

*REPORT AND INDEX OF
UNDERWAY MARINE GEOPHYSICAL DATA*

HAHNARO EXPEDITION

LEG 4

(HNRO04RR)

R/V Revelle

(Issued August 1999)

Ports:

Pusan, South Korea (5 May 1999)

to

Pusan, South Korea (13 May 1999)

Chief Scientist:

Henry Perkins, Naval Research Lab.
email:hperkins@nrlssc.navy.mil

Computer Technician - Dan Jacobson
Resident Marine Technician - Gene Pillard

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.# 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.

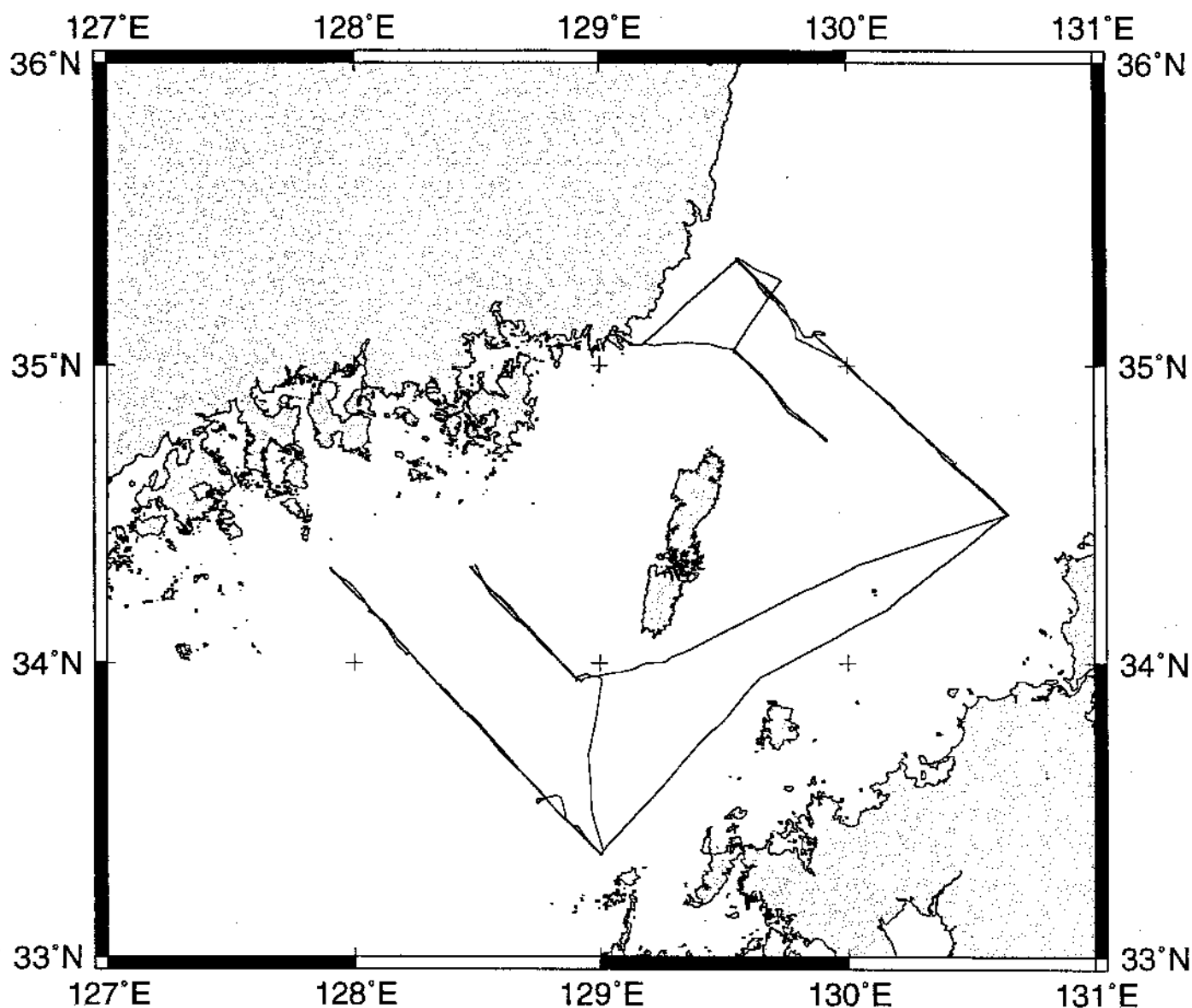
Track Charts - annotated with dates and hour ticks.

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 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.



HAHNARO EXPEDITION LEG 4 (HNRO04RR)

CHIEF SCIENTIST: Henry Perkins, Naval Research Lab.

PORTS: Pusan - Pusan, South Korea

DATES: 05 - 13 May 1999

SHIP: R/V Reville

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

Cruise - 923 miles

Magnetics - none collected

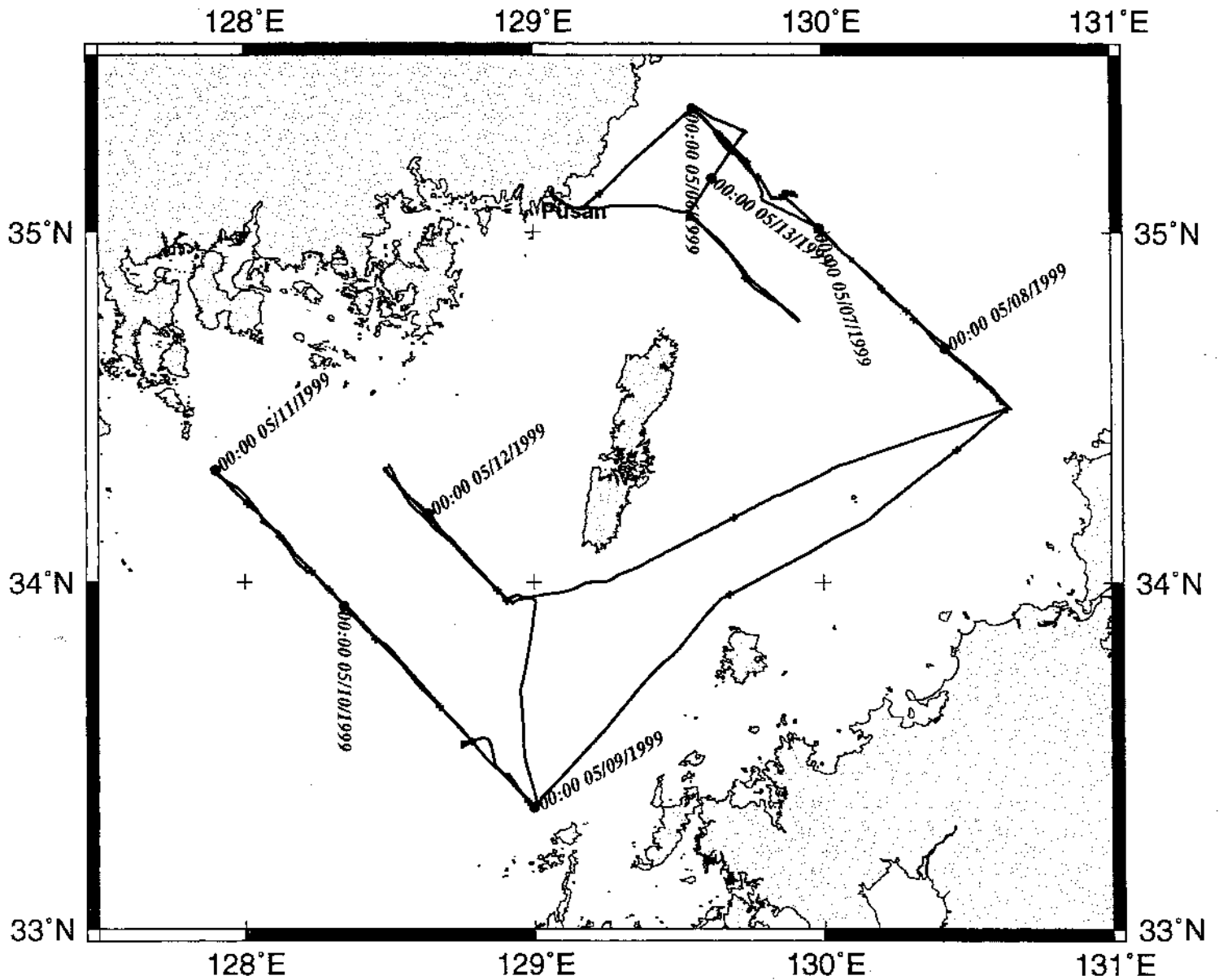
Bathymetry - 350 miles

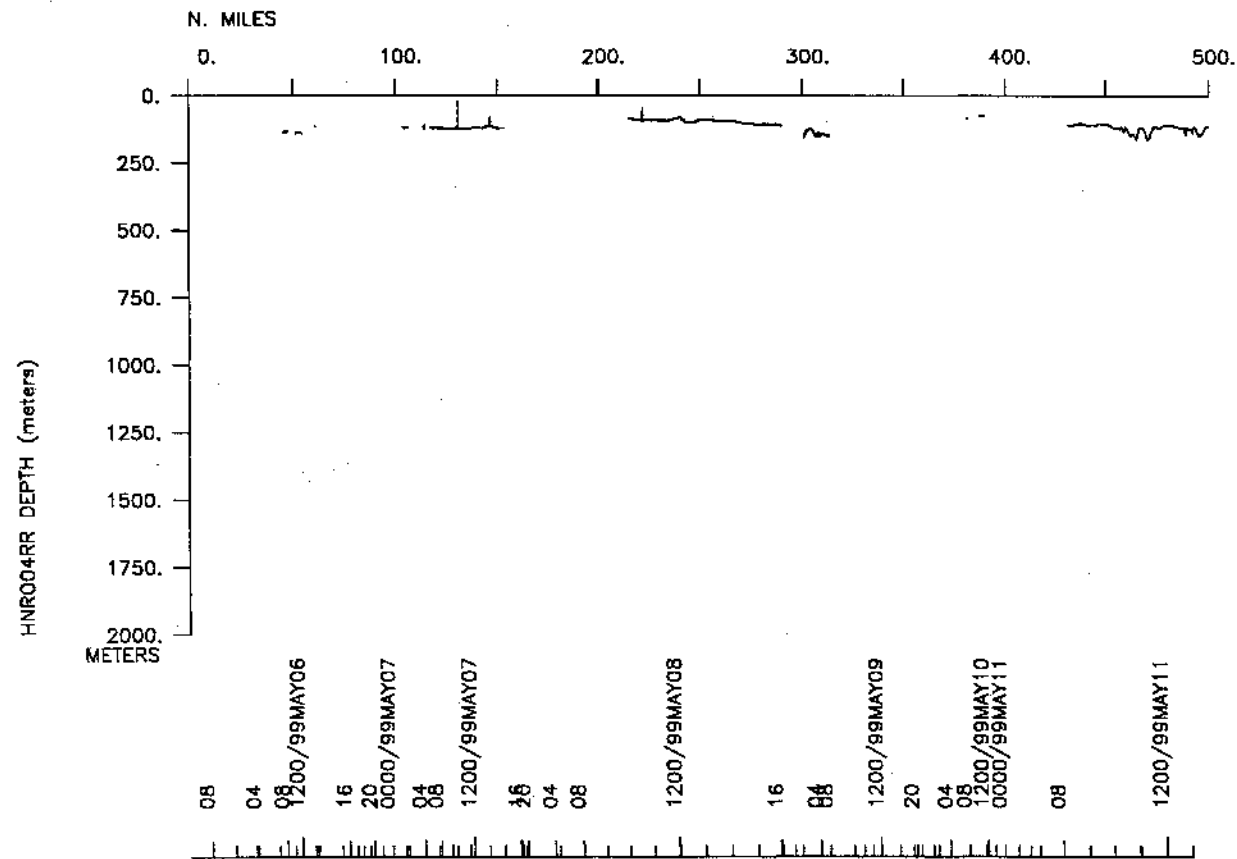
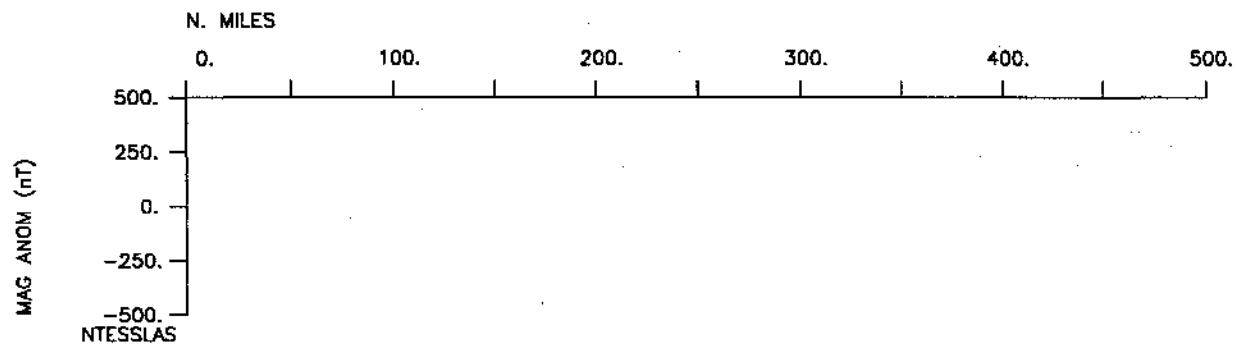
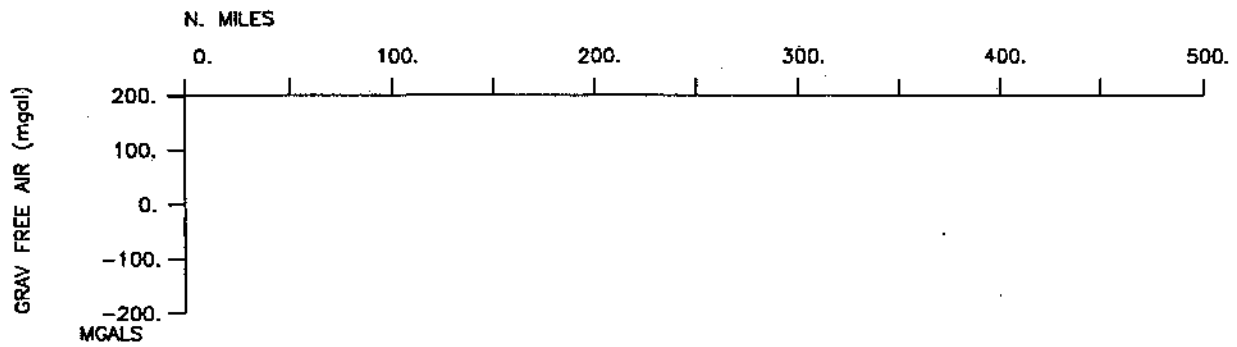
Seismic Reflection - none collected

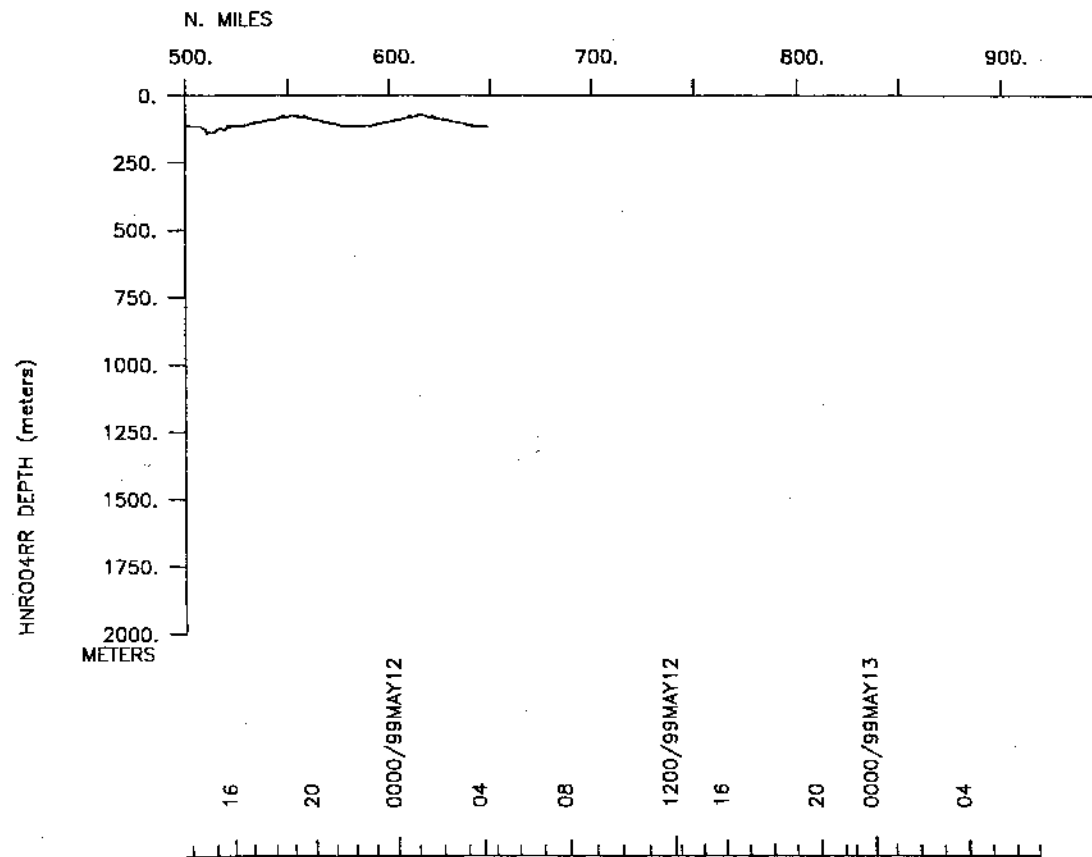
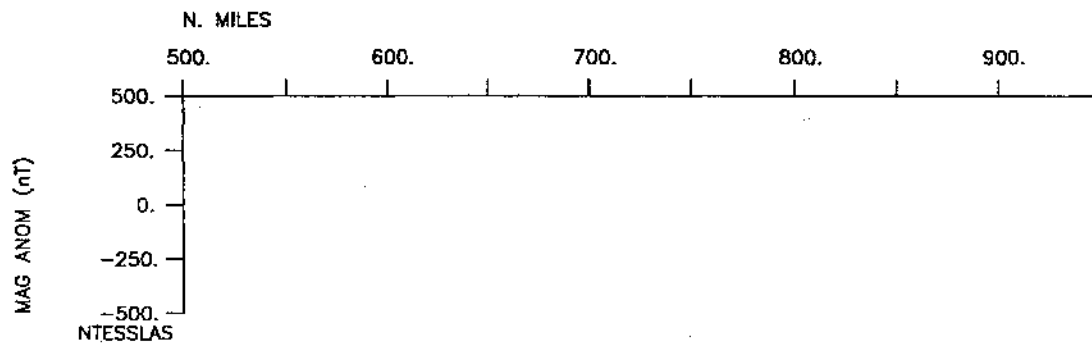
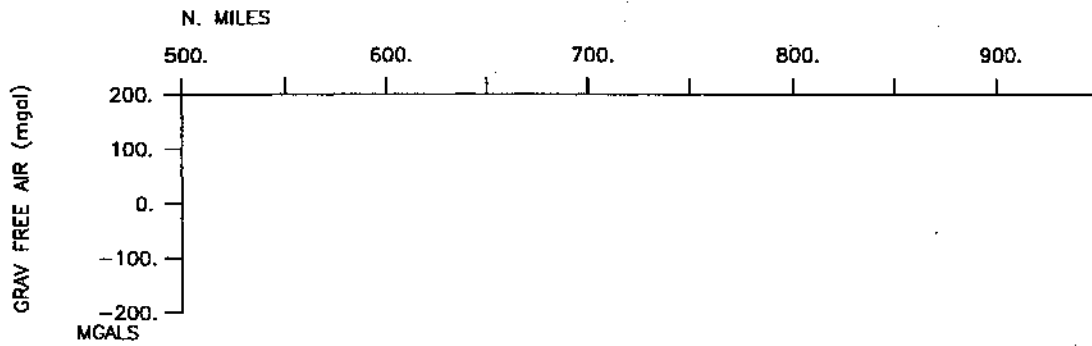
Sea Beam - 350 miles

Gravity - none collected

HAHNARO Leg 4 Track







S.I.O. SAMPLE INDEX

HAHNARO EXPEDITION

LEG 4

(HNRO04RR)

R/V Revelle

(Issued August 1999)

Ports:

Pusan, South Korea (5 May 1999)

to

Pusan, South Korea (13 May 1999)

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 I.D.# 285

**** Ports ***

0648	050599	LGPT B Pusan, Korea	35-04.00N 129-09.00E f	HNRO04RR
2300	130599	LGPT E Pusan, Korea	35-04.00N 129-09.00E f	HNRO04RR

**** Personnel ***

#	*****NAME*****	*****TITLE*****	*****AFFILIATION*****	**CRID**
#---	-----	-----	-----	-----
PECS	NRL Perkins, H.	Chief Scientist	Naval Research Lab	HNRO04RR
PESP	SIX Bartloi, A.	Contractor	Proteco Italy	HNRO04RR
PEVL	SIO Birk, E.	Volunteer	Scripps Institution	HNRO04RR
PESP	SIX Chung, C.	Scientist	Korean Ocean.R&D In.	HNRO04RR
PESP	NAVO Cumbee, C.	Oceanographer	Naval Oceanographic	HNRO04RR
PESP	NRL Hogan, P.	Oceanographer	Naval Research Lab	HNRO04RR
PESP	NRL Hulbaert, M.	Electronics Tech	Naval Research Lab	HNRO04RR
PESP	SIX Jeon, D.	Scientist	Korean Ocean.R&D In.	HNRO04RR
PESP	NRL Kennedy, D.	Oceanographer	Naval Research Lab	HNRO04RR
PESP	NAVO Korreckt, B.	Technician	Naval Oceanographic	HNRO04RR
PESP	SIX Lee, H-W.	Scientist	Korean Ocean.R&D In.	HNRO04RR
PESP	NAVO Leybourne, B.	Technician	Naval Oceanographic	HNRO04RR
PESP	SIX Park, J.K.	Scientist	Korean Ocean.R&D In.	HNRO04RR
PERT	STS Pillard, E.	Resident Tech	Scripps Institution	HNRO04RR
PESP	NRL Pistek, P.	Oceanographer	Naval Research Lab	HNRO04RR
PECT	STS Silver, M.	Computer Tech	Scripps Institution	HNRO04RR
PESP	NAVO Warner, J.	Technician	Naval Oceanographic	HNRO04RR

**** 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 ****

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

0710	060599	0	MBSR	B Digital Seabeam data	GDC	35-12.68N	129-43.02E	g	HNRO04RR
0440	120599	0	MBSR	E Digital Seabeam data	GDC	33-56.65N	128-56.00E	g	HNRO04RR

**** Optical Measurements ***

0648	050599	0	CSXX	B Optical Atenuation	NRL	35-07.18N	129-04.24E	g	HNRO04RR
2300	130599	0	CSXX	E measurement	NRL	35-07.06N	129-04.19E	g	HNRO04RR

**** Pollution ** (Samples go KORD-Korean Oceanographic Reasearch & Development)

0648	050599	0	POSW	B Measurement of NO,	SIX	35-07.18N	129-04.24E	g	HNRO04RR
2300	130599	0	POSW	E SO pollutants	SIX	35-07.06N	129-04.19E	g	HNRO04RR

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

**** Radiometer ****

0600	110599	0	EMXX	B Radiometer	NRL	34-10.35N	128-03.82E	g	HNRO04RR
2300	130599	0	EMXX	E Radiometer	NRL	35-07.06N	129-04.19E	g	HNRO04RR

**** Acoustic Doppler Current Profiler ****

0648	050599	0	ADCP	B ADCP measurements	GDC	35-07.18N	129-04.24E	g	HNRO04RR
2300	130599	0	ADCP	E ADCP measurements	GDC	35-07.18N	129-04.24E	g	HNRO04RR

**** Moored Acoustic Doppler Current Profiler ****

0547	060599	0	ADCP	B Moored ADCP with	NRL	35-21.00N	129-33.00E	g	HNRO04RR
2300	130599	0	ADCP	C tide guage N1 120m	NRL	35-07.06N	129-04.19E	g	HNRO04RR
0918	060599	0	ADCP	B Moored ADCP with	NAVO	35-12.00N	129-44.40E	g	HNRO04RR
2300	130599	0	ADCP	C tide guage N2 135m	NAVO	35-07.06N	129-04.19E	g	HNRO04RR
0045	070599	0	ADCP	B Moored ADCP with	NAVO	35-00.60N	129-59.40E	g	HNRO04RR
2300	130599	0	ADCP	C tide guage N3	NAVO	35-07.06N	129-04.19E	g	HNRO04RR
0558	070599	0	ADCP	B Moored ADCP with	NRL	34-50.40N	130-12.60E	g	HNRO04RR
2300	130599	0	ADCP	C tide guage N4	NRL	35-07.06N	129-04.19E	g	HNRO04RR
0243	080599	0	ADCP	B Moored ADCP with	NRL	34-40.20N	130-25.80E	g	HNRO04RR
2300	130599	0	ADCP	C tide guage N5	NRL	35-07.06N	129-04.19E	g	HNRO04RR
0103	090599	0	ADCP	B Moored ADCP with	NRL	33-21.00N	129-00.00E	g	HNRO04RR
2300	130599	0	ADCP	C tide guage S6	NRL	35-07.06N	129-04.19E	g	HNRO04RR
0643	080599	0	ADCP	B Moored ADCP with	NRL	34-30.00N	130-39.00E	g	HNRO04RR
2300	130599	0	ADCP	C tide guage N6	NRL	35-07.06N	129-04.19E	g	HNRO04RR
0630	090599	0	ADCP	B Moored ADCP with	NAVO	33-32.40N	128-46.80E	g	HNRO04RR
2300	130599	0	ADCP	C tide guage S5	NAVO	35-07.06N	129-04.19E	g	HNRO04RR
1023	090599	0	ADCP	B Moored ADCP with	NRL	33-44.40N	128-33.60E	g	HNRO04RR
2300	130599	0	ADCP	C tide guage S5 107m	NRL	35-07.06N	129-04.19E	g	HNRO04RR
0218	100599	0	ADCP	B Moored ADCP with	NRL	33-55.80N	128-20.40E	g	HNRO04RR
2300	130599	0	ADCP	C tide guage S3	NRL	35-07.06N	129-04.19E	g	HNRO04RR
0736	100599	0	ADCP	B Moored ADCP with	NRL	34-07.80N	128-07.20E	g	HNRO04RR
2300	130599	0	ADCP	C tide guage S2	NRL	35-07.06N	129-04.19E	g	HNRO04RR
0412	110599	0	ADCP	B Moored ADCP with	NRL	34-19.21N	127-54.00E	g	HNRO04RR
2300	130599	0	ADCP	C tide guage S1	NRL	35-07.06N	129-04.19E	g	HNRO04RR

#GMT	DDMMYY	SAMP	B	SAMPLE	DISP				p	CRUISE
#TIME	DATE	TZ	CODE	E IDENTIFIER	CODE	LATITUDE	LONGITUDE		c	LEG-SHIP
#	-----	--	-----	-----	-----	-----	-----	-----	-----	-----
*** Conductivity, Temperature, Depth ***										
0043	060599	0	TDCT	B CTD #101	NRL	35-21.00N	129-33.00E	g		HNRO04RR
0203	060599	0	TDCT	E N D QG	NRL	35-21.00N	129-33.00E	g		HNRO04RR
0952	060599	0	TDCT	B CTD #102	NRL	35-12.00N	129-44.40E	g		HNRO04RR
1026	060599	0	TDCT	E N D QG	NRL	35-12.00N	129-44.40E	g		HNRO04RR
1125	060599	0	TDCT	B CTD #103	NRL	35-16.63N	129-38.65E	g		HNRO04RR
1150	060599	0	TDCT	E N D QG	NRL	35-16.60N	129-38.69E	g		HNRO04RR
1305	060599	0	TDCT	B CTD #104	NRL	35-21.00N	129-33.00E	g		HNRO04RR
1327	060599	0	TDCT	E N D QG	NRL	35-21.00N	129-33.00E	g		HNRO04RR
2122	060599	0	TDCT	B CTD #105	NRL	35-06.30N	129-51.90E	g		HNRO04RR
2135	060599	0	TDCT	E N D QG	NRL	35-06.30N	129-51.90E	g		HNRO04RR
2243	060599	0	TDCT	B CTD #106	NRL	35-00.60N	129-59.40E	g		HNRO04RR
2307	060599	0	TDCT	E N D QG	NRL	35-00.60N	129-59.40E	g		HNRO04RR
0233	070599	0	TDCT	B CTD #107	NRL	34-55.50N	130-06.00E	g		HNRO04RR
0256	070599	0	TDCT	E N D QG	NRL	34-55.50N	130-06.00E	g		HNRO04RR
0348	070599	0	TDCT	B CTD #108	NRL	34-50.40N	130-12.62E	g		HNRO04RR
0416	070599	0	TDCT	E N D QG	NRL	34-50.40N	130-12.60E	g		HNRO04RR
0716	070599	0	TDCT	B CTD #109	NRL	34-45.30N	130-19.20E	g		HNRO04RR
0734	070599	0	TDCT	E N D QG	NRL	34-45.30N	130-19.20E	g		HNRO04RR
0944	070599	0	TDCT	B CTD #110	NRL	34-40.18N	130-25.83E	g		HNRO04RR
1008	070599	0	TDCT	E N D QG	NRL	34-40.20N	130-25.80E	g		HNRO04RR
1142	070599	0	TDCT	B CTD #111	NRL	34-35.10N	130-32.40E	g		HNRO04RR
1155	070599	0	TDCT	E N D QG	NRL	34-35.09N	130-32.42E	g		HNRO04RR
1319	070599	0	TDCT	B CTD #112	NRL	34-29.99N	130-39.01E	g		HNRO04RR
1336	070599	0	TDCT	E N D QG	NRL	34-30.00N	130-39.01E	g		HNRO04RR
2159	080599	0	TDCT	B CTD #113	NRL	33-21.00N	129-00.00E	g		HNRO04RR
2215	080599	0	TDCT	E N D QG	NRL	33-21.00N	129-00.00E	g		HNRO04RR
0230	090599	0	TDCT	B CTD #114	NRL	33-26.70N	128-53.40E	g		HNRO04RR
0242	090599	0	TDCT	E N D QG	NRL	33-26.70N	128-53.40E	g		HNRO04RR
0459	090599	0	TDCT	B CTD #115	NRL	33-32.40N	128-46.80E	g		HNRO04RR
0534	090599	0	TDCT	E N D QG	NRL	33-32.40N	128-46.80E	g		HNRO04RR
0935	090599	0	TDCT	B CTD Cast #116	NRL	33-44.39N	128-33.60E	g		HNRO04RR
0950	090599	0	TDCT	E N D QG	NRL	33-44.40N	128-33.60E	g		HNRO04RR
1148	090599	0	TDCT	B CTD #117	NRL	33-38.40N	128-40.20E	g		HNRO04RR
1200	090599	0	TDCT	E N D QG	NRL	33-38.40N	128-40.20E	g		HNRO04RR
2126	090599	0	TDCT	B CTD #118	NRL	33-50.10N	128-27.00E	g		HNRO04RR
2140	090599	0	TDCT	E N D QG	NRL	33-50.10N	128-27.00E	g		HNRO04RR
2317	090599	0	TDCT	B CTD #119	NRL	33-55.80N	128-20.40E	g		HNRO04RR
2336	090599	0	TDCT	E N D QG	NRL	33-55.80N	128-20.40E	g		HNRO04RR

*** Cores ***

0450	060599	0	COXX	Shipek Grab #1	120m	NRL	35-21.00N	129-33.00E	g	HNRO04RR
0442	070599	0	COXX	Shipek Grab #2	126m	NRL	34-50.40N	130-12.60E	g	HNRO04RR
0220	080599	0	COXX	Shipek Grab #3		NRL	34-40.20N	130-25.80E	g	HNRO04RR
0611	080599	0	COXX	Shipek Grab #4		NRL	34-30.00N	130-39.00E	g	HNRO04RR
2306	080599	0	COXX	Shipek Grab #5		NRL	33-21.00N	129-00.00E	g	HNRO04RR
0559	090599	0	COXX	Shipek Grab #6		NRL	33-32.40N	128-46.80E	g	HNRO04RR
1003	090599	0	COXX	Shipek Grab #7		NRL	33-44.40N	128-33.60E	g	HNRO04RR
2354	090599	0	COXX	Shipek Grab #8		NRL	33-55.80N	128-20.40E	g	HNRO04RR
0534	100599	0	COXX	Shipek Grab #9		NRL	34-07.80N	128-07.20E	g	HNRO04RR
2329	100599	0	COXX	Shipek Grab #10		NRL	34-19.20N	127-54.00E	g	HNRO04RR

#	End Sample Index	HNRO04RR
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