

*Report and Index of
Underway Marine Geophysical Data*

GENESIS EXPEDITION

LEG 4

(GENE04RR)

R/V REVELLE

(Issued June 1997)

Ports:

Callao, Peru (10 April 1997)

to

San Diego, California (05 May 1997)

Chief Scientist : Robert Weller, Woods Hole

Computer Technician- Todd Porteous

Resident Marine Technician - Robert Wilson

No Seabeam/UW Processor on board

Post-Cruise Processing and Report Preparation by the
Geological Data Center, Scripps Institution of Oceanography
La Jolla, California 92093-0223

Data Collection and Processing Funded by
NSF OCE97-03794

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.# 272

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

Processed by the Geological Data Center
Scripps Institution of Oceanography

Contents:

Index Chart - gives track of cruise leg, dates, ports, and mileage of each type of data collected.

Track Charts - annotated with dates and hour ticks.

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

Sample Index - list of begin/end times and positions of all underway records as well as samples and measurements from other disciplines if collected on the cruise leg.

NOTE: One or more of the underway data types may not be collected on a given cruise leg.

For information on the availability and reproduction costs of data in the following forms, contact S.M. Smith, Curator, Geological Data Center, Scripps Institution of Oceanography, La Jolla, California 92093-0223.

Phone: (619)534-2752, FAX: (619)534-6500, Internet email:
ssmith@ucsd.edu

1. Files on Exabyte or DAT:
 - a) Separate time series ASCII files of navigation, single beam depth, gravity and magnetics.
 - b) These same data in a merged ASCII file in the MGD77 Exchange Format.
 - c) SeaBeam depth data (binary, Sun byte order) in SIO Swath Bathymetry Format. (*)
 - d) SeaBeam Sidescan data. (*)

2. Microfilm (35 mm flowfilm) or hard copies of:
 - a) Underway watch log book
 - b) SeaBeam vertical beam profile/Sidescan records.
 - c) Echosounder records - 3.5 kHz frequency.
 - d) Magnetometer records.
 - e) Seismic reflection profiler records.

3. Navigation listing with times and positions of fixes and course and speed changes.

4. Plots:

- a) Copies of archived track plots.
- b) Copies of archived SeaBeam contour plots.
- c) Custom plots in Mercator projection:
 - 1) Track plots.
 - 2) SeaBeam depth contour plots.
 - 3) Depth, magnetic or gravity values printed or profiled along track.

(* R/V Revelle Seabeam 2100 data available in SB2100 vendor format only, as of October 1996

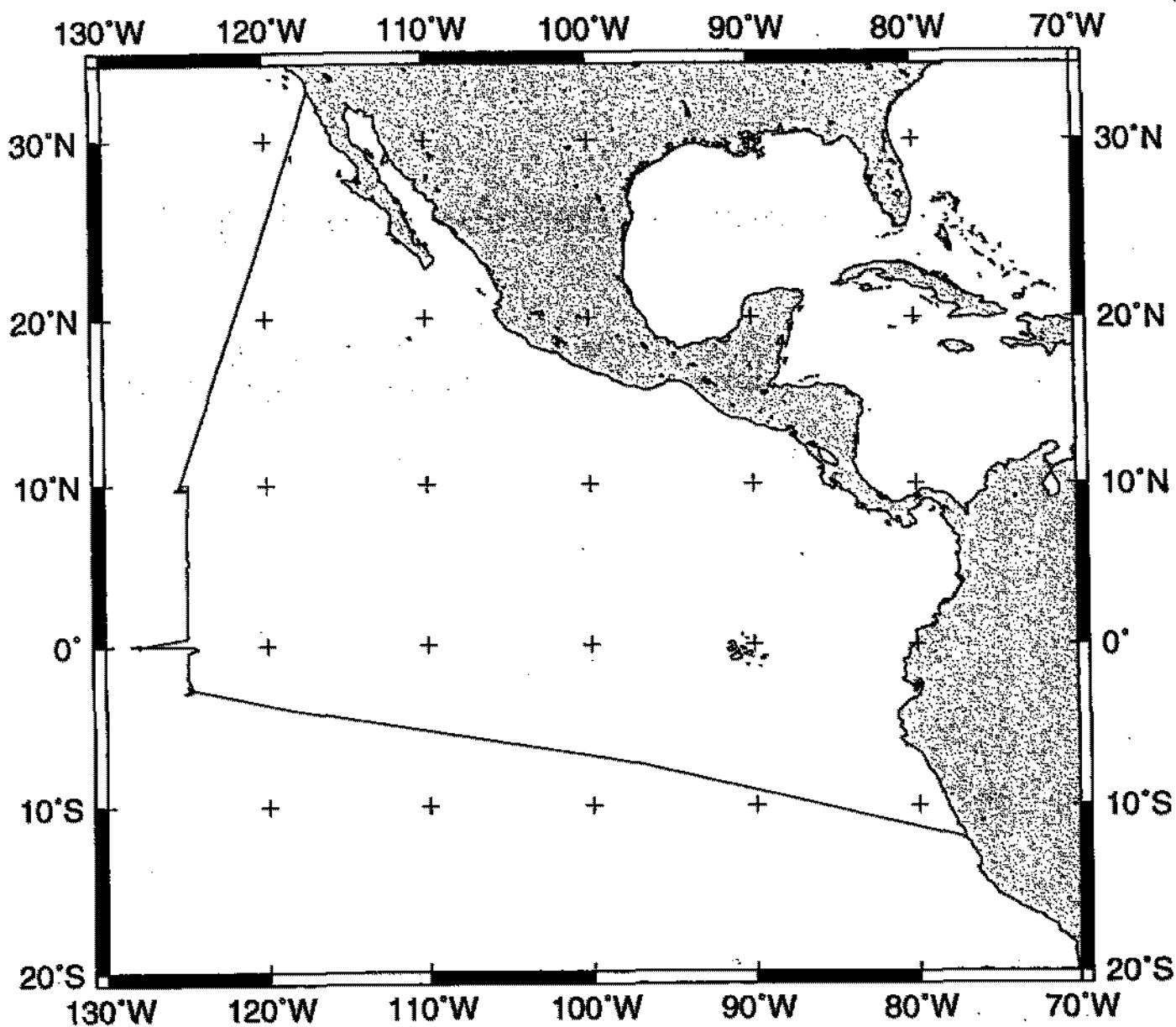
rev10/96

SeaBeam 2000 Data Collected in Ancillary Mode

In the absence of funding for SeaBeam operations on this leg, SeaBeam data were collected in "ancillary mode". In this mode of operation, no Hardware Technician or SB/Underway Processor were on board and the types of realtime records and post-processed data *products are reduced from those available under the fully funded mode.*

The SeaBeam data remain proprietary to the SIO Shipboard Technical Support Group, not the chief scientist.

May 1993



GENESIS EXPEDITION LEG 4

CHIEF SCIENTIST: Robert Weller, Woods Hole

PORTS: Callao, Peru - San Diego, California

DATES: 10 April - 5 May 1997

SHIP: R/V Revelle

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

Cruise - 5782 miles

Magnetics - none collected

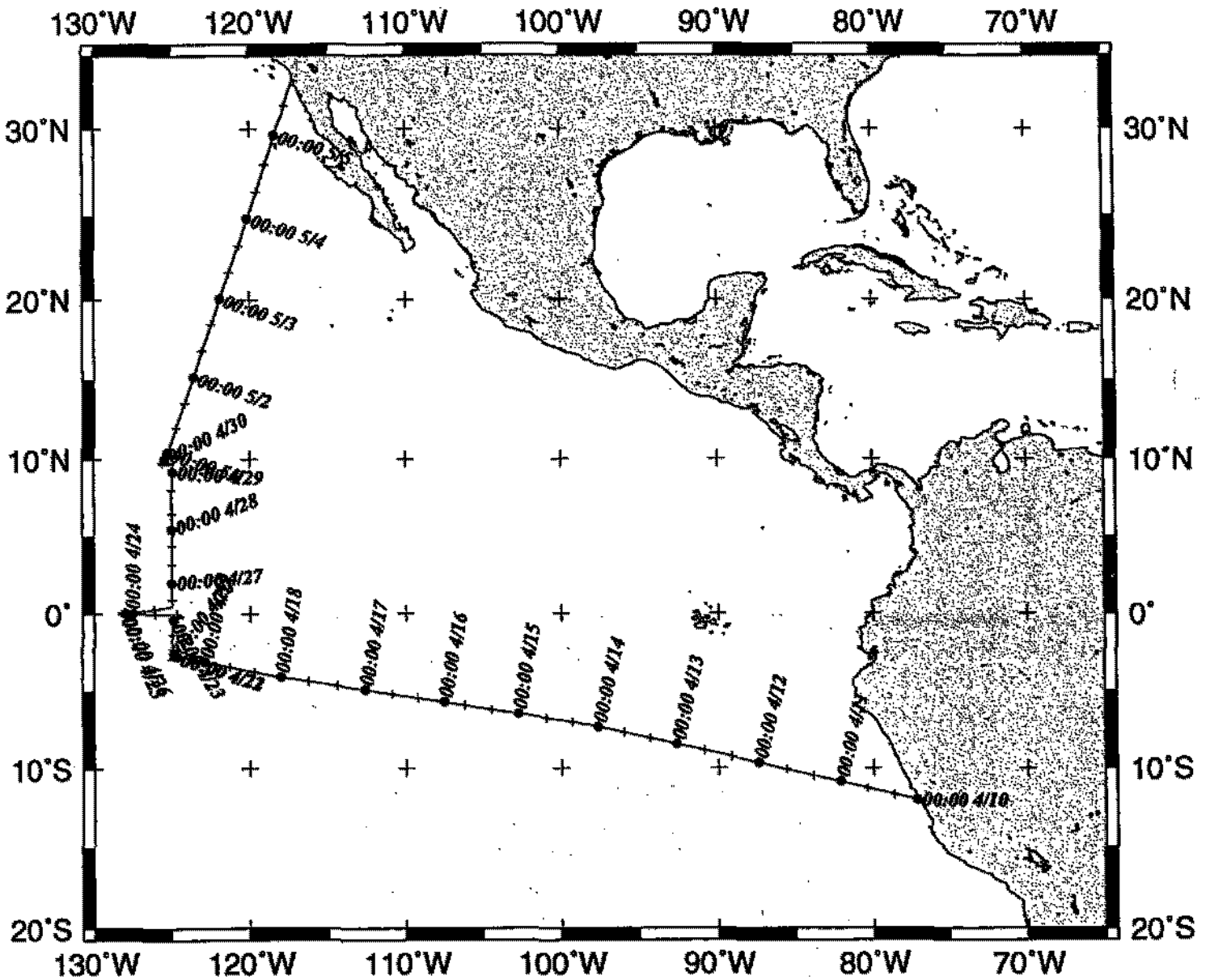
Bathymetry - 5472 miles

Seismic Reflection - none collected

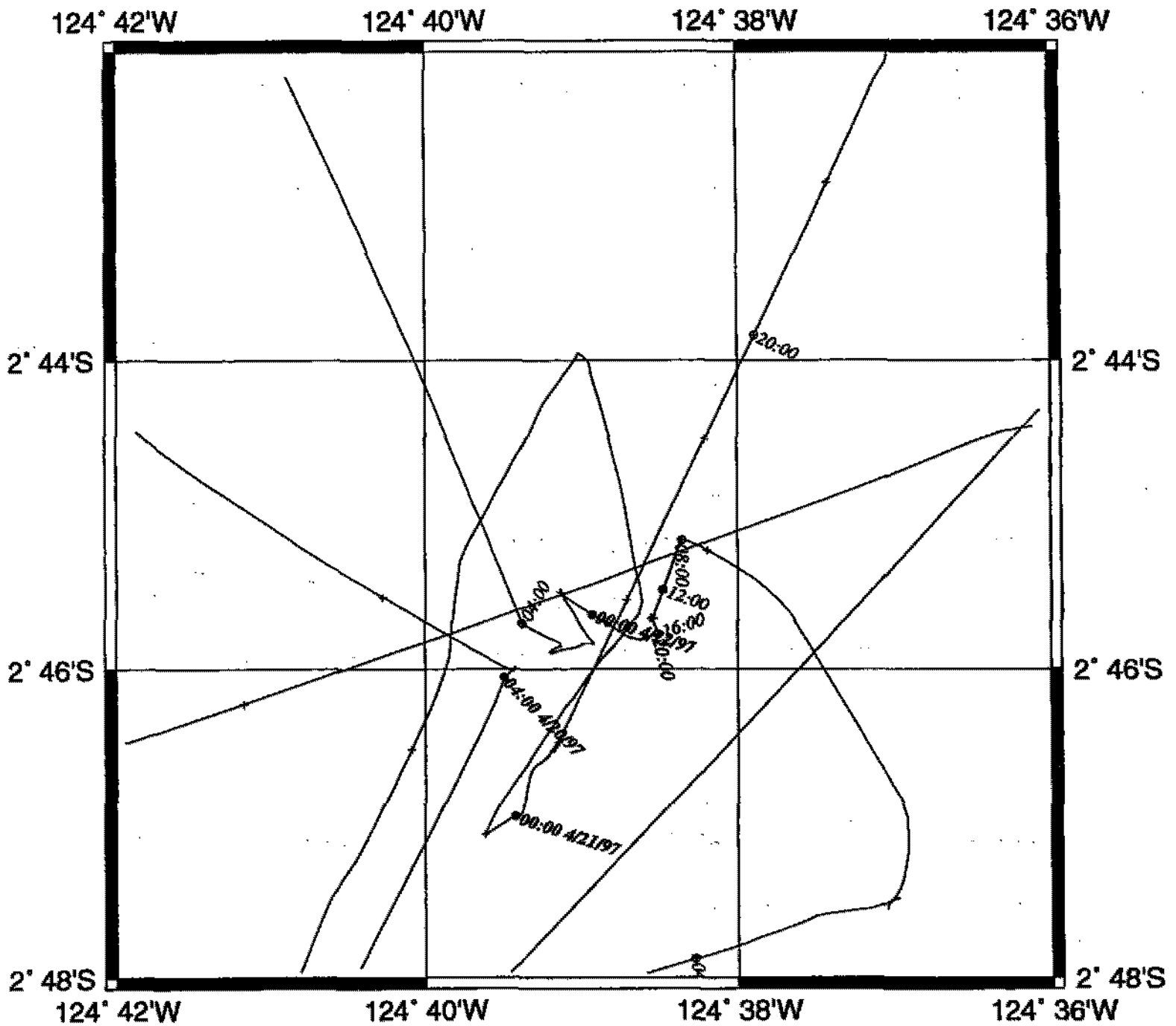
Sea Beam - 5472 miles

Gravity - none collected

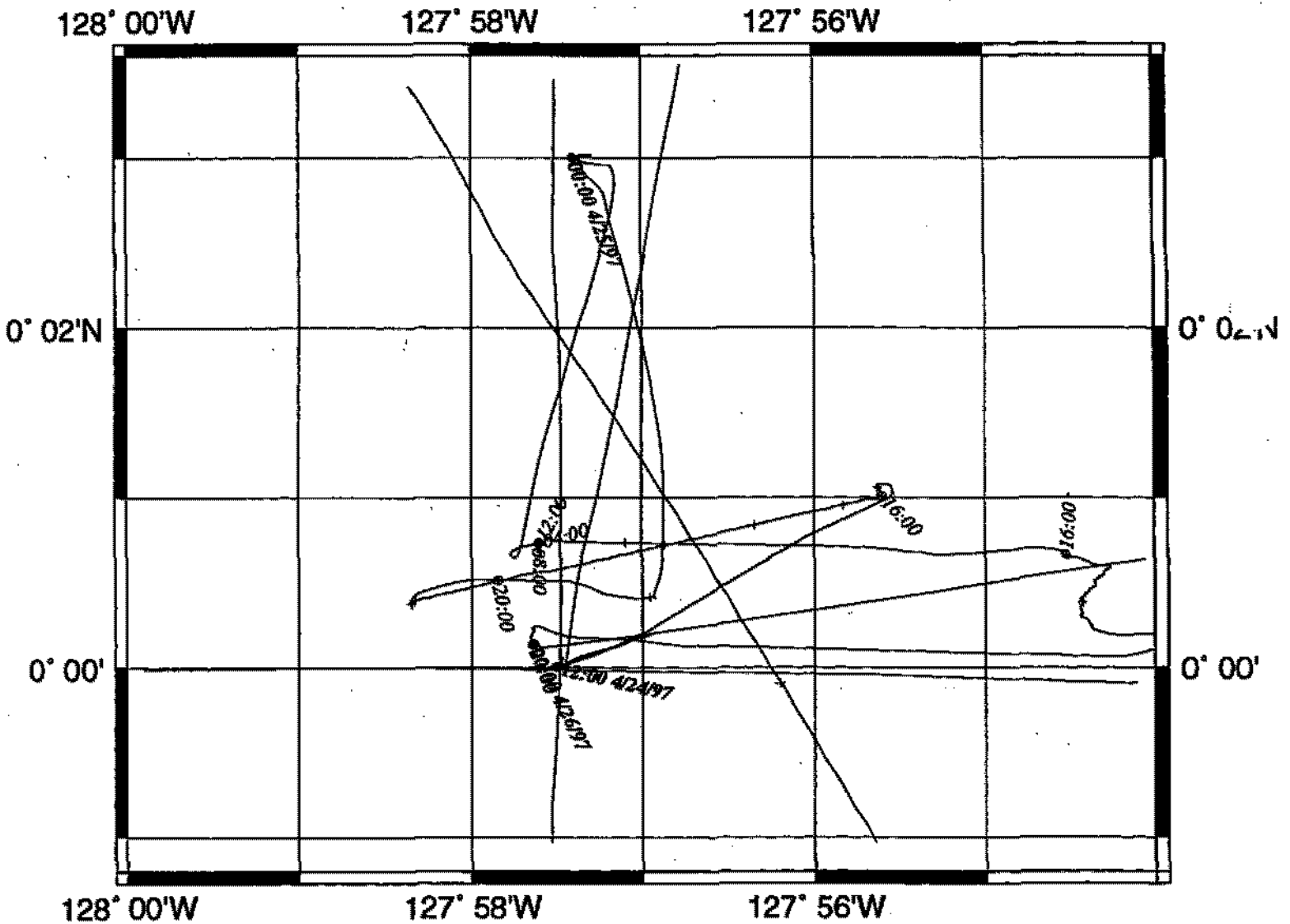
R/V Revelle Genesis Expedition Leg 04



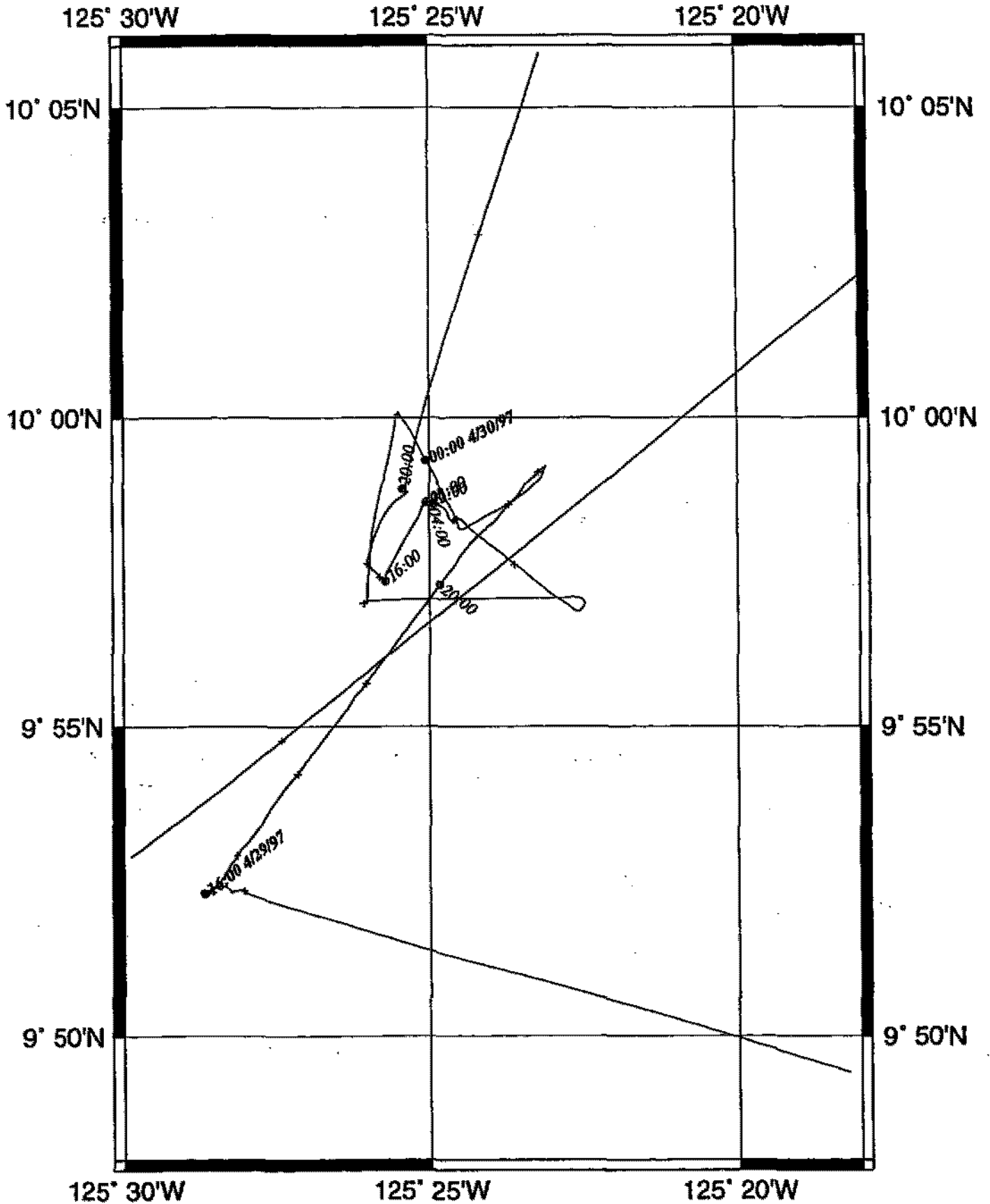
Genesis Leg 04 Survey 21-22Apr97

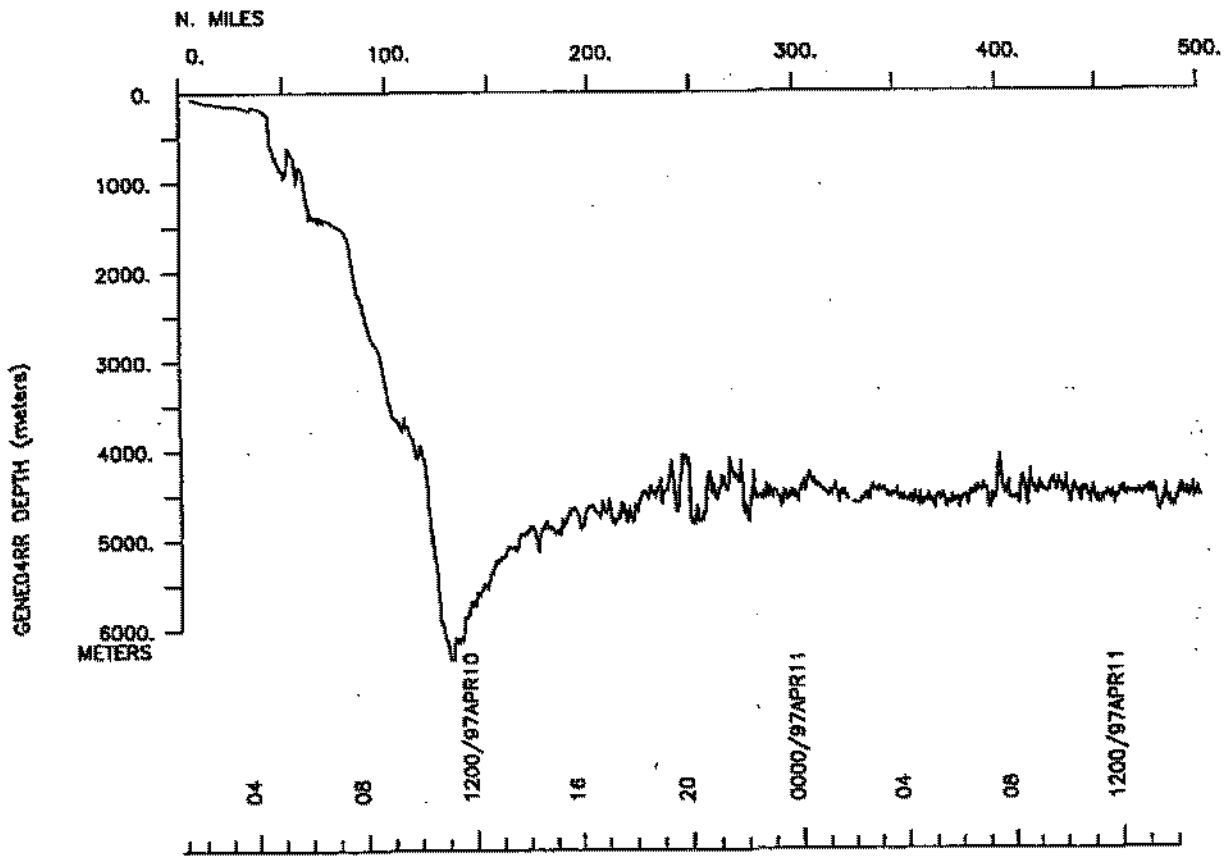


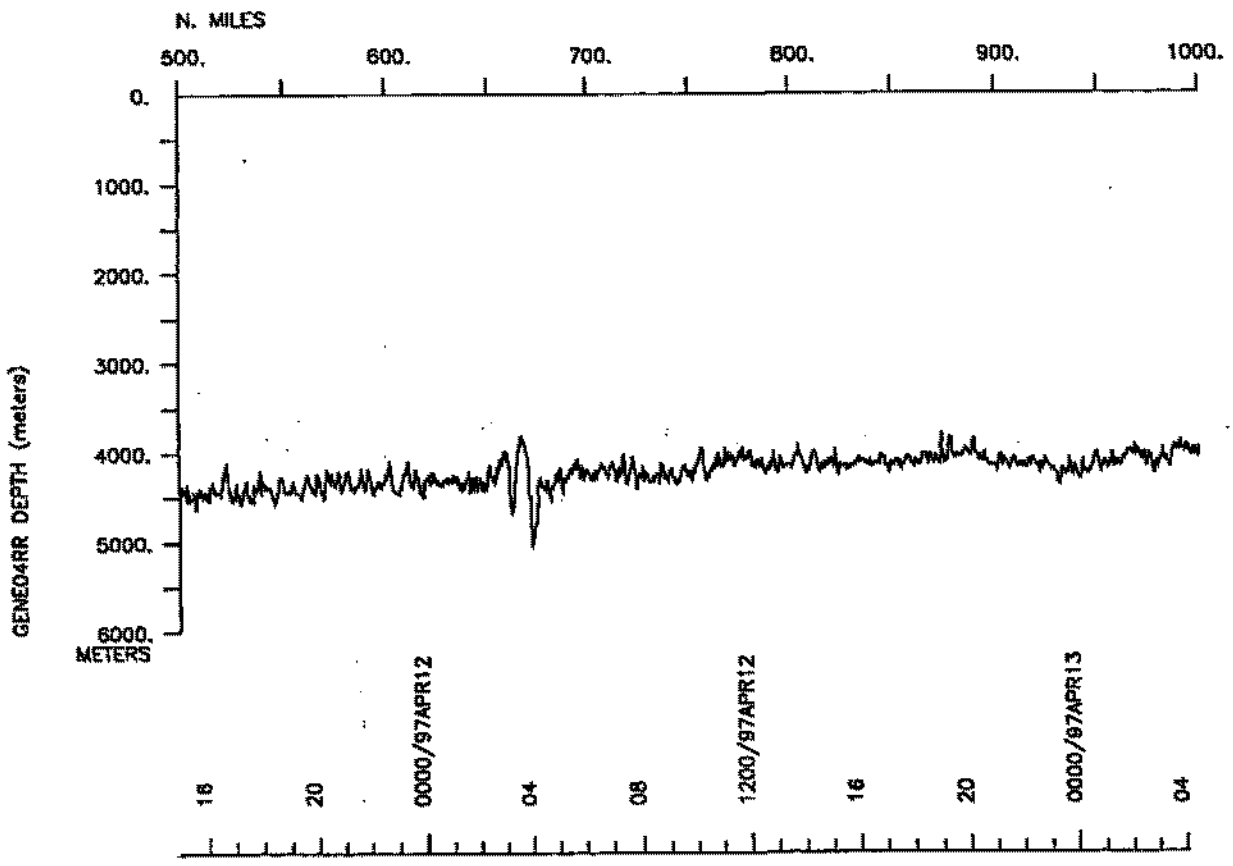
Genesis Leg 04 Survey 24-26Apr97

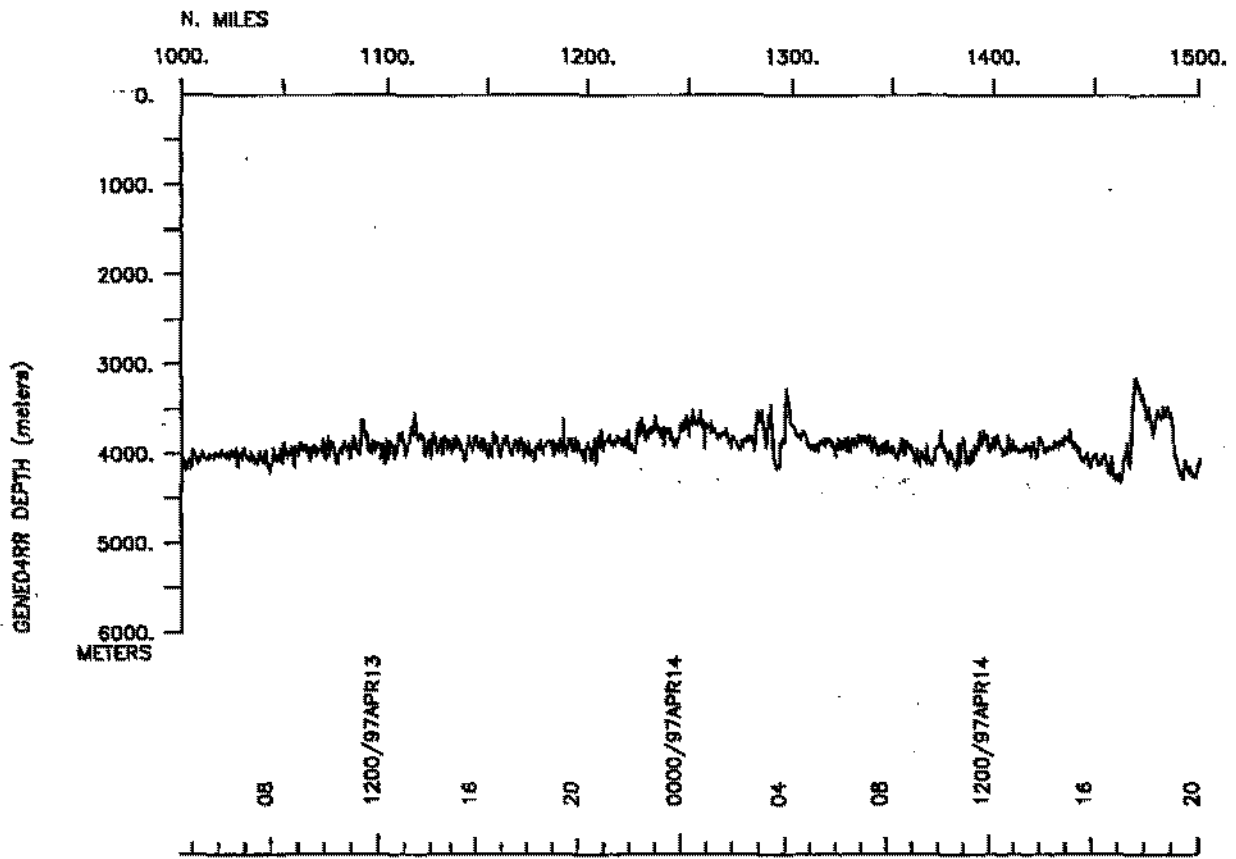


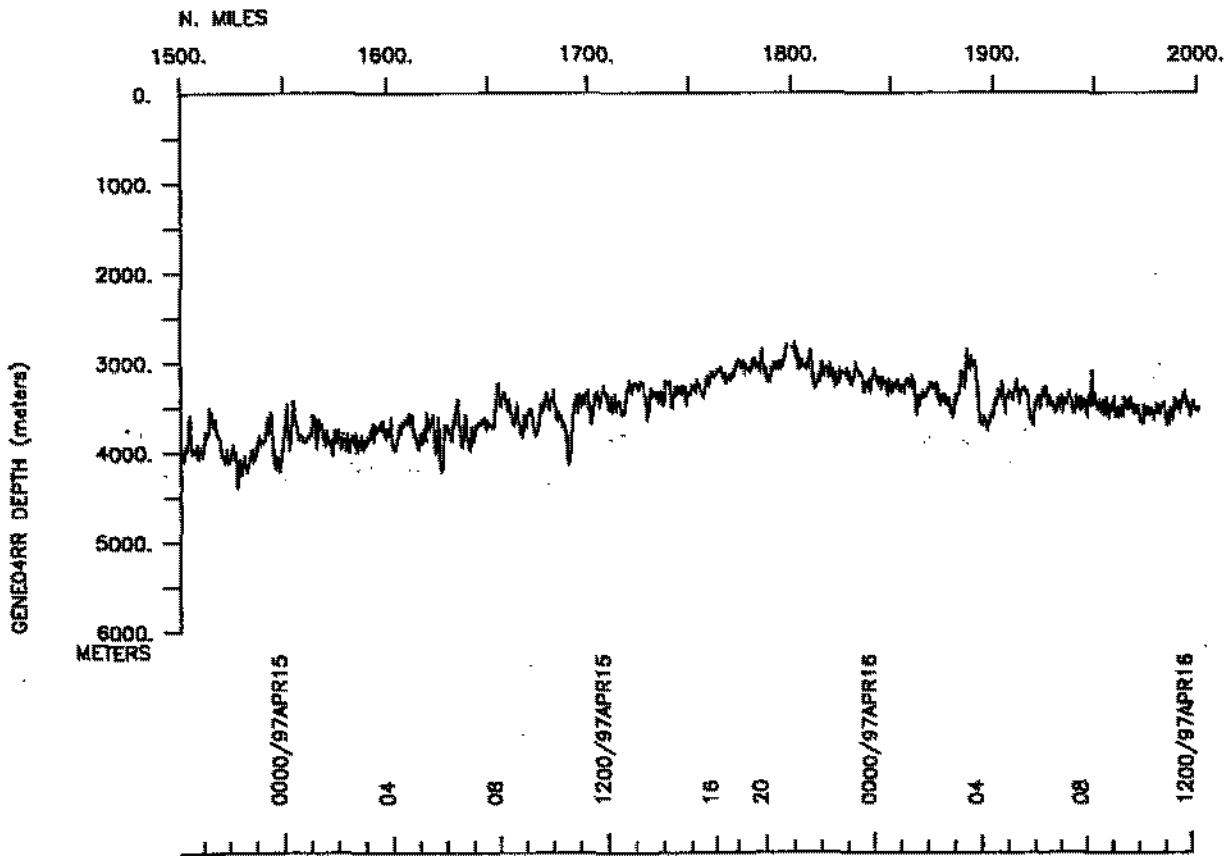
Genesis Leg 04 Survey 29-30Apr97

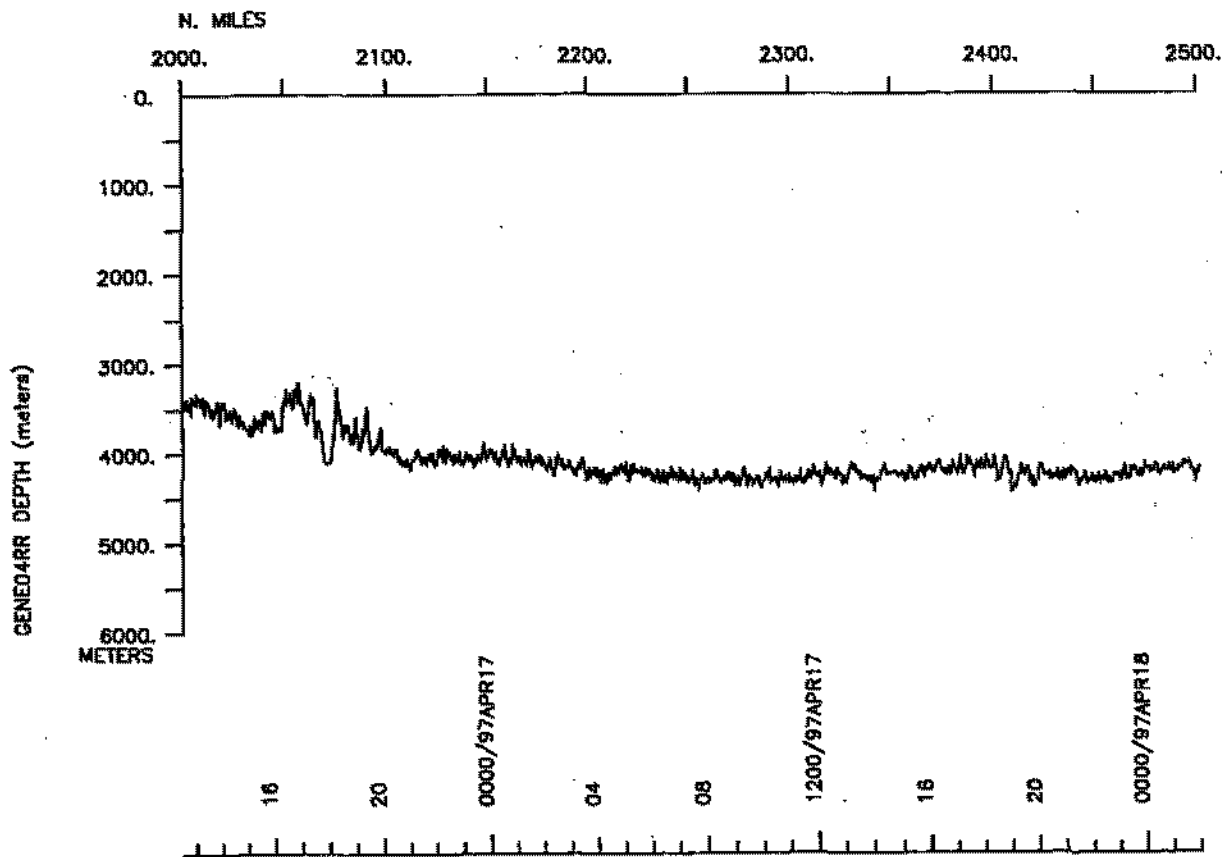


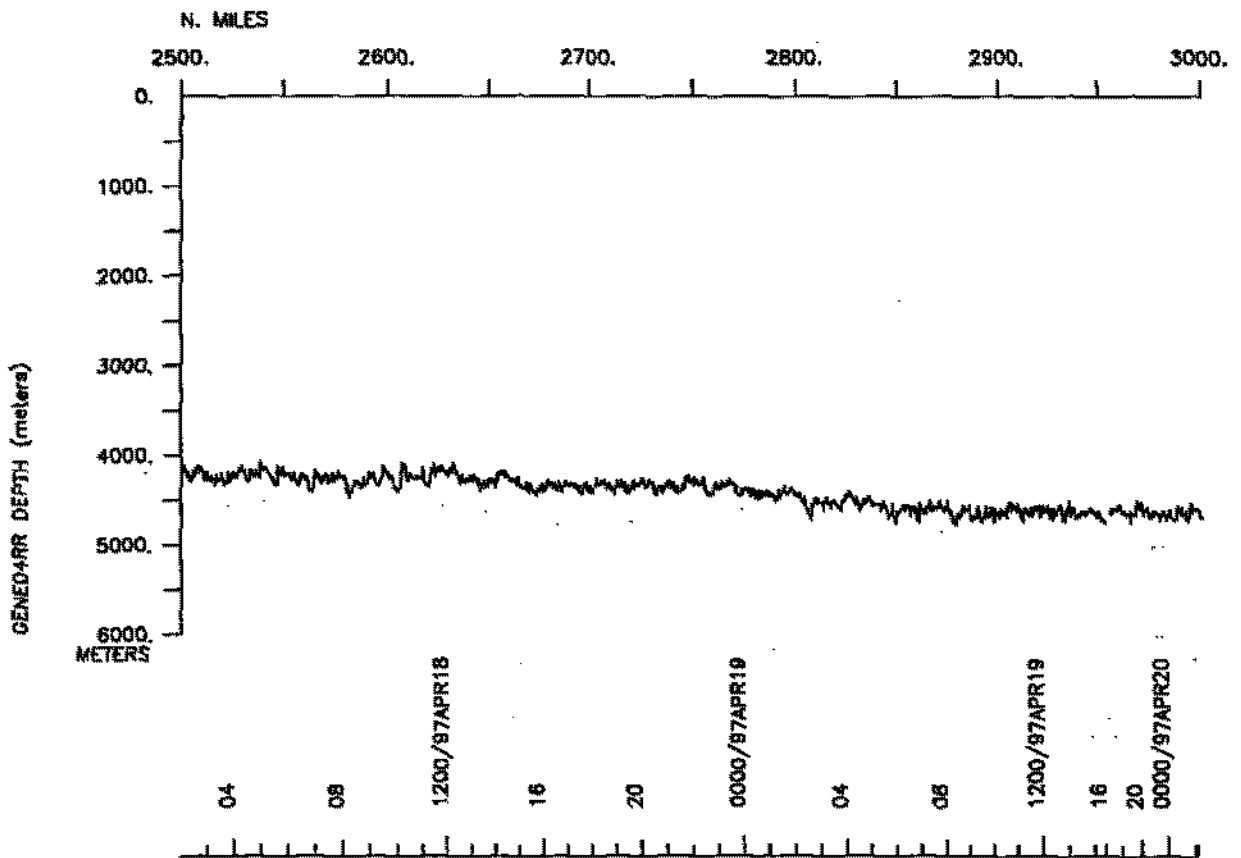


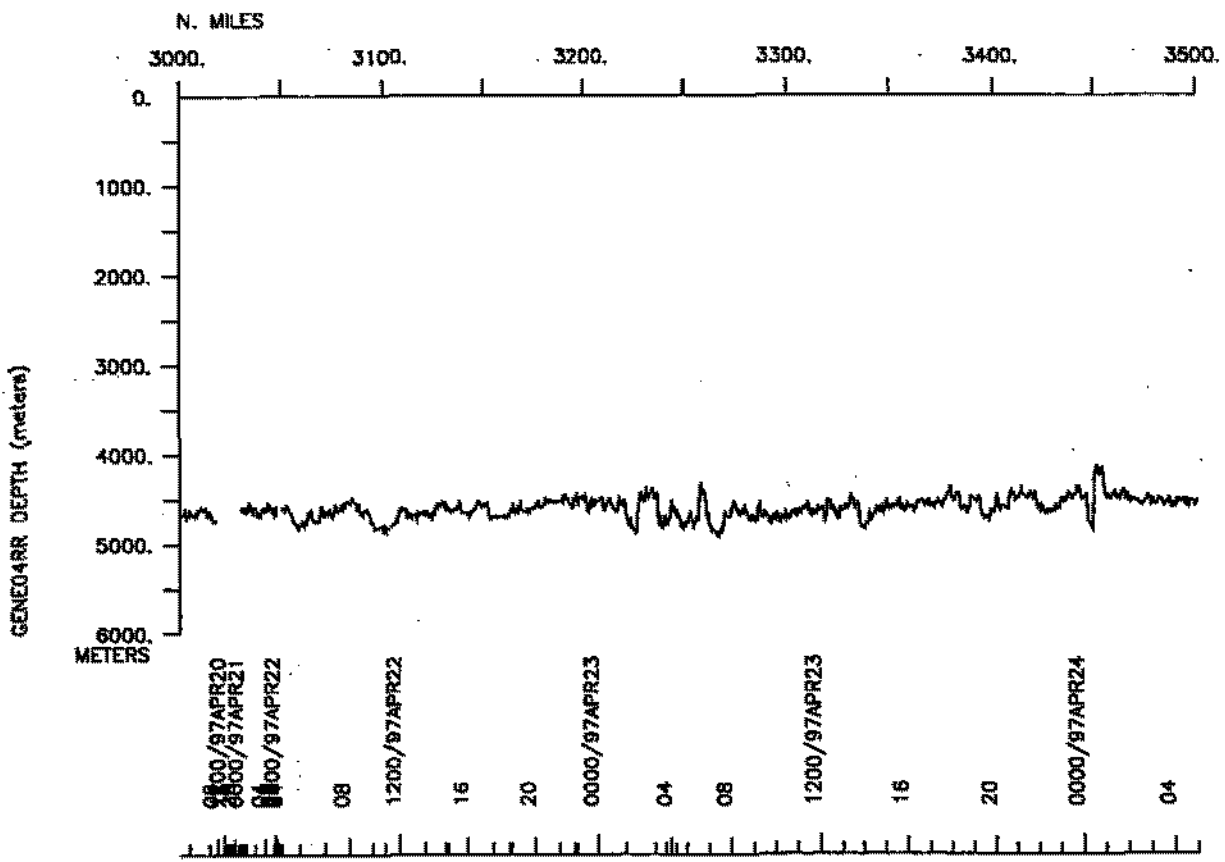


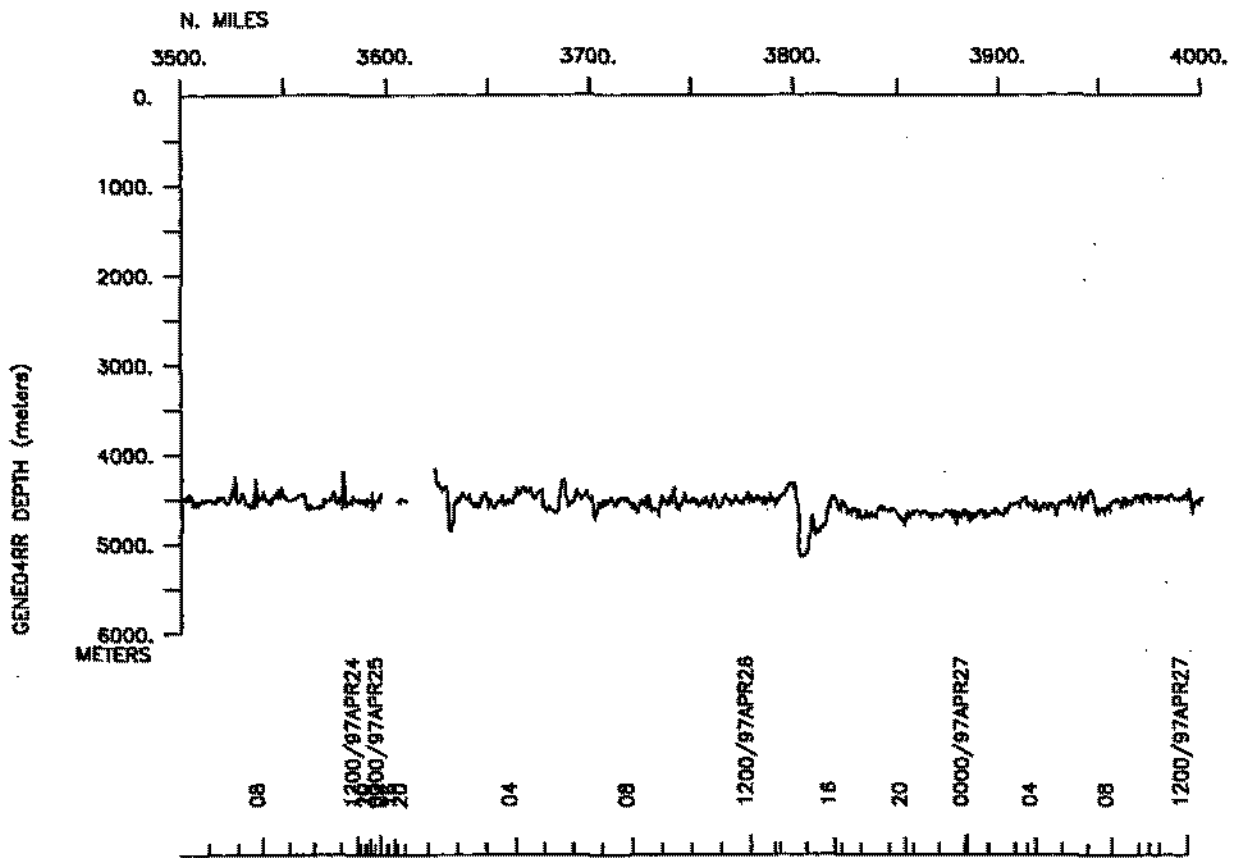


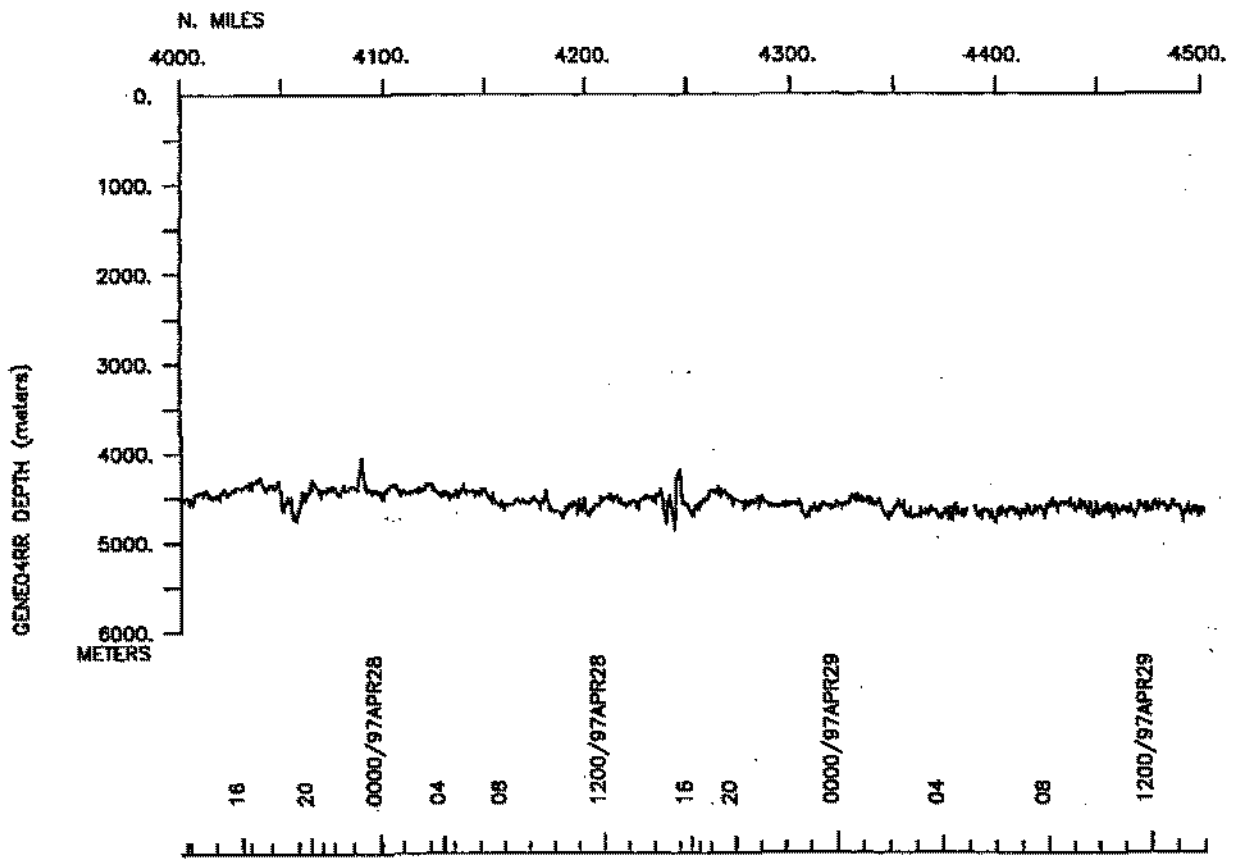


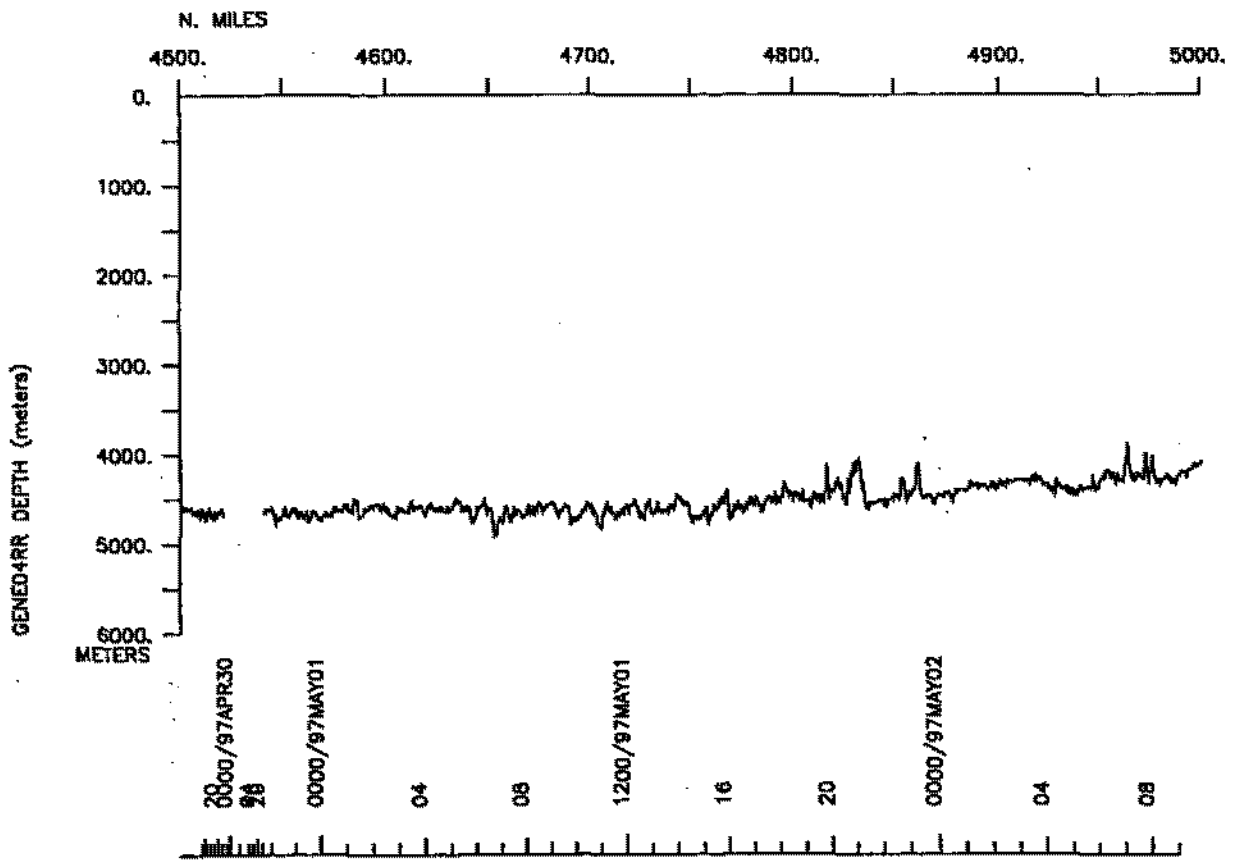


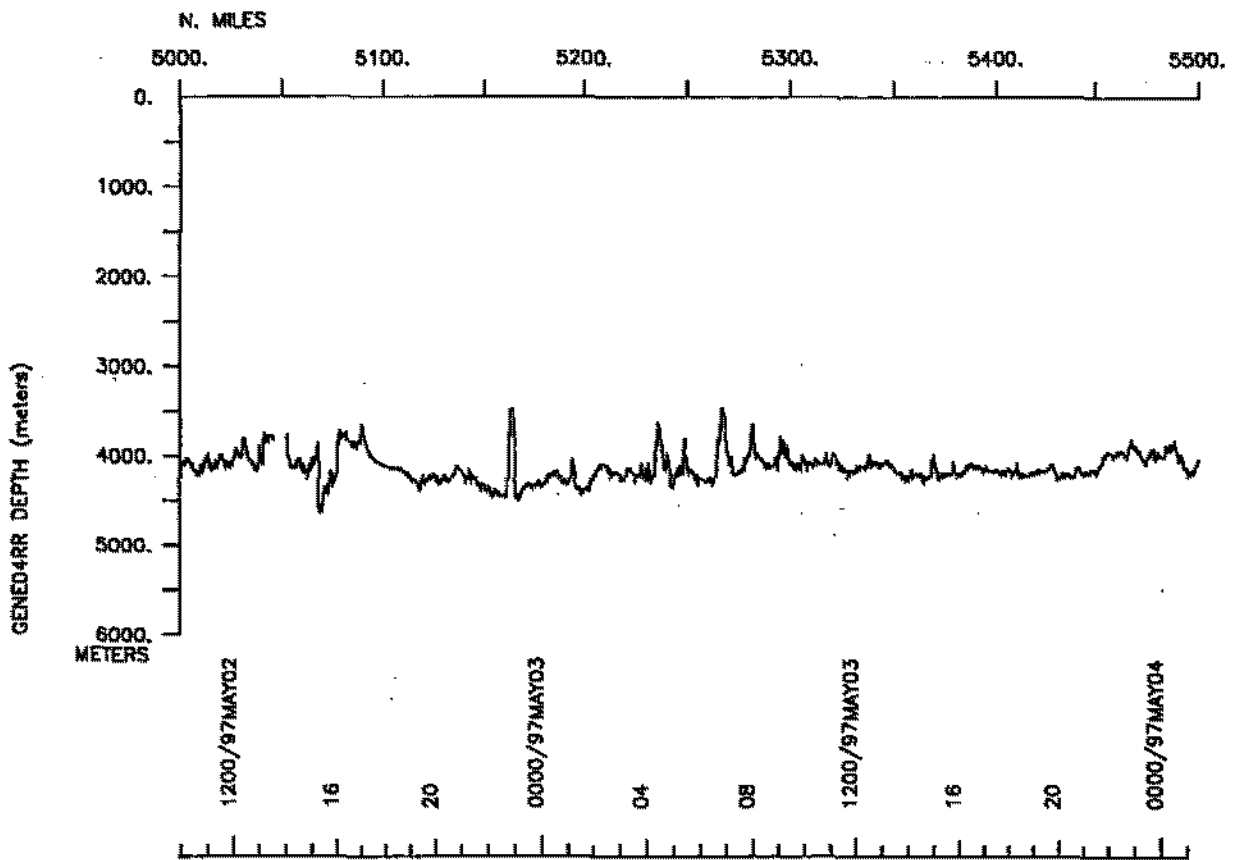


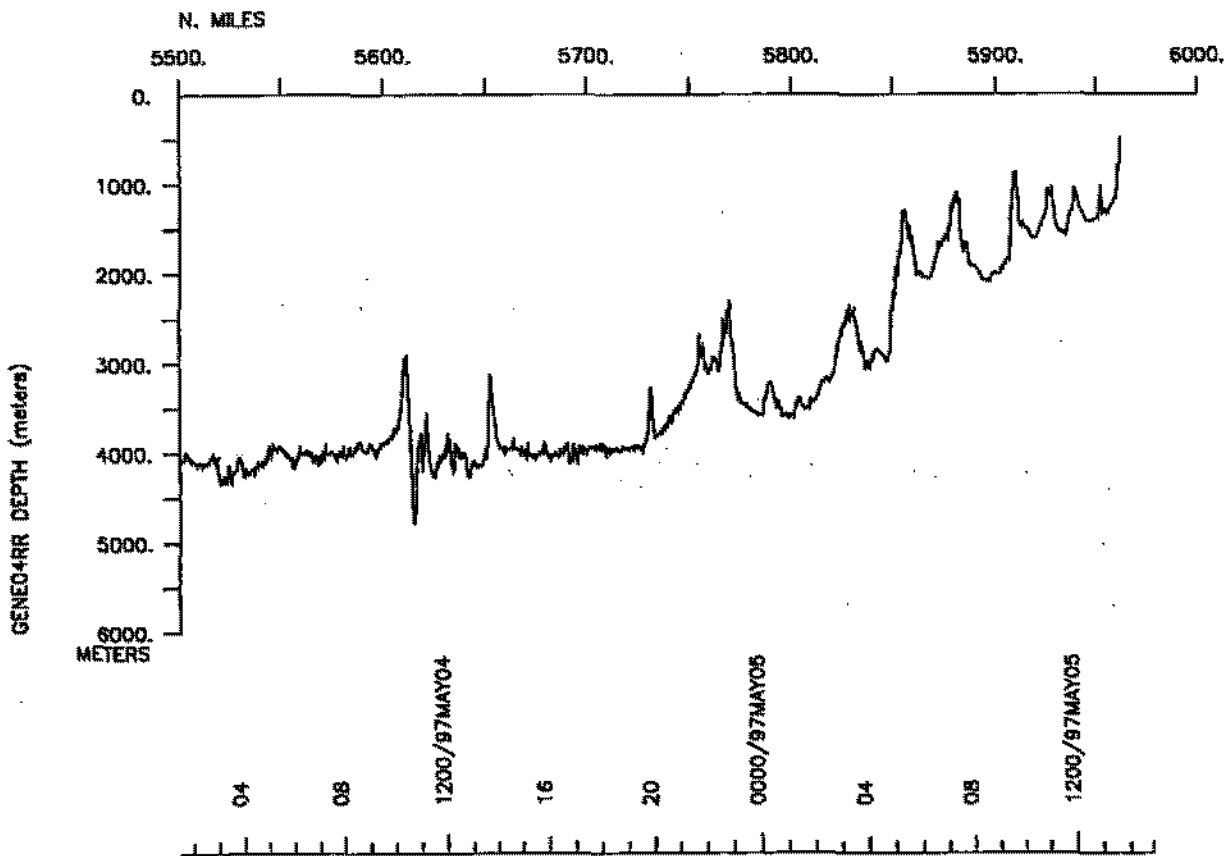












S.I.O. SAMPLE INDEX

GENESIS EXPEDITION

LEG 4

(GENE04RR)

R/V Revelle

(Issued June 1997)

Ports:

Callao, Peru (10 April 1997)

to

San Diego, California (5 May 1997)

Chief Scientist:

Robert Weller - 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.# 272

**** Ports ***

0028	100497	LGPT B Callao, Peru	12-03.00N	77-10.00W	f	GENE04RR
1700	050597	LGPT E San Diego, Ca.	33-43.00N	117-11.00W	f	GENE04RR

**** Personnel ***

#	*****Name*****	*****Title*****	*****Affiliation****	**crid**
PECS	WHOI Weller, R.	Chief Scientist	Woods Hole	GENE04RR
PECT	STS Porteous, T.	Computer Engineer	Scripps Institution	GENE04RR
PERT	STS Wilson, R.	resident Tech	Scripps Institution	GENE04RR
PESP	WHOI Archibald, R.	Technician	Woods Hole	GENE04RR
PEKN	PRU Beltran, L.	Observer	Peru	GENE04RR
PESP	SIX Cole, R.	Scientist	U. of South Florida	GENE04RR
PESP	SIX Donovan, J.	Scientist	U. of South Florida	GENE04RR
PEST	SIX Helber, R.	Student	U. of South Florida	GENE04RR
PEST	SIX Loschnigg, J.	Student	Univ. of Colorado	GENE04RR
PESP	WHOI Ocko, j.	Technicain	Woods Hole	GENE04RR
PESP	WHOI Ostrom, W.	Technicain	Woods Hole	GENE04RR
PEKN	PRU Ruez, J.	Naval Officer	Peru	GENE04RR
PEKN	PRU Rojas, E.	Student	Peru	GENE04RR
PEST	SIX Sahami, K.	Student	Univ. of Colorado	GENE04RR
PEST	SIX Vinmani, J.	Student	U. of South Florida	GENE04RR
PESP	WHOI Ware, J.	Technicain	Woods Hole	GENE04RR
PESP	WHOI Way, B.	Technicain	Woods Hole	GENE04RR
PEST	SIX Webster, B.	Student	Univ. of Colorado	GENE04RR

**** 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	latitude	longitude	p	cruise
#time	date	tz	code	E identifier	code	latitude	longitude	c	leg-ship

*** Underway Data Curator - S. M. Smith ext. 42752 ***

*** Log Books ***

0028	100497	0	LBSC	B	USF mooring log	SIX	12-02.82S	77-08.69W	g	GENE04RR
2154	240497	0	LBSC	E	USF mooring log	SIX	0-00.40N	127-58.35W	g	GENE04RR
0028	100497	0	LBSC	B	mooring log	WHOI	12-02.82S	77-08.69W	g	GENE04RR
2135	290497	0	LBSC	E	mooring log	WHOI	9-59.10N	125-23.23W	g	GENE04RR
0028	100497	0	LBSC	B	met log	WHOI	12-02.82S	77-08.69W	g	GENE04RR
1600	050597	0	LBSC	E	met log	WHOI	29-36.29N	118-24.05W	g	GENE04RR
1617	150497	0	LBSC	B	ctd log	WHOI	5-57.75S	106-11.96W	g	GENE04RR
1752	300497	0	LBSC	E	ctd log	WHOI	9-57.63N	125-26.03W	g	GENE04RR

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

0142	100497	0	MBSR	B	v.beam&sscan r-01	GDC	11-59.93S	77-16.08W	g	GENE04RR
1700	050597	0	MBSR	E	v.beam&sscan r-01	GDC	29-36.29N	118-24.05W	g	GENE04RR

*** Echo Sounder Records ***

1945	100497	0	DPR3	B	3.5khz r-01	GDC	11-05.47S	81-12.34W	g	GENE04RR
2111	190497	0	DPR3	E	3.5khz r-01	GDC	2-29.76S	124-59.82W	g	GENE04RR
2113	190497	0	DPR3	B	3.5khz r-02	GDC	2-29.76S	124-59.82W	g	GENE04RR
1943	270497	0	DPR3	E	3.5khz r-02	GDC	5-00.20N	125-00.05W	g	GENE04RR
1948	270497	0	DPR3	B	3.5khz r-03	GDC	5-00.26N	125-00.02W	g	GENE04RR
0747	050597	0	DPR3	E	3.5khz r-03	GDC	29-36.29N	118-24.05W	g	GENE04RR

*** Anchored Bottom Buoys ***

0003	210497	0	BUAB	B	pacs south	WHOI	2-46.96S	124-39.43W	g	GENE04RR
1700	050597	0	BUAB	C	pacs south	WHOI	29-36.29N	118-24.05W	g	GENE04RR
2154	240497	0	BUAB	B	usf adcp	SIX	0-00.40N	127-58.35W	g	GENE04RR
1700	050597	0	BUAB	C	usf adcp	SIX	29-36.29N	118-24.05W	g	GENE04RR
2135	290497	0	BUAB	B	pacs north	WHOI	9-59.10N	125-23.23W	g	GENE04RR
1700	050597	0	BUAB	C	pacs north	WHOI	29-36.29N	118-24.05W	g	GENE04RR

#gmt	ddmmyy	samp	B	sample	disp	latitude	longitude	p	cruise
#time	date	tz	code	E identifier	code			c	leg-ship
#									
*** Conductivity, Temperature, Depth, Salinity ***									
1617	150497	0	TDXX	B ts	1000m	WHOI 5-57.75S	106-11.96W	g	GENE04RR
1717	150497	0	TDXX	E ts	1000m	WHOI 5-57.75S	106-11.96W	g	GENE04RR
1508	190497	0	TDXX	B ts	4000m	WHOI 2-45.00S	124-51.60W	g	GENE04RR
1752	190497	0	TDXX	E ts	4000m	WHOI 2-45.00S	124-51.60W	g	GENE04RR
2016	190497	0	TDXX	B ts	4000m	WHOI 2-29.83S	124-59.86W	g	GENE04RR
2244	190497	0	TDXX	E ts	4000m	WHOI 2-29.76S	124-59.82W	g	GENE04RR
0021	200497	0	TDXX	B ts	4000m	WHOI 2-40.15S	124-46.54W	g	GENE04RR
0446	200497	0	TDXX	E ts	4000m	WHOI 2-46.06S	124-39.49W	g	GENE04RR
1018	220497	0	TDXX	B ts	1000m	WHOI 2-00.01S	125-00.00W	g	GENE04RR
1104	220497	0	TDXX	E ts	1000m	WHOI 2-00.02S	124-59.94W	g	GENE04RR
1404	220497	0	TDXX	B ts	1000m	WHOI 1-29.96S	124-59.92W	g	GENE04RR
1500	220497	0	TDXX	E ts	1000m	WHOI 1-29.71S	124-58.82W	g	GENE04RR
1756	220497	0	TDXX	B ts	1200m	WHOI 0-59.98S	124-59.99W	g	GENE04RR
1852	220497	0	TDXX	E ts	1200m	WHOI 1-00.16S	124-58.67W	g	GENE04RR
2200	220497	0	TDXX	B ts	1500m	WHOI 0-29.99S	124-59.98W	g	GENE04RR
2307	220497	0	TDXX	E ts	1500m	WHOI 0-29.74S	124-58.52W	g	GENE04RR
0400	230497	0	TDXX	B ts	1000m	WHOI 0-12.71S	124-21.06W	g	GENE04RR
0504	230497	0	TDXX	E ts	1000m	WHOI 0-12.71S	124-18.40W	g	GENE04RR
1526	250497	0	TDXX	B ts	4000m	WHOI 0-00.66N	127-55.26W	g	GENE04RR
1757	250497	0	TDXX	E ts	4000m	WHOI 0-00.19N	127-53.97W	g	GENE04RR
1256	260497	0	TDXX	B ts	1000m	WHOI 0-30.09N	124-59.73W	g	GENE04RR
1343	260497	0	TDXX	E ts	1000m	WHOI 0-30.39N	124-58.53W	g	GENE04RR
1630	260497	0	TDXX	B ts	1000m	WHOI 1-00.11N	124-59.93W	g	GENE04RR
1710	260497	0	TDXX	E ts	1000m	WHOI 1-00.61N	124-59.25W	g	GENE04RR
1947	260497	0	TDXX	B ts	1000m	WHOI 1-30.04N	124-59.95W	g	GENE04RR
2039	260497	0	TDXX	E ts	1000m	WHOI 1-30.66N	124-59.43W	g	GENE04RR
2307	260497	0	TDXX	B ts	1000m	WHOI 1-59.99N	125-00.06W	g	GENE04RR
2358	260497	0	TDXX	E ts	1000m	WHOI 2-00.32N	124-59.88W	g	GENE04RR
0235	270497	0	TDXX	B ts	1000m	WHOI 2-29.91N	125-00.00W	g	GENE04RR
0337	270497	0	TDXX	E ts	1000m	WHOI 2-30.28N	124-59.83W	g	GENE04RR
0600	270497	0	TDXX	B ts	1000m	WHOI 2-59.95N	124-59.96W	g	GENE04RR
0657	270497	0	TDXX	E ts	1000m	WHOI 3-00.49N	124-59.84W	g	GENE04RR
0934	270497	0	TDXX	B ts	1000m	WHOI 3-30.04N	124-59.97W	g	GENE04RR
1027	270497	0	TDXX	E ts	1000m	WHOI 3-30.60N	124-59.45W	g	GENE04RR
1302	270497	0	TDXX	B ts	1000m	WHOI 3-59.97N	124-59.88W	g	GENE04RR
1353	270497	0	TDXX	E ts	1000m	WHOI 4-00.50N	124-59.18W	g	GENE04RR
1529	300497	0	TDXX	B ts	4000m	WHOI 9-57.34N	125-25.73W	g	GENE04RR
1752	300497	0	TDXX	E ts	4000m	WHOI 9-57.63N	125-26.03W	g	GENE04RR
#					End Sample Index				GENE04RR