

REPORT AND INDEX OF
UNDERWAY MARINE GEOPHYSICAL DATA

HAHNARO EXPEDITION

LEG 5

(HNRO05RR)

R/V Revelle

(Issued August 1999)

Ports:

Pusan, South Korea (19 May 1999)

to

Pusan, South Korea (3 June 1999)

Chief Scientist:

Craig Lee, University of Washington
email: craig@apl.washington.edu

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.

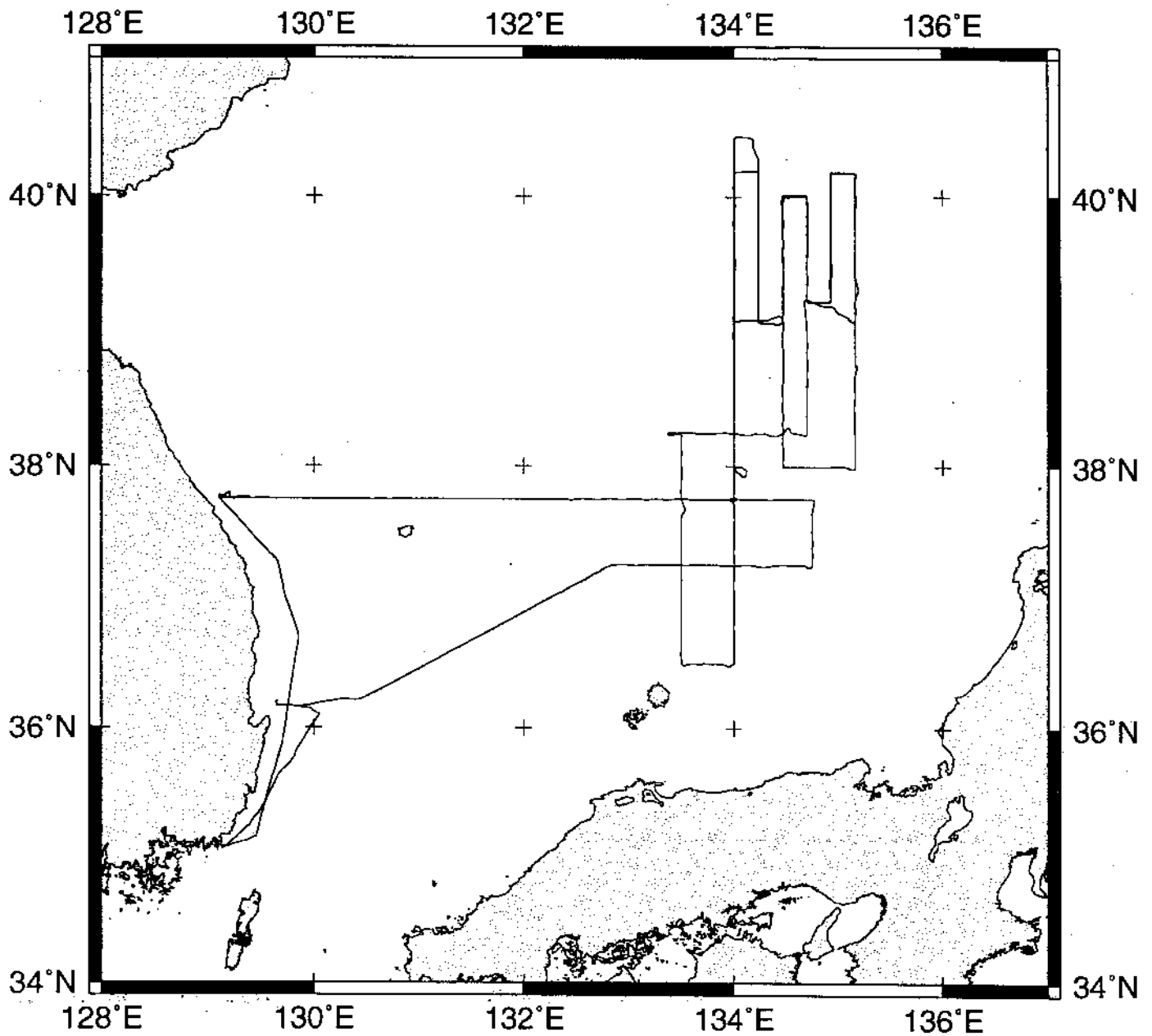
NOTE: One or more of the underway data types may not be collected on a given leg. For information on the availability and reproduction costs of data in the following forms, contact S.M. Smith, Curator, Geological Data Center, Scripps Institution of Oceanography, La Jolla, California 92093-0223. Phone: (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 5 (HNRO05RR)

CHIEF SCIENTIST: Craig Lee, University of Washington

PORTS: Pusan - Pusan, South Korea

DATES: 19 May - 3 June 1999

SHIP: R/V Revelle

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

Cruise - 2668 miles

Magnetics - none collected

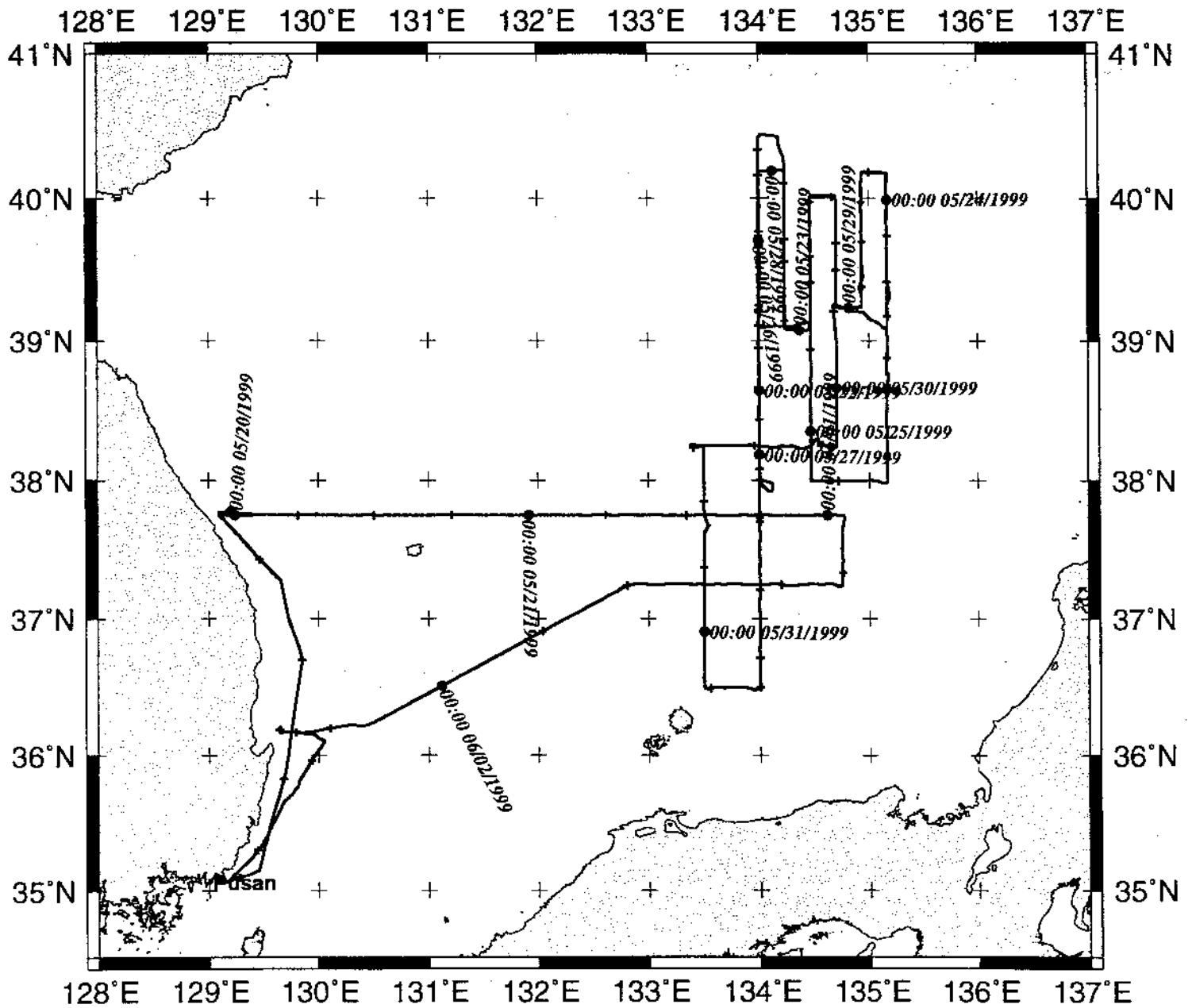
Bathymetry - 156 miles

Seismic Reflection - none collected

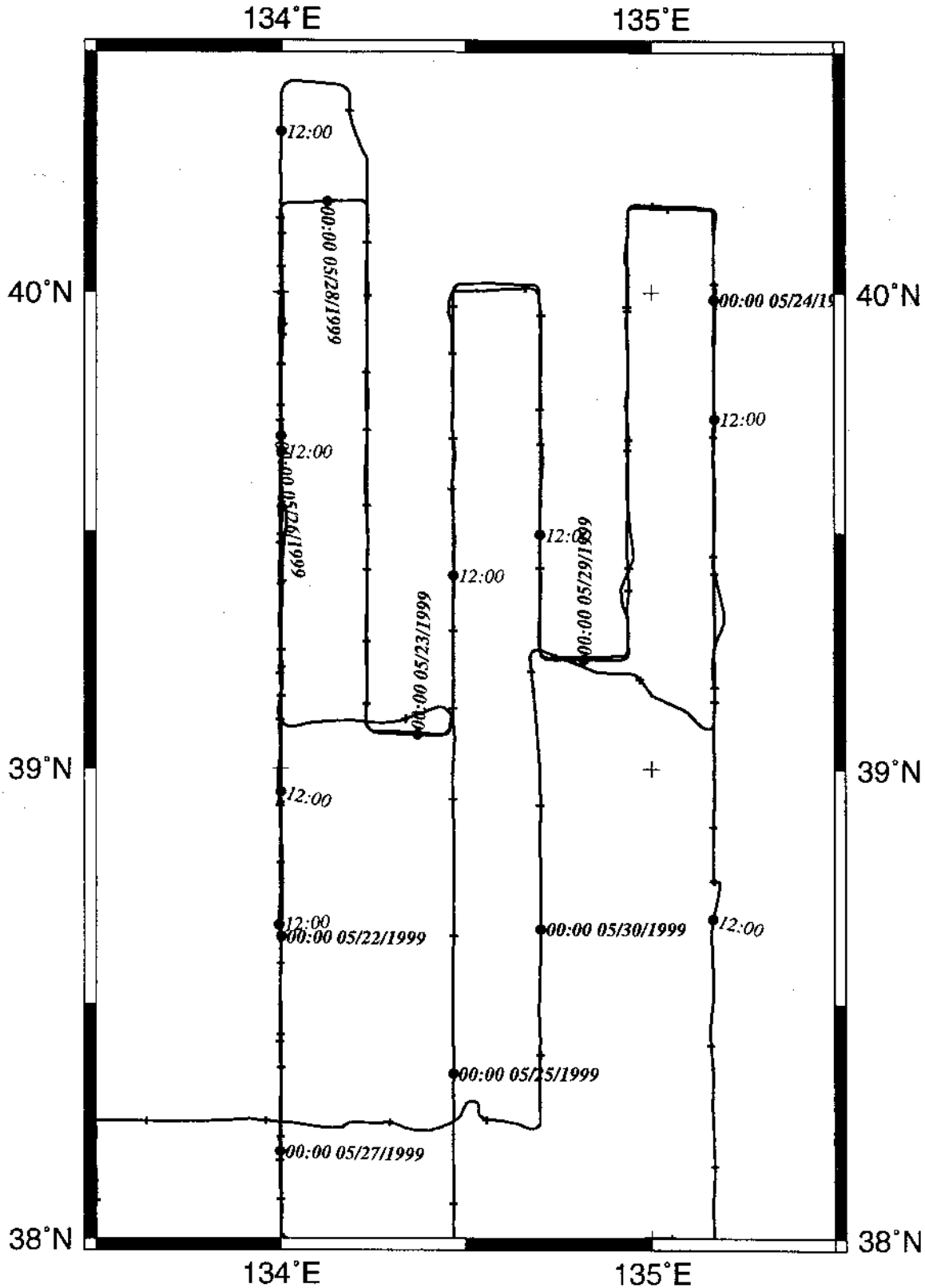
Sea Beam - 156 miles

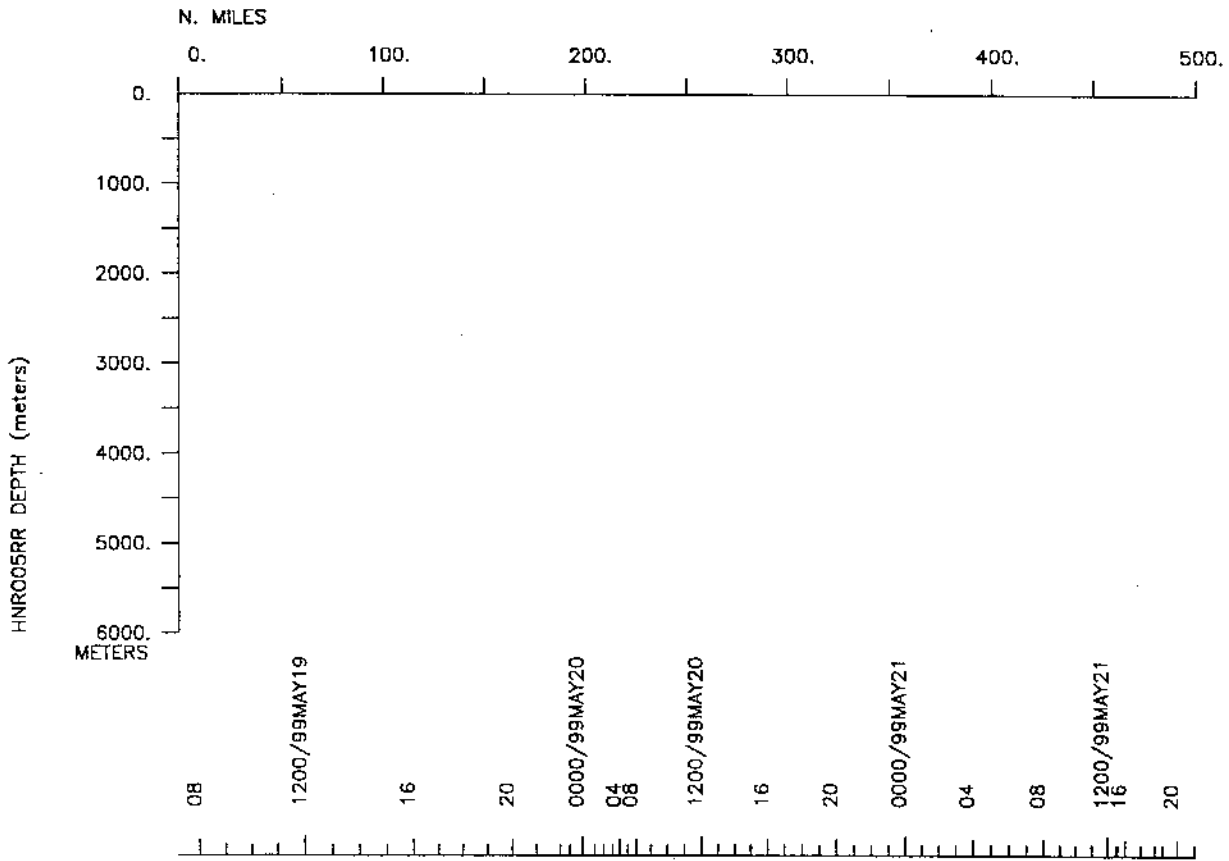
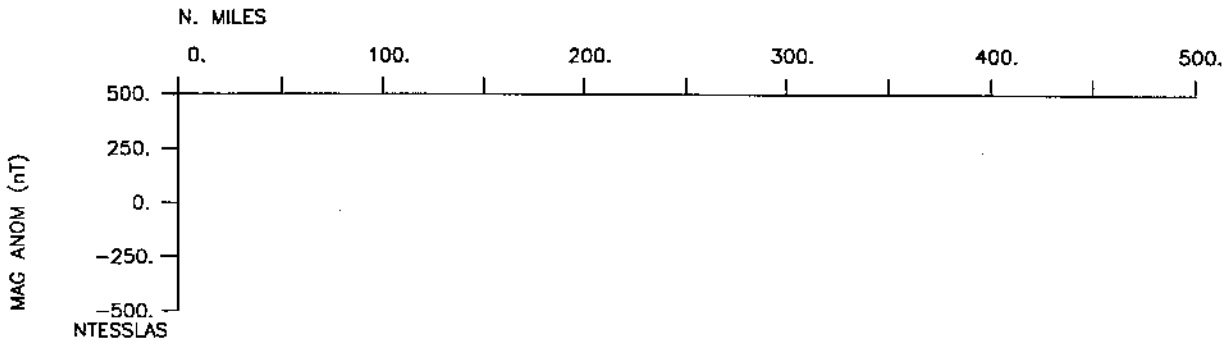
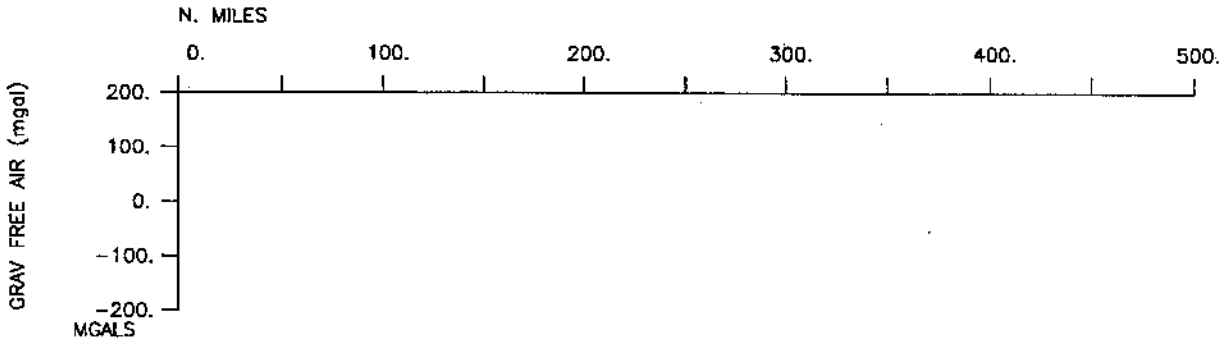
Gravity - none collected

HAHNARO Leg 5 Track

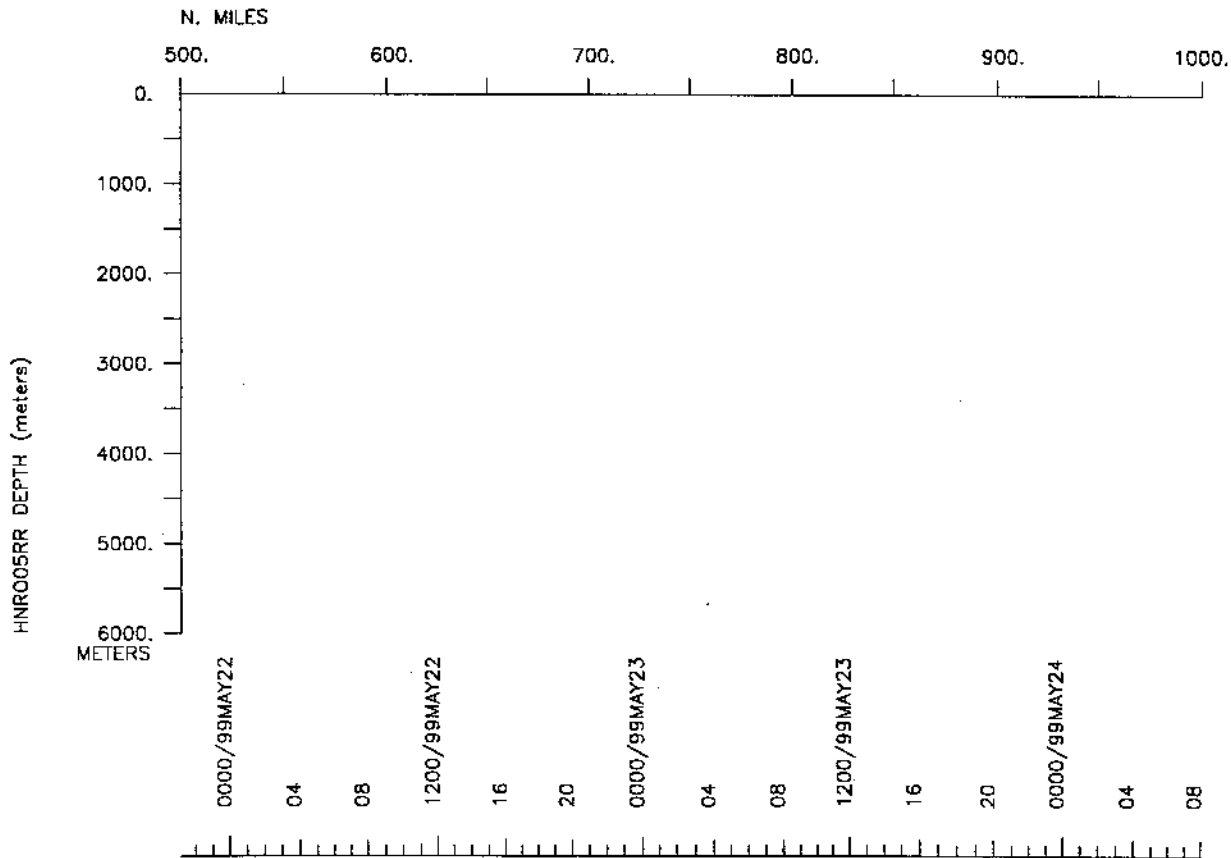
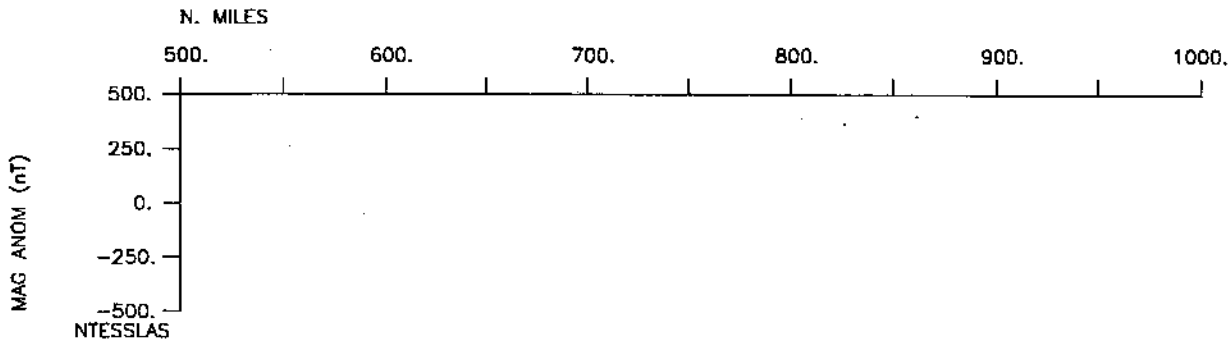
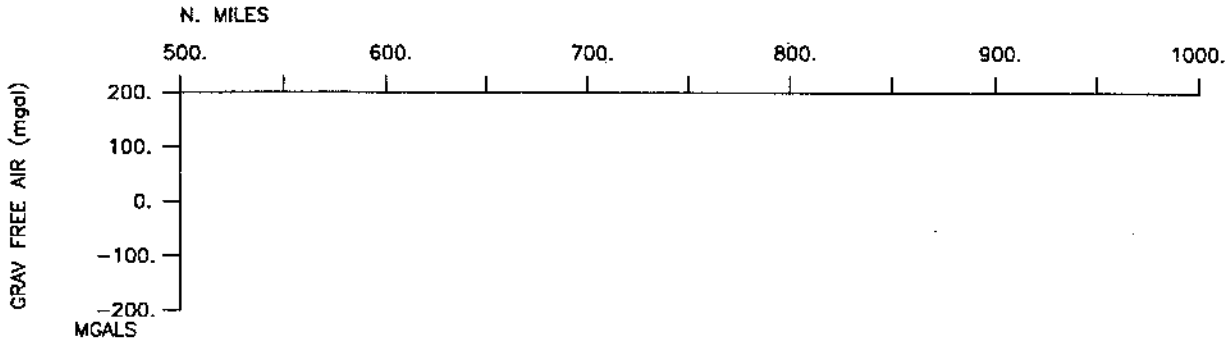


HAHNARO Leg 5 Survey

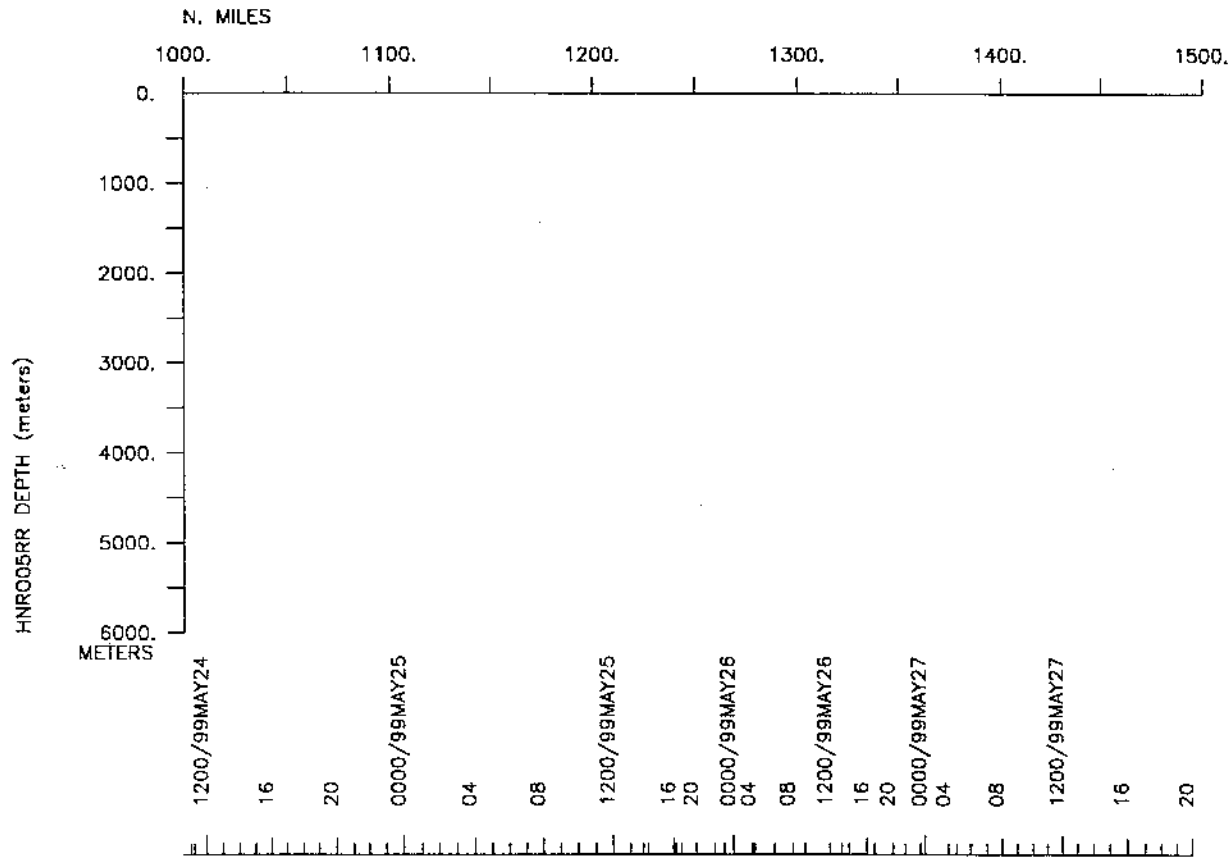
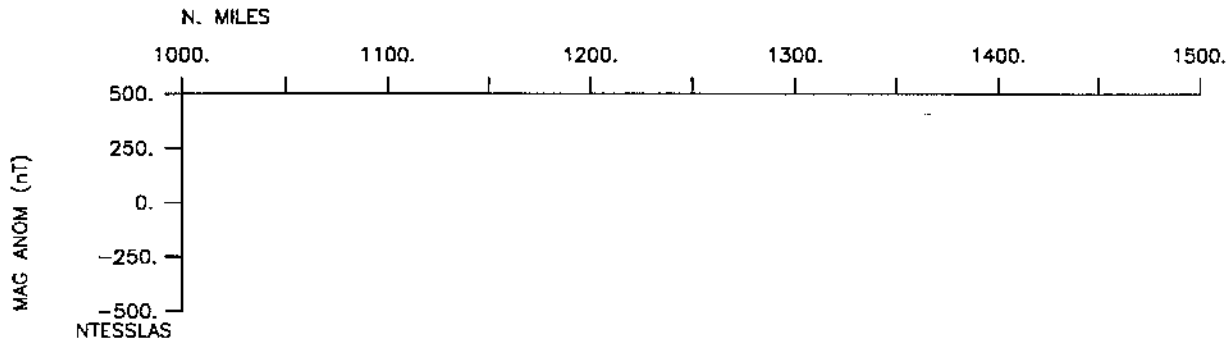
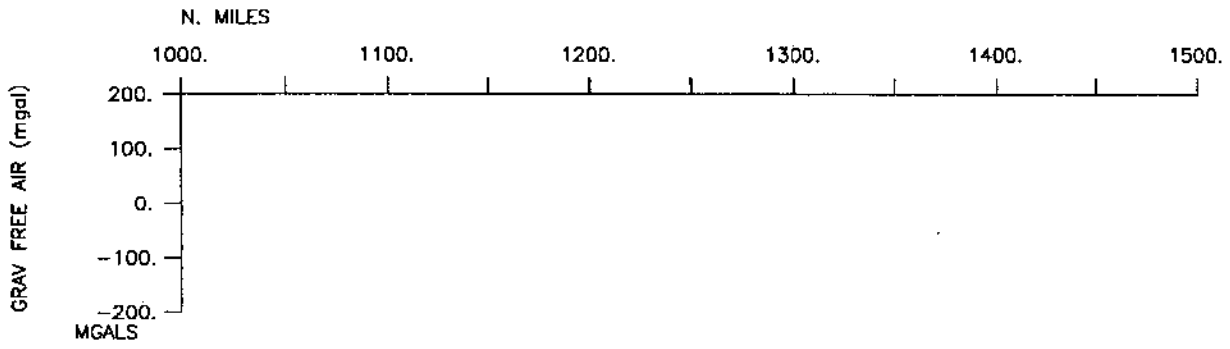




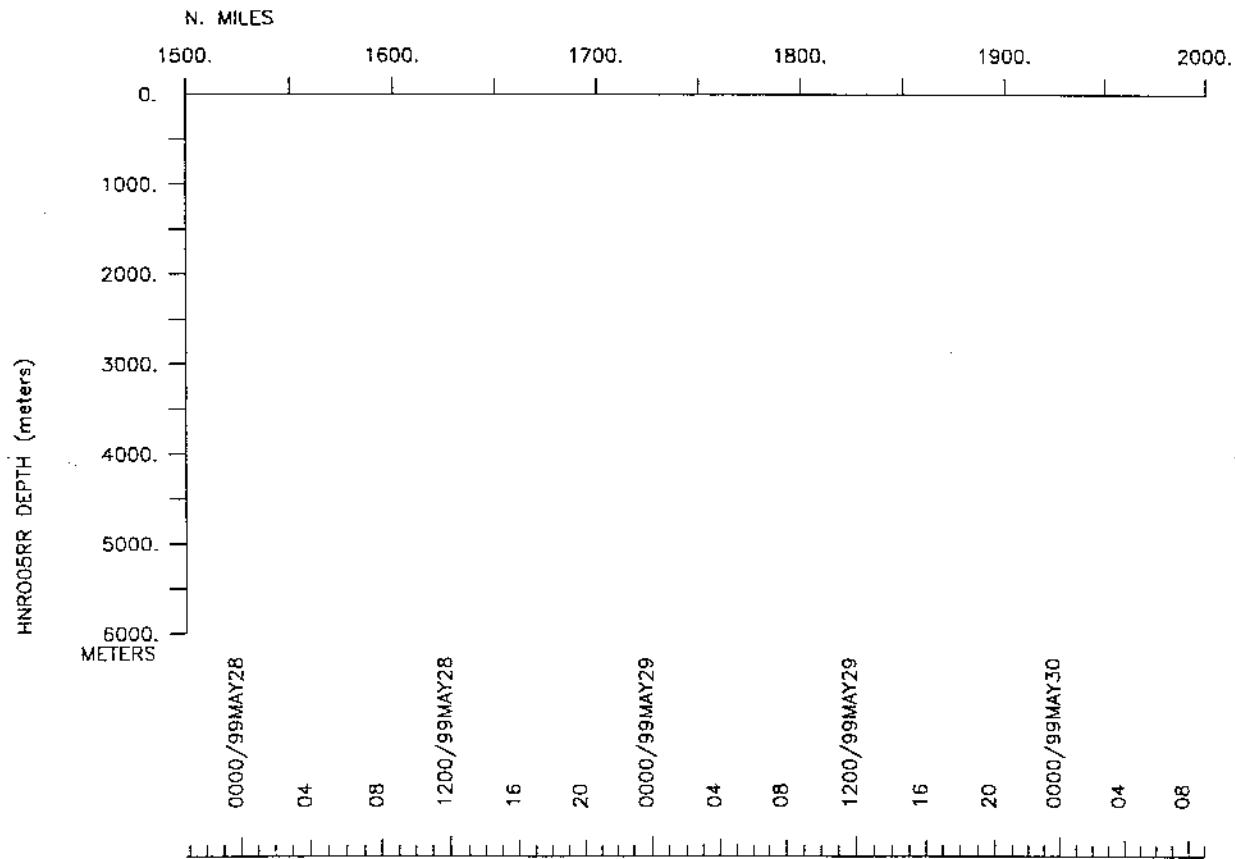
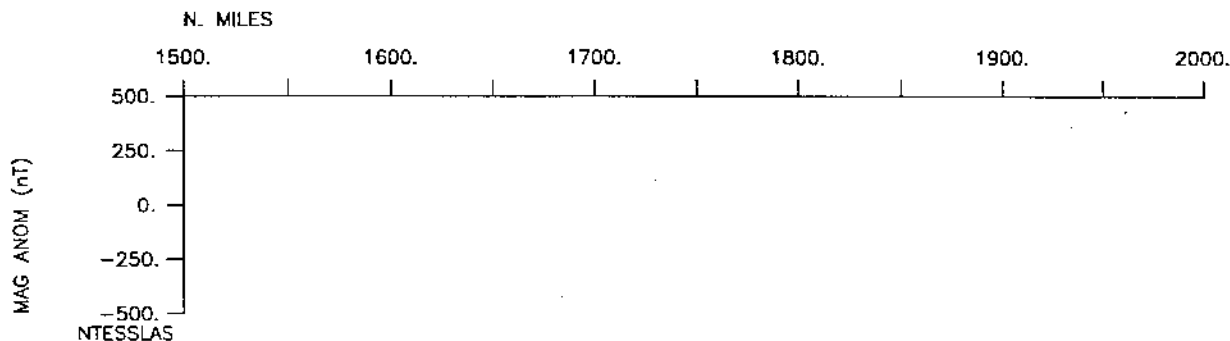
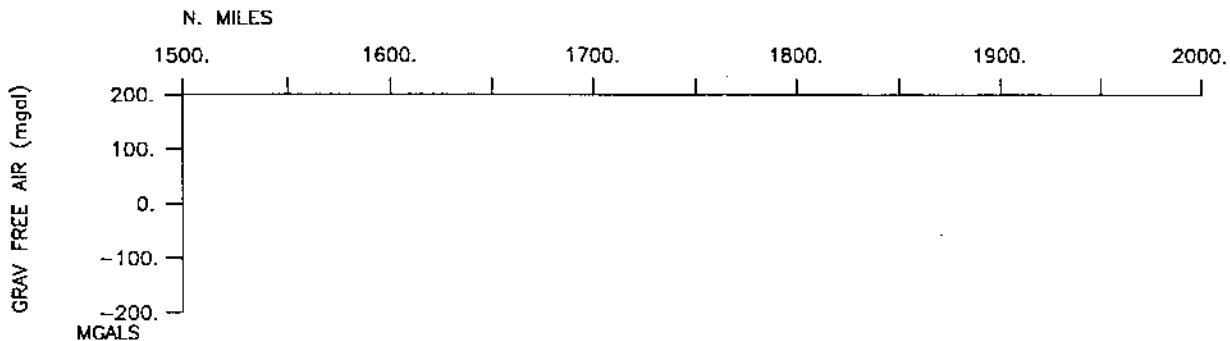
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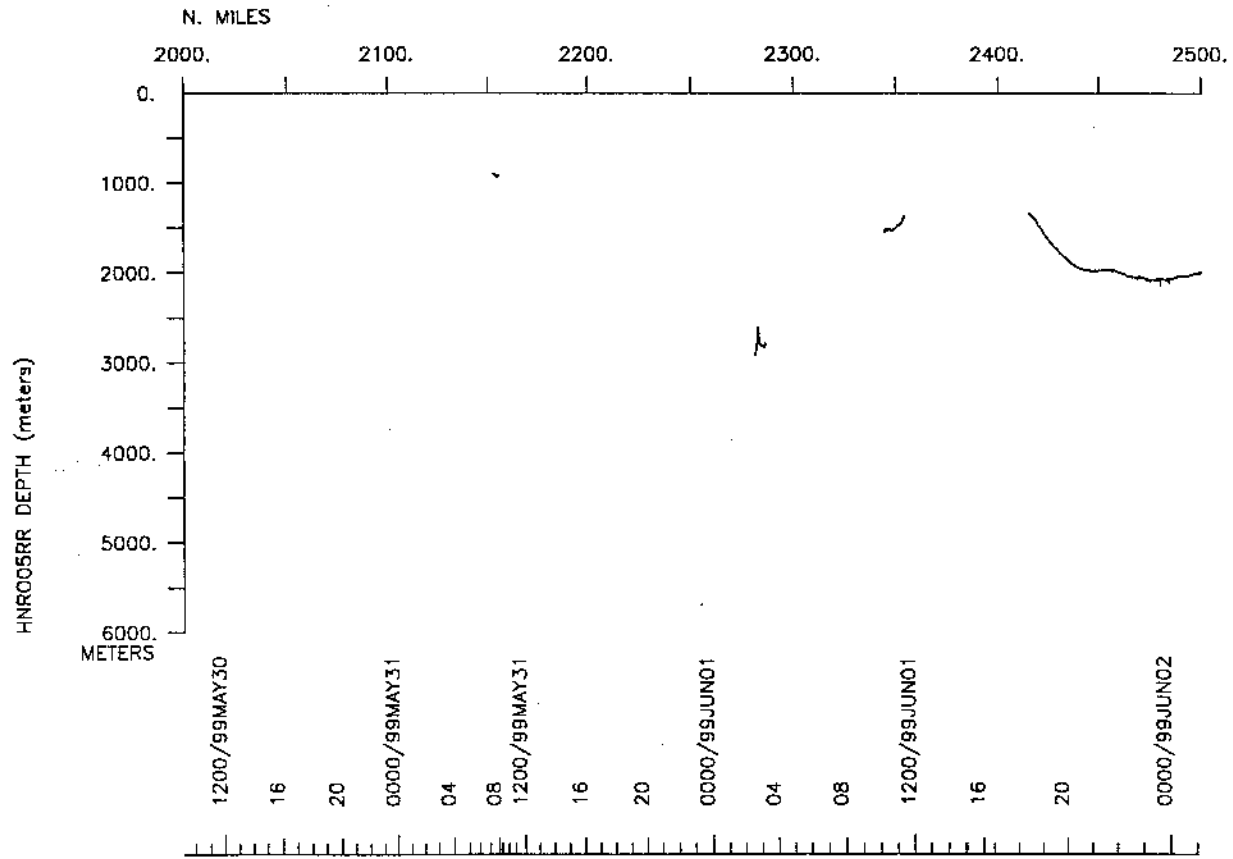
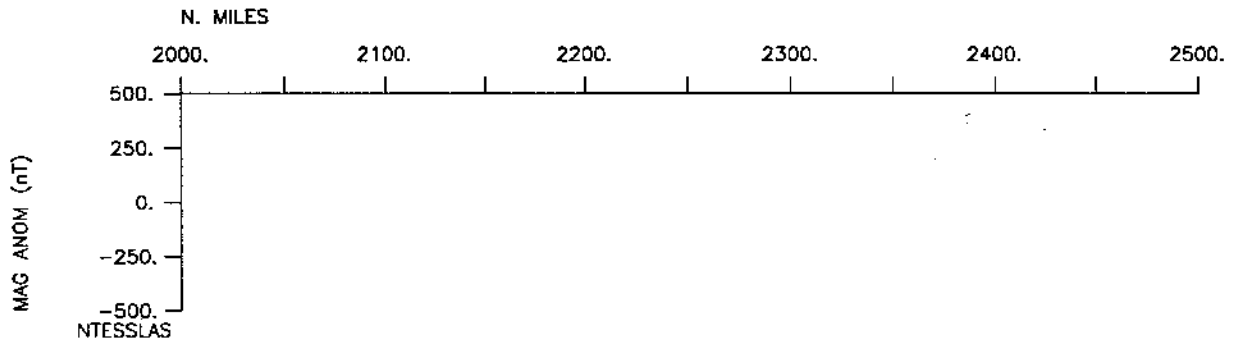
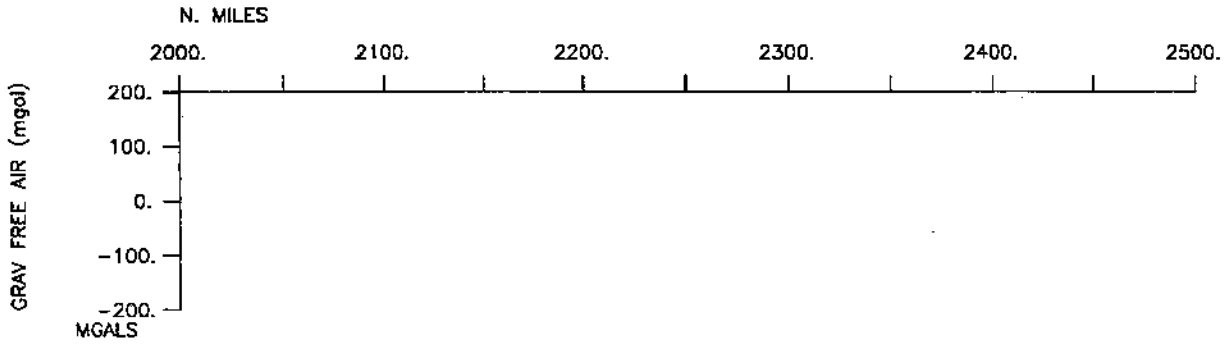


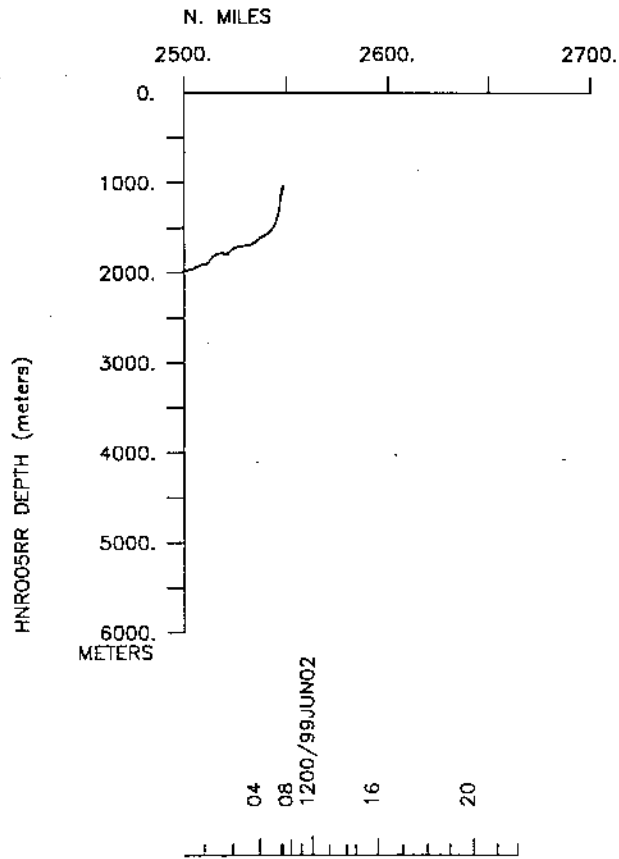
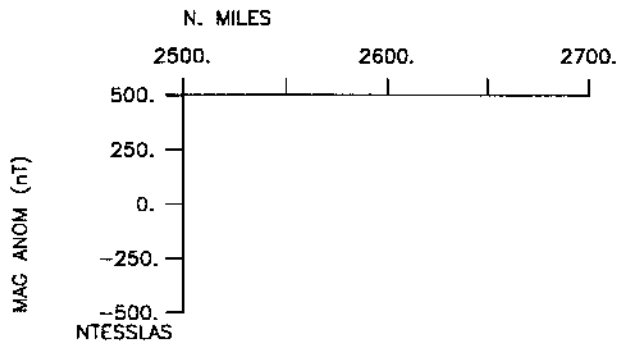
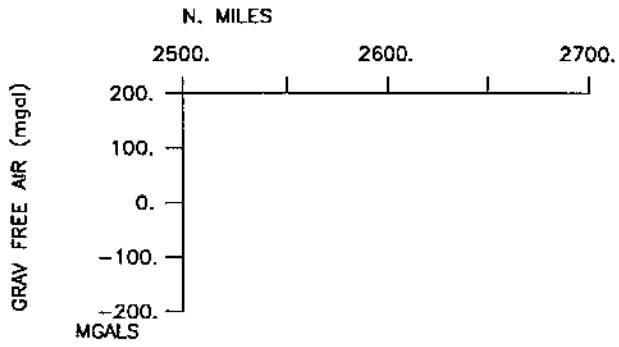
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04
08
1200/99JUN02
16
20

S.I.O. SAMPLE INDEX

HAHNARO EXPEDITION

LEG 5

(HNRO05RR)

R/V Revelle

(Issued August 1999)

Ports:

Pusan, South Korea (19 May 1999)

to

Pusan, South Korea (3 June 1999)

Chief Scientist:

Craig Lee, University of Washington

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	190599	LGPT B Pusan, Korea	35-04.00N 129-09.00E	HNRO05RR
2300	030699	LGPT E Pusan, Korea	35-04.00N 129-09.00E	HNRO05RR

**** Personnel ***

#	*****NAME*****	*****TITLE*****	*****AFFILIATION*****	**CRID**
PECS UWA	Lee, C.	Chief Scientist	Univ. of Washington	HNRO05RR
PESP SIX	Bartloi, A.	Contractor	Protoco Italy	HNRO05RR
PESP NRL	Basil, E.	Scientist	Naval Research Lab	HNRO05RR
PESP WHOI	Bahr, F.	Research Associate	Woods Hole O.I.	HNRO05RR
PESP SIX	Chang, K.	Scientist	Korean Ocean. R&D	HNRO05RR
PESP WHOI	Dean, J.	Research Associate	Woods Hole O.I.	HNRO05RR
PESP SDSU	Dorman, C.	Scientist	San Diego State U.	HNRO05RR
PESP WHOI	Fucile, P.	Research Engineer	Woods Hole O.I.	HNRO05RR
PESP WHOI	Gordon, A.	Sr. Eng. Asst.	Woods Hole O.I.	HNRO05RR
PESP NRL	Gould, R.	Scientist	Naval Research Lab	HNRO05RR
PEST SIX	Han, T.	Grad. Student	Kwangju Univ. Korea	HNRO05RR
PESP SIX	Jang, Y-S.	Specialist	Korean Ocean. R&D	HNRO05RR
PESP SIX	Jones, B.	Scientist	U. of So. Calif.	HNRO05RR
PESP SIX	Jun, H-K.	Senior Engineer	Korean Ocean. R&D	HNRO05RR
PEST SIX	Kim, J.K.	Grad. Student	Kwangju Univ. Korea	HNRO05RR
PESP WHOI	Marquette, C.	Research Engineer	Woods Hole O.I.	HNRO05RR
PEST SIX	Park, J.K.	Student	Kwangju Univ. Korea	HNRO05RR
PESP SIX	Park, M-G.	Post Doc Student	Kwangju Univ. Korea	HNRO05RR
PESP SIX	Petrov, A.	Observer	Russia	HNRO05RR
PERT STS	Pillard, E.	Resident Tech	Scripps Institution	HNRO05RR
PEST SIX	Ragan, M.	Grad. Student	U. of So. Calif.	HNRO05RR
PESP SIX	Ryzhkov, L.	Observer	Russia	HNRO05RR
PESP SIX	Shim, M-B.	Observer	Korean Ocean. R&D	HNRO05RR
PECT STS	Silver, M.	Computer Tech	Scripps Institution	HNRO05RR
PEST SIX	Zheng, Z.	Grad. Student	U. of So. Calif.	HNRO05RR

**** 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 - S. M. Smith ext. 42752 ***

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

0738	310599	MBSR B Digital SeaBeam data	GDC	36-28.76N	133-57.39E	g	HNRO05RR
0558	020699	MBSR E Digital SeaBeam data	GDC	36-09.47N	129-52.61E	g	HNRO05RR

**** Acoustic Doppler Current Profiler ***

0648	190599	+9 ADCP B Continous logged	GDC	35-04.00N	129-09.00E	g	HNRO05RR
2300	030699	ADCP E ADCP measurements	GDC	35-04.00N	129-09.00E	g	HNRO05RR

**** Optical Measurements ***

0648	190599	CSXX B Optical Atenuation	SIX	35-04.00N	129-09.00E	g	HNRO05RR
2300	030699	CSXX E measurement	SIX	35-04.00N	129-09.00E	g	HNRO05RR

#GMT	DDMMYY	SAMP	B	SAMPLE	DISP				p	CRUISE
#TIME	DATE	TZ	CODE	E IDENTIFIER	CODE	LATITUDE	LONGITUDE		c	LEG-SHIP
#										
*** Conductivity, Temperature, Depth *** (Samples go to Univ. of So. Calif.)										
2232	190599		TDXX	B SeaSoar Spectrophoto	UWA	37-45.01N	129-06.17E	g	HNRO05RR	
0405	200599		TDXX	E & Fluorometer & bioL	UWA	37-47.55N	129-11.99E	g	HNRO05RR	
0735	200599		TDXX	B SeaSoar Spectrophoto	UWA	37-44.99N	129-06.00E	g	HNRO05RR	
1304	210599		TDXX	E & Fluorometer & bioL	UWA	37-45.41N	133-58.10E	g	HNRO05RR	
1856	210599		TDXX	B SeaSoar Spectrophoto	UWA	37-57.59N	134-00.79E	g	HNRO05RR	
0924	240599		TDXX	E & Fluorometer & bioL	UWA	38-45.91N	135-10.16E	g	HNRO05RR	
1106	240599		TDXX	B SeaSoar Spectrophoto	UWA	38-45.71N	135-10.20E	g	HNRO05RR	
1426	250599		TDXX	E & Fluorometer & bioL	UWA	39-56.00N	134-00.55E	g	HNRO05RR	
0418	270599		TDXX	B SeaSoar Spectrophoto	UWA	37-59.92N	134-01.02E	g	HNRO05RR	
0720	310599		TDXX	E & Fluorometer & bioL	UWA	36-28.91N	133-56.28E	g	HNRO05RR	
1150	310599		TDXX	B SeaSoar Spectrophoto	UWA	36-41.34N	134-00.14E	g	HNRO05RR	
1642	010699		TDXX	E & Fluorometer & bioL	UWA	37-13.50N	132-45.72E	g	HNRO05RR	
1144	020699		TDXX	B SeaSoar Spectrophoto	UWA	36-12.24N	129-38.87E	g	HNRO05RR	
1500	020699		TDXX	E & Fluorometer & bioL	UWA	36-06.30N	130-02.77E	g	HNRO05RR	
1337	210599		TDCT	B TSON G	SIX	37-45.04N	133-57.75E	g	HNRO05RR	
1505	210599		TDCT	E 24 btl rosette	500M SIX	37-45.04N	133-57.75E	g	HNRO05RR	
0944	240599		TDCT	B TSON G	SIX	38-45.75N	135-10.19E	g	HNRO05RR	
1052	240599		TDCT	E 24 btl rosette	500M SIX	38-45.74N	135-10.20E	g	HNRO05RR	
1622	250599		TDCT	B TSON G	SIX	40-10.03N	133-59.97E	g	HNRO05RR	
1726	250599		TDCT	E 24 btl rosette	500M SIX	40-10.03N	133-59.97E	g	HNRO05RR	
1856	250599		TDCT	B TSON G	SIX	40-00.01N	134-00.02E	g	HNRO05RR	
2005	250599		TDCT	E 24 btl rosette	500M SIX	40-00.01N	134-00.01E	g	HNRO05RR	
2122	250599		TDCT	B TSON G	SIX	39-50.99N	134-00.02E	g	HNRO05RR	
2227	250599		TDCT	E 24 btl rosette	500M SIX	39-50.99N	134-00.02E	g	HNRO05RR	
2351	250599		TDCT	B TSON G	SIX	39-42.00N	134-00.00E	g	HNRO05RR	
0101	260599		TDCT	E 24 btl rosette	500M SIX	39-42.00N	134-00.00E	g	HNRO05RR	
0228	260599		TDCT	B TSON G	SIX	39-32.96N	134-00.01E	g	HNRO05RR	
0330	260599		TDCT	E 24 btl rosette	500M SIX	39-32.91N	134-00.04E	g	HNRO05RR	
0430	260599		TDXX	B CTD, Fluorometer	SIX	39-33.07N	134-00.41E	g	HNRO05RR	
0512	260599		TDXX	E Spectrophotometer	SIX	39-33.23N	134-00.62E	g	HNRO05RR	
0708	260599		TDCT	B TSON G	SIX	39-15.01N	134-00.03E	g	HNRO05RR	
0817	260599		TDCT	E CTD	SIX	39-15.00N	134-00.03E	g	HNRO05RR	
0833	260599		TDXX	B CDT, Fluorometer	SIX	39-14.99N	134-00.05E	g	HNRO05RR	
0845	260599		TDXX	E Spectrophotometer	SIX	39-14.99N	134-00.04E	g	HNRO05RR	
1115	260599		TDCT	B TSON G	SIX	38-57.00N	134-00.00E	g	HNRO05RR	
1226	260599		TDCT	E 24 btl rosette	500M SIX	38-57.00N	134-00.00E	g	HNRO05RR	
1341	260599		TDCT	B TSON G	SIX	38-47.99N	134-00.00E	g	HNRO05RR	
1455	260599		TDCT	E 24 btl rosette	500M SIX	38-47.99N	134-00.00E	g	HNRO05RR	
1620	260599		TDCT	B TSON G	SIX	38-38.97N	134-00.02E	g	HNRO05RR	
1735	260599		TDCT	E 24 btl rosette	500M SIX	38-38.97N	134-00.02E	g	HNRO05RR	

#GMT #TIME #	DDMMYY DATE ---	TZ	SAMP B CODE E	SAMPLE IDENTIFIER	DISP CODE	LATITUDE	LONGITUDE	p c	CRUISE LEG-SHIP
1905	260599		TDCT B	TSON G	SIX	38-26.02N	134-00.00E	g	HNRO05RR
2024	260599		TDCT E	24 btl rosette 500M	SIX	38-26.01N	134-00.00E	g	HNRO05RR
2150	260599		TDCT B	TSON G	SIX	38-12.99N	134-00.00E	g	HNRO05RR
2301	260599		TDCT E	24 btl rosette 500M	SIX	38-12.99N	134-00.00E	g	HNRO05RR
2320	260599		TDXX B	CDT, Fluorometer	SIX	38-13.00N	134-00.00E	g	HNRO05RR
2344	260599		TDXX E	Spectrophotometer	SIX	38-12.99N	134-00.00E	g	HNRO05RR
0118	270599		TDXX B	CDT, Fluorometer	SIX	38-00.00N	134-00.00E	g	HNRO05RR
0200	270599		TDXX E	Spectrophotometer	SIX	38-00.00N	134-00.00E	g	HNRO05RR
0237	270599		TDCT B	TSON G	SIX	38-00.04N	134-00.42E	g	HNRO05RR
0345	270599		TDCT E	24 btl rosette 500M	SIX	38-00.04N	134-00.41E	g	HNRO05RR
0520	020699		TDXX B	CTD, Fluorometer	SIX	36-09.47N	129-52.60E	g	HNRO05RR
0550	020699		TDXX E	Spectrophotometer	SIX	36-09.47N	129-52.60E	g	HNRO05RR
0555	020699		TDCT B	TSON G	SIX	36-09.47N	129-52.60E	g	HNRO05RR
0702	020699		TDCT E	24 btl rosette	SIX	36-09.47N	129-52.60E	g	HNRO05RR
0742	020699		TDXX B	CTD, Fluorometer	SIX	36-09.99N	129-47.51E	g	HNRO05RR
0756	020699		TDXX E	Spectrophotometer	SIX	36-10.00N	129-47.50E	g	HNRO05RR
0800	020699		TDCT B	TSON G	SIX	36-10.00N	129-47.50E	g	HNRO05RR
			TDCT E	24 btl rosette	SIX				
1012	020699		TDXX B	CTD, Fluorometer	SIX	36-09.99N	129-41.49E	g	HNRO05RR
			TDXX E	Spectrophotometer	SIX				
1018	020699		TDCT B	TSON G	SIX	36-09.99N	129-41.49E	g	HNRO05RR
1101	020699		TDCT E	24 btl rosette	SIX	36-10.11N	129-41.34E	g	HNRO05RR
*** Upper Air Sampling ***									
0011	210599		ASUA	Weather Balloon	SDSU	37-45.03N	131-56.84E	g	HNRO05RR
0002	240599		ASUA	Weather Balloon	SDSU	39-58.95N	135-10.22E	g	HNRO05RR
0003	250599		ASUA	Weather Balloon	SDSU	38-21.40N	134-28.07E	g	HNRO05RR
2358	250599		ASUA	Weather Balloon	SDSU	39-42.00N	134-00.00E	g	HNRO05RR
0002	270599		ASUA	Weather Balloon	SDSU	38-10.92N	133-59.97E	g	HNRO05RR
0008	290599		ASUA	Weather Balloon	SDSU	39-13.80N	134-50.42E	g	HNRO05RR
0000	300599		ASUA	Weather Balloon	SDSU	38-39.65N	134-42.15E	g	HNRO05RR
0005	310599		ASUA	Weather Balloon	SDSU	36-53.81N	133-29.93E	g	HNRO05RR
0006	010699		ASUA	Weather Balloon	SDSU	37-45.00N	134-37.63E	g	HNRO05RR
#				End Sample Index					HNRO05RR