

*Report and Index of
Underway Marine Geophysical Data*

Hahnaro Expedition

Leg 15

(HNRO15RR)

R/V Revelle

(Issued August 2000)

Ports:

Pusan, Korea (13 March 2000)

to

Pusan, Korea (26 March 2000)

Chief Scientist:

Henry Perkins, Naval Research Lab.

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Computer Tech - Ron Moe

Resident Marine Tech - Eugene Pillard

Post-Cruise processing and report preparation by the
Geological Data Center, Scripps Institution of Oceanography
La Jolla, CA 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 ID# 285

**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

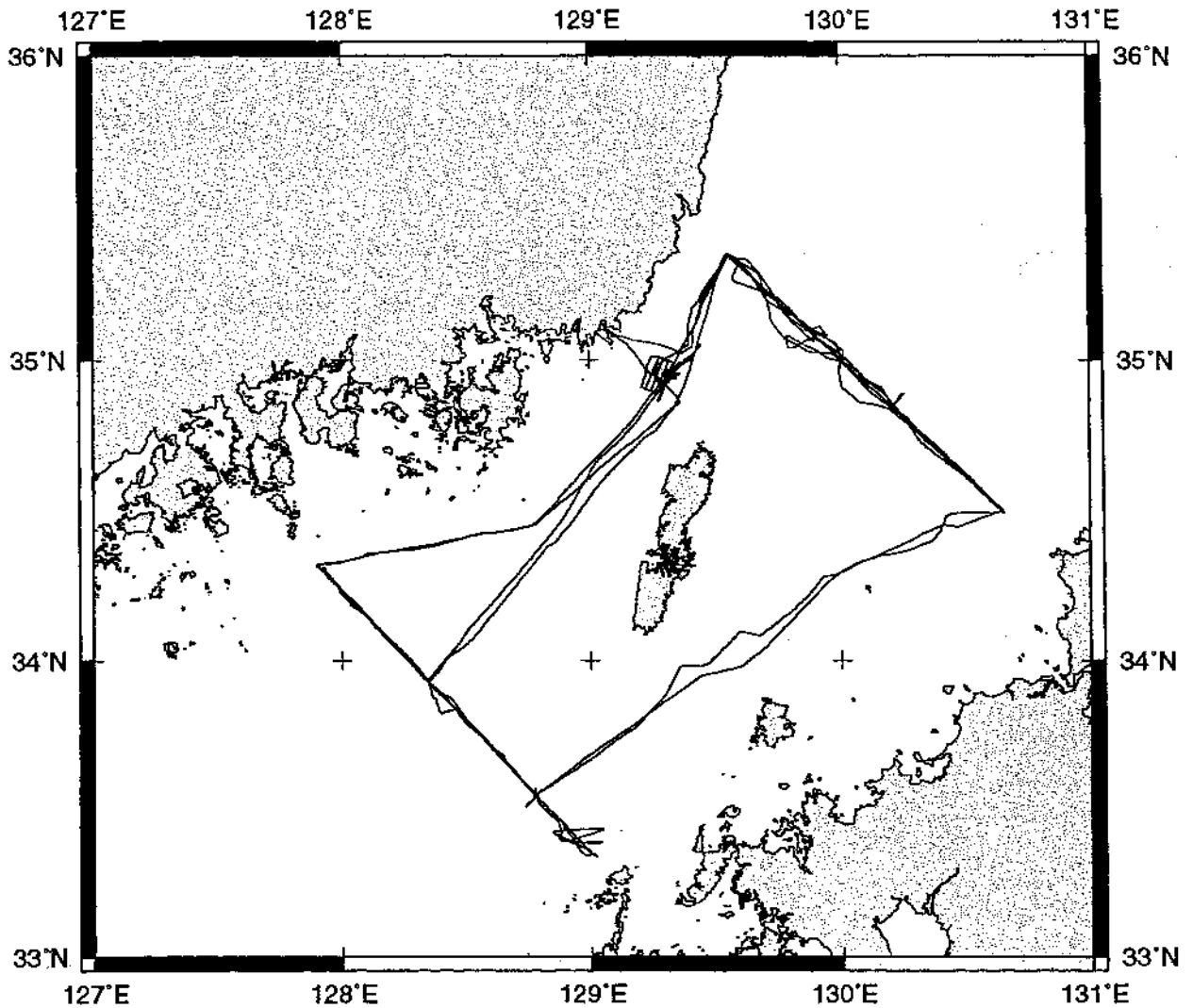
Profiles – depth, magnetic and gravity free air anomaly vs. distance. (Sections of track with seismic reflection data have a wide black line along the bottom of the profile.)

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 the Geological Data Center, Scripps Institution of Oceanography, La Jolla, California 92093-0223. Phone: (858)534-2752, Fax: (858)534-6500, internet email: ualbright@ucsd.edu or gwells@ucsd.edu

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

Rev 6/2000



HAHNARO EXPEDITION LEG 15 (HNRO15RR)

CHIEF SCIENTIST: Henry Perkins, Naval Research Laboratory

PORTS: Pusan - Pusan, South Korea

DATES: 13 -26 March 2000

SHIP: R/V Revelle

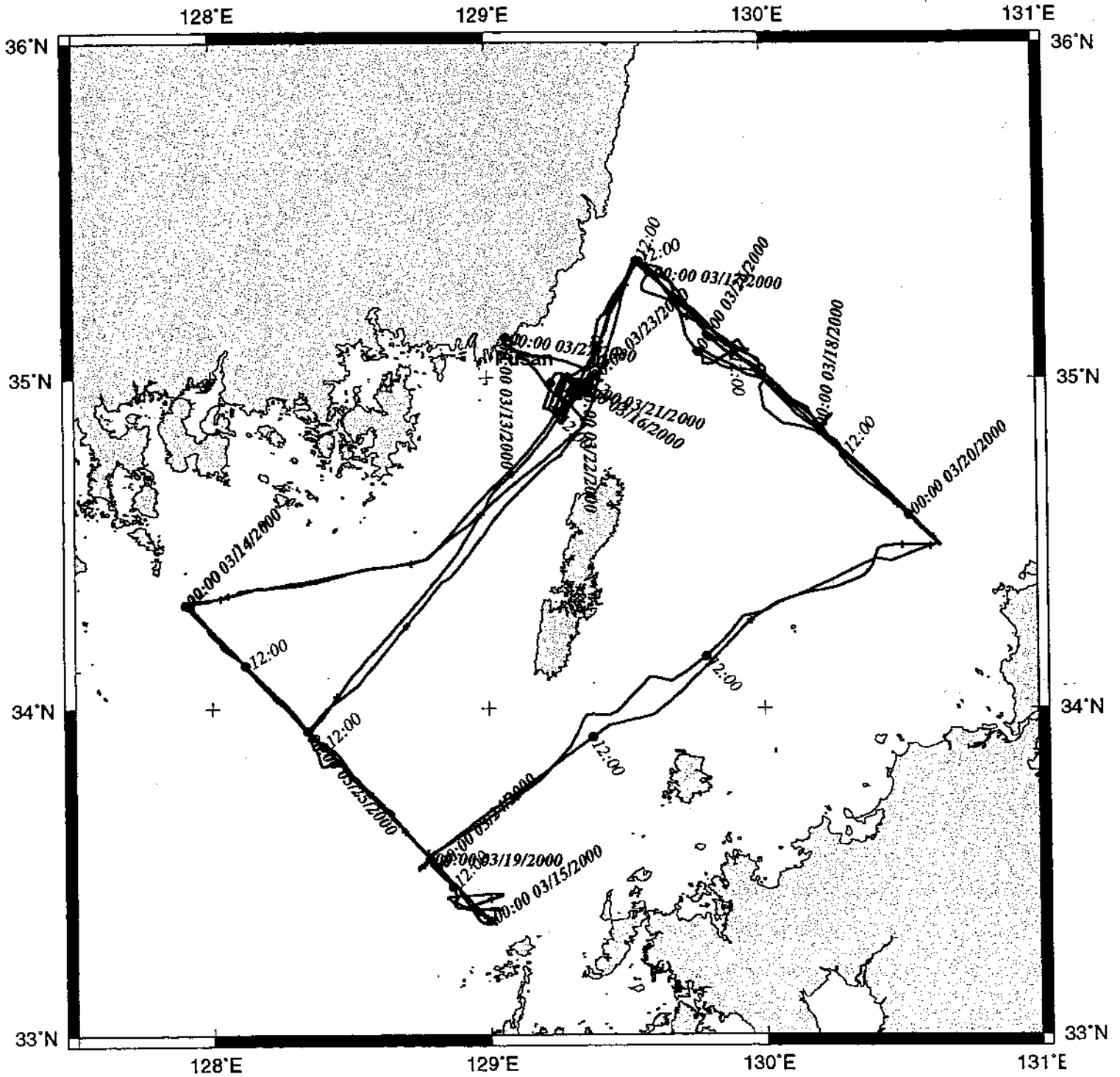
TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

Cruise-1751 miles Magnetics-none collected

Bathymetry-none collected Seismic Reflection-none collected

Sea Beam-none collected Gravity-none collected

HAHNARO Leg 15 Track



S.I.O. Sample Index

Hahnaro Expedition

Leg 15

(HNRO15RR)

R/V Revelle

(Issued August 2000)

PORTS:

Pusan, Korea (13 March 2000)

to

Pusan, Korea (26 March 2000)

Chief Scientist:

Henry Perkins, Naval Research Lab.

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 ID# 285

#*** PORTS ***

0318	130300	0	LGPT B	Pusan, Korea	35-06.00N	129-03.00E	f	HNRO15RR
2354	260300	0	LGPT E	Pusan, Korea	35-06.00N	129-03.00E	f	HNRO15RR

#*** PERSONNEL ***

#	*****NAME*****	*****TITLE*****	*****AFFILIATION*****	**CRID**
PECS NRL	Perkins, H.	Chief Scientist	Naval Research Lab	HNRO15RR
PECS SIX	Bartloi, G.	Contractor	Protoco Italy	HNRO15RR
PECS NRL	Burge, R.	Scientist	Naval Research Lab	HNRO15RR
PESP SIX	Chang, K-I	Scientist	Korean Oceanographic	HNRO15RR
PESP NAVO	Cumbee, C.	Oceanographer	Naval Oceanographic	HNRO15RR
PESP NRL	Hogan, P.	Oceanographer	Naval Research Lab	HNRO15RR
PESP NRL	Hulburt, M.	Electronics Tech	Naval Research Lab	HNRO15RR
PESP SIX	Jung, H-W	Graduate assist.	Hwangju Univ.	HNRO15RR
PESP NRL	Kennedy, D.	Oceanographer	Naval Research Lab	HNRO15RR
PESP SIX	Kim, C-C.	Graduate assist.	Chonnam Univ.	HNRO15RR
PESP NAVO	Korreckt, B.	Technician	Naval Oceanographic	HNRO15RR
PESP NAVO	Leybourne, B.	Technician	Naval Oceanographic	HNRO15RR
PESP NAVO	Lizana, G.	Technician	Naval Oceanographic	HNRO15RR
PESP NAVO	Morales, A.	Technician	Naval Oceanographic	HNRO15RR
PECT STS	Moe, R.	Computer Tech	Scripps Institution	HNRO15RR
PERT STS	Pillard, E.	Resident Tech	Scripps Institution	HNRO15RR

#*** 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 - Geological Data Center ext. 41899 ***

#*** Acoustic Doppler Current Profiler ***

1218	130300	9	ADCP B	continous logged	GDC	34-51.28N	129-13.30E	g	HNRO15RR
2354	260300	0	ADCP E	adcp measurements	GDC	35-07.19N	129-04.25E	g	HNRO15RR

#*** Temperature, Conductivity, Depth ***

#** Samples shared between NAVO AND KORDI ***

#** NAVO = Naval Oceanographic Office **

#** KORDI = Korean Oceanographic Research & Development Institute **

1020	130300	0	TDCT B	ctd with 24 btls	SIX	34-57.53N	129-20.40E	g	HNRO15RR
1054	130300	0	TDCT E	ts n d <150m	SIX	34-57.52N	129-20.43E	g	HNRO15RR
0042	150300	0	TDCT B	ctd with 24 btls	SIX	33-21.00N	129-00.00E	g	HNRO15RR
0110	150300	0	TDCT E	ts n d <150m	SIX	33-21.00N	128-59.99E	g	HNRO15RR
0219	150300	0	TDCT B	ctd with 24 btls	SIX	33-26.72N	128-53.46E	g	HNRO15RR
0236	150300	0	TDCT E	ts n d <150m	SIX	33-26.73N	128-53.46E	g	HNRO15RR
0336	150300	0	TDCT B	ctd with 24 btls	SIX	33-32.42N	128-46.81E	g	HNRO15RR
0404	150300	0	TDCT E	ts n d <150m	SIX	33-32.41N	128-46.81E	g	HNRO15RR

#	GMT	DDMMYY	SAMP	B	SAMPLE	DISP	LATITUDE	LONGITUDE	P	CRUISE
#	TIME	DATE	TZ	CODE	E IDENTIFIER	CODE			C	LEG-SHIP
#										
0457	150300	0	TDCT	B	ctd with 24 btls	SIX	33-38.42N	128-40.19E	g	HNRO15RR
0510	150300	0	TDCT	E	ts n d <150m	SIX	33-38.42N	128-40.19E	g	HNRO15RR
0606	150300	0	TDCT	B	ctd with 24 btls	SIX	33-44.42N	128-33.63E	g	HNRO15RR
0630	150300	0	TDCT	E	ts n d <150m	SIX	33-44.41N	128-33.62E	g	HNRO15RR
0737	150300	0	TDCT	B	ctd with 24 btls	SIX	33-50.13N	128-27.02E	g	HNRO15RR
0751	150300	0	TDCT	E	ts n d <150m	SIX	33-50.13N	128-27.02E	g	HNRO15RR
0910	150300	0	TDCT	B	ctd with 24 btls	SIX	33-55.82N	128-20.40E	g	HNRO15RR
0928	150300	0	TDCT	E	ts n d <150m	SIX	33-55.82N	128-20.40E	g	HNRO15RR
1034	150300	0	TDCT	B	ctd with 24 btls	SIX	34-01.85N	128-13.80E	g	HNRO15RR
1050	150300	0	TDCT	E	ts n d <150m	SIX	34-01.86N	128-13.78E	g	HNRO15RR
1157	150300	0	TDCT	B	ctd with 24 btls	SIX	34-07.78N	128-07.16E	g	HNRO15RR
1224	150300	0	TDCT	E	ts n d <150m	SIX	34-07.78N	128-07.17E	g	HNRO15RR
1332	150300	0	TDCT	B	ctd with 24 btls	SIX	34-13.49N	128-00.60E	g	HNRO15RR
1343	150300	0	TDCT	E	ts n d <150m	SIX	34-13.49N	128-00.60E	g	HNRO15RR
1454	150300	0	TDCT	B	ctd with 24 btls	SIX	34-19.33N	127-54.00E	g	HNRO15RR
1505	150300	0	TDCT	E	ts n d <150m	SIX	34-19.33N	127-54.00E	g	HNRO15RR
0918	170300	0	TDCT	B	ctd with 24 btls	SIX	35-00.61N	129-59.42E	g	HNRO15RR
0945	170300	0	TDCT	E	ts n d <150m	SIX	35-00.61N	129-59.43E	g	HNRO15RR
1116	170300	0	TDCT	B	ctd with 24 btls	SIX	35-05.05N	129-56.86E	g	HNRO15RR
1135	170300	0	TDCT	E	ts n d <150m	SIX	35-05.05N	129-56.86E	g	HNRO15RR
2212	190300	0	TDCT	B	ctd with 24 btls	SIX	34-30.00N	130-39.00E	g	HNRO15RR
2258	190300	0	TDCT	E	ts n d <150m	SIX	34-30.00N	130-39.00E	g	HNRO15RR
0001	200300	0	TDCT	B	ctd with 24 btls	SIX	34-35.11N	130-32.28E	g	HNRO15RR
0018	200300	0	TDCT	E	ts n d <150m	SIX	34-35.11N	130-32.28E	g	HNRO15RR
0112	200300	0	TDCT	B	ctd with 24 btls	SIX	34-40.20N	130-25.82E	g	HNRO15RR
0136	200300	0	TDCT	E	ts n d <150m	SIX	34-40.20N	130-25.82E	g	HNRO15RR
0226	200300	0	TDCT	B	ctd with 24 btls	SIX	34-45.31N	130-19.20E	g	HNRO15RR
0243	200300	0	TDCT	E	ts n d <150m	SIX	34-45.30N	130-19.20E	g	HNRO15RR
0339	200300	0	TDCT	B	ctd with 24 btls	SIX	34-50.51N	130-12.56E	g	HNRO15RR
0400	200300	0	TDCT	E	ts n d <150m	SIX	34-50.51N	130-12.56E	g	HNRO15RR
0500	200300	0	TDCT	B	ctd with 24 btls	SIX	34-55.52N	130-05.99E	g	HNRO15RR
0520	200300	0	TDCT	E	ts n d <150m	SIX	34-55.52N	130-05.99E	g	HNRO15RR
0612	200300	0	TDCT	B	ctd with 24 btls	SIX	35-00.47N	130-00.59E	g	HNRO15RR
0636	200300	0	TDCT	E	ts n d <150m	SIX	35-00.47N	130-00.59E	g	HNRO15RR
0740	200300	0	TDCT	B	ctd with 24 btls	SIX	35-06.27N	129-51.86E	g	HNRO15RR
0756	200300	0	TDCT	E	ts n d <150m	SIX	35-06.27N	129-51.86E	g	HNRO15RR
0856	200300	0	TDCT	B	ctd with 24 btls	SIX	35-11.94N	129-44.51E	g	HNRO15RR
0927	200300	0	TDCT	E	ts n d <150m	SIX	35-11.94N	129-44.51E	g	HNRO15RR
1025	200300	0	TDCT	B	ctd with 24 btls	SIX	35-16.50N	129-38.69E	g	HNRO15RR
1049	200300	0	TDCT	E	ts n d <150m	SIX	35-16.50N	129-38.69E	g	HNRO15RR
1145	200300	0	TDCT	B	ctd with 24 btls	SIX	35-21.00N	129-33.02E	g	HNRO15RR
1212	200300	0	TDCT	E	ts n d <150m	SIX	35-21.00N	129-33.02E	g	HNRO15RR

#GMT	DDMMYY	SAMP	B	SAMPLE	DISP		P	CRUISE
#TIME	DATE	TZ	CODE	E IDENTIFIER	CODE	LATITUDE	LONGITUDE	C LEG-SHIP
#								
1030	230300	0	TDCT	B ctd with 24 btls	SIX	33-55.86N	128-20.36E	g HNRO15RR
1100	230300	0	TDCT	E ts n d <150m	SIX	33-55.86N	128-20.36E	g HNRO15RR
2112	230300	0	TDCT	B ctd with 24 btls	SIX	33-20.86N	129-00.22E	g HNRO15RR
2135	230300	0	TDCT	E ts N d <150m	SIX	33-20.85N	129-00.22E	g HNRO15RR
2255	230300	0	TDCT	B ctd with 24 btls	SIX	33-26.70N	128-53.48E	g HNRO15RR
2315	230300	0	TDCT	E ts n d <150m	SIX	33-26.67N	128-53.45E	g HNRO15RR
0021	240300	0	TDCT	B ctd with 24 btls	SIX	33-32.39N	128-46.80E	g HNRO15RR
0046	240300	0	TDCT	E ts n d <150m	SIX	33-32.39N	128-46.80E	g HNRO15RR
0159	240300	0	TDCT	B ctd with 24 btls	SIX	33-38.41N	128-40.17E	g HNRO15RR
0214	240300	0	TDCT	E ts n d <150m	SIX	33-38.41N	128-40.17E	g HNRO15RR
0318	240300	0	TDCT	B ctd with 24 btls	SIX	33-44.44N	128-33.62E	g HNRO15RR
0336	240300	0	TDCT	E ts n d <150m	SIX	33-44.43N	128-33.62E	g HNRO15RR
0448	240300	0	TDCT	B ctd with 24 btls	SIX	33-50.13N	128-27.03E	g HNRO15RR
0504	240300	0	TDCT	E ts n d <150m	SIX	33-50.14N	128-27.04E	g HNRO15RR
0618	240300	0	TDCT	B ctd with 24 btls	SIX	33-55.82N	128-20.41E	g HNRO15RR
0638	240300	0	TDCT	E ts n d <150m	SIX	33-55.82N	128-20.41E	g HNRO15RR
0747	240300	0	TDCT	B ctd with 24 btls	SIX	34-01.80N	128-13.83E	g HNRO15RR
0759	240300	0	TDCT	E ts n d <150m	SIX	34-01.77N	128-13.84E	g HNRO15RR
0915	240300	0	TDCT	B ctd with 24 btls	SIX	34-07.77N	128-07.20E	g HNRO15RR
0934	240300	0	TDCT	E ts n d <150m	SIX	34-07.77N	128-07.21E	g HNRO15RR
1049	240300	0	TDCT	B ctd with 24 btls	SIX	34-13.35N	128-00.76E	g HNRO15RR
1102	240300	0	TDCT	E ts n d <150m	SIX	34-13.34N	128-00.77E	g HNRO15RR
1218	240300	0	TDCT	B ctd with 24 btls	SIX	34-19.20N	127-54.02E	g HNRO15RR
1234	240300	0	TDCT	E ts n d <150m	SIX	34-19.20N	127-54.01E	g HNRO15RR
2335	240300	0	TDCT	B ctd with 24 btls	SIX	33-55.82N	128-20.42E	g HNRO15RR
2348	240300	0	TDCT	E ts n d <150m	SIX	33-55.82N	128-20.42E	g HNRO15RR
1044	250300	0	TDCT	B ctd with 24 btls	SIX	35-20.99N	129-33.04E	g HNRO15RR
1112	250300	0	TDCT	E ts n d <150m	SIX	35-21.00N	129-33.04E	g HNRO15RR

#	GMT #TIME	DDMMYY DATE	SAMP TZ	B CODE	SAMPLE E IDENTIFIER	DISP CODE	LATITUDE	LONGITUDE	P C	CRUISE LEG-SHIP
*** Current Meter Anchored Bottom ***										
*** Recovered from Hahnaro Leg 12 Drops ***										
*** Samples shared between NAVO AND KORDI ***										
*** NAVO = Naval Oceanographic Office **										
*** KORDI = Korean Oceanographic Research & Development Institute **										
0318	130300	0	CMAB	C	moored adcp with	SIX	34-04.00N	129-09.00E	g	HNRO15RR
2341	130300	0	CMAB	E	tide gauge s1	SIX	34-19.12N	127-53.90E	g	HNRO15RR
0318	130300	0	CMAB	C	moored adcp with	SIX	34-04.00N	129-09.00E	g	HNRO15RR
0220	140300	0	CMAB	E	tide gauge s2	SIX	34-07.77N	128-07.20E	g	HNRO15RR
0318	130300	0	CMAB	C	moored adcp with	SIX	34-04.00N	129-09.00E	g	HNRO15RR
0515	140300	0	CMAB	E	tide gauge s3	SIX	33-55.78N	128-20.51E	g	HNRO15RR
0318	130300	0	CMAB	C	moored adcp with	SIX	34-04.00N	129-09.00E	g	HNRO15RR
2327	140300	0	CMAB	E	tide gauge s6	SIX	33-21.11N	128-59.92E	g	HNRO15RR
0318	130300	0	CMAB	C	moored adcp with	SIX	34-04.00N	129-09.00E	g	HNRO15RR
2341	160300	0	CMAB	E	tide gauge n0	SIX	35-18.93N	129-35.92E	g	HNRO15RR
0318	130300	0	CMAB	C	moored adcp with	SIX	34-04.00N	129-09.00E	g	HNRO15RR
0402	170300	0	CMAB	E	tide gauge n2 135m	SIX	35-12.21N	129-44.46E	g	HNRO15RR
0318	130300	0	CMAB	C	moored adcp with	SIX	34-04.00N	129-09.00E	g	HNRO15RR
0717	170300	0	CMAB	E	tide gauge n3	SIX	35-00.55N	129-59.39E	g	HNRO15RR
0318	130300	0	CMAB	C	moored adcp with	SIX	34-04.00N	129-09.00E	g	HNRO15RR
2335	170300	0	CMAB	E	tide gauge n4	SIX	34-50.40N	130-12.60E	g	HNRO15RR
0318	130300	0	CMAB	C	moored adcp with	SIX	34-04.00N	129-09.00E	g	HNRO15RR
0232	180300	0	CMAB	E	tide gauge n5	SIX	34-40.31N	130-25.94E	g	HNRO15RR
0318	130300	0	CMAB	C	moored adcp with	SIX	34-04.00N	129-09.00E	g	HNRO15RR
0504	180300	0	CMAB	E	tide gauge n6	SIX	34-30.05N	130-39.05E	g	HNRO15RR
0318	130300	0	CMAB	C	moored adcp with	SIX	34-04.00N	129-09.00E	g	HNRO15RR
0736	190300	0	CMAB	E	tide gauge s5	SIX	33-32.29N	128-46.58E	g	HNRO15RR
0318	130300	0	CMAB	C	moored adcp with	SIX	34-04.00N	129-09.00E	g	HNRO15RR
2215	200300	0	CMAB	E	tide gauge c1	SIX	34-57.06N	129-15.62E	g	HNRO15RR
0318	130300	0	CMAB	C	moored adcp with	SIX	34-04.00N	129-09.00E	g	HNRO15RR
0106	230300	0	CMAB	E	tide gauge k1	SIX	34-59.33N	129-22.60E	g	HNRO15RR
0318	130300	0	CMAB	C	moored adcp with	SIX	34-04.00N	129-09.00E	g	HNRO15RR
0045	250300	0	CMAB	E	tide gauge s-3b	SIX	33-55.76N	128-20.46E	g	HNRO15RR
***					End Sample Index					HNRO15RR