

*Report and Index of
Underway Marine Geophysical Data*

GENESIS EXPEDITION

LEG 3

(GENE03RR)

R/V REVELLE

(Issued June 1997)

Ports:

Punta Arenas, Chile (23 February 1997)

to

Callao, Peru (5 April 1997)

Chief Scientist : Alan Mix, Oregon State University

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
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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

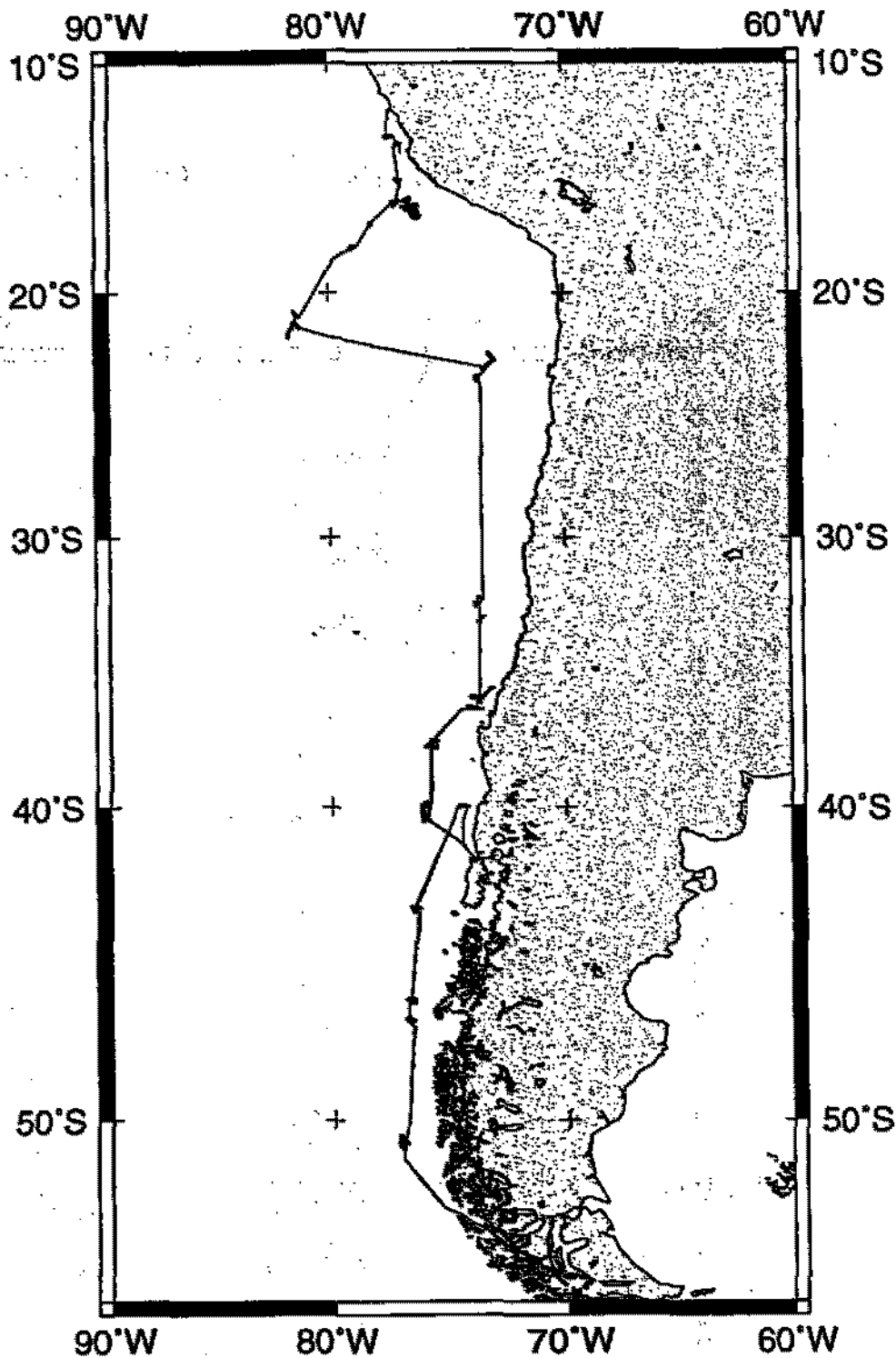
rev10/96

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 3

CHIEF SCIENTIST: Alan Mix, Oregon State University

PORTS: Punta Arenas, Chile - Callao, Peru

DATES: 23 February - 5 April 1997

SHIP: R/V Revelle

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

Cruise - 6486 miles

Magnetics - 346 miles

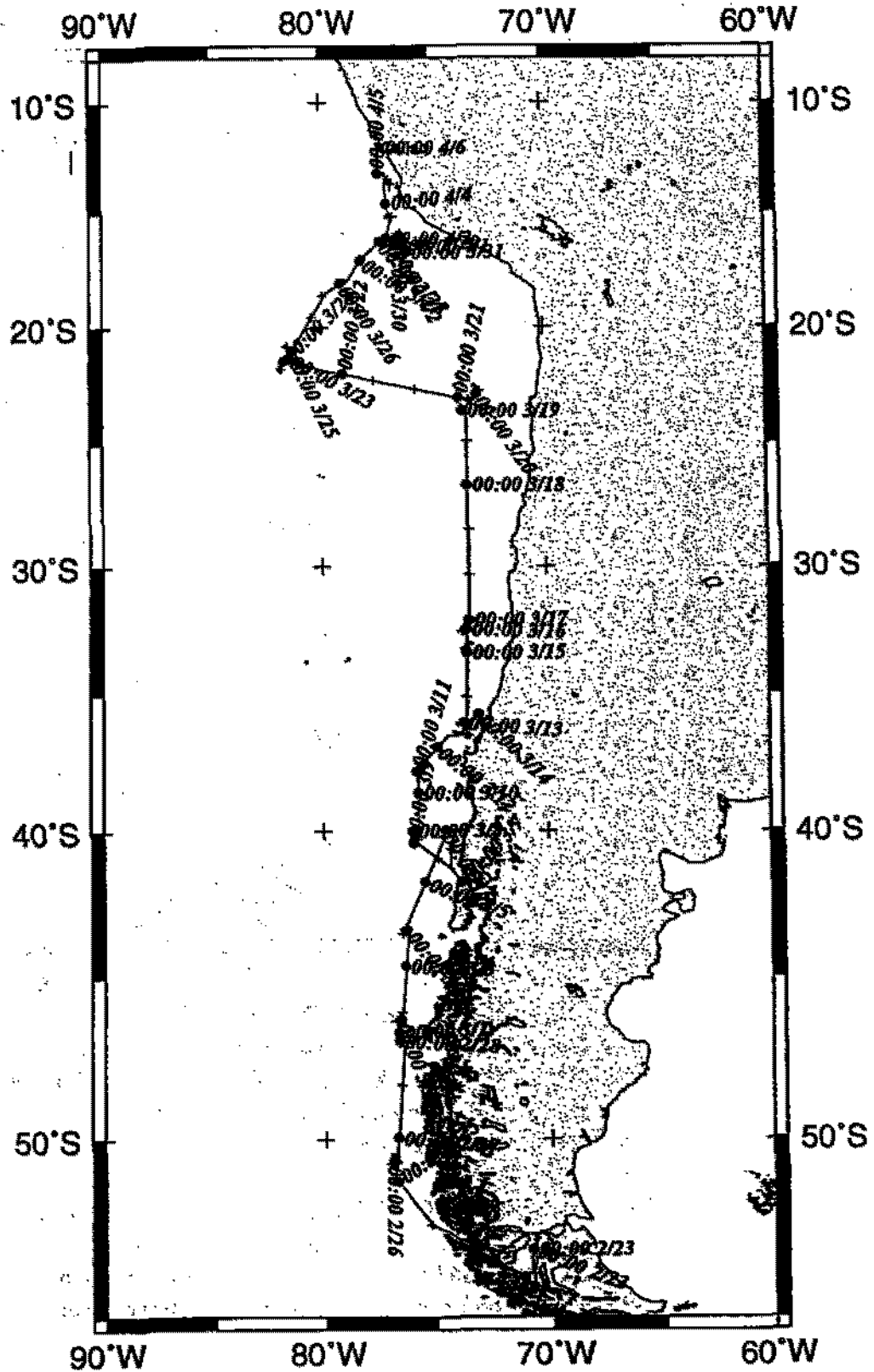
Bathymetry - 5663 miles

Seismic Reflection - none collected

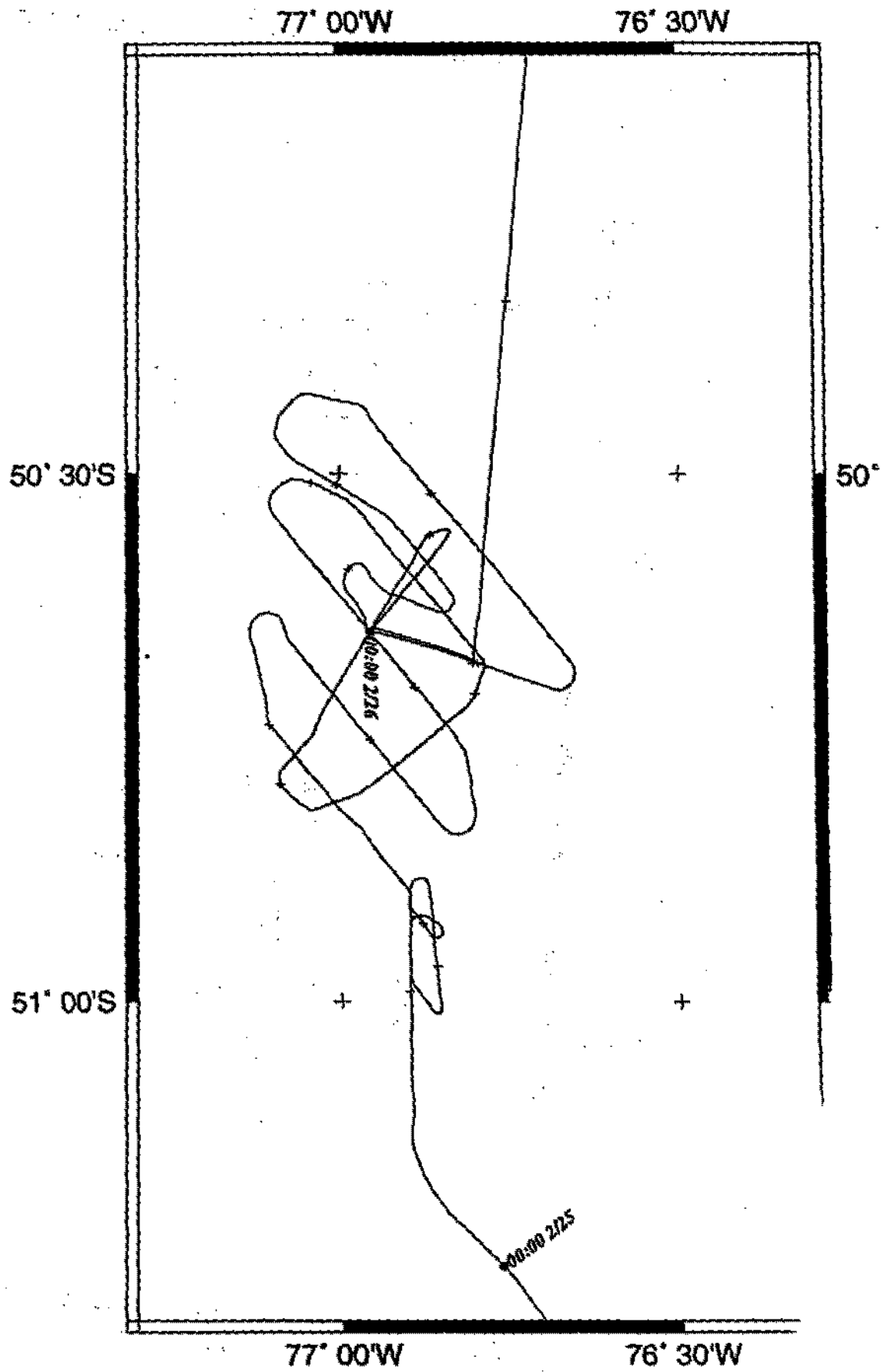
Sea Beam - 5663 miles

Gravity - none collected

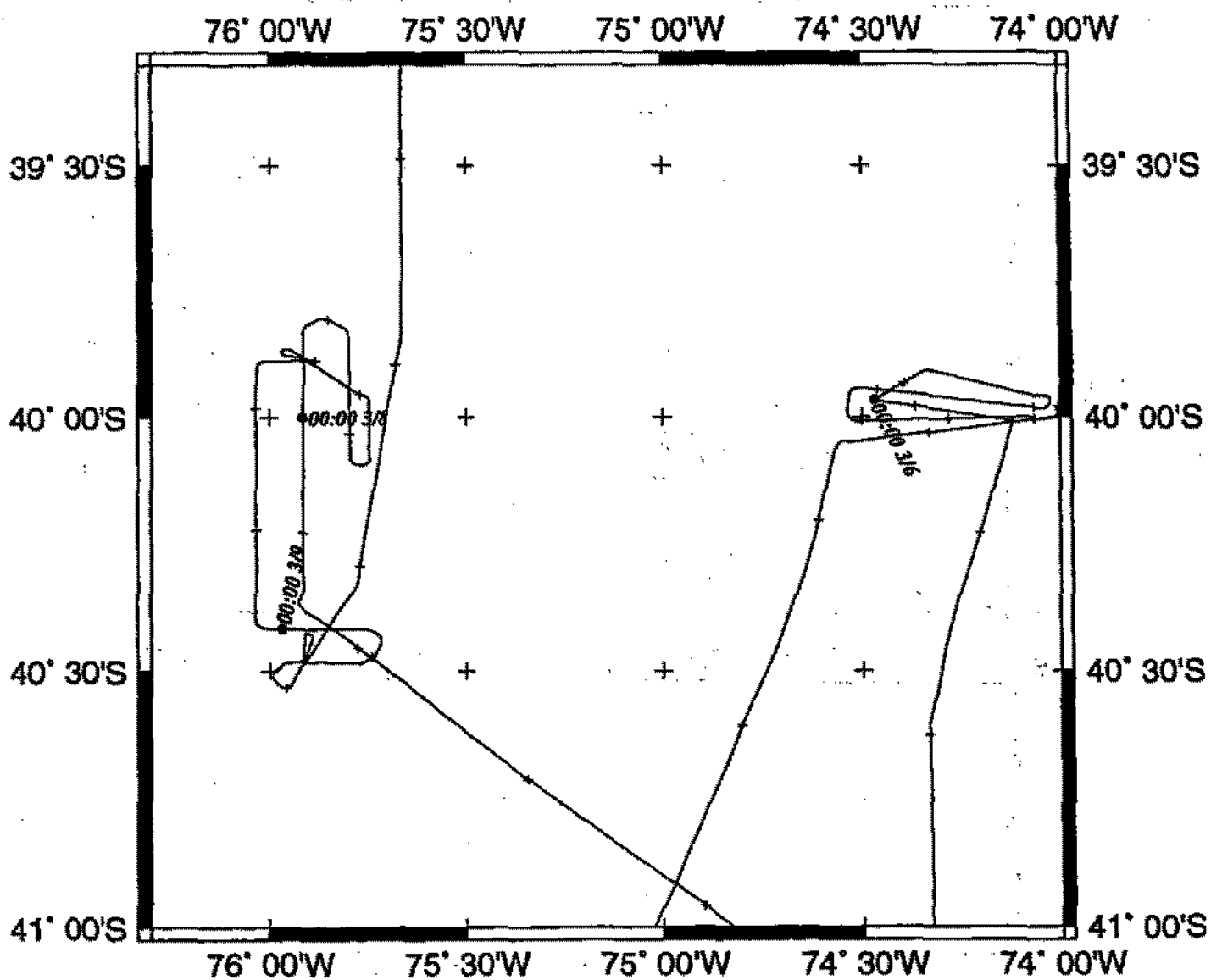
R/V Revelle Genesis Expedition Leg 03



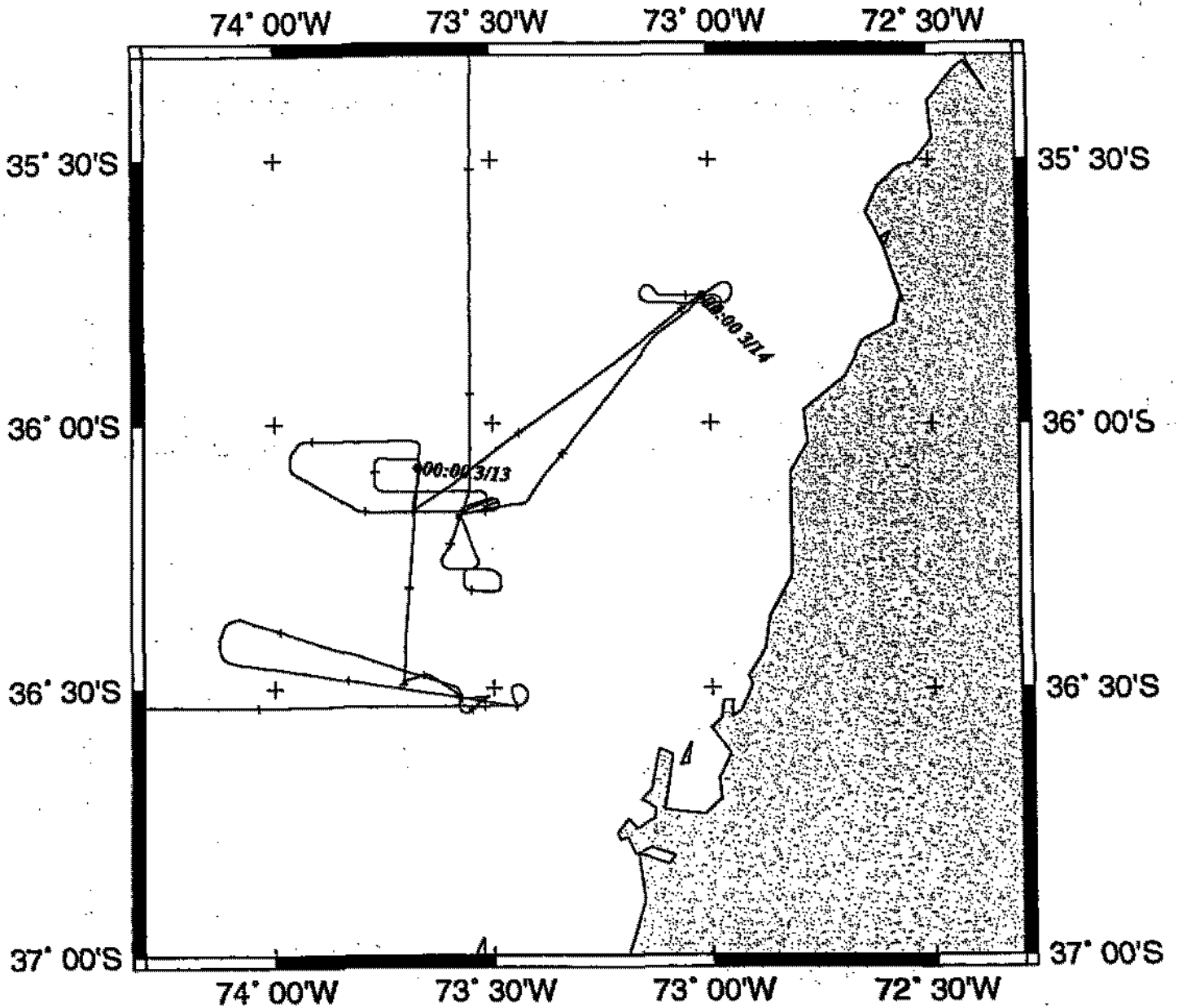
Genesis Leg 3 Survey 24-26Feb/97



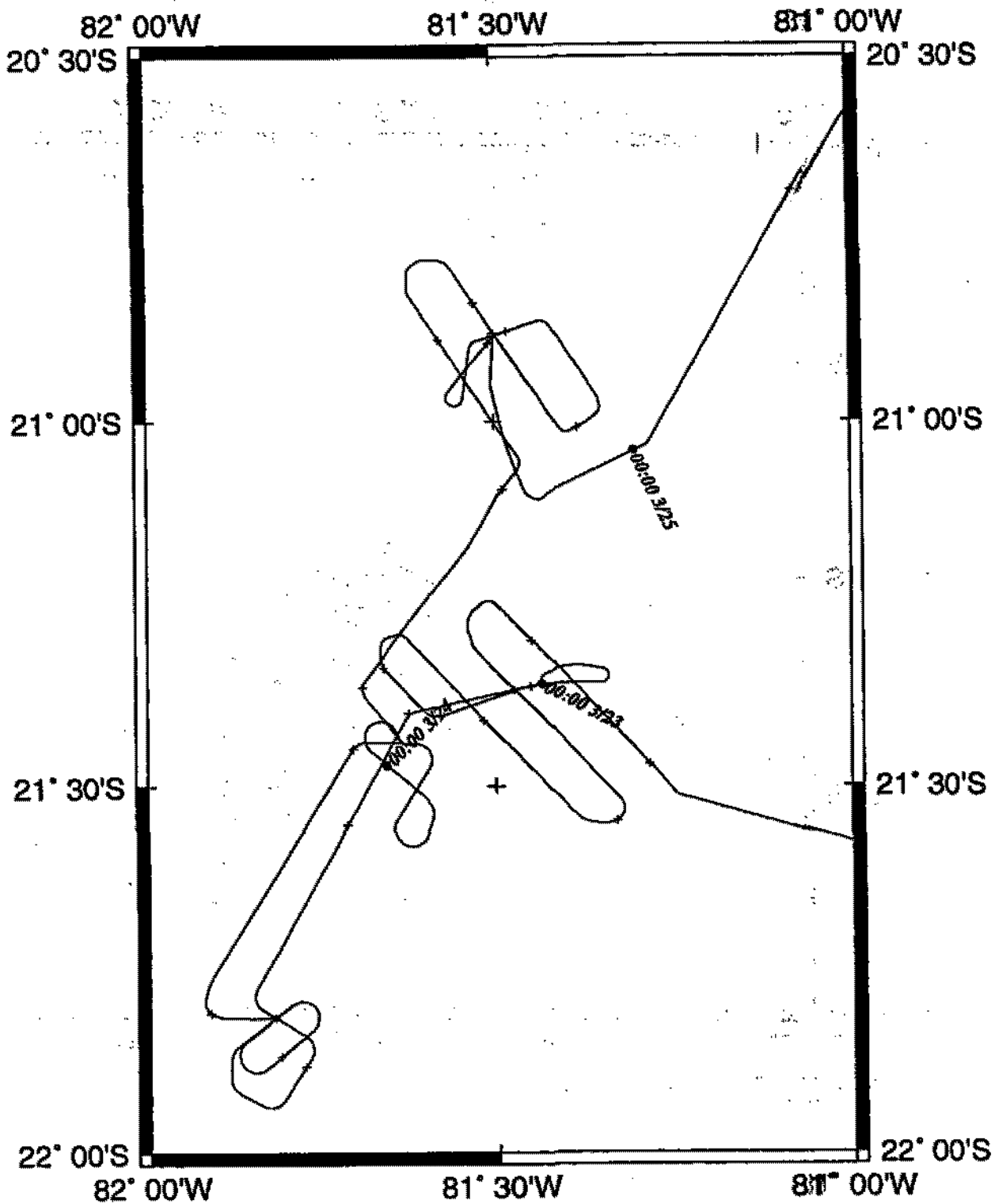
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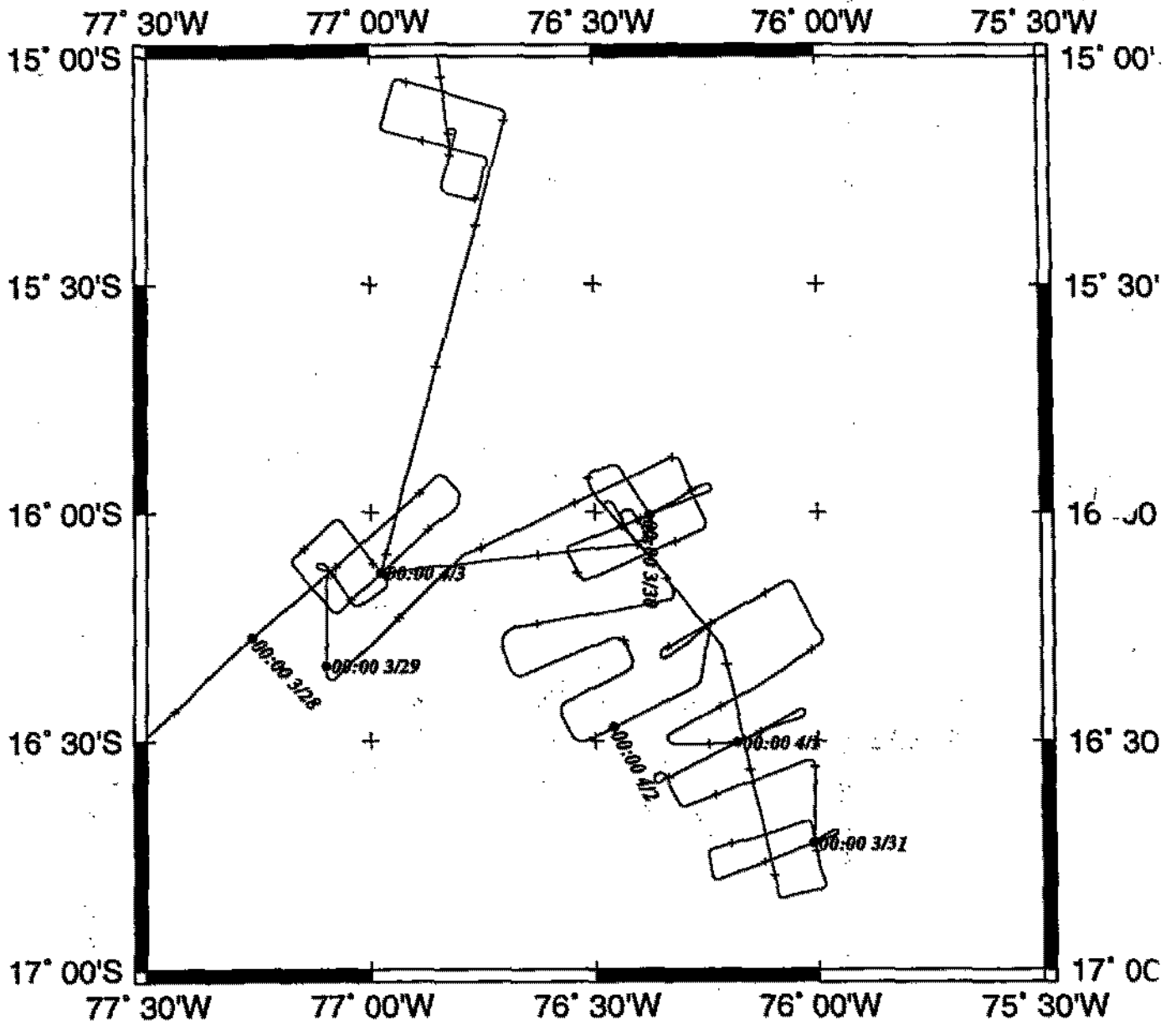
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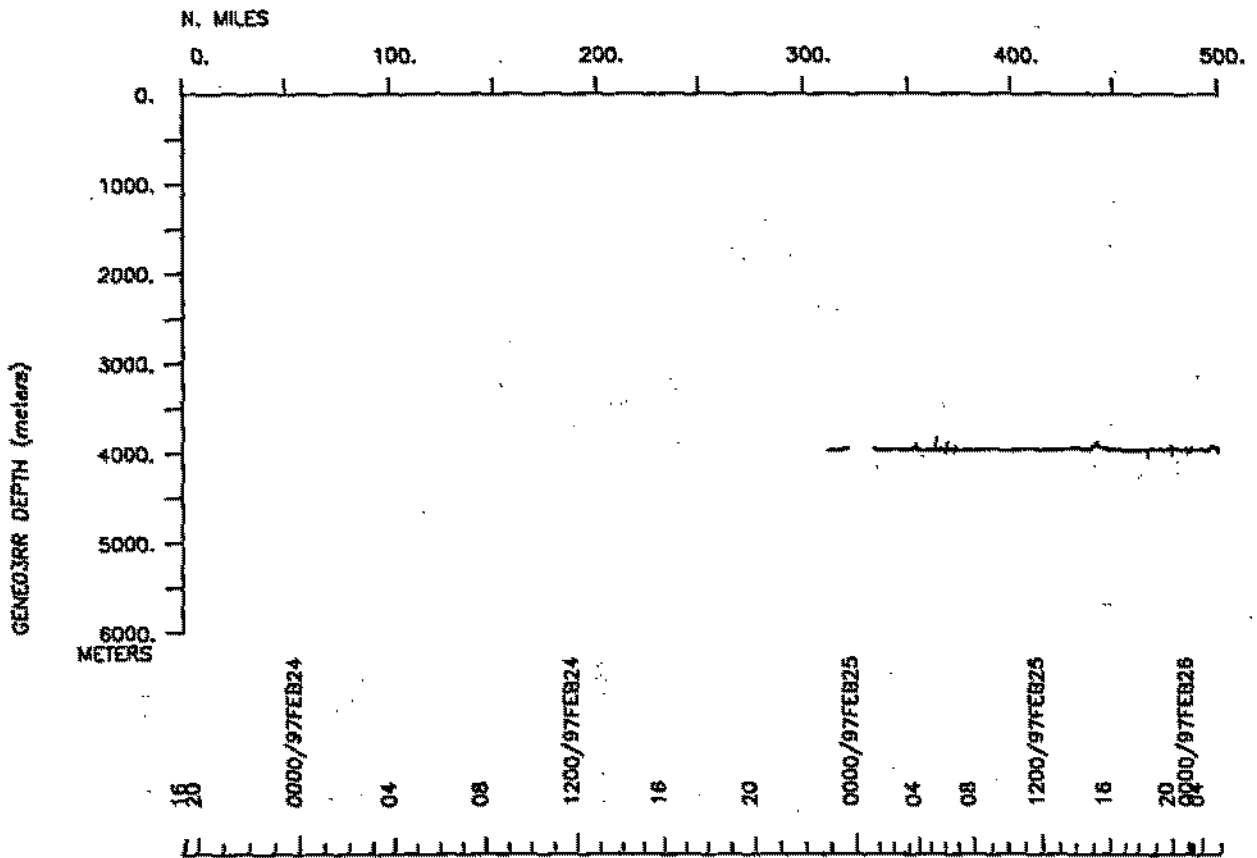
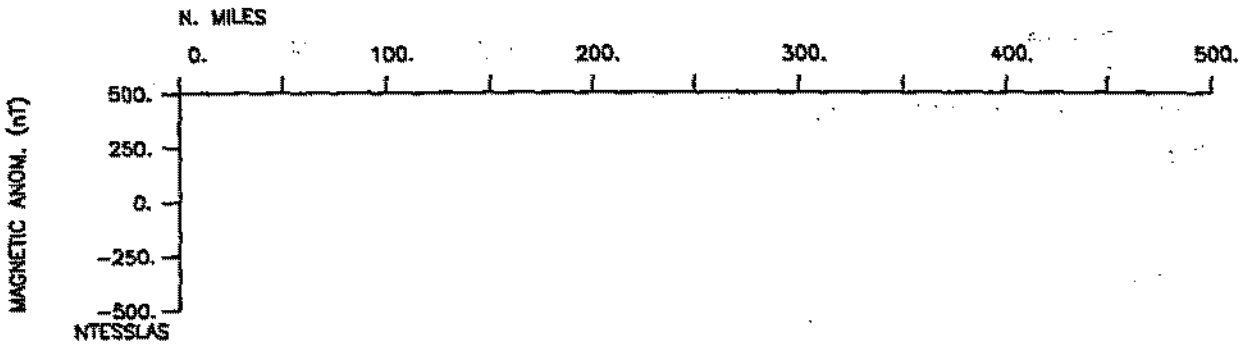


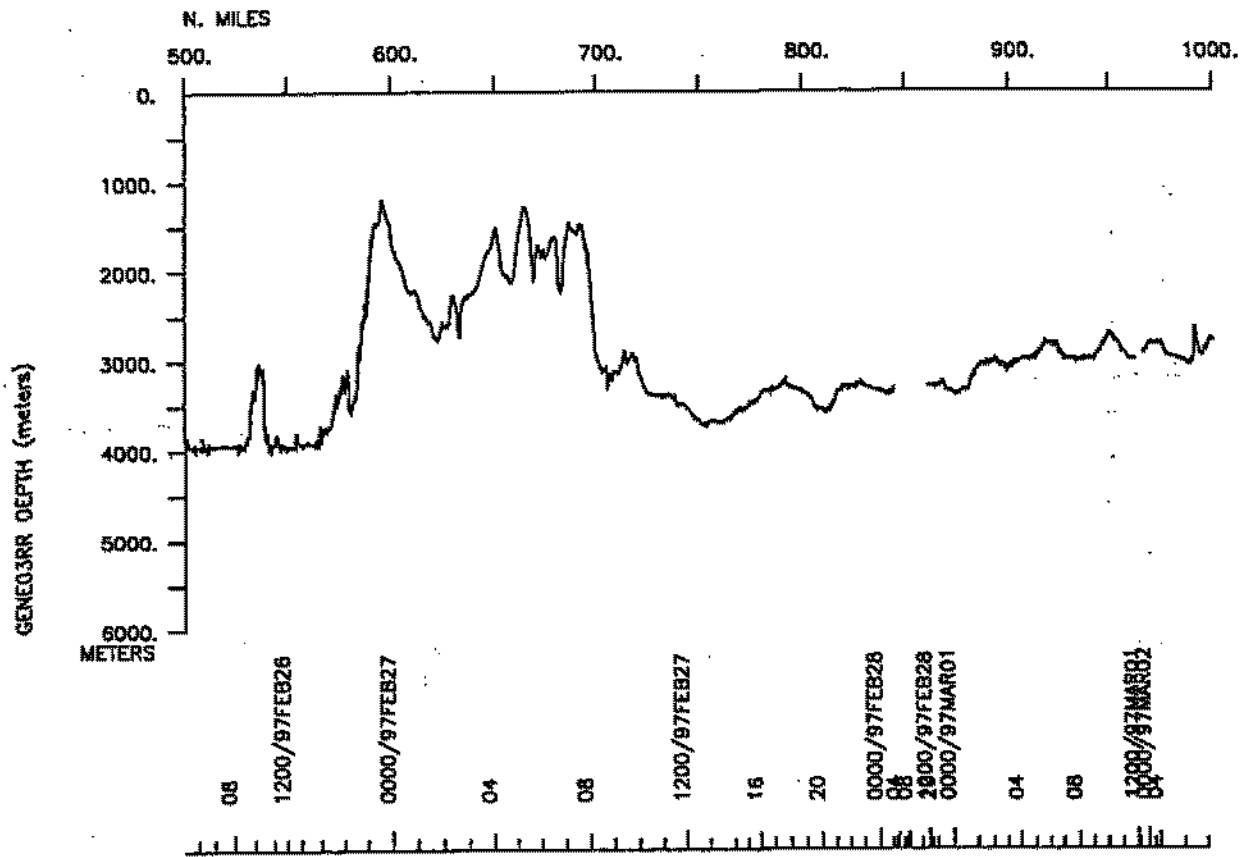
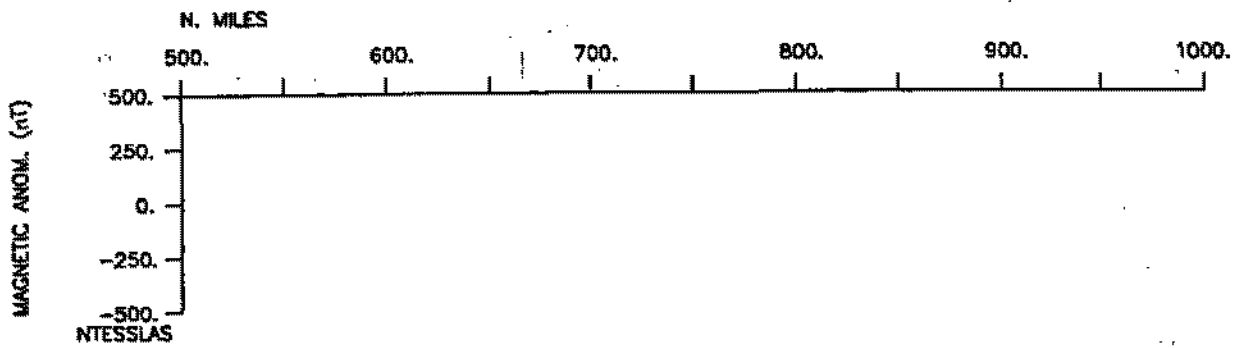
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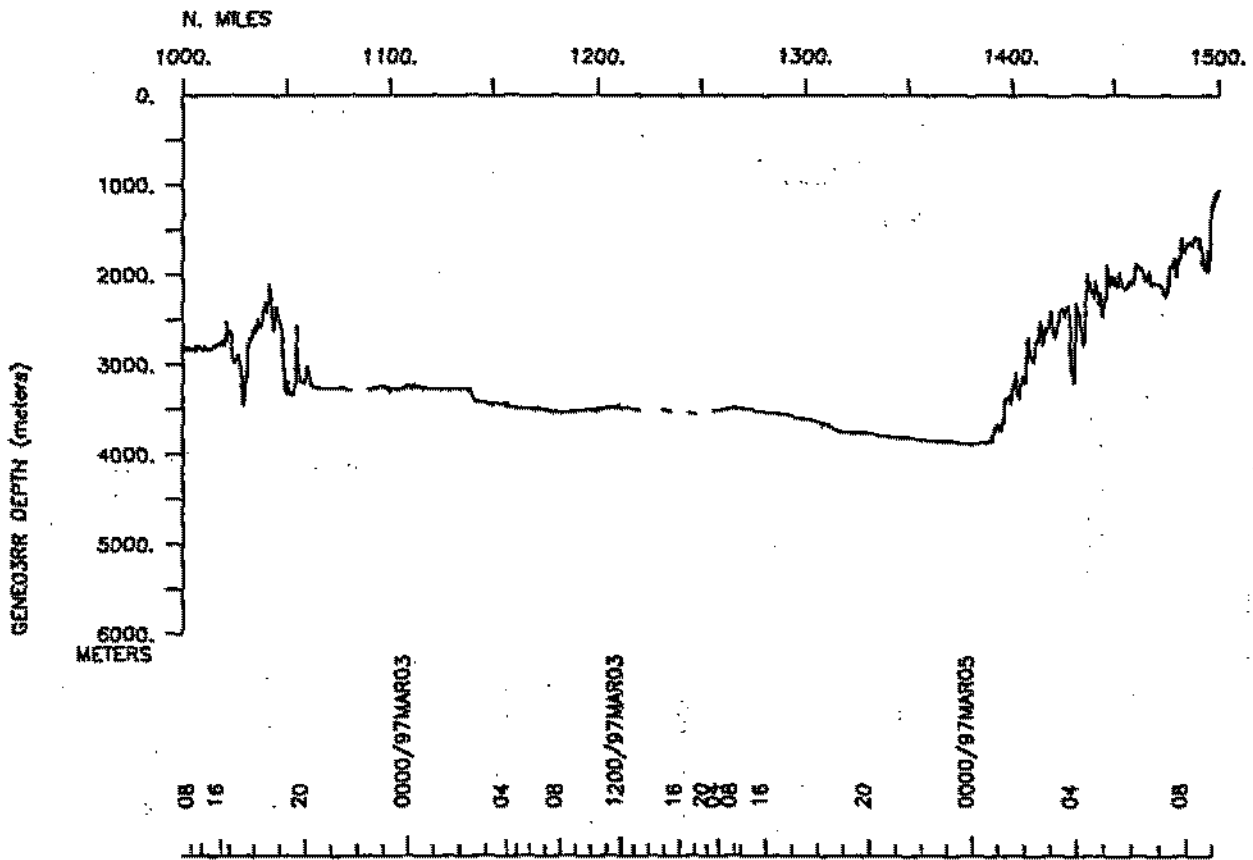
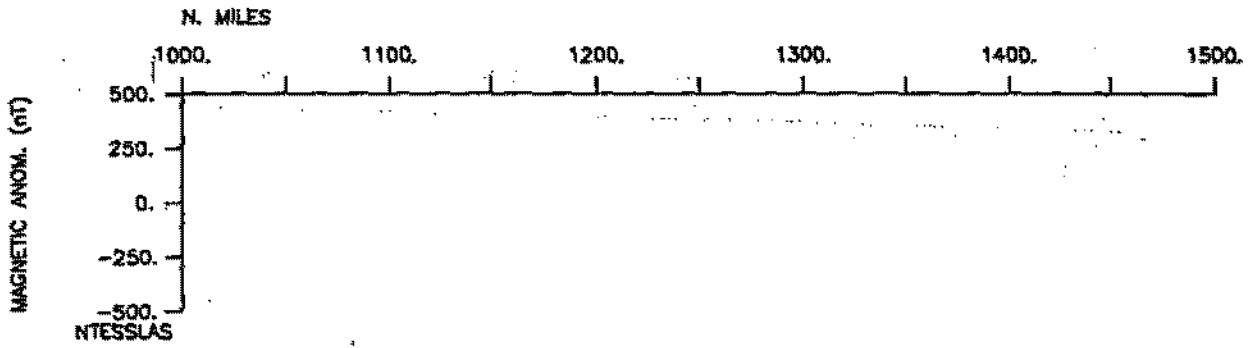


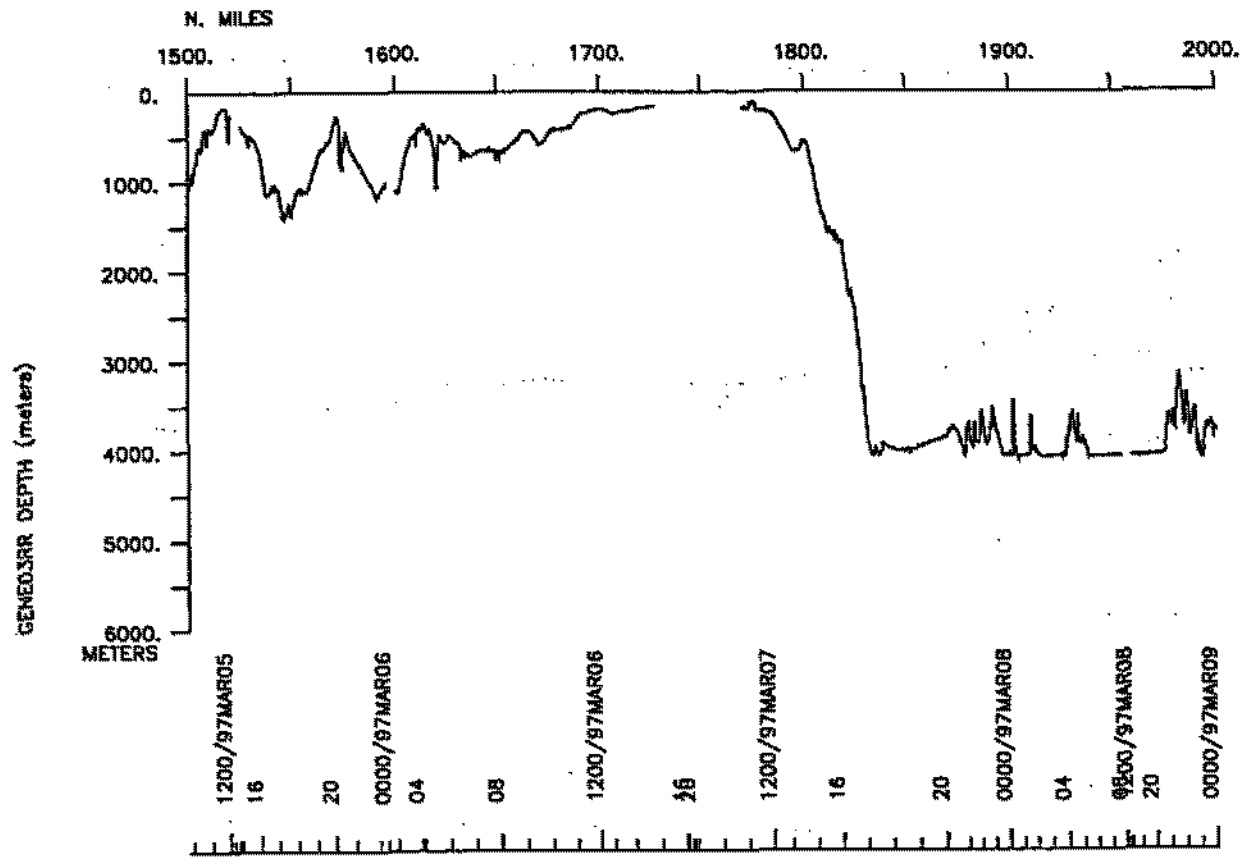
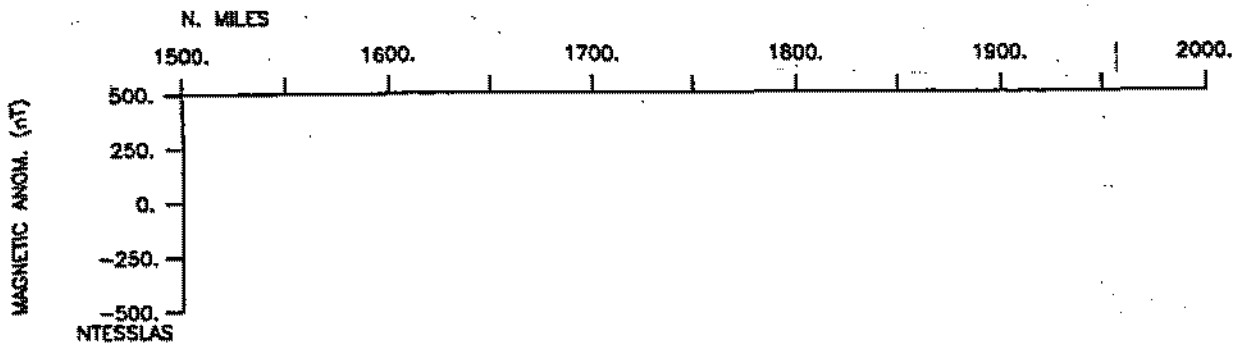
Genesis Leg 3 Survey 30Mar-03Apr/97

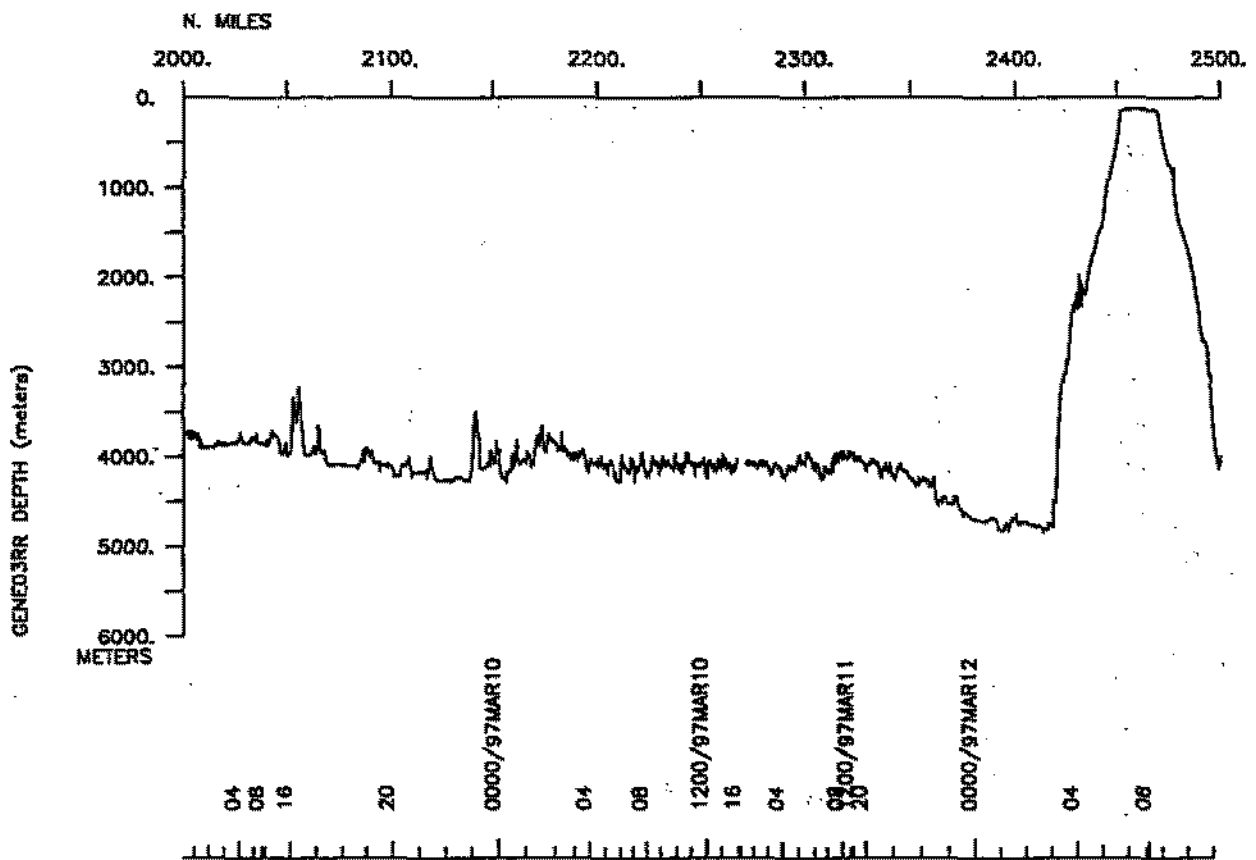
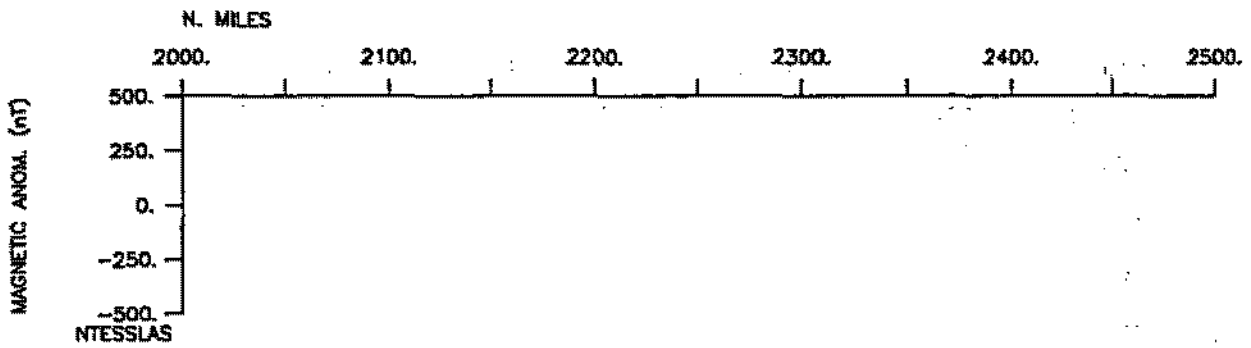


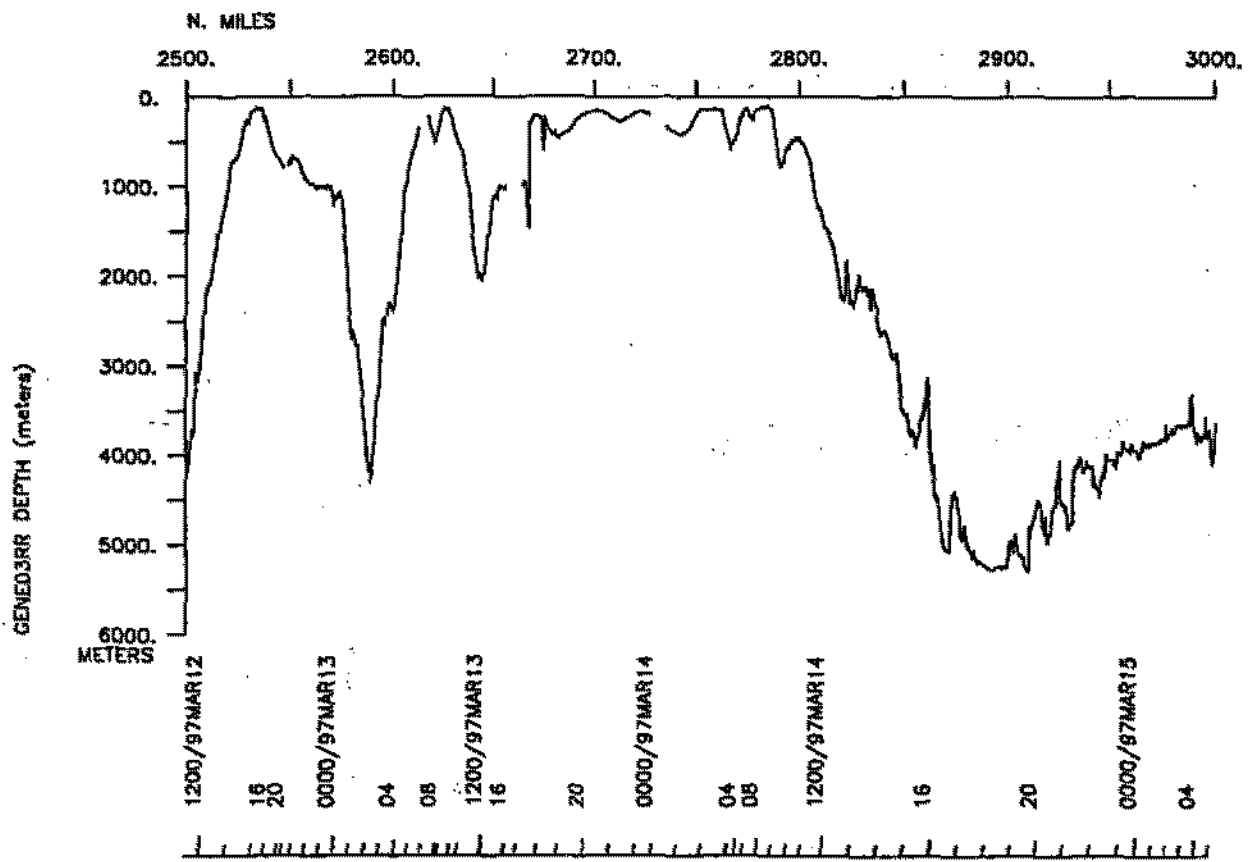
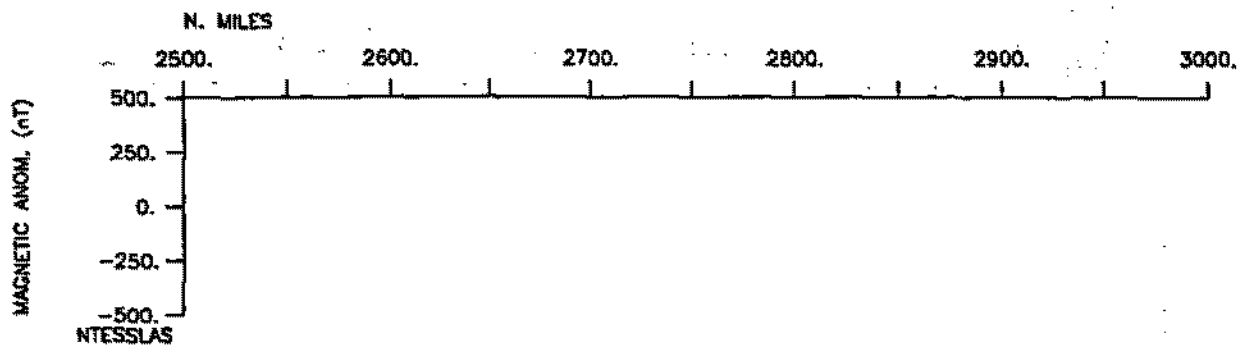


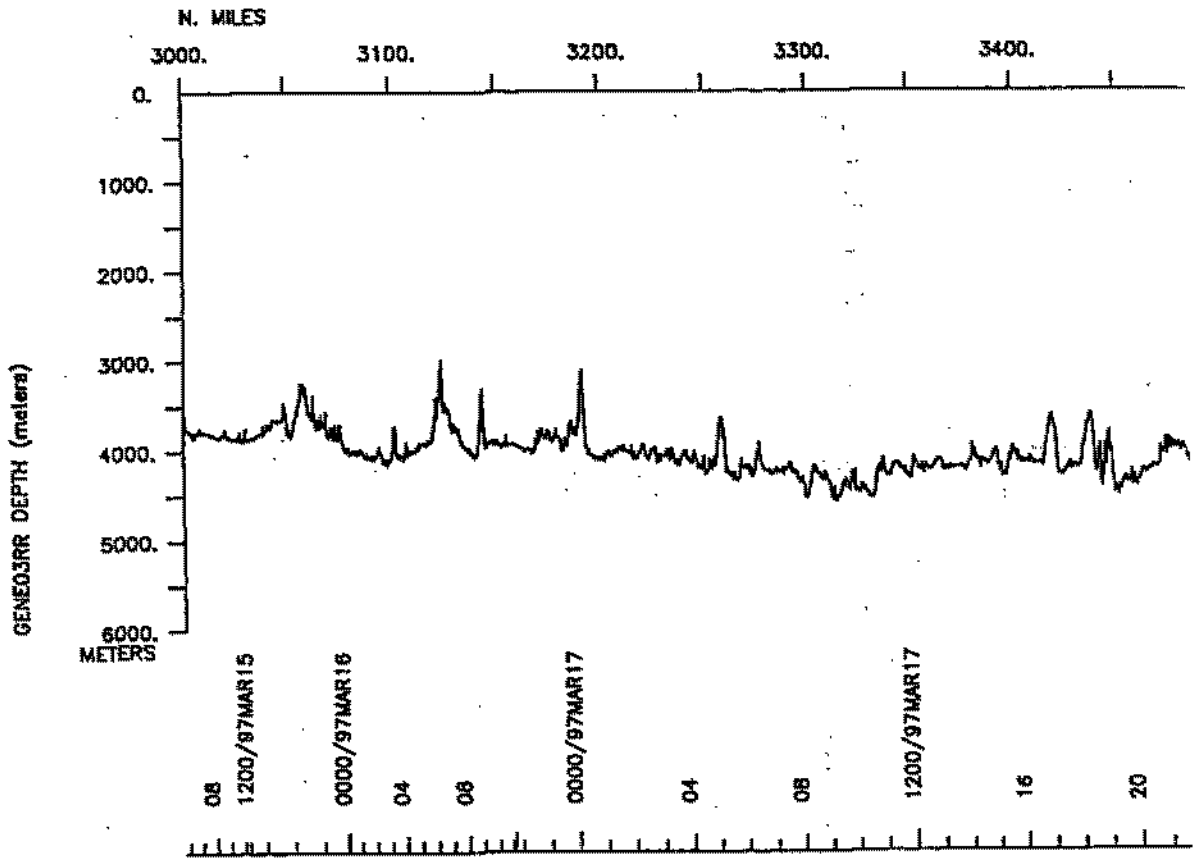
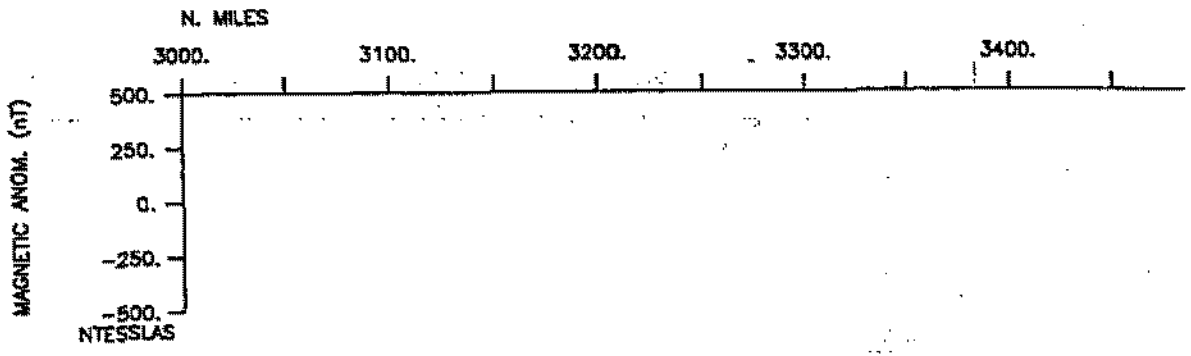


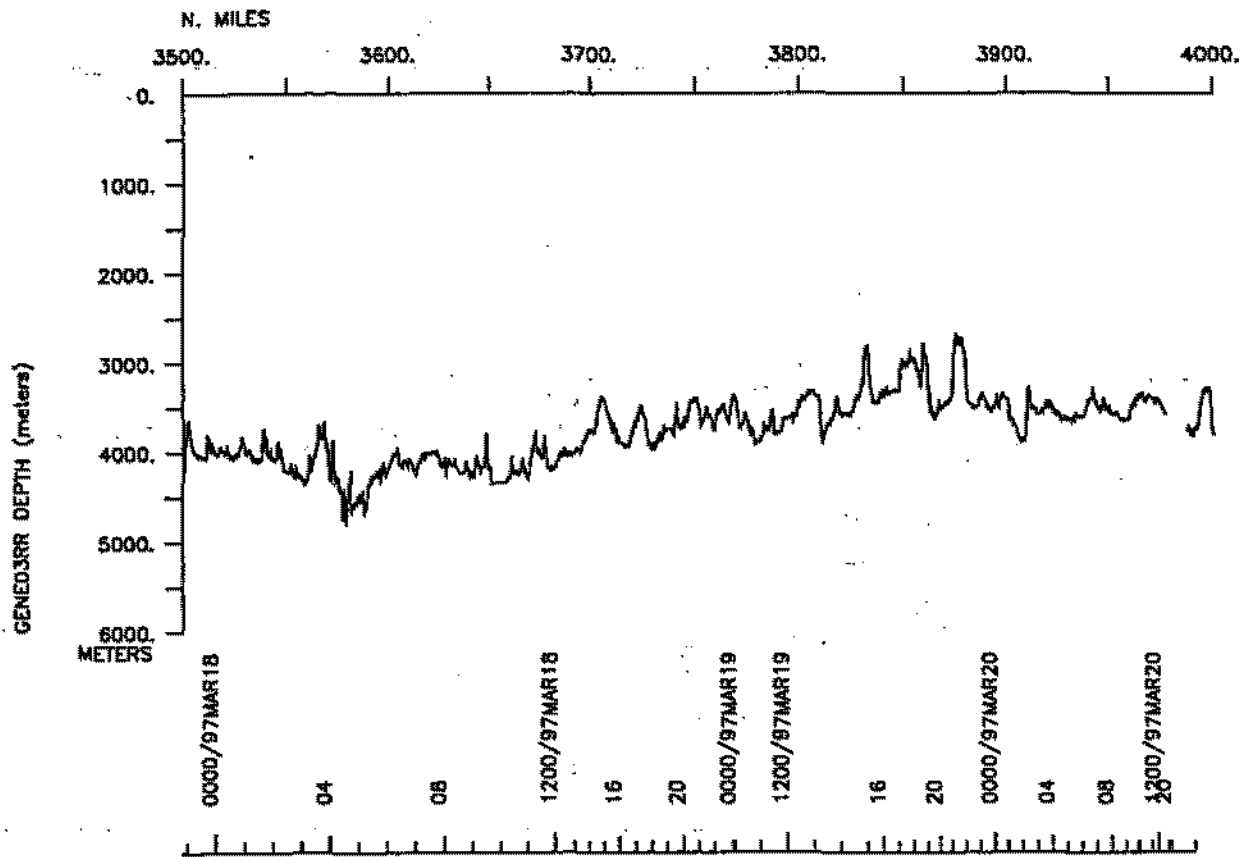
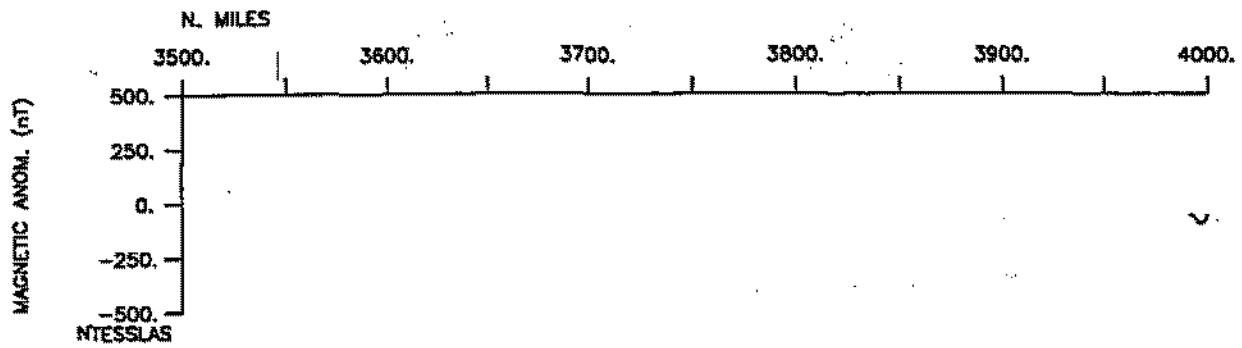


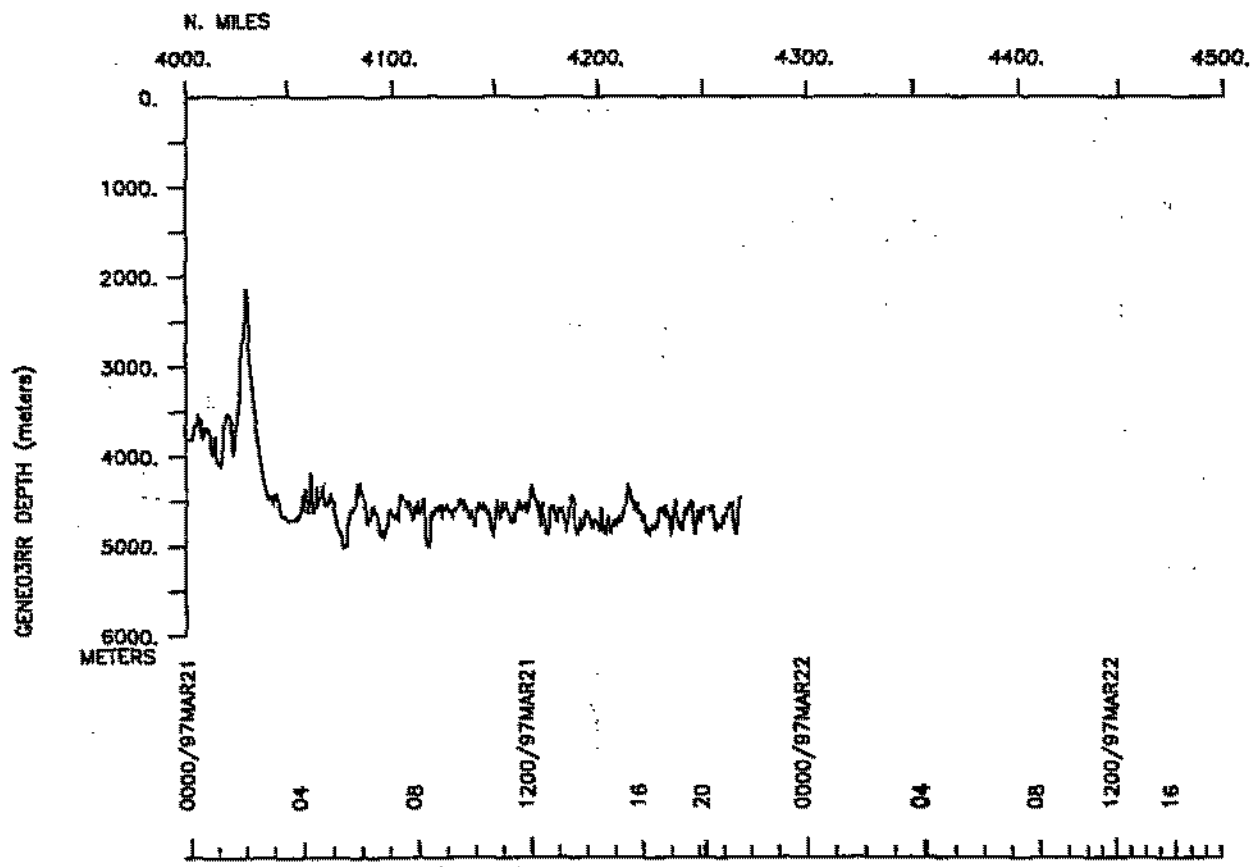
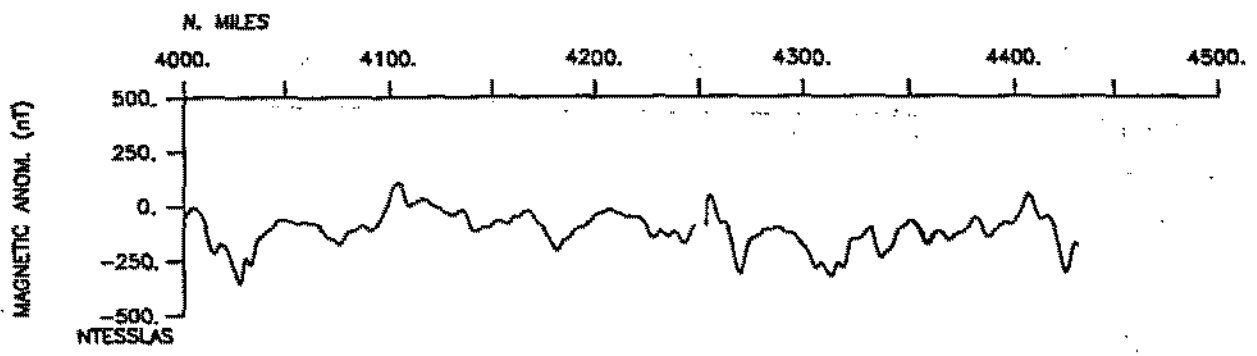


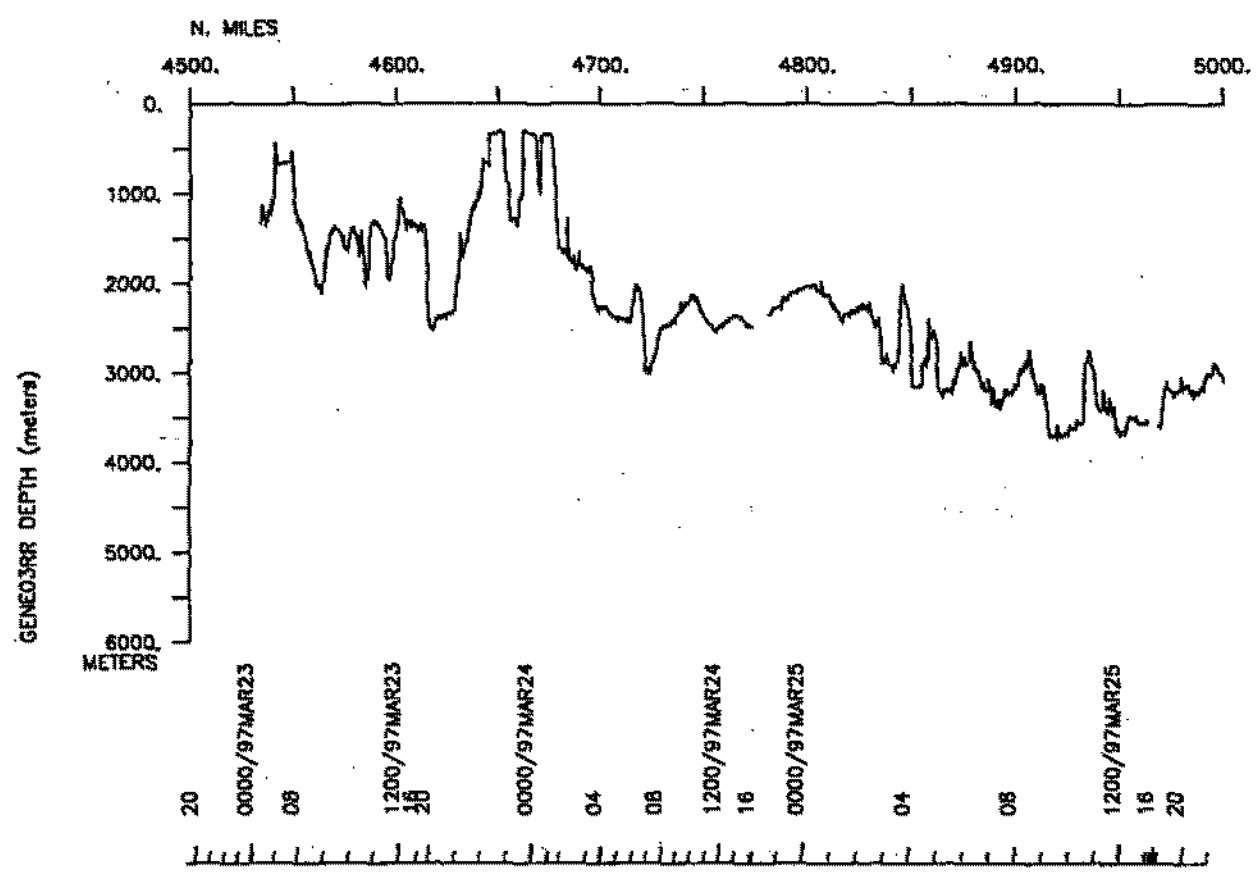
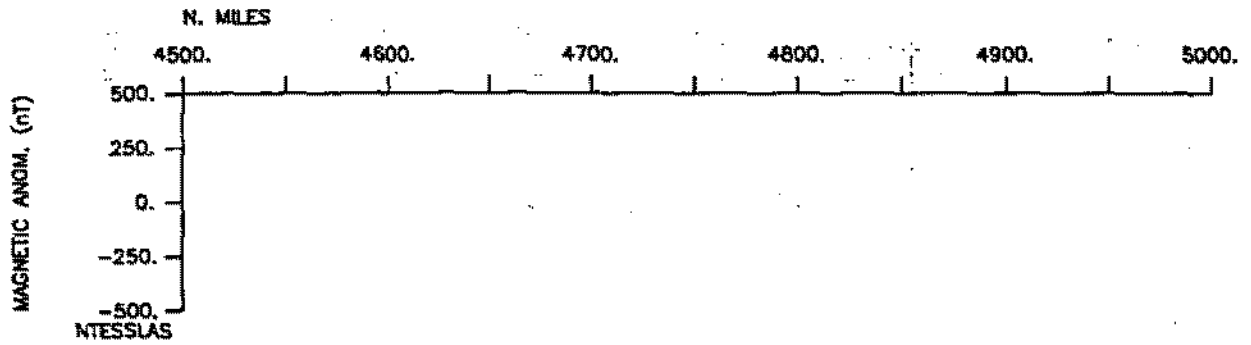


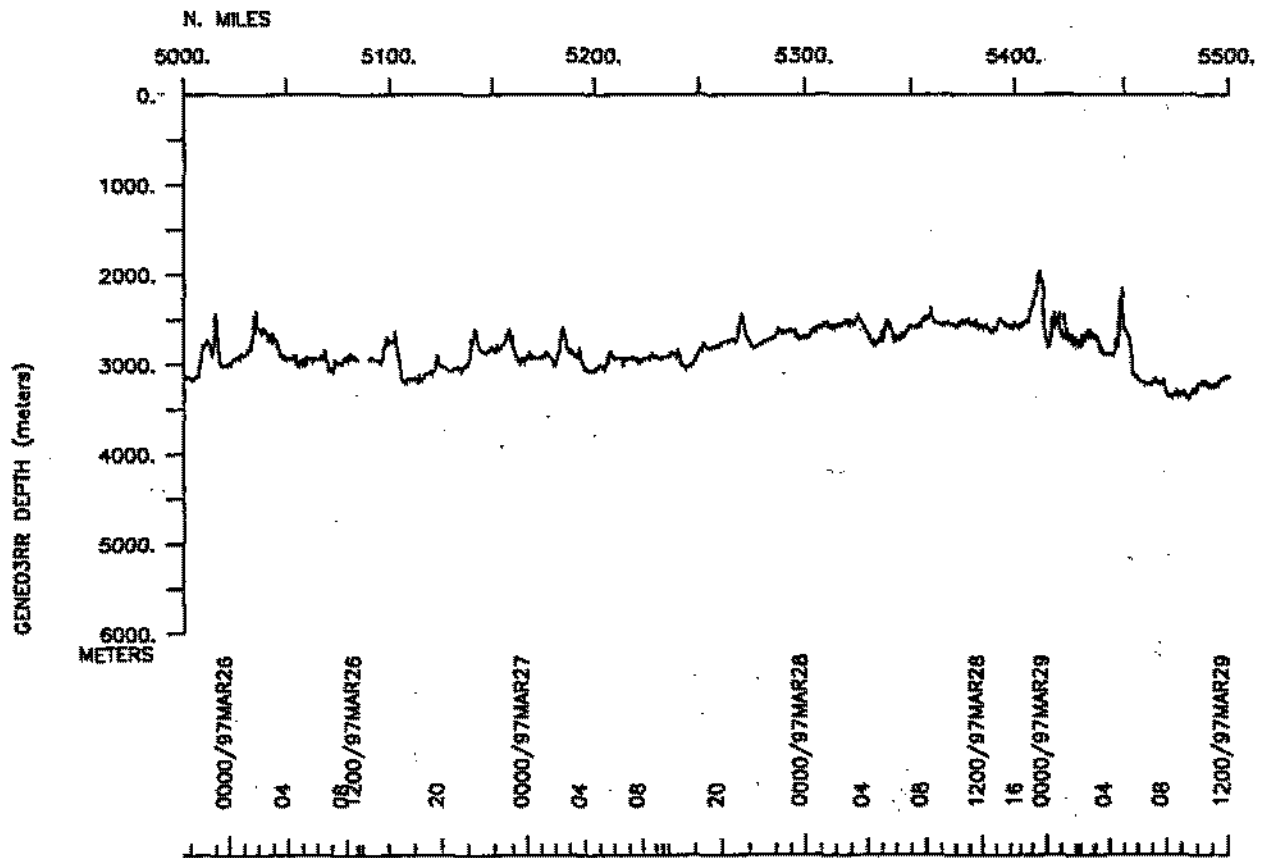
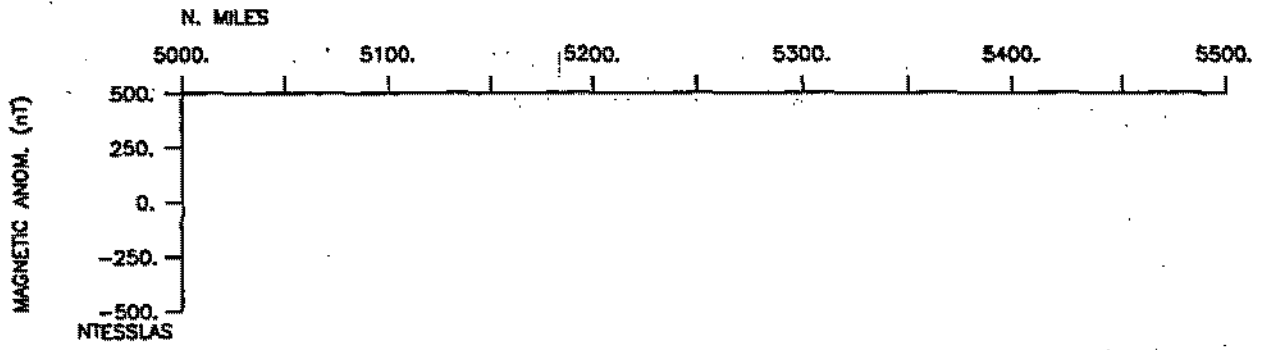


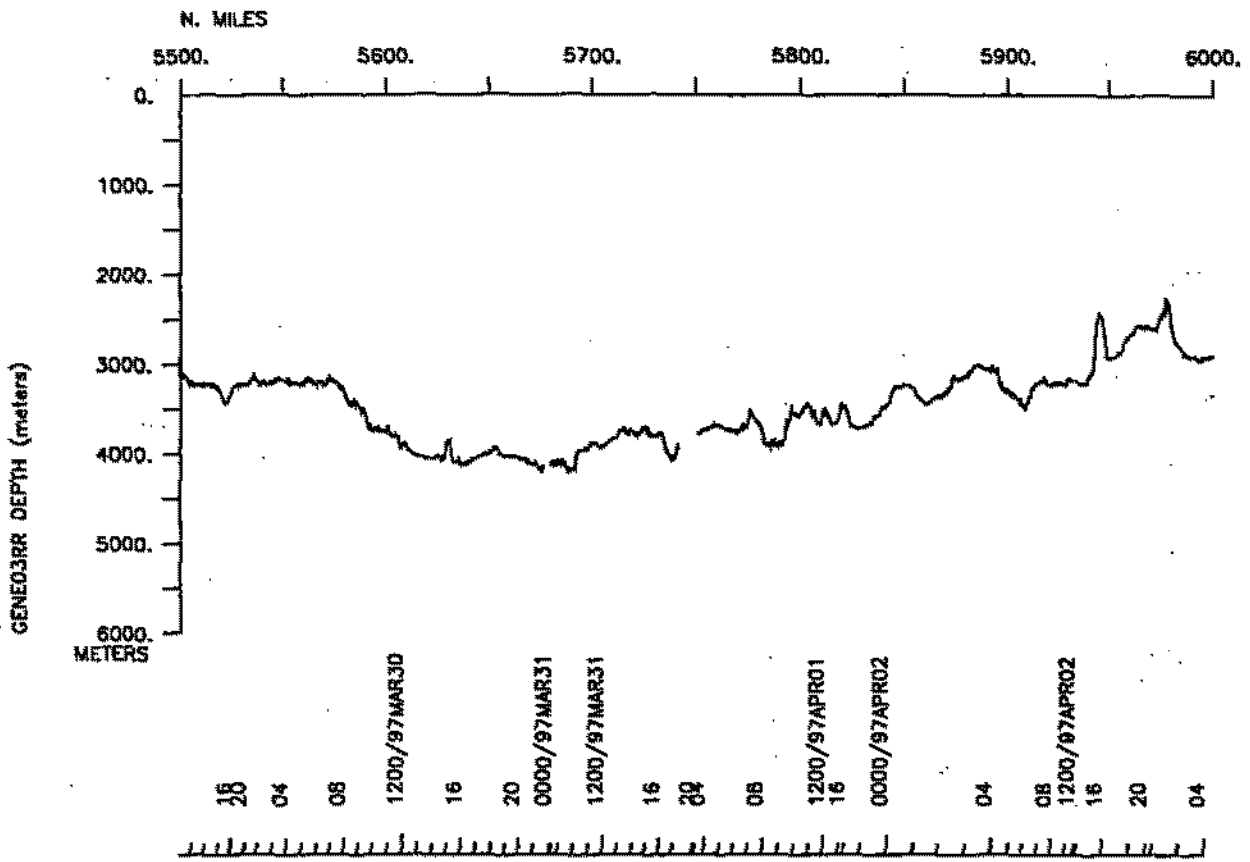
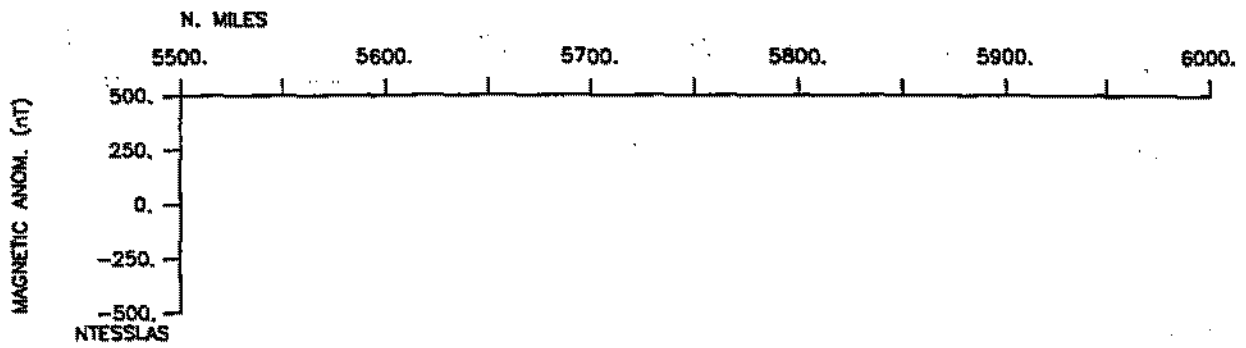


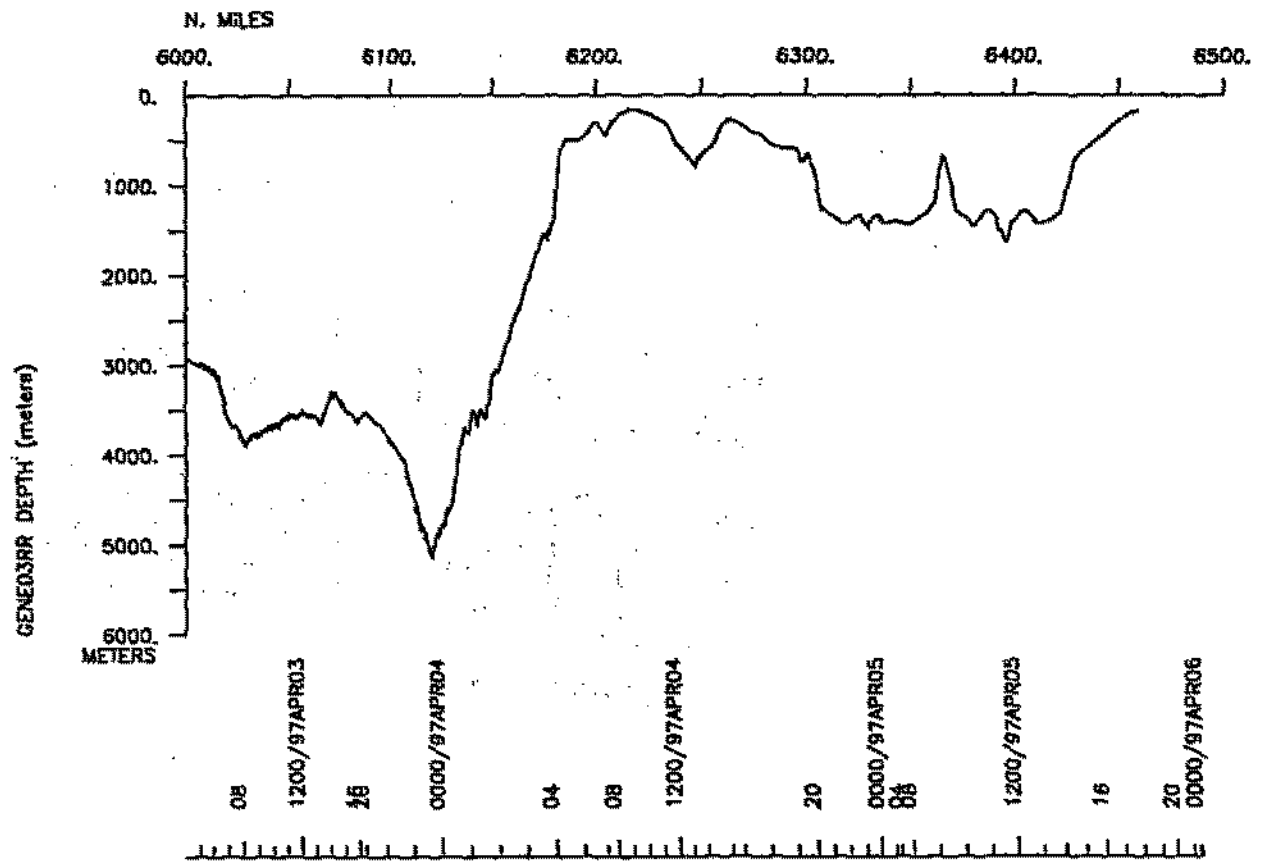
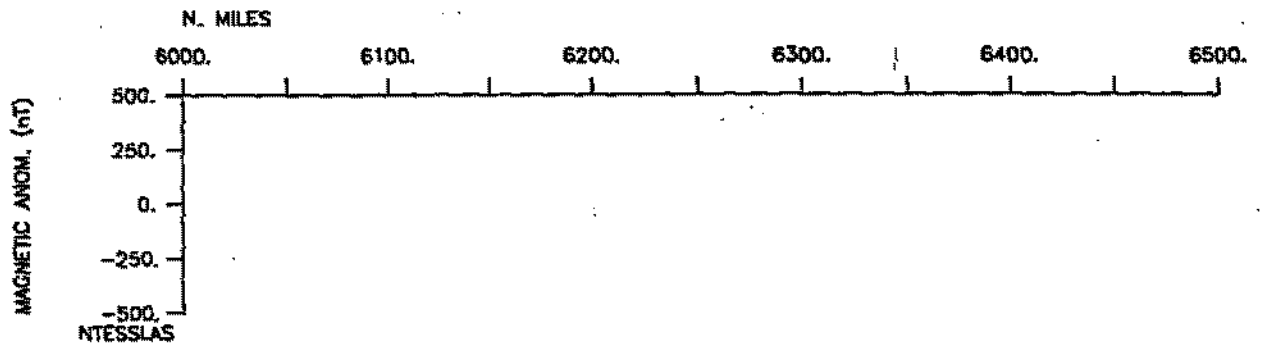












S.I.O. SAMPLE INDEX

GENESIS EXPEDITION

LEG 3

(GENE03RR)

R/V Revelle

(Issued June 1997)

Ports:

Punta Arenas, Chile (23 February 1997)

to

Callao, Peru (5 April 1997)

Chief Scientist:

Alan Mix (Oregon State University)

Resident Marine Technician - Robert Wilson

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 ***

1900	230297	LGPT B Punta Arenas, Chile	53-10.00S	70-54.00W	f	GENE03RR
2140	050497	LGPT E Callao, Peru	12-03.00S	77-10.00W	f	GENE03RR
1636	060397	LGSS B Ancud, Chile	41-52.00S	73-50.00W	f	GENE03RR
0854	070397	LGSS E Ancud, Chile	41-52.00S	73-50.00W	f	GENE03RR

#*** Personnel ***

#	*****NAME*****	*****TITLE*****	*****AFFILIATION*****	**CRID**
PECS OSU	Mix, A.	Chief Scientist	Oregon State Univ	GENE03RR
PECT STS	Heckman, E.	Hardware engineer	Scripps Institution	GENE03RR
PECT SCG	Porteous, T.	Computer engineer	Scripps Institution	GENE03RR
PECT SGG	Mogk, S.	Seismic engineer	Scripps Institution	GENE03RR
PERT STS	Wilson, R.	Resident tech	Scripps Institution	GENE03RR
PESP NOAA	Anderson, D.	Scientist	Nat.Ocean&Atmos.Adm	GENE03RR
PESP OSU	Bouchard, G.	Scientist	Oregon State Univ	GENE03RR
PESP SIX	Bloomer, S.	Student	Univ. New Brunswick	GENE03RR
PESP OSU	Colbert, D.	Student	Oregon State Univ	GENE03RR
PESP OSU	Elington, L.	Scientist	Oregon State Univ	GENE03RR
PESP OSU	Goldfinger, C.	Scientist	Oregon State Univ	GENE03RR
PESP OSU	Kalk, P.	Scientist	Oregon State Univ	GENE03RR
PESP OSU	Klinkhammer, G.	Scientist	Oregon State Univ	GENE03RR
PESP UCSC	Lea, D.	Scientist	U.of Cal.Santa Cruz	GENE03RR
PESP OSU	Mcmanus, J.	Scientist	Oregon State Univ	GENE03RR
PESP SIX	Mckay, J.	Student	U.of Brit.Columbia	GENE03RR
PESP OSU	Morey, A.	Scientist	Oregon State Univ	GENE03RR
PESP OSU	Pisias, N.	Scientist	Oregon State Univ	GENE03RR
PESP OSU	Ross, S.	Scientist	Oregon State Univ	GENE03RR
PESP OSU	Rugh, W.	Scientist	Oregon State Univ	GENE03RR
PESP SIX	Saavedra, J.	Student	U. de Concepcion	GENE03RR
PESP OSU	Voorhies, W.	Scientist	Oregon State Univ	GENE03RR
PESP OSU	Weber, M.	Scientist	Oregon State Univ	GENE03RR
PESP OSU	Wilson, J.	Scientist	Oregon State Univ	GENE03RR
PESP OSU	Castilla, F.	Scientist	Inst.Del Mar, Peru	GENE03RR
PESP PRU	Orvegoso, C.	Scientist	Inst.Geophys.de Peru	GENE03RR
PESP CHL	Vargaras, H.	Scientist	U.Catholica deChile	GENE03RR

#*** 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 ***										
0021	250297	0	LBSC	B OSU core log	OSU	53-10.22S	70-54.39W	g		GENE03RR
1831	290397	0	LBSC	E OSU core log	OSU	16-00.43S	76-22.71W	g		GENE03RR
#*** Echo Sounder Records ***										
1706	240297	0	DPR3	B 3.5khz r-01	GDC	52-19.24S	75-26.97W	g		GENE03RR
0300	040397	0	DPR3	E 3.5khz r-01	GDC	43-24.95S	76-14.99W	g		GENE03RR
0301	040397	0	DPR3	B 3.5khz r-02	GDC	43-24.94S	76-14.99W	g		GENE03RR
1020	040397	0	DPR3	E 3.5khz r-02	GDC	43-32.20S	76-29.00W	g		GENE03RR
1438	040397	0	DPR3	B 3.5khz r-03	GDC	43-31.98S	76-28.85W	g		GENE03RR
0233	100397	0	DPR3	E 3.5khz r-03	GDC	38-04.45S	75-39.99W	g		GENE03RR
0233	100397	0	DPR3	B 3.5khz r-04	GDC	38-04.45S	75-39.99W	g		GENE03RR
1454	280397	0	DPR3	E 3.5khz r-04	GDC	16-07.61S	77-05.89W	g		GENE03RR
#*** Sea Beam Records ***										
2357	240297	0	MBSR	B vbeam&sidescan r-01	GDC	51-15.38S	76-45.36W	g		GENE03RR
1304	030397	0	MBSR	E vbeam&sidescan r-01	GDC	43-25.66S	76-29.02W	g		GENE03RR
1305	030397	0	MBSR	B vbeam&sidescan r-02	GDC	43-25.55S	76-29.02W	g		GENE03RR
1745	040597	0	MBSR	E vbeam&sidescan r-02	GDC	12-02.77S	77-08.68W	g		GENE03RR
#*** Magnetics (Earth Total Field) Records ***										
2222	200397	0	MGRA	B digital magnetics	GDC	23-06.62S	73-23.38W	g		GENE03RR
0936	220397	0	MGRA	E digital magnetics	GDC	21-29.72S	81-15.31W	g		GENE03RR
#*** Cores ***										
0021	250297	0	COXX	01	3964m OSU	51-12.06S	76-50.63W	g		GENE03RR
1250	260297	0	COGV	02	3952m OSU	50-38.98S	76-57.29W	g		GENE03RR
1825	260297	0	COGV	03	3928m OSU	53-10.22S	70-54.39W	g		GENE03RR
0252	270297	0	COXX	04	3354m OSU	49-22.90S	76-38.15W	g		GENE03RR
0803	280297	0	COPS	05	3326m OSU	46-59.99S	76-37.03W	g		GENE03RR
1520	280297	0	COXX	06	3290m OSU	46-53.00S	76-36.00W	g		GENE03RR
2019	280297	0	COPS	07	3295m OSU	46-53.00S	76-36.00W	g		GENE03RR
1421	010397	0	COXX	08	3014m OSU	46-21.00S	76-40.00W	g		GENE03RR
1935	010397	0	COPS	09	3003m OSU	46-21.00S	76-40.00W	g		GENE03RR
0159	020397	0	COXX	10	2879m OSU	46-19.00S	76-32.30W	g		GENE03RR
1130	020397	0	COPS	11	2825m OSU	46-19.00S	76-32.30W	g		GENE03RR
1949	030397	0	COXX	12	3523m OSU	43-25.00S	76-15.00W	g		GENE03RR
0021	030397	0	COPS	13	3523m OSU	44-32.13S	76-19.88W	g		GENE03RR
0640	040397	0	COXX	14	3493m OSU	43-32.20S	76-29.00W	g		GENE03RR
1322	040397	0	COPS	15	3471m OSU	43-32.20S	76-29.00W	g		GENE03RR
1230	050397	0	COGV	16	168m OSU	39-59.99S	74-00.21W	g		GENE03RR
1324	050397	0	COGV	17	180m OSU	40-00.10S	74-01.50W	g		GENE03RR
1418	050397	0	COGV	18	258m OSU	40-00.30S	74-03.99W	g		GENE03RR
2308	050397	0	COGV	19	1062m OSU	39-58.00S	74-28.00W	g		GENE03RR
0032	060397	0	COXX	20	1055m OSU	39-58.00S	74-28.00W	g		GENE03RR
0319	060397	0	COGV	21	430m OSU	40-00.50S	74-07.00W	g		GENE03RR
0413	060397	0	COXX	22	430m OSU	40-00.50S	74-07.00W	g		GENE03RR
1250	060397	0	COGV	23	245m OSU	41-17.83S	74-19.18W	g		GENE03RR
1230	070397	0	COXX	24	254m OSU	41-17.83S	74-19.17W	g		GENE03RR
1010	080397	0	COXX	25	4087m OSU	39-53.25S	75-53.25W	g		GENE03RR

1425	080397	0	COPS	26	4044m	OSU	39-53.25S	75-53.25W	g	GENE03RR
0725	090397	0	COXX	27	3850m	OSU	40-28.75S	75-54.87W	g	GENE03RR
1132	090397	0	COPS	28	3820m	OSU	40-28.75S	75-54.87W	g	GENE03RR
1618	100397	0	COXX	29	4060m	OSU	37-50.84S	75-44.90W	g	GENE03RR
2059	100397	0	COPS	30	4026m	OSU	37-50.84S	75-44.90W	g	GENE03RR
1106	110397	0	COXX	31	3946m	OSU	37-40.42S	75-25.85W	g	GENE03RR
1531	110397	0	COPS	32	3923m	OSU	37-40.42S	75-25.85W	g	GENE03RR
0725	120397	0	COGV	33	133m	OSU	36-32.00S	73-26.83W	g	GENE03RR
0752	120397	0	COXX	34	133m	OSU	36-31.99S	73-26.83W	g	GENE03RR
1456	120397	0	COGV	35	248m	OSU	36-31.25S	73-34.57W	g	GENE03RR
1655	120397	0	COGV	36	215m	OSU	36-31.07S	73-34.17W	g	GENE03RR
1925	120397	0	COGV	37	795m	OSU	36-29.56S	73-42.35W	g	GENE03RR
0715	130397	0	COGV	38	512m	OSU	36-10.03S	73-34.28W	g	GENE03RR
0807	130397	0	COXX	39	510m	OSU	53-10.22S	70-54.39W	g	GENE03RR
1012	130397	0	COGV	40	214m	OSU	36-09.37S	73-30.74W	g	GENE03RR
1348	130397	0	COGV	41	1028m	OSU	36-10.00S	73-40.90W	g	GENE03RR
1532	130397	0	COXX	42	1028m	OSU	36-10.00S	73-40.90W	g	GENE03RR
2259	130397	0	COGV	43	171m	OSU	35-45.50S	73-00.80W	g	GENE03RR
2333	130397	0	COXX	44	172m	OSU	35-45.50S	73-00.81W	g	GENE03RR
0424	140397	0	COPS	45	509m	OSU	36-10.33S	73-34.33W	g	GENE03RR
1213	150397	0	COXX	46	3852m	OSU	33-16.60S	73-32.00W	g	GENE03RR
1702	150397	0	COPS	47	3852m	OSU	33-16.60S	73-32.00W	g	GENE03RR
1320	160397	0	COXX	48	3920m	OSU	32-35.46S	73-39.10W	g	GENE03RR
1818	160397	0	COPS	49	3883m	OSU	32-35.46S	73-39.10W	g	GENE03RR
0057	180397	0	COXX	50	3396m	OSU	26-29.61S	73-25.04W	g	GENE03RR
0514	190397	0	COPS	51	3362m	OSU	23-36.39S	73-36.45W	g	GENE03RR
1332	200397	0	COXX	52	3418m	OSU	23-11.60S	73-20.71W	g	GENE03RR
1832	200397	0	COPS	53	3542m	OSU	23-07.72S	73-19.02W	g	GENE03RR
0039	230397	0	COXX	54	1323m	OSU	21-21.56S	81-26.13W	g	GENE03RR
0300	230397	0	COPS	55	1323m	OSU	21-21.56S	81-26.13W	g	GENE03RR
0630	230397	0	COGV	56	698m	OSU	21-24.00S	81-37.51W	g	GENE03RR
1358	230397	0	COXX	57	1390m	OSU	21-48.92S	81-49.34W	g	GENE03RR
1637	230397	0	COPS	58	1370m	OSU	21-48.92S	81-49.35W	g	GENE03RR
0103	240397	0	COGV	59	342m	OSU	21-26.43S	81-38.00W	g	GENE03RR
1528	240397	0	COXX	60	2480m	OSU	20-52.70S	81-29.95W	g	GENE03RR
1935	240397	0	COPS	61	2496m	OSU	20-52.70S	81-29.95W	g	GENE03RR
1034	260397	0	COXX	62	2937m	OSU	18-05.07S	79-02.35W	g	GENE03RR
1352	260397	0	COPS	63	2901m	OSU	18-05.08S	79-02.40W	g	GENE03RR
1100	270397	0	COXX	64	2930m	OSU	17-02.13S	78-06.53W	g	GENE03RR
1442	270397	0	COPS	65	2899m	OSU	17-02.13S	78-06.53W	g	GENE03RR
1608	280397	0	COXX	66	2575m	OSU	16-07.61S	77-05.89W	g	GENE03RR
1916	280397	0	COPS	67	2539m	OSU	16-07.61S	77-05.89W	g	GENE03RR
1831	290397	0	COXX	68	3249m	OSU	16-00.43S	76-22.71W	g	GENE03RR

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End Sample Index

GENE03RR