		ONBG E Bongo Net	200M	SIX	54-20.00S	173-20.00W	g	KIWI09RR
2259	140398		ONBG B Bongo Net		SIX	54-19.99S	173-19.99W	g	KIWI09RR
2331	140398		ONBG E Bongo Net	200M	SIX	54-19.99S	173-20.00W	g	KIWI09RR