

*Report and Index of
Underway Marine Geophysical Data*

GENESIS EXPEDITION

LEG 2

(GENE02RR)

R/V REVELLE

(Issued April 1997)

Ports:

Talara, Peru (11 January 1997)

to

Punta Arenas, Chile (19 February 1997)

Chief Scientist : Peter Lonsdale, Scripps Institution

Computer Technician- Jim Charters

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 OCE94-00707

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.

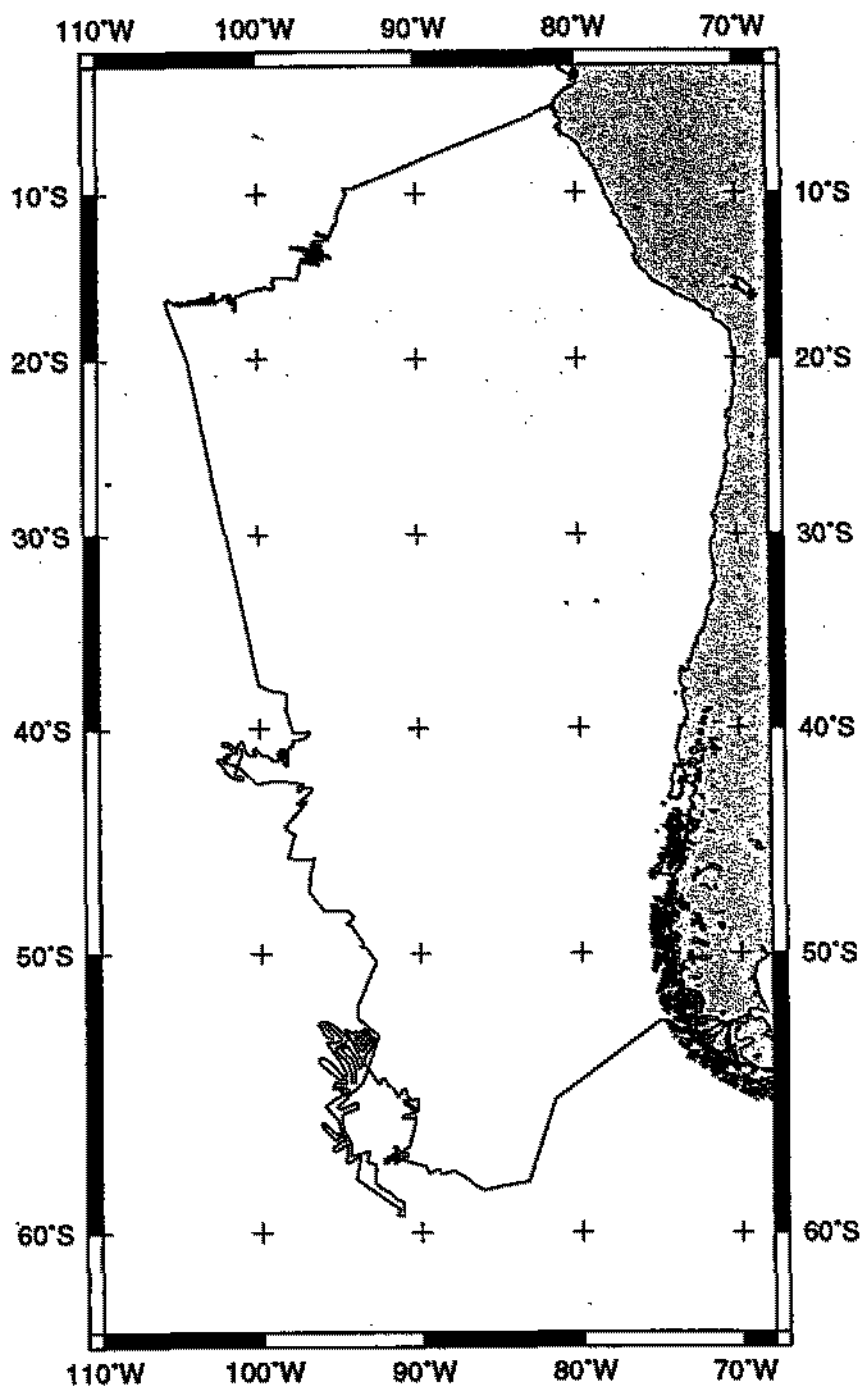
3. Navigation listing with times and positions of fixes and course and speed changes.

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



GENESIS EXPEDITION LEG 2

CHIEF SCIENTIST: Peter Lonsdale, Scripps Institution

PORTS: Talara, Peru - Punta Arenas, Chile

DATES: 11 January - 19 February 1997

SHIP: R/V Revelle

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

Cruise - 11241 miles

Magnetics - 10366 miles

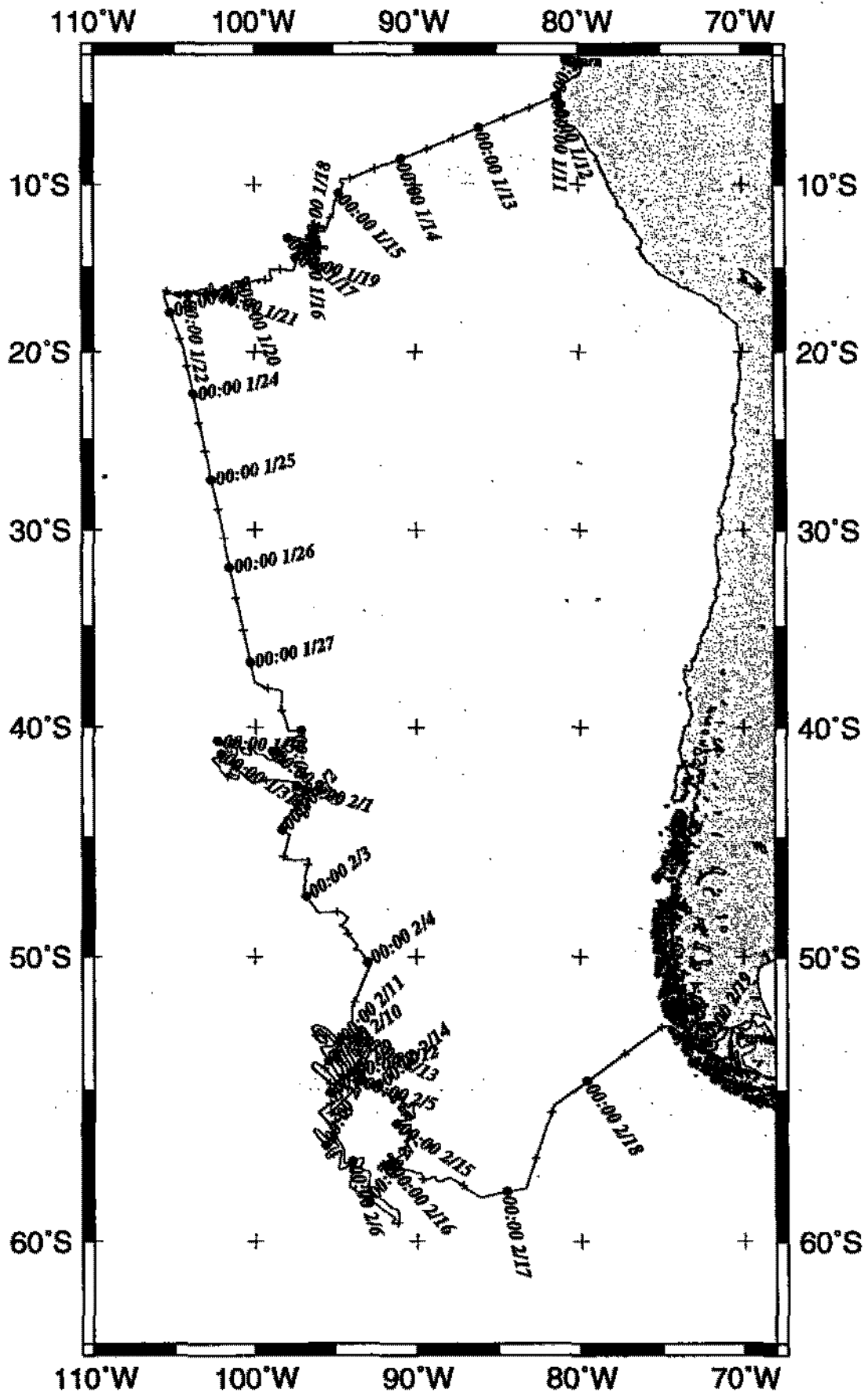
Bathymetry - 10386 miles

Seismic Reflection - 80 miles

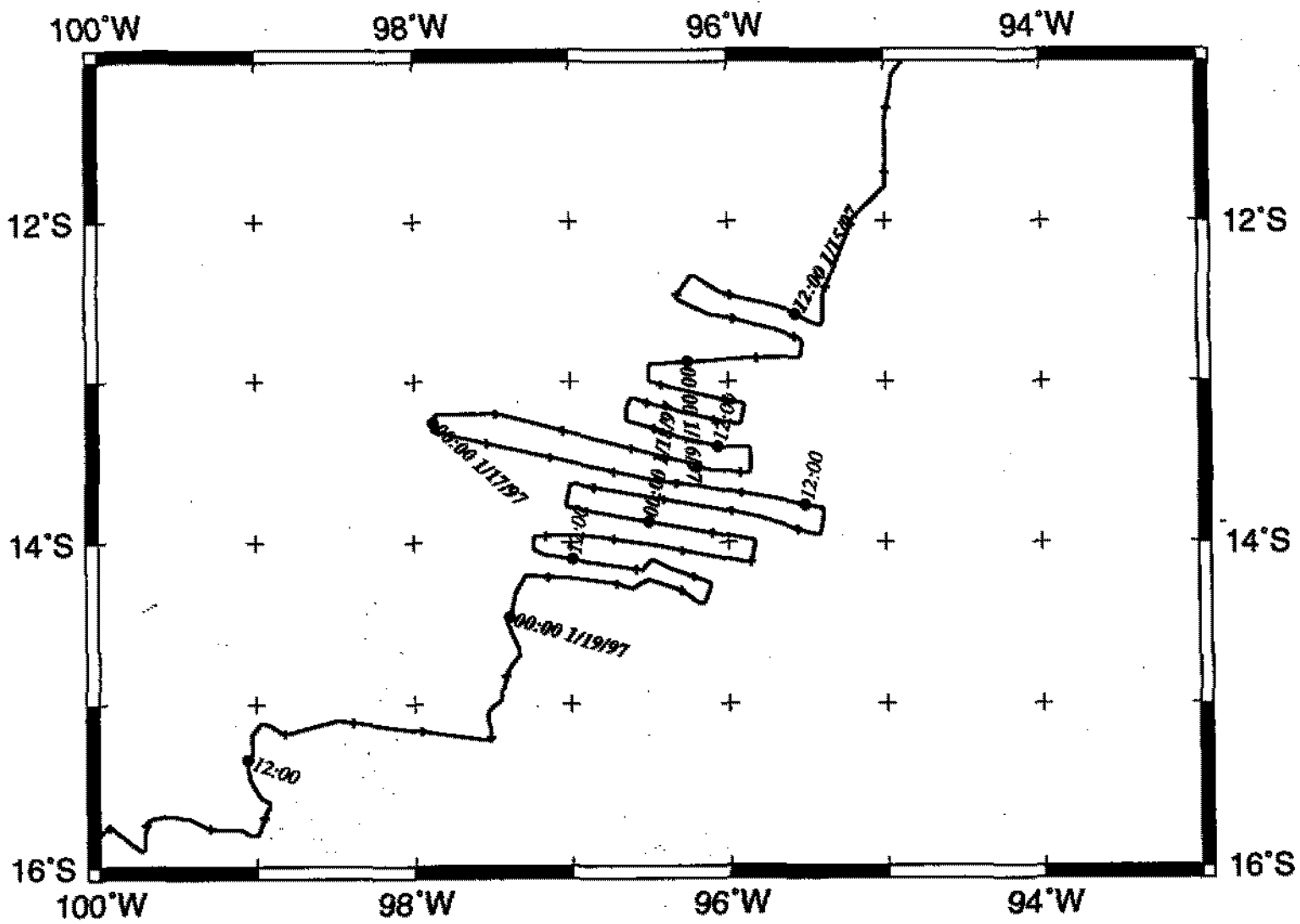
Sea Beam - 10386 miles

Gravity - none collected

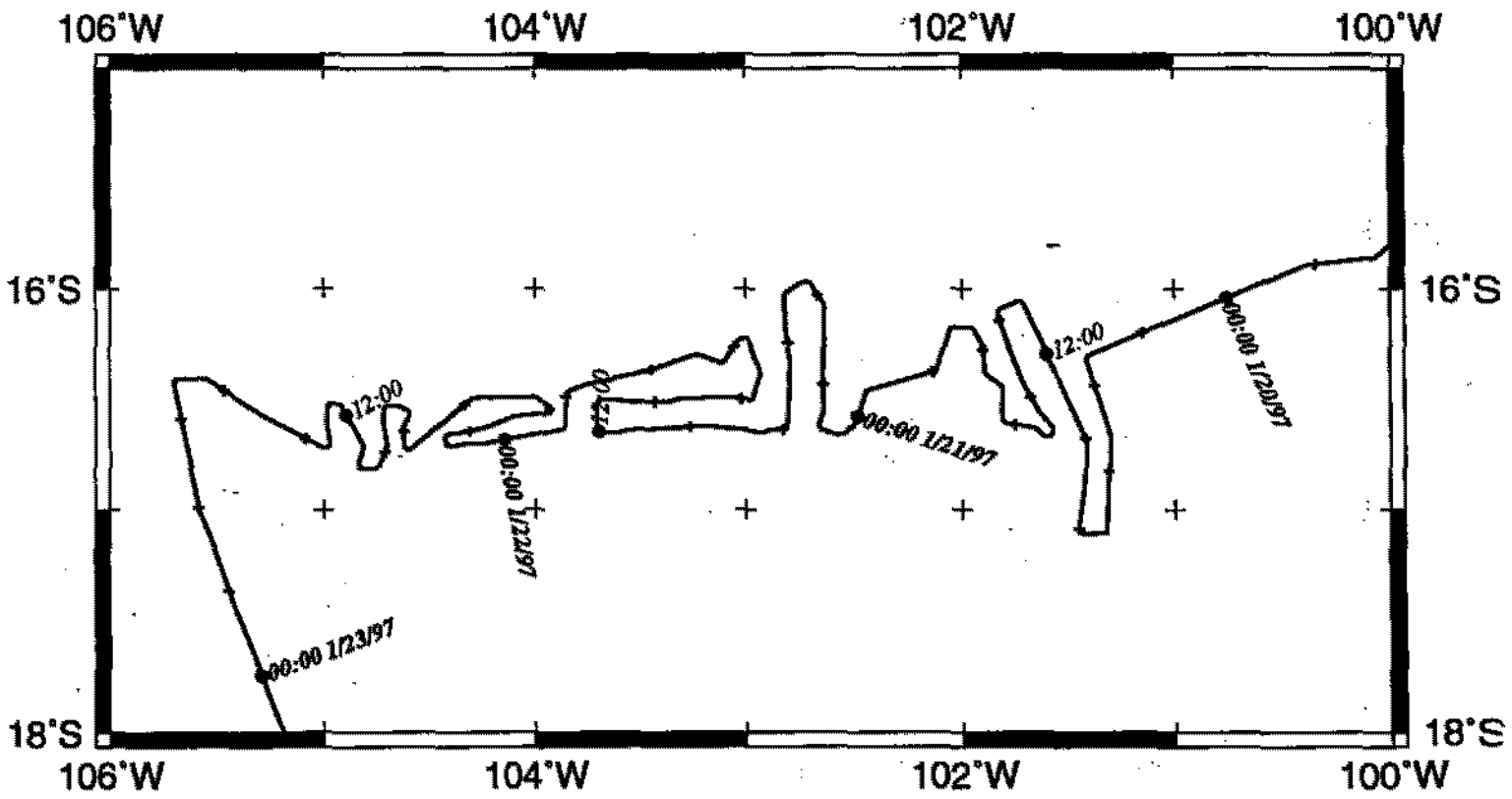
R/V Revelle Genesis Expedition Leg 02



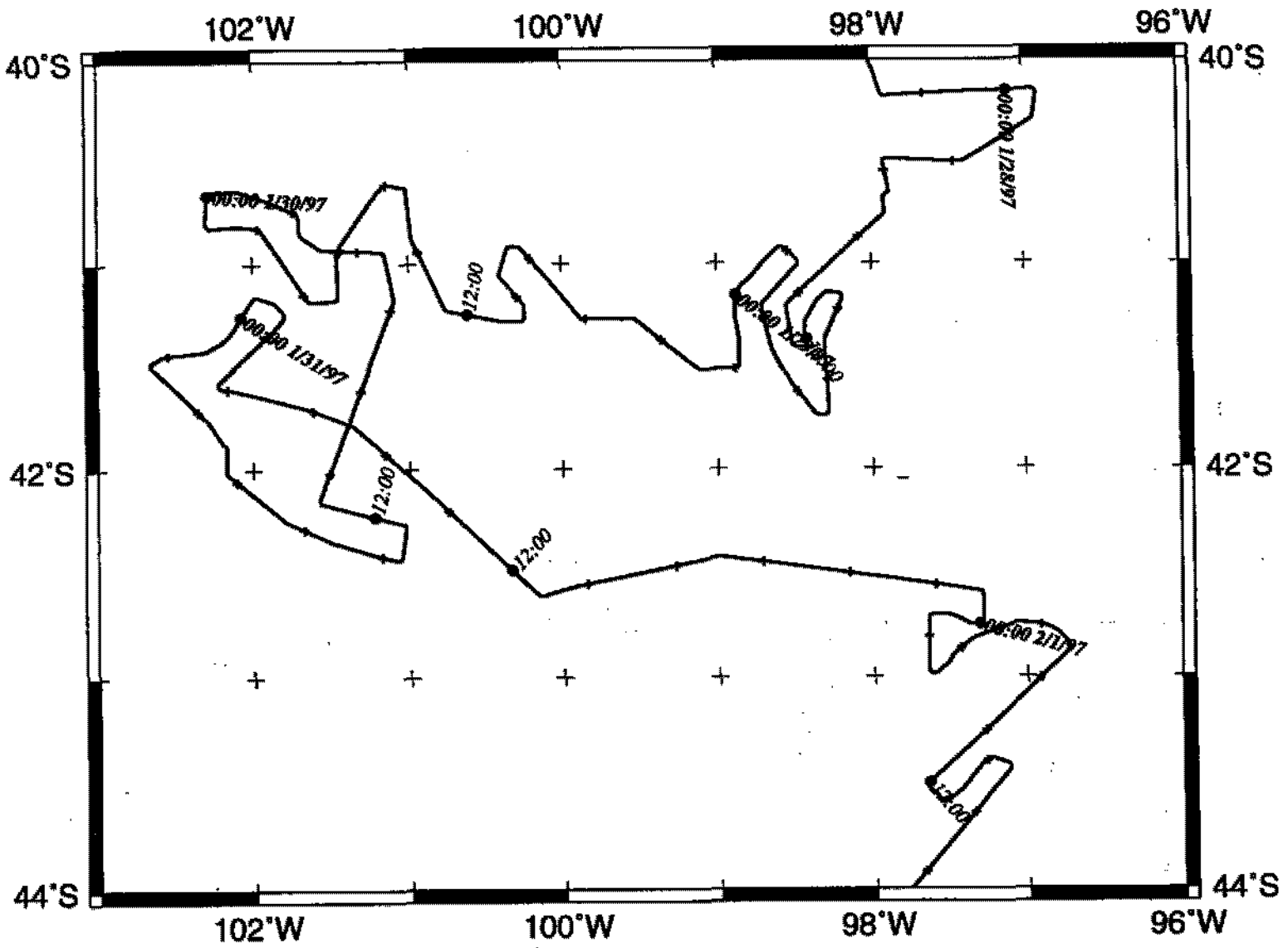
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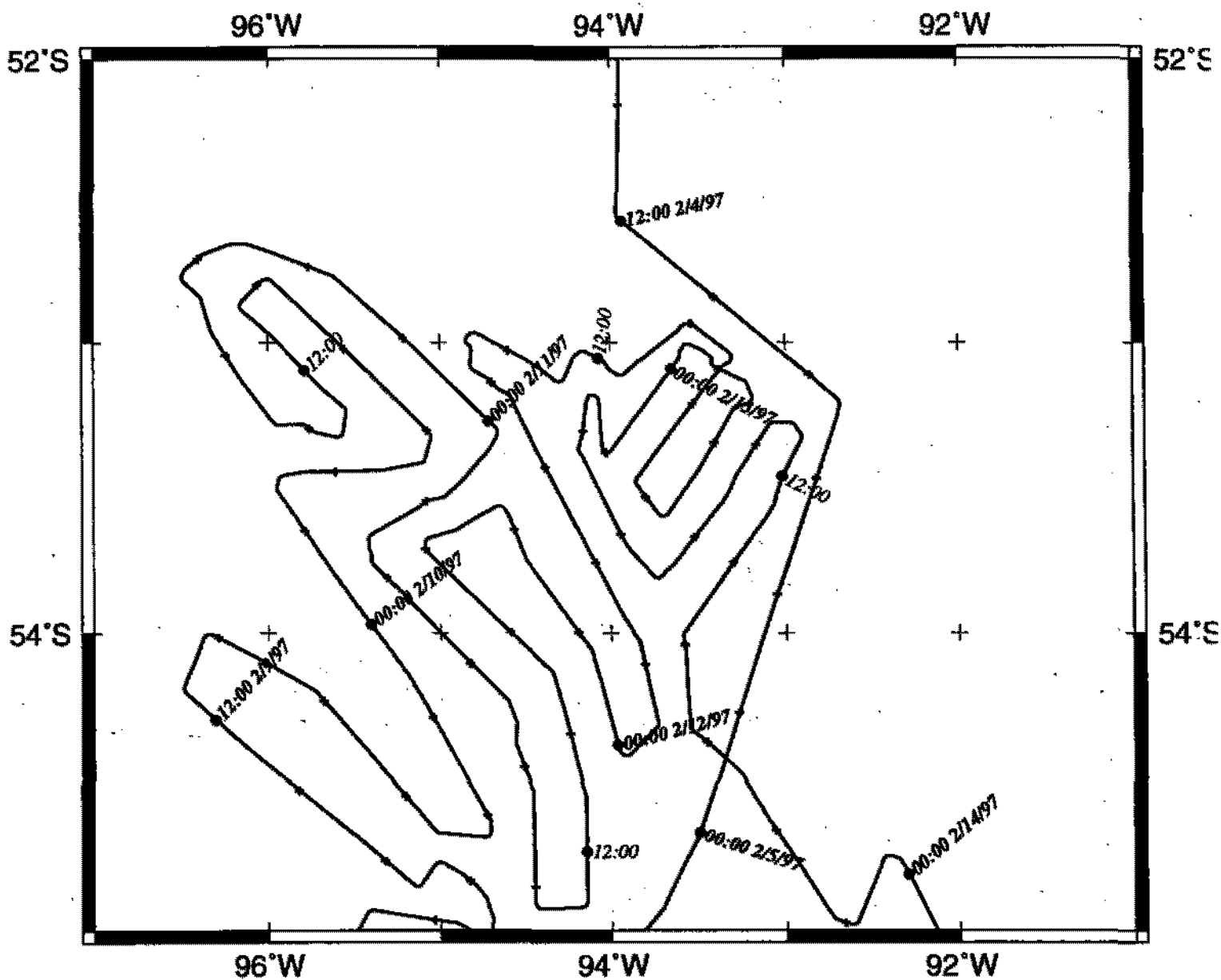
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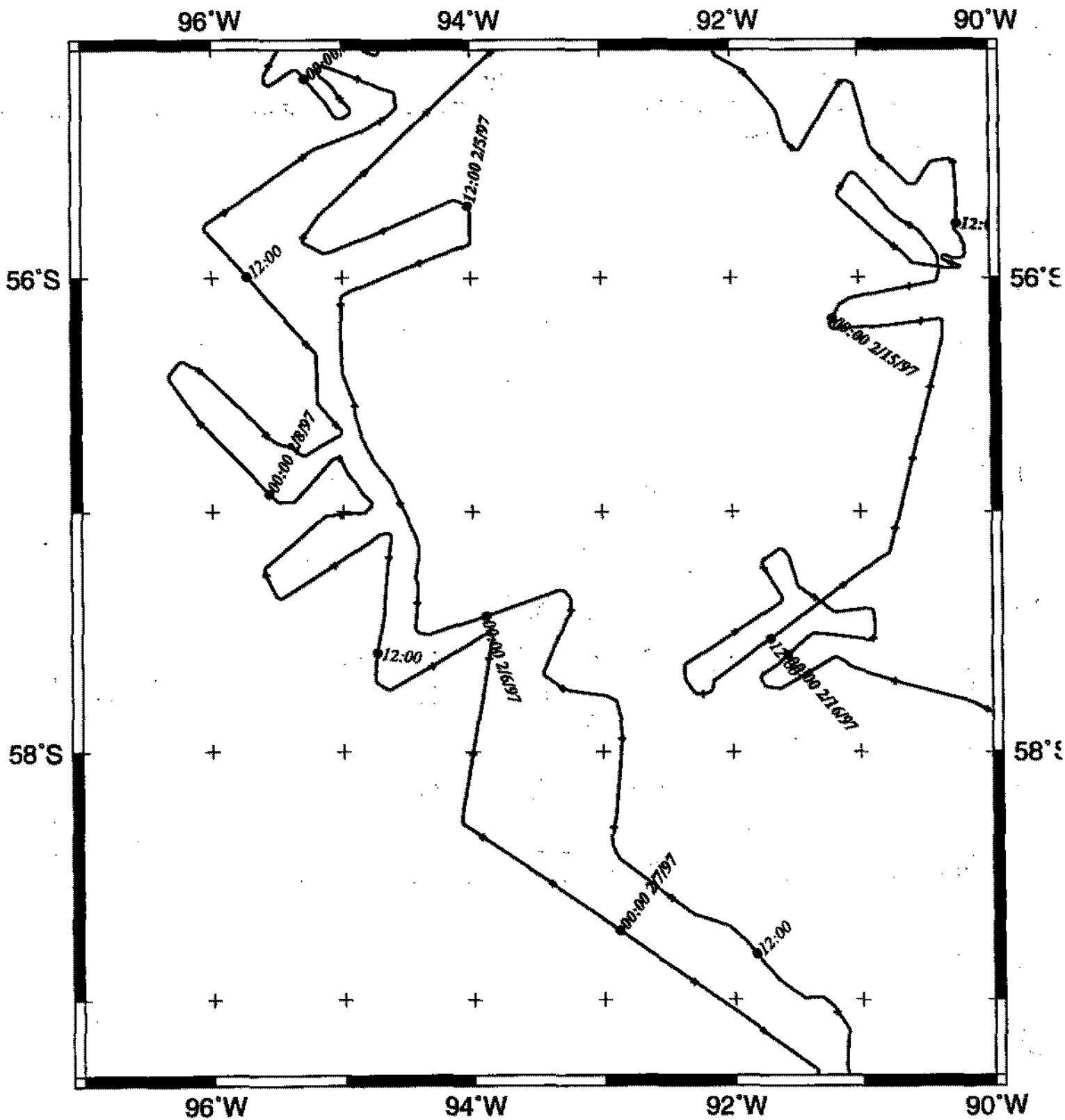
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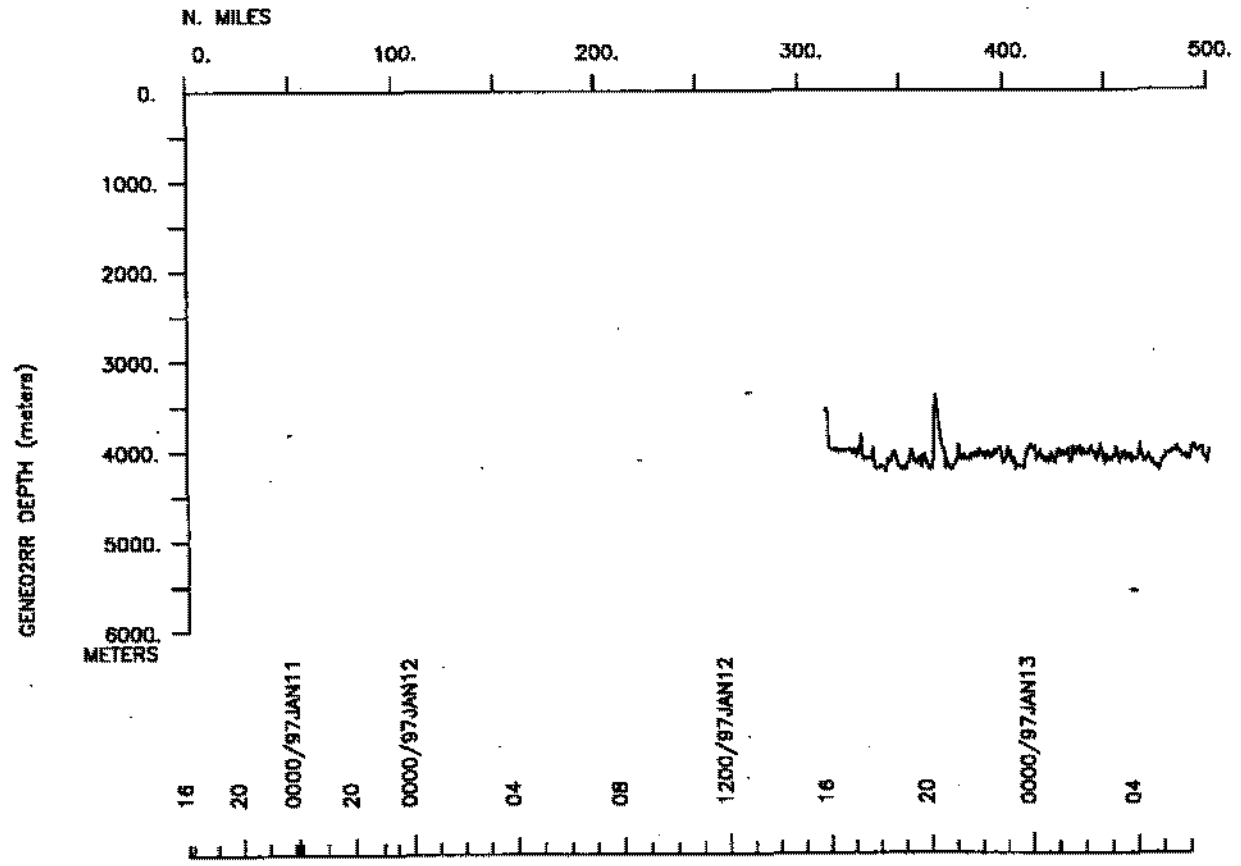
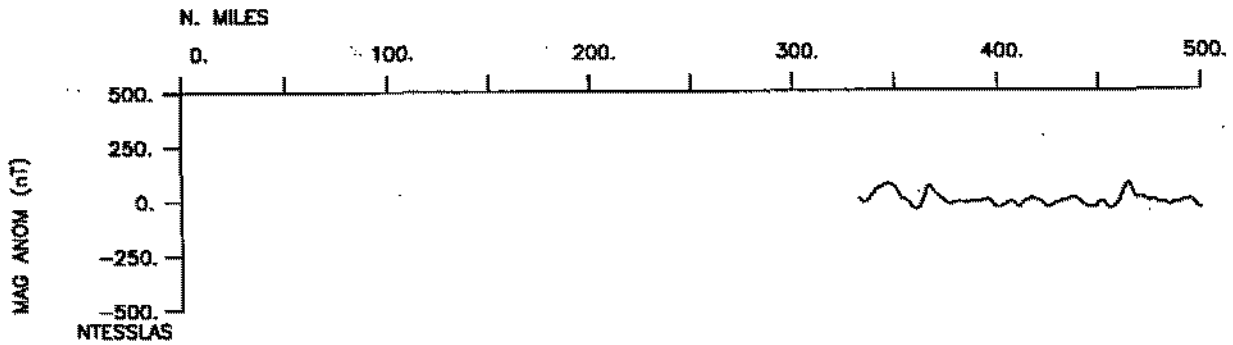


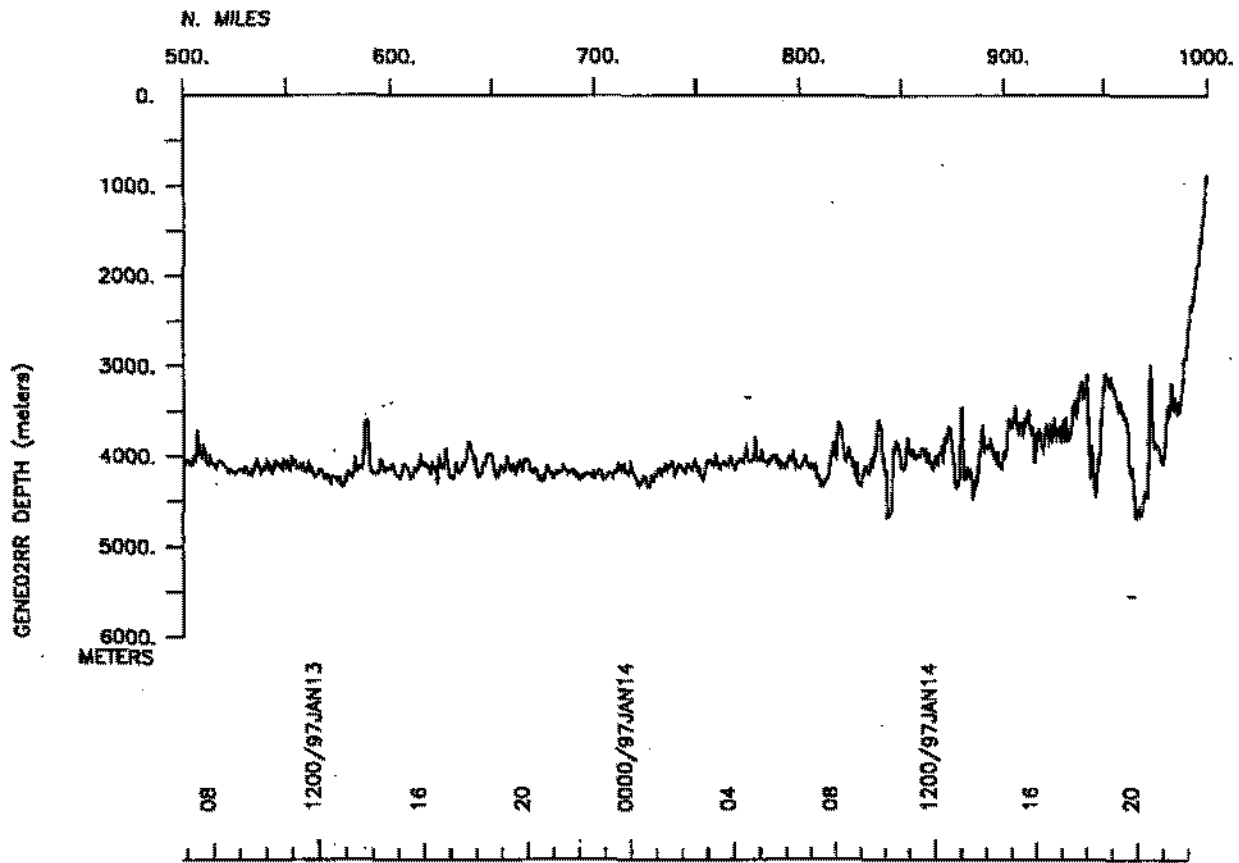
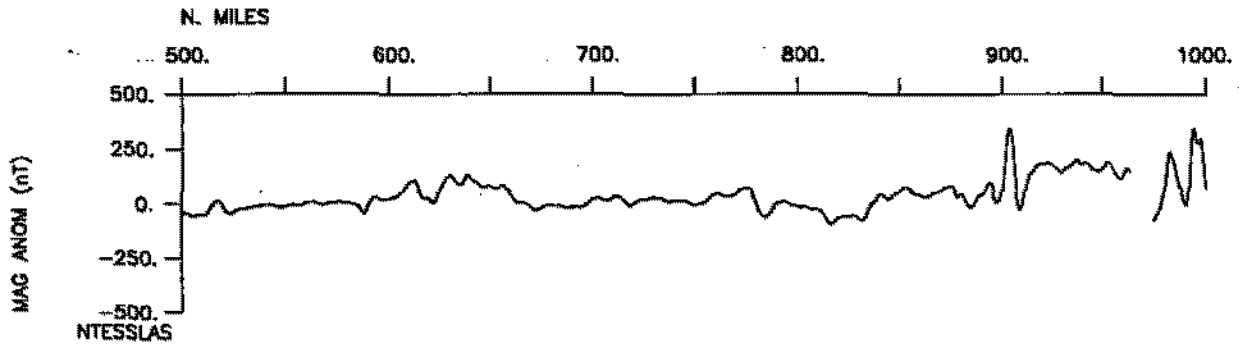
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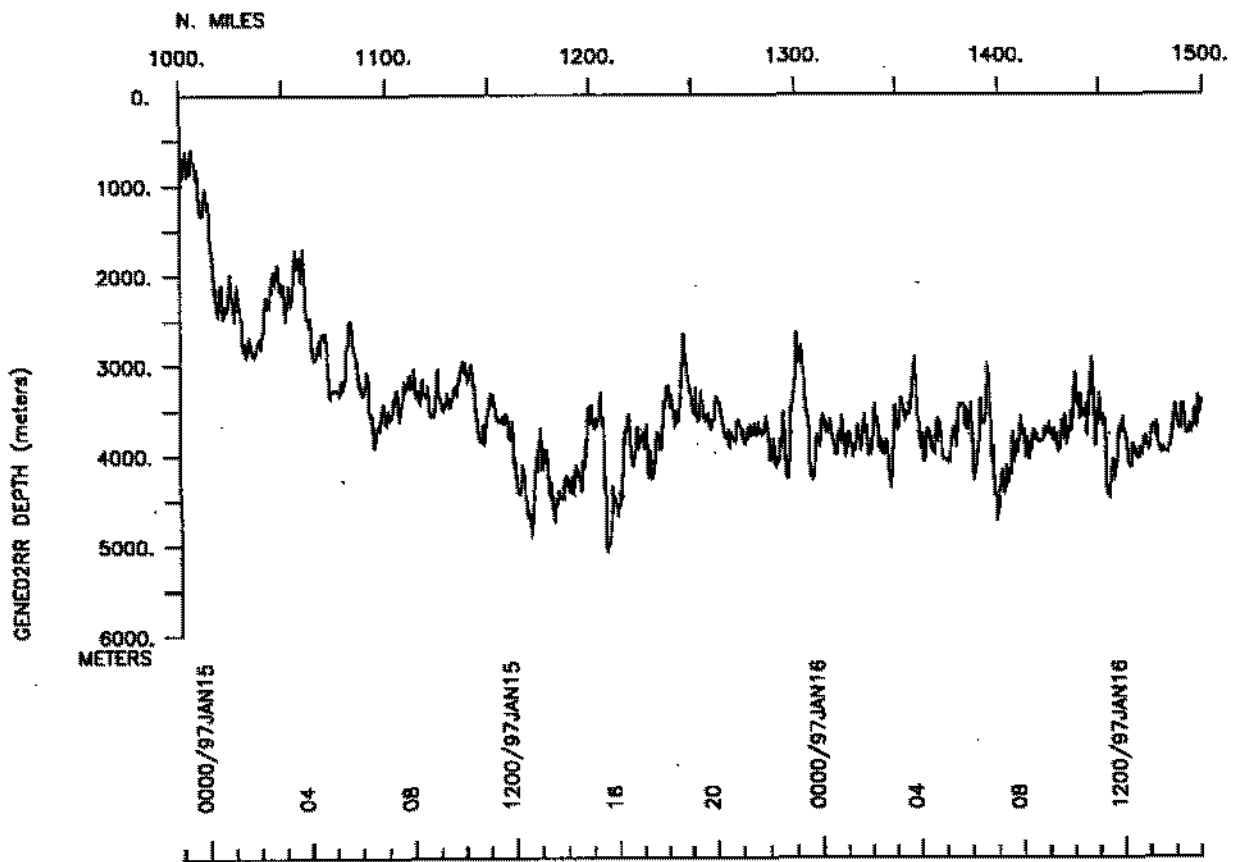
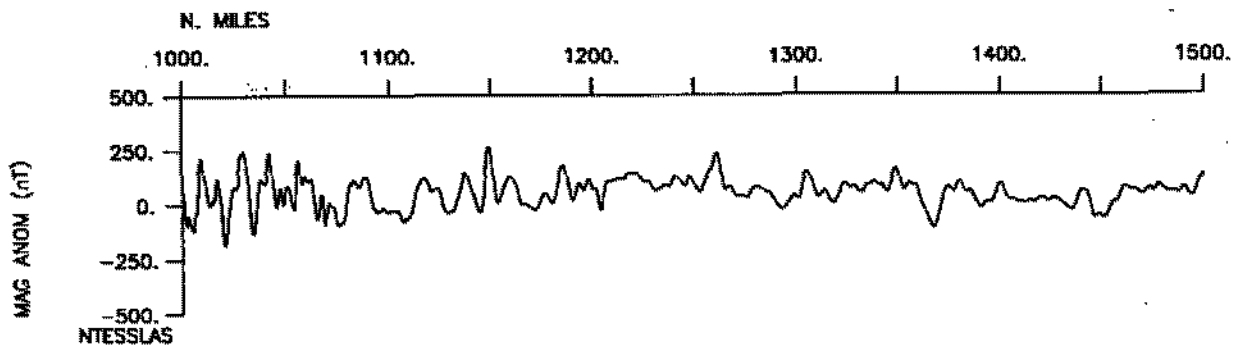


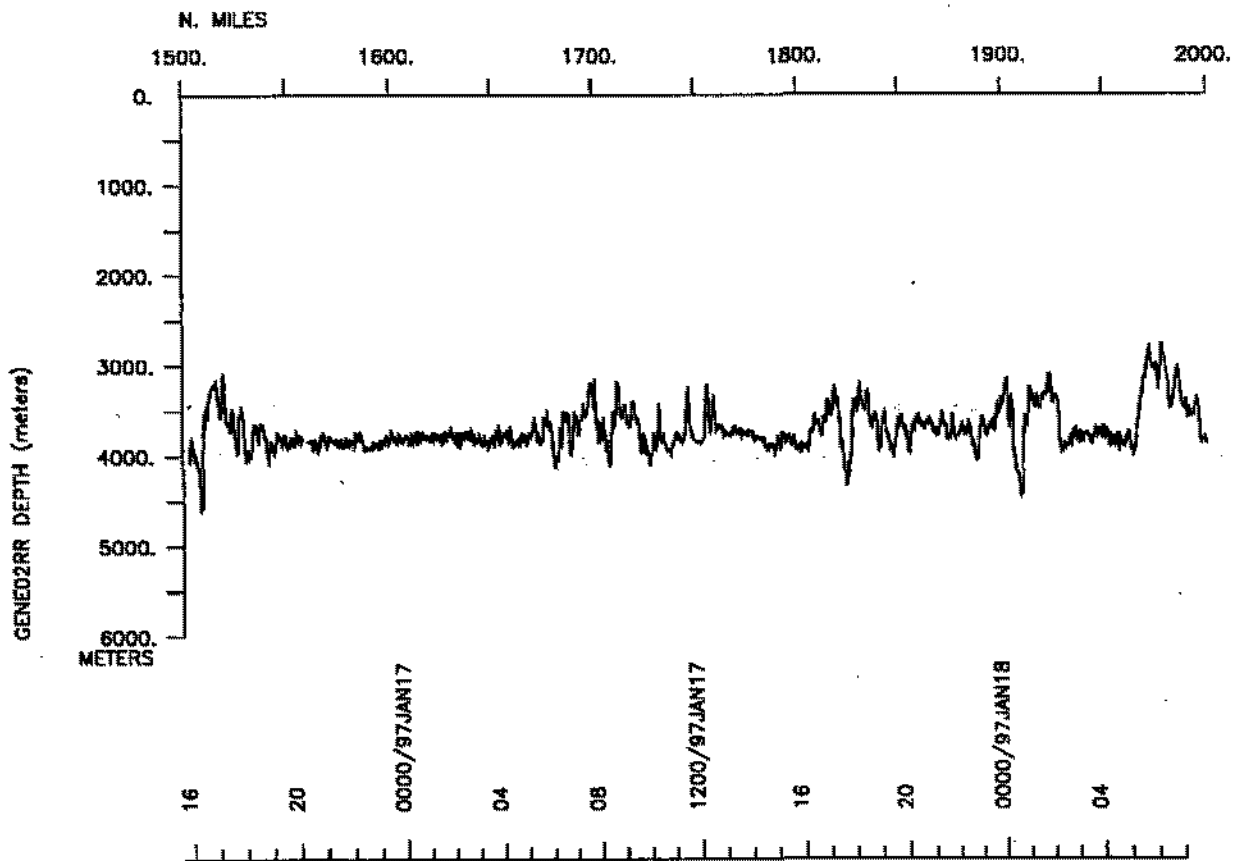
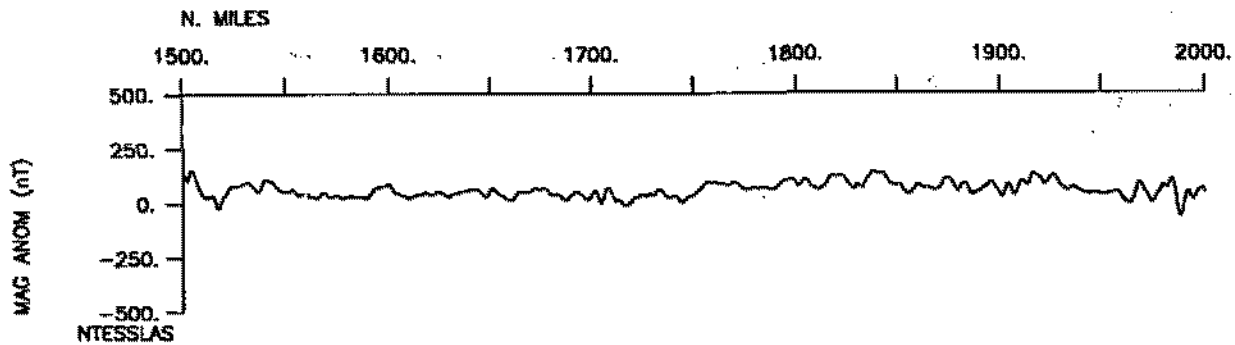
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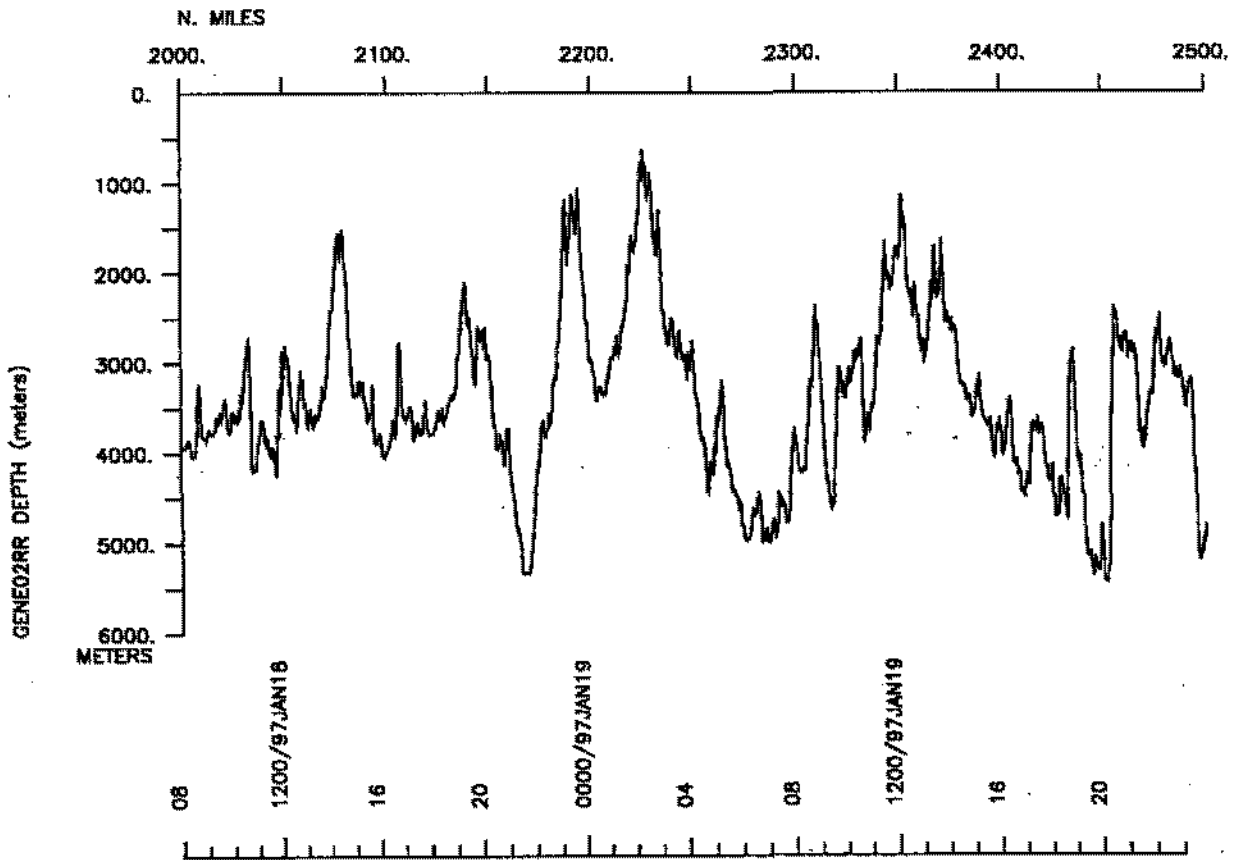
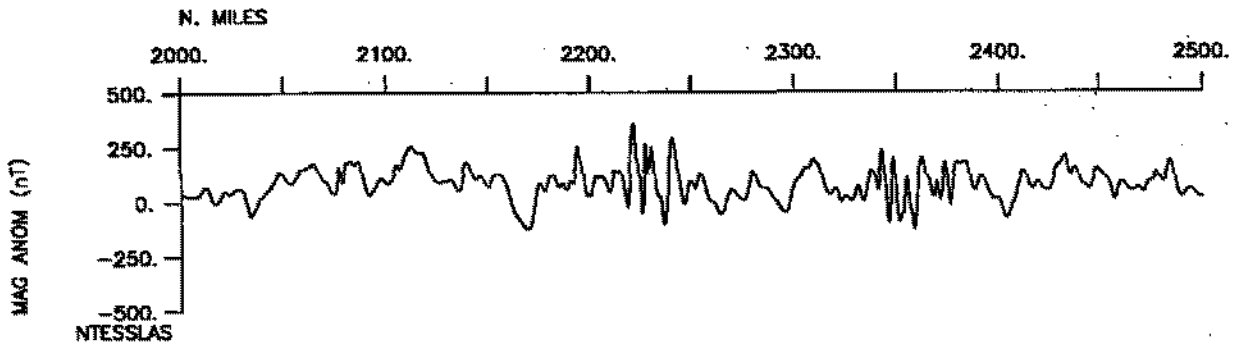


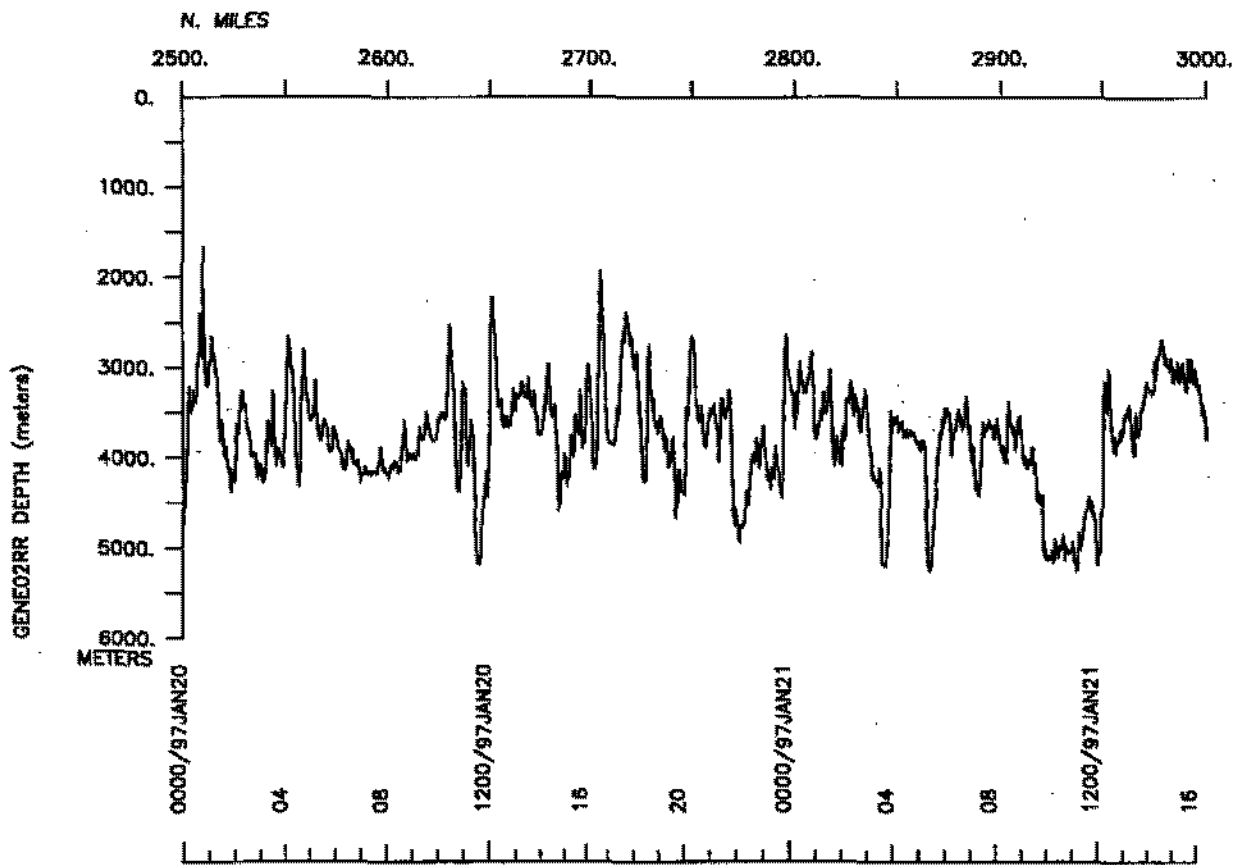
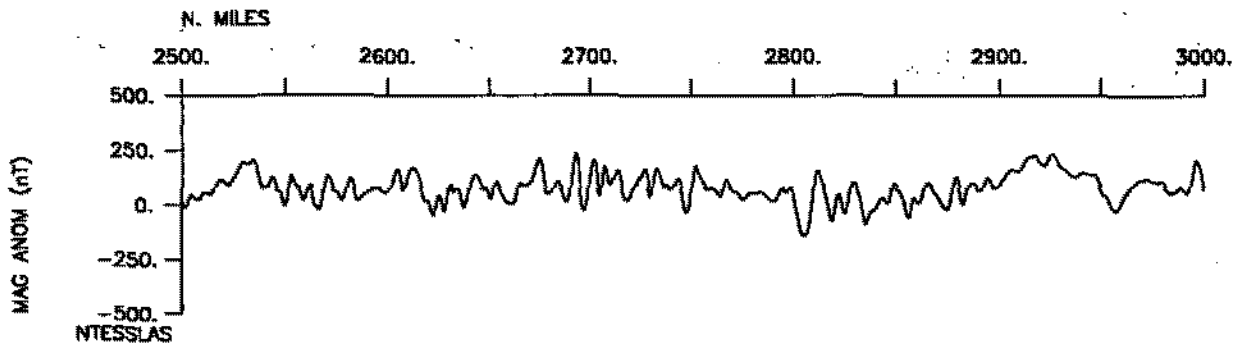


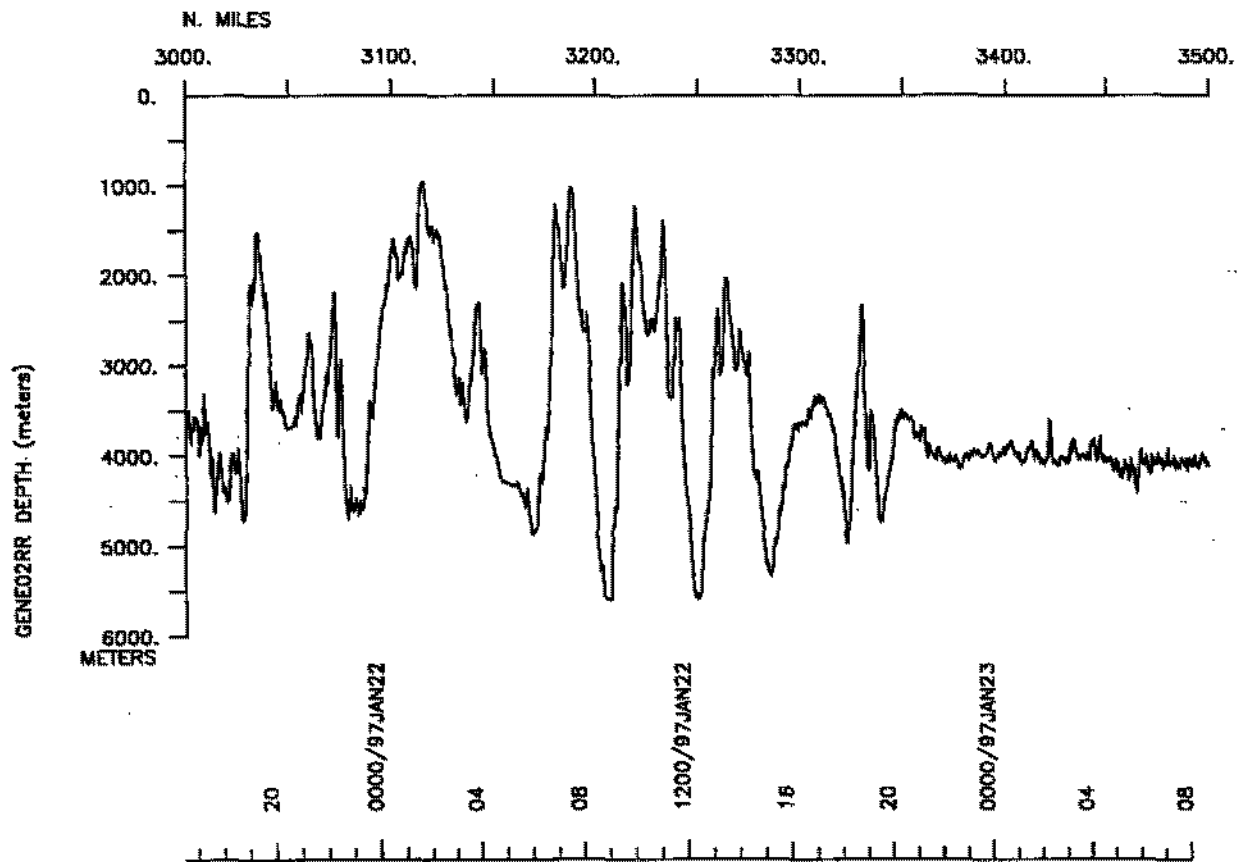
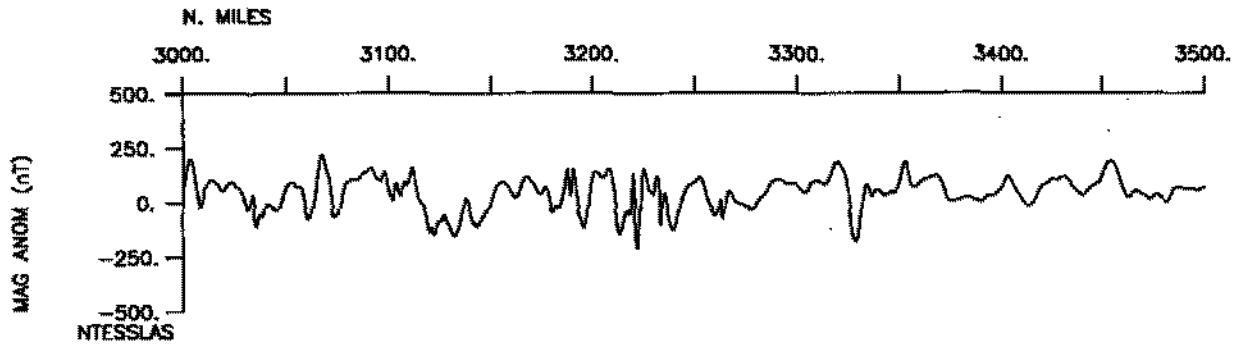


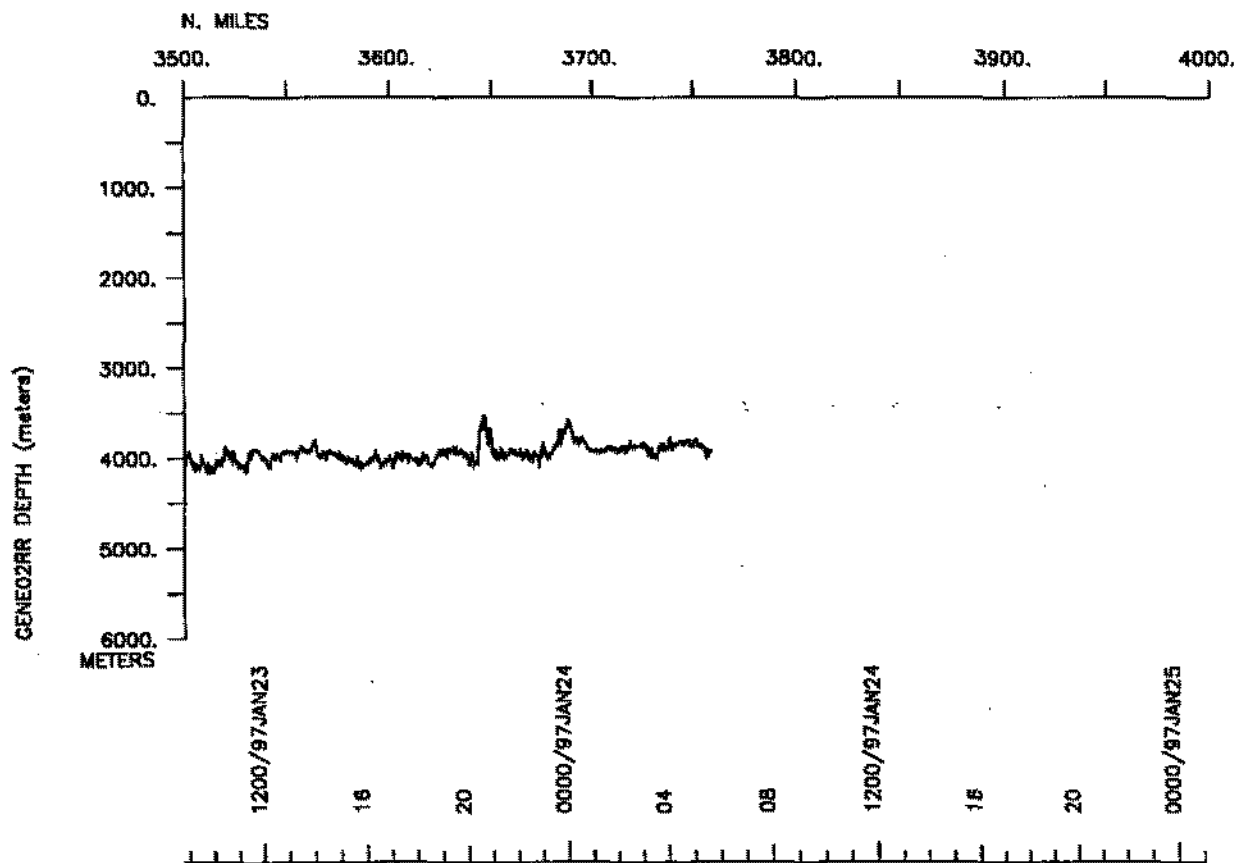
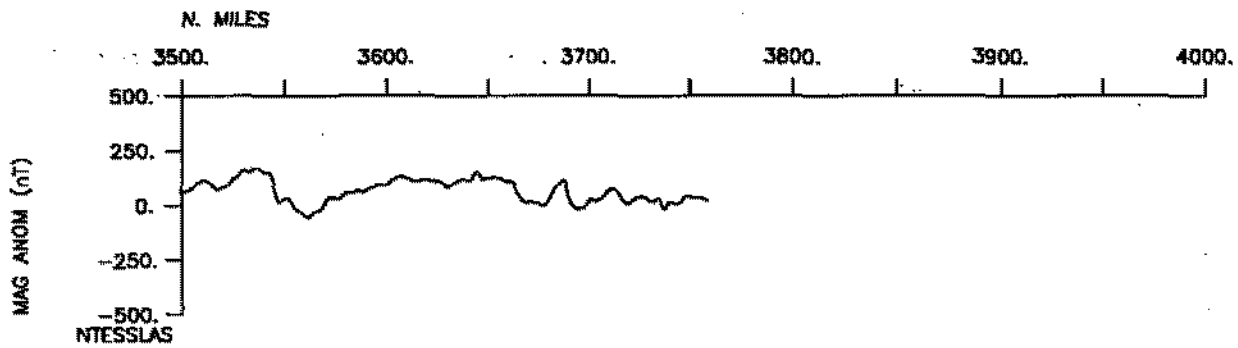


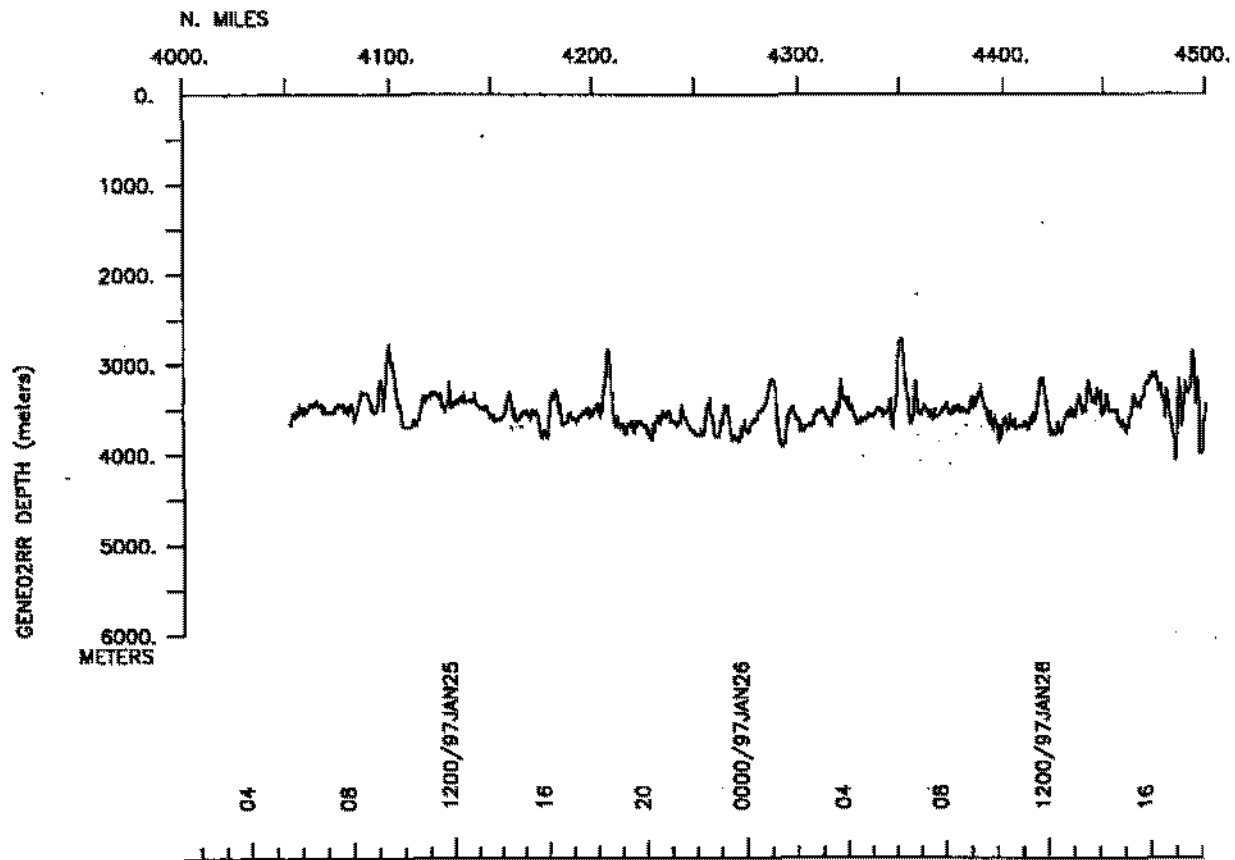
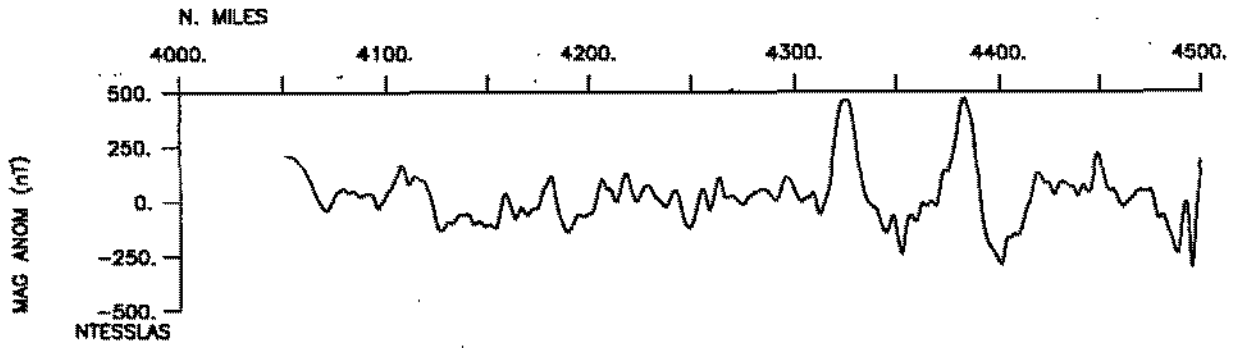


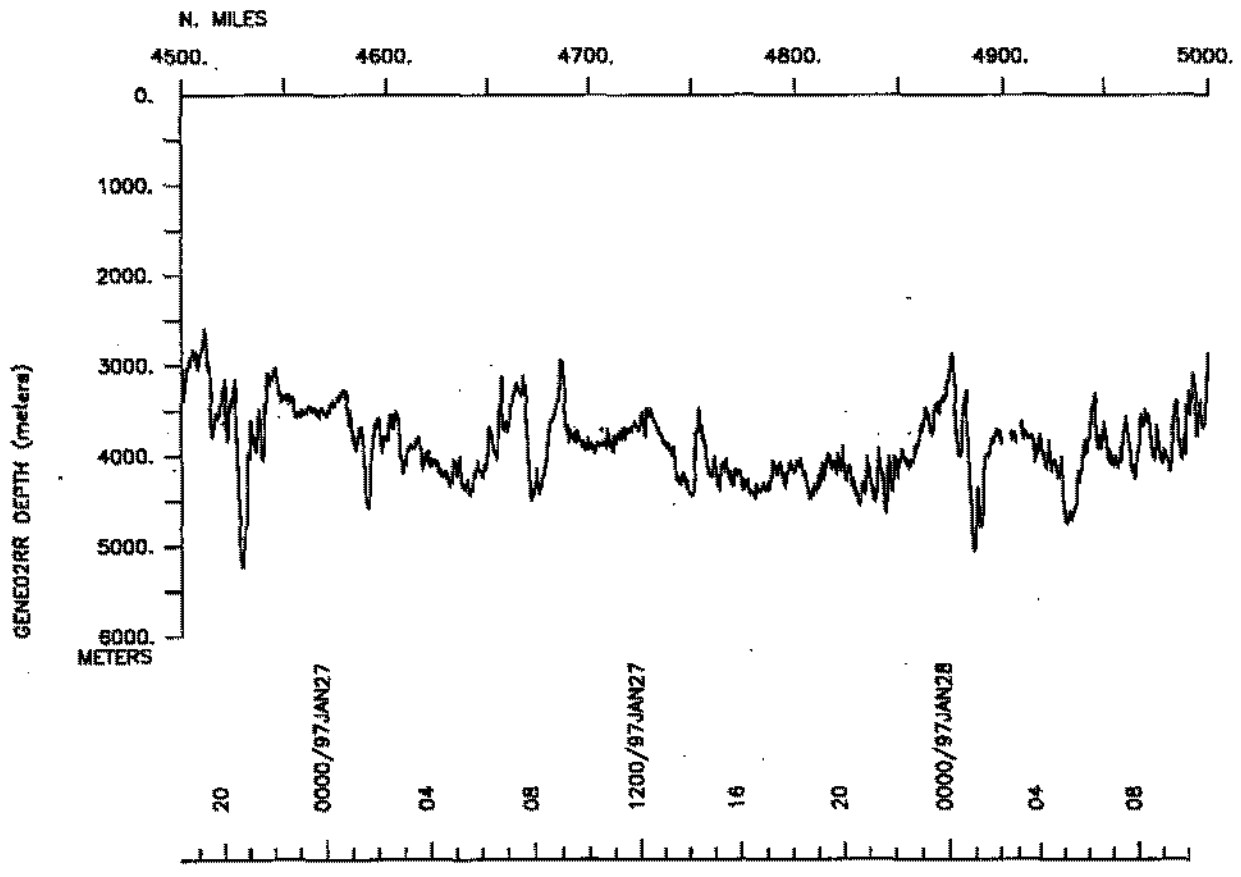
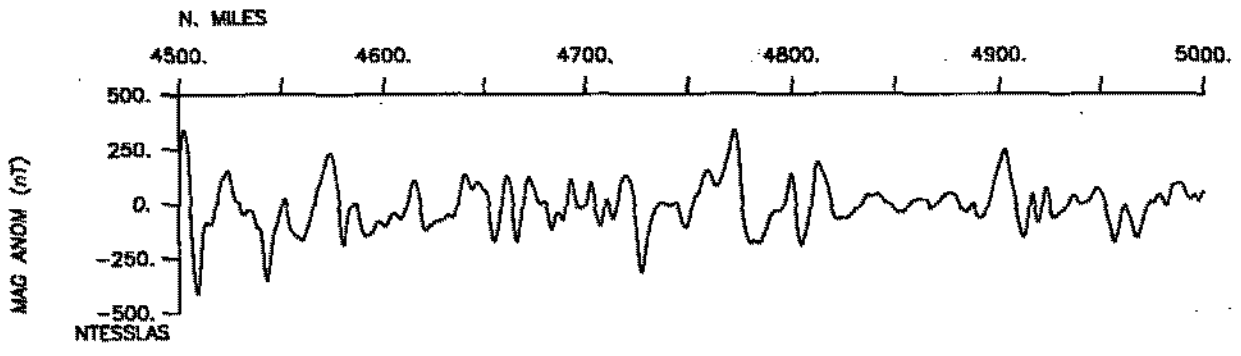


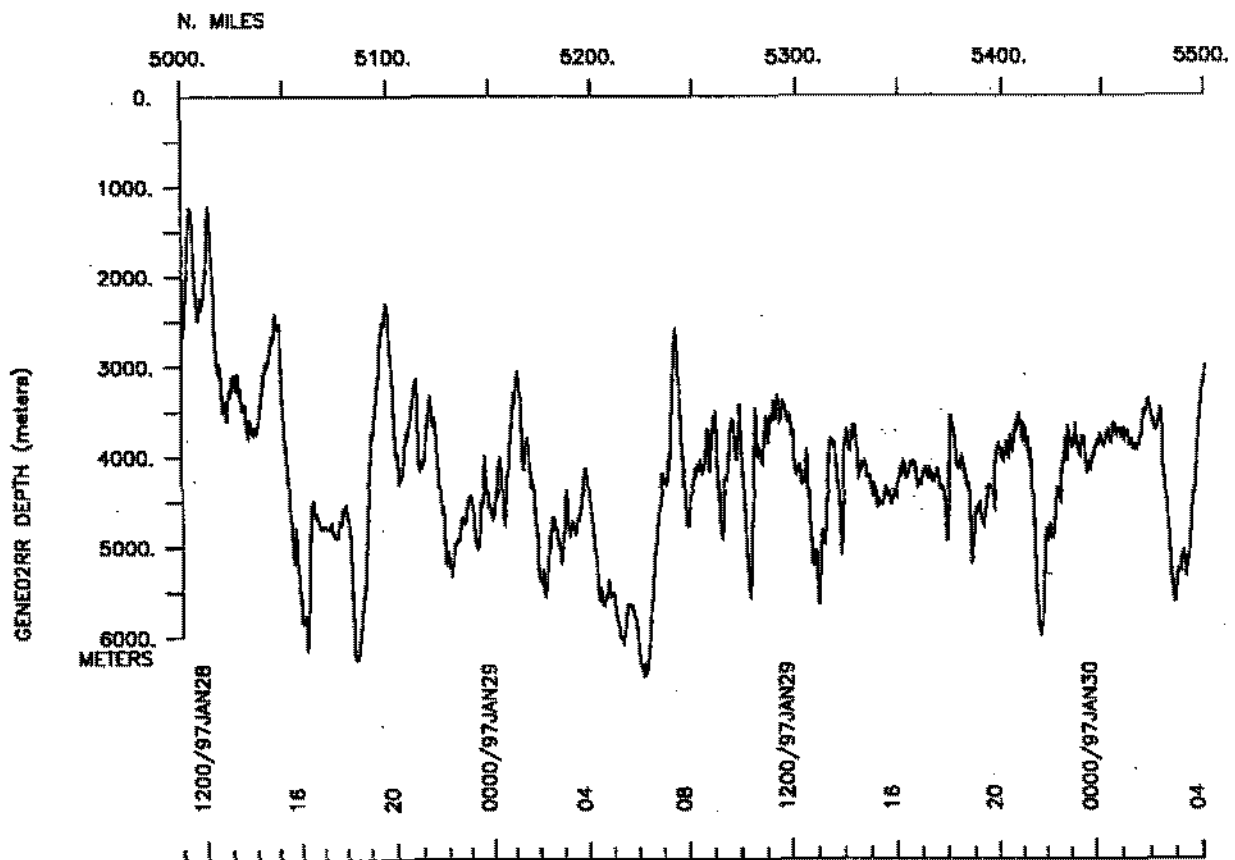
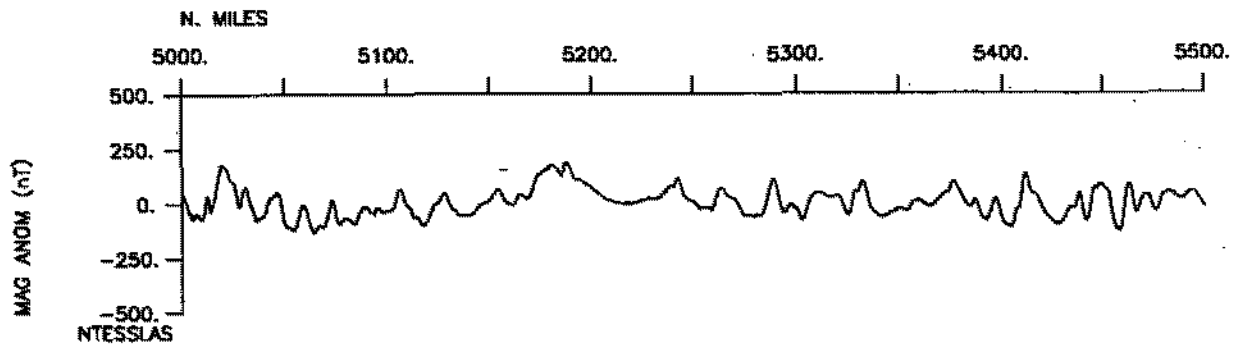


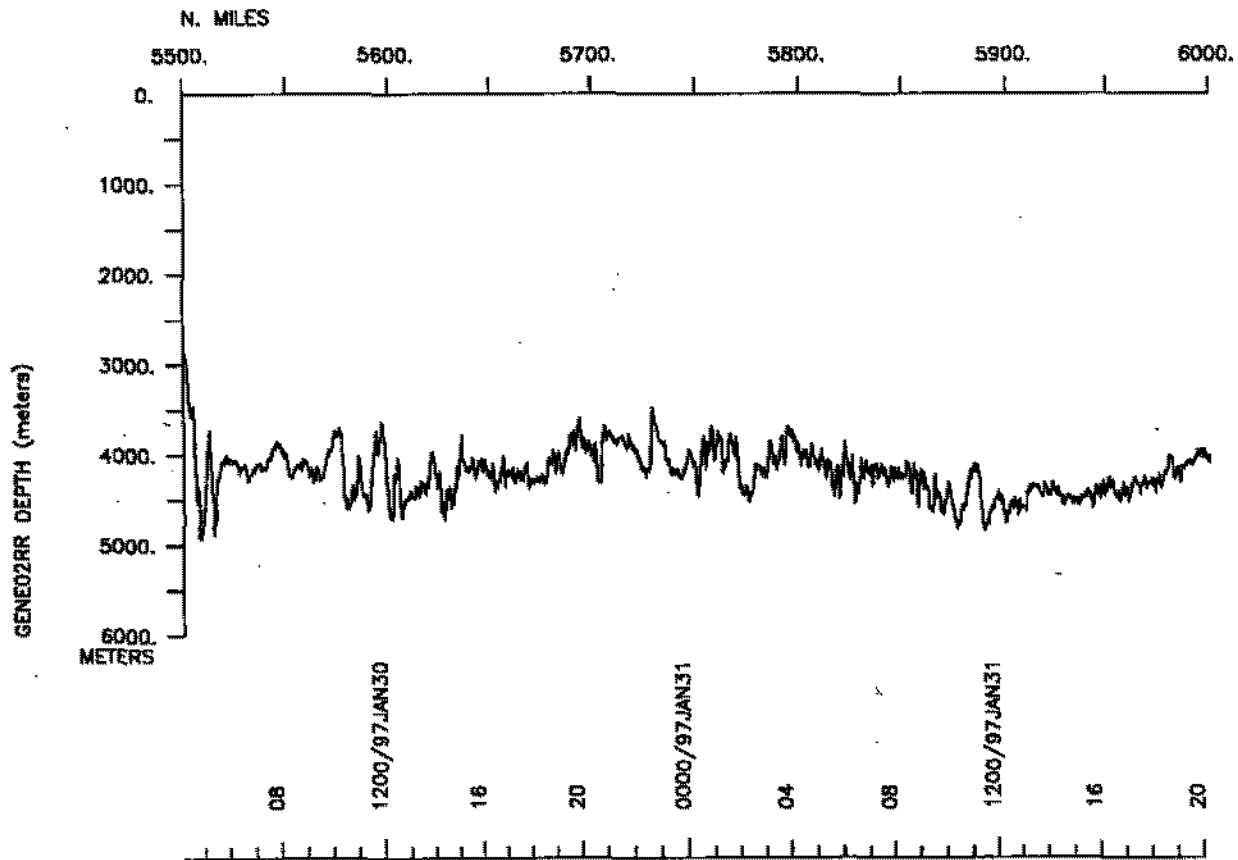
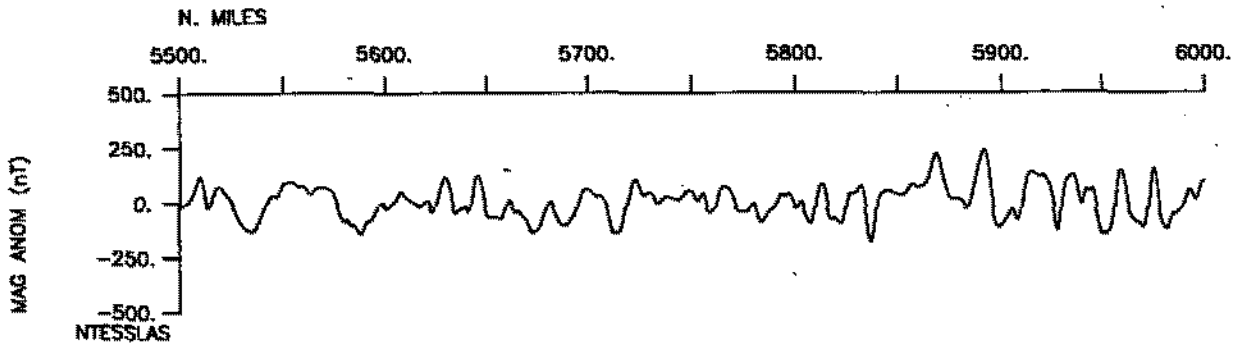


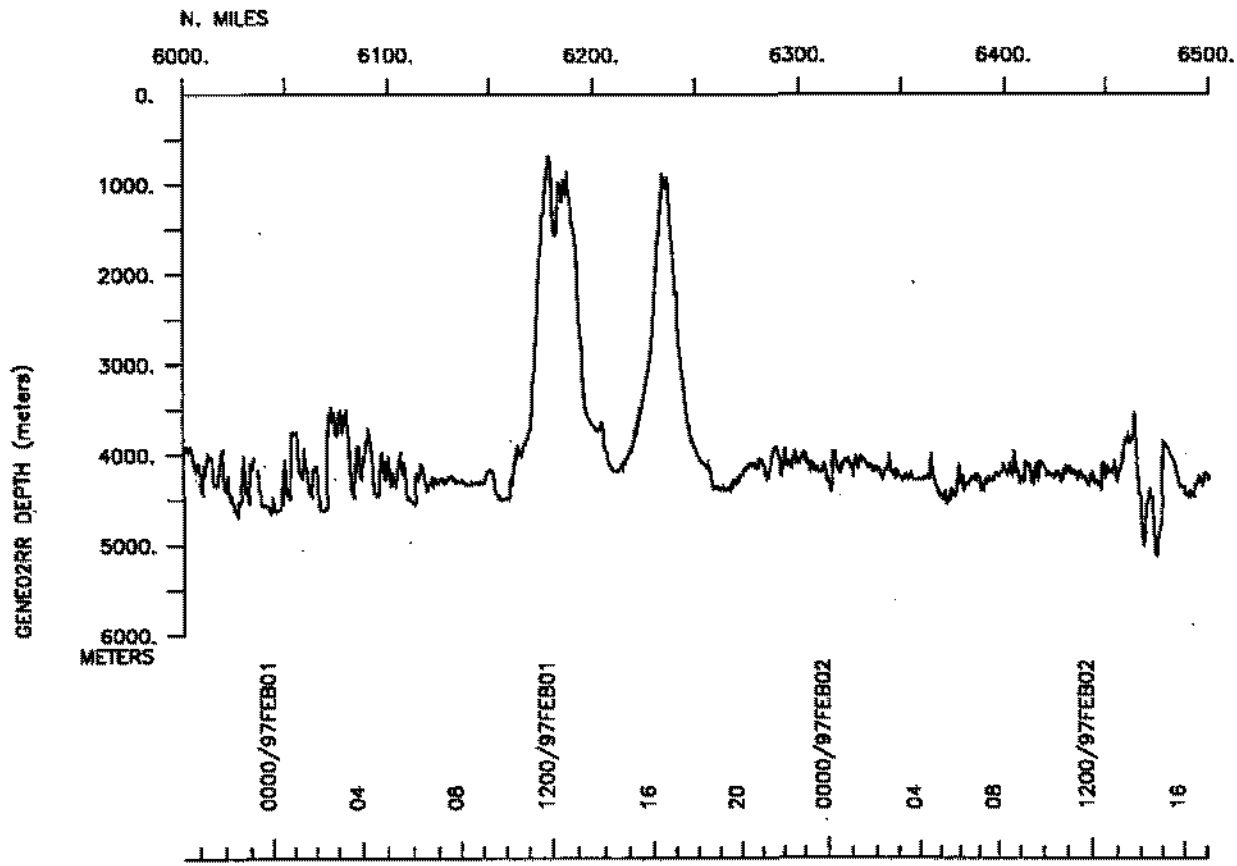
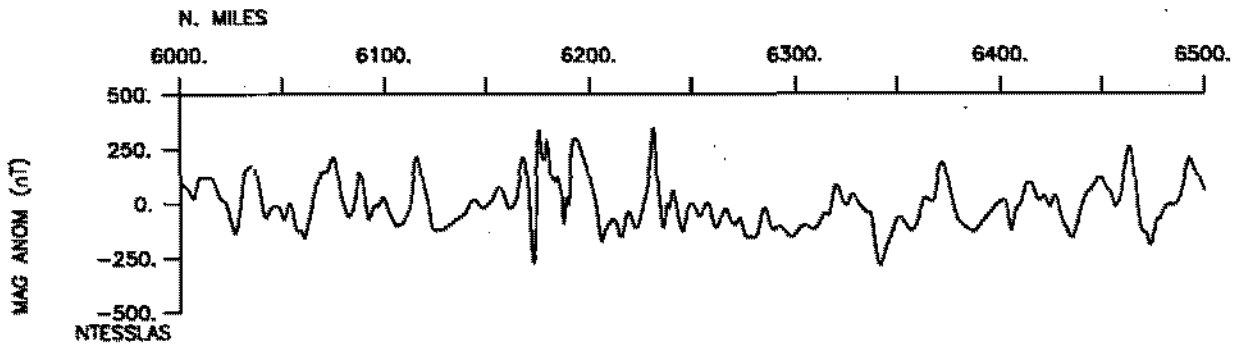


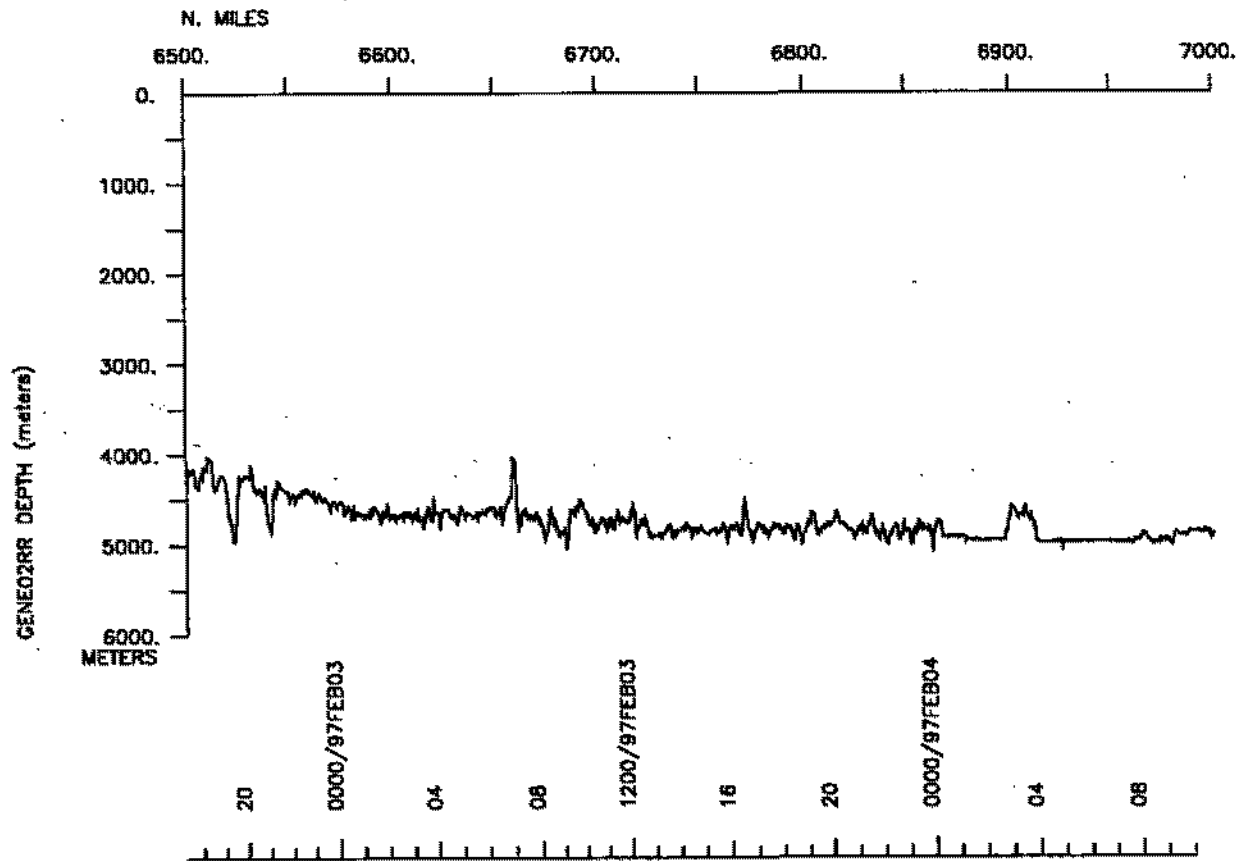
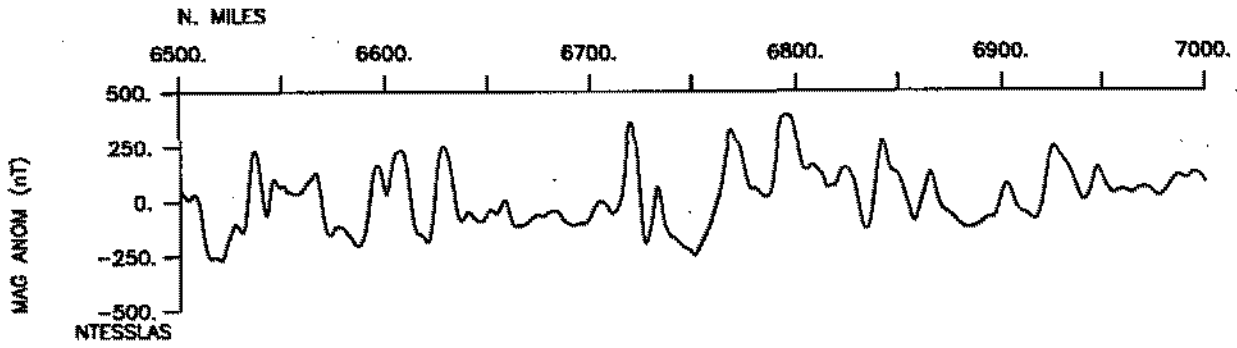


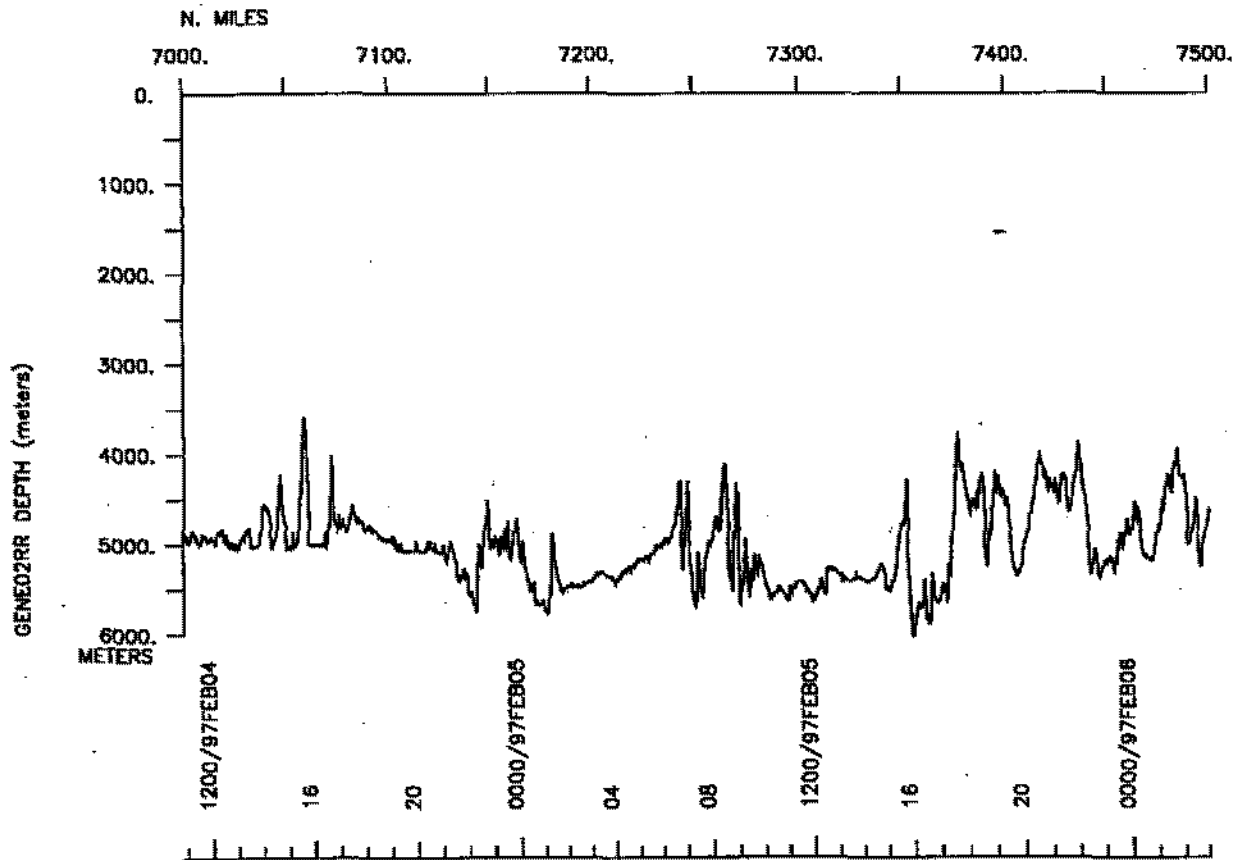
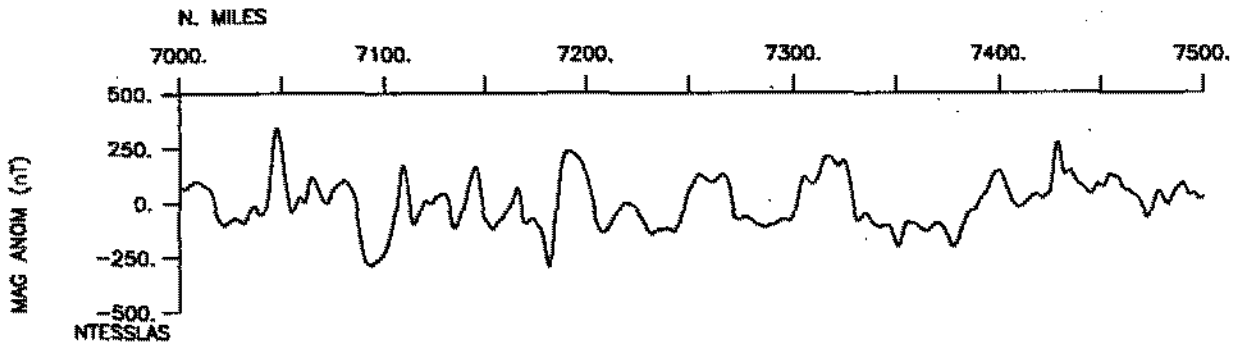


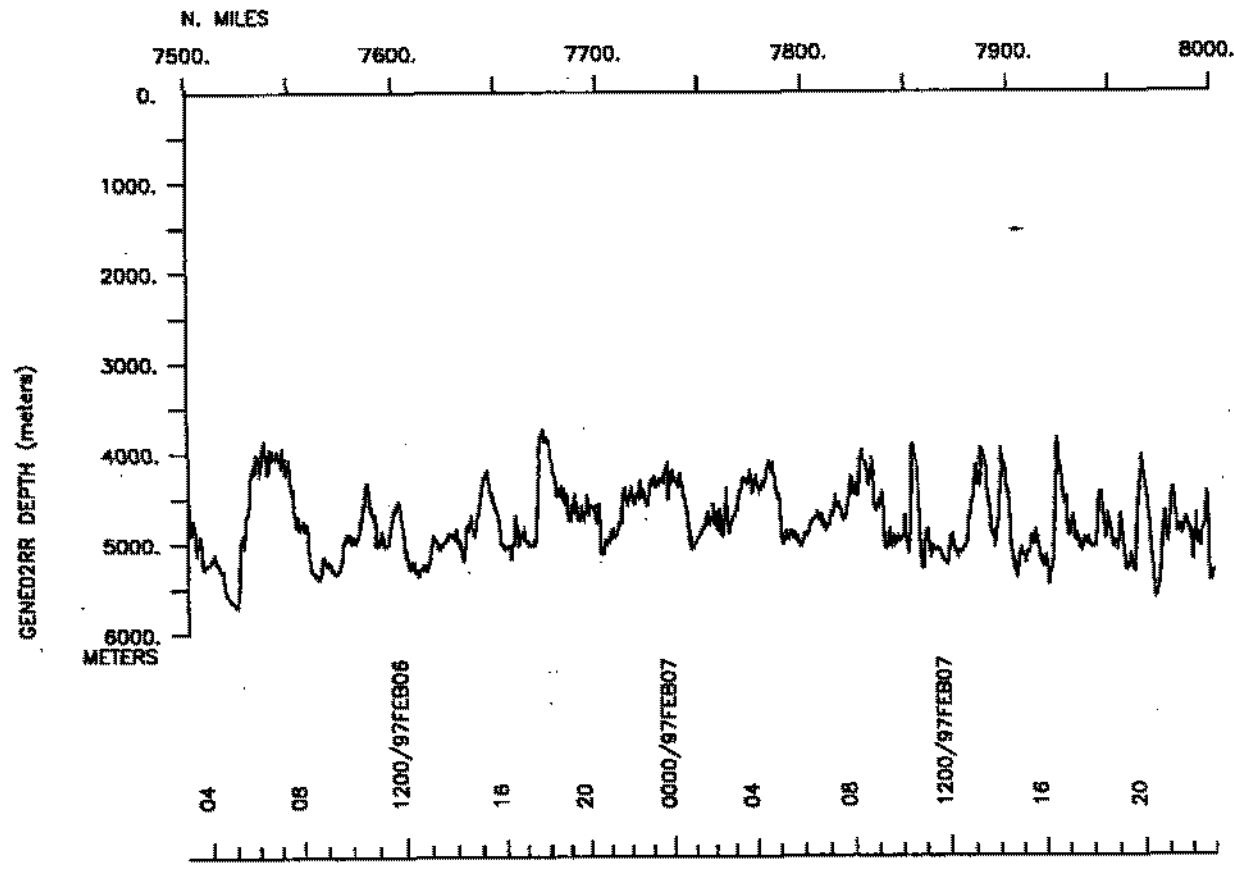
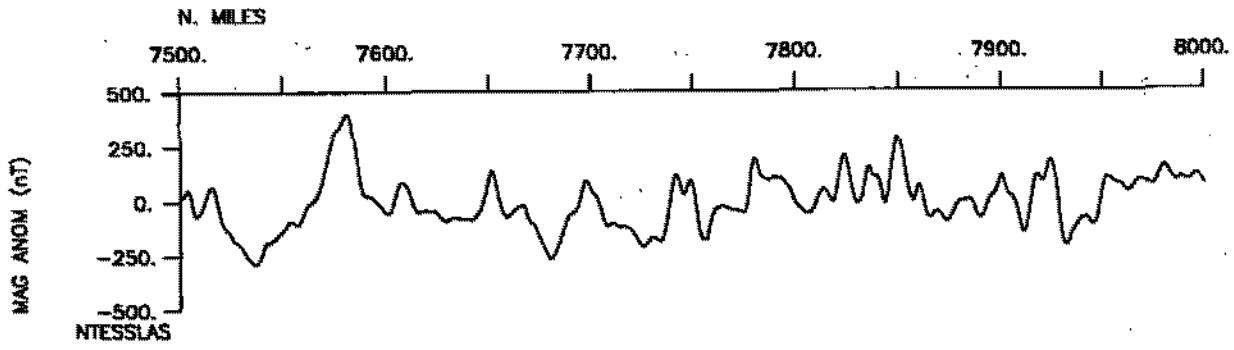


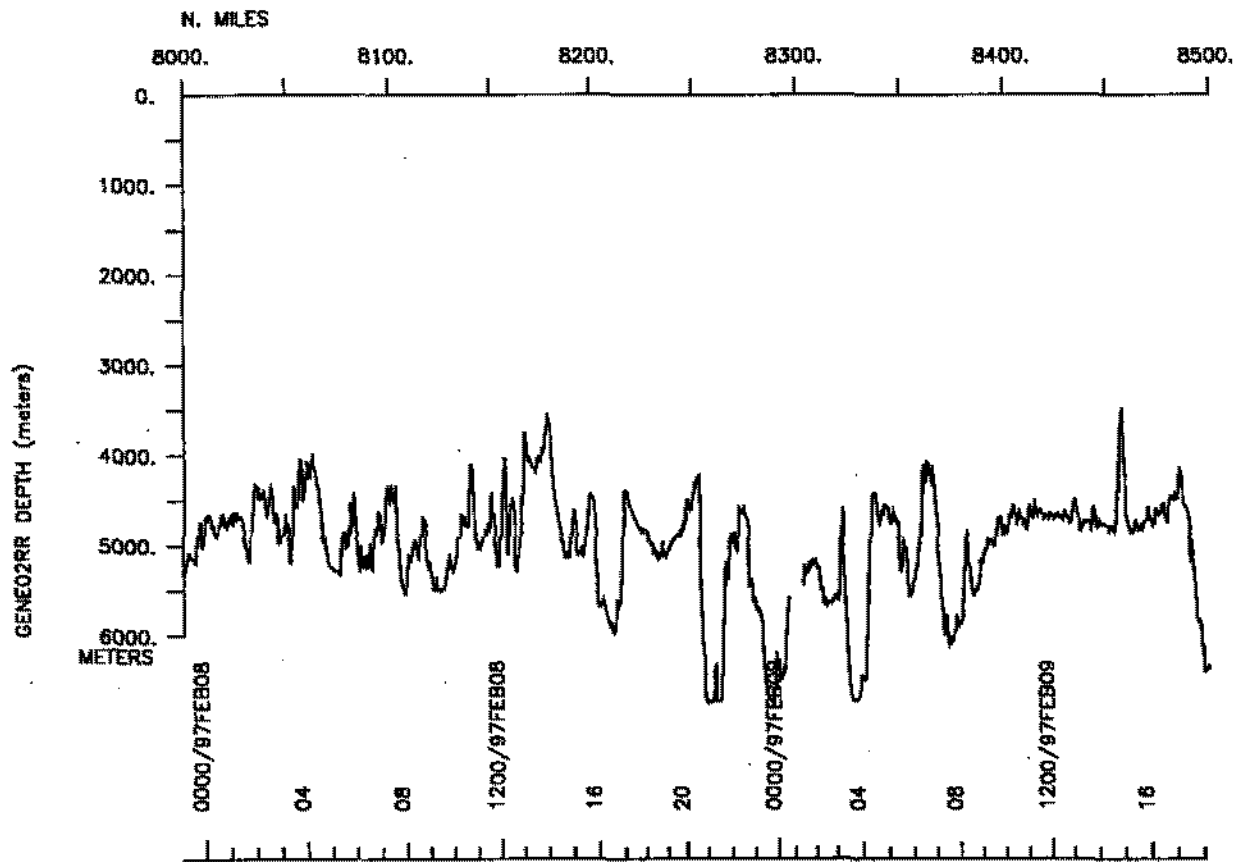
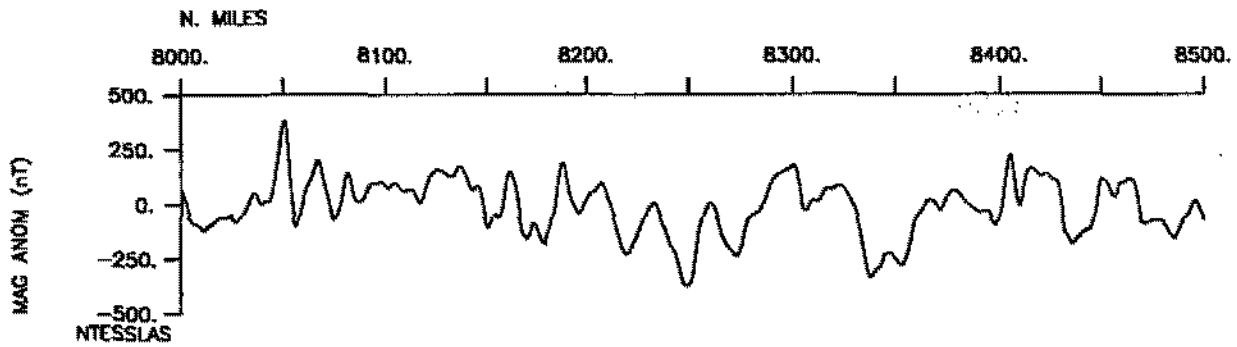


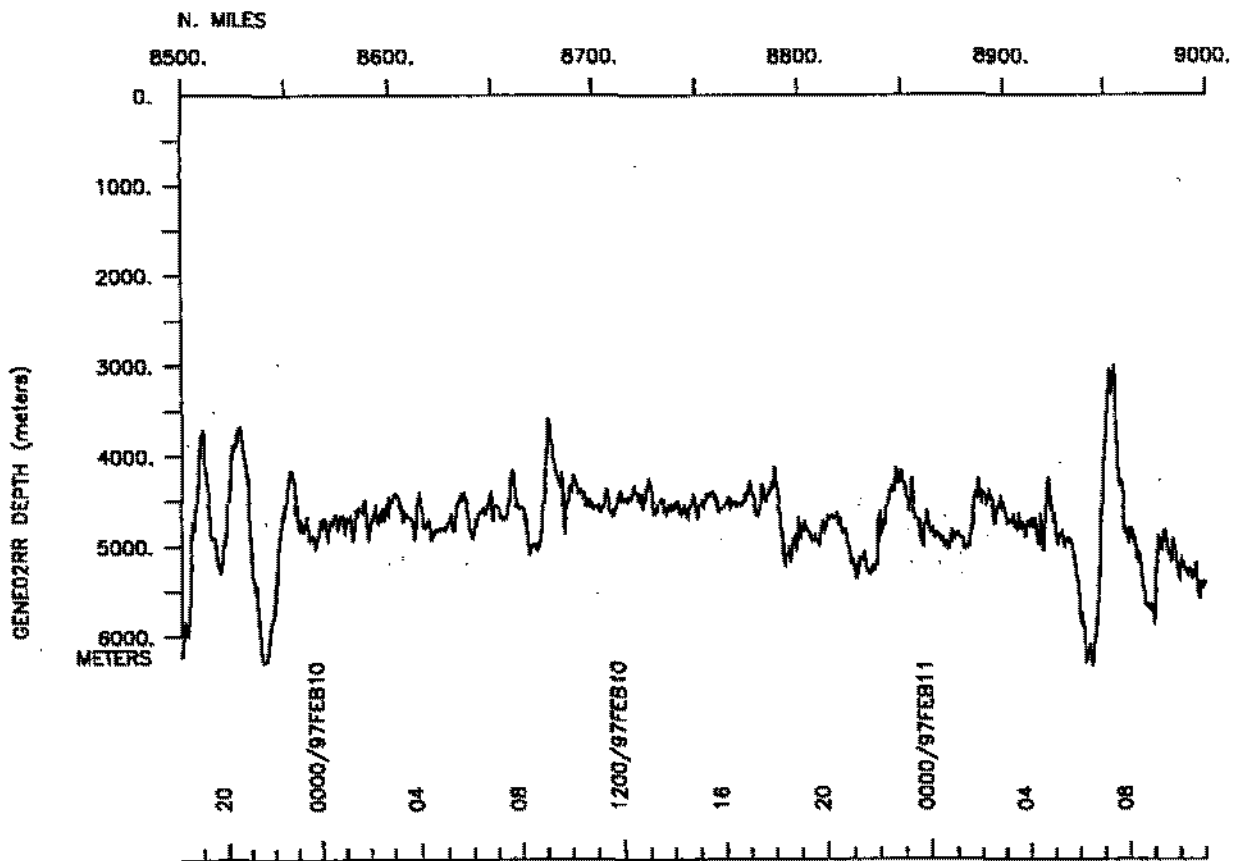
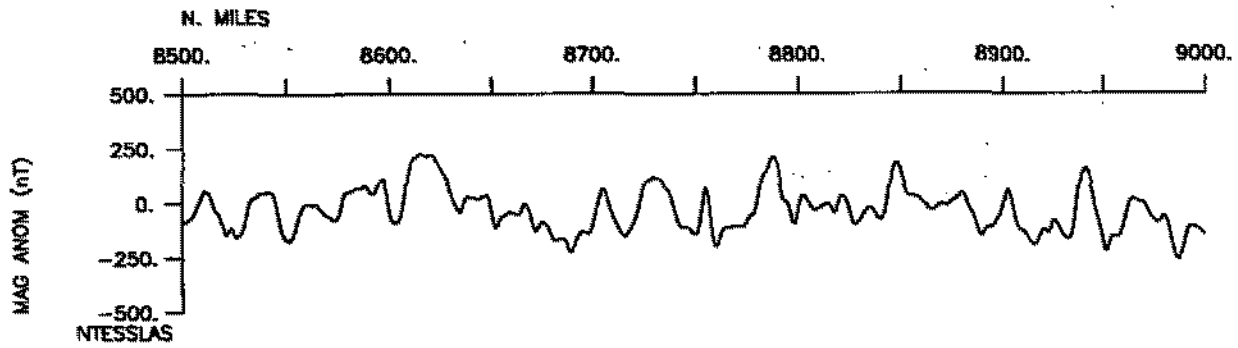


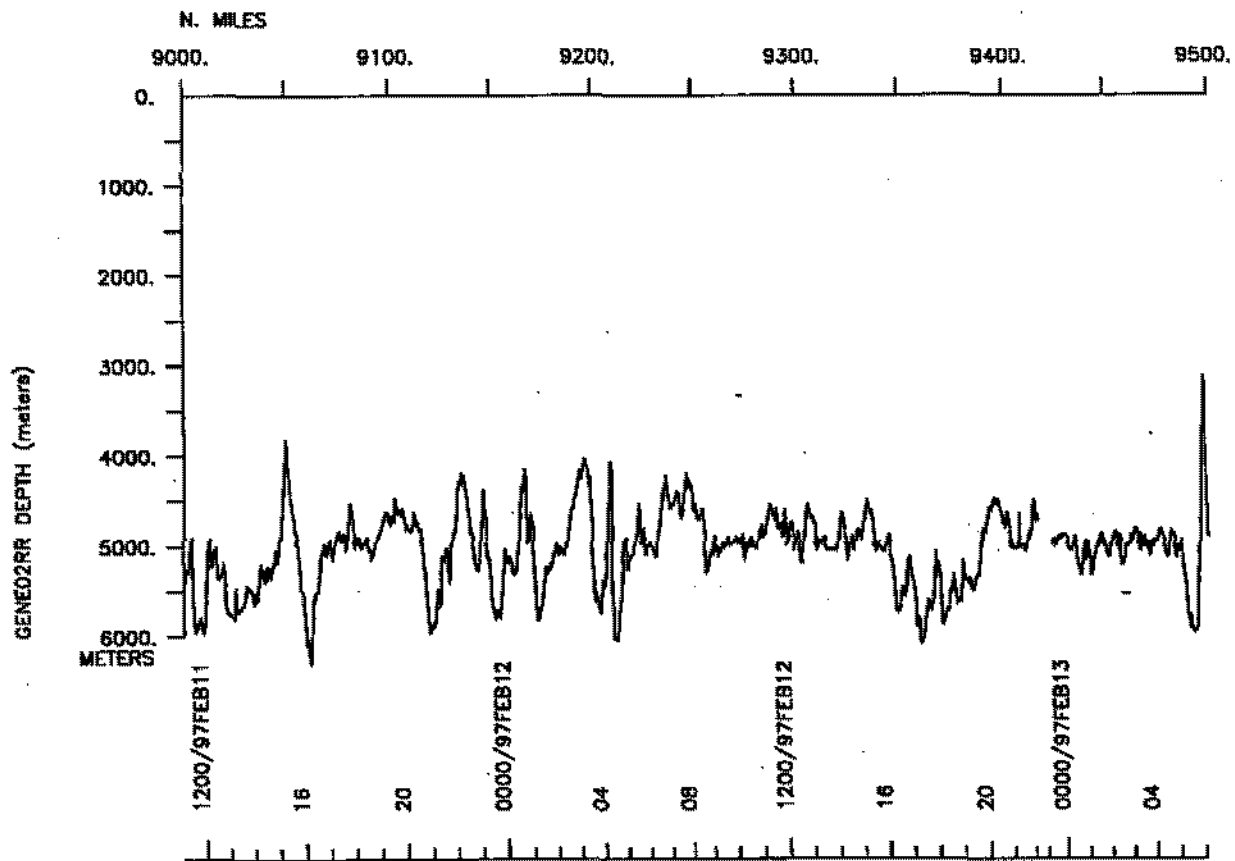
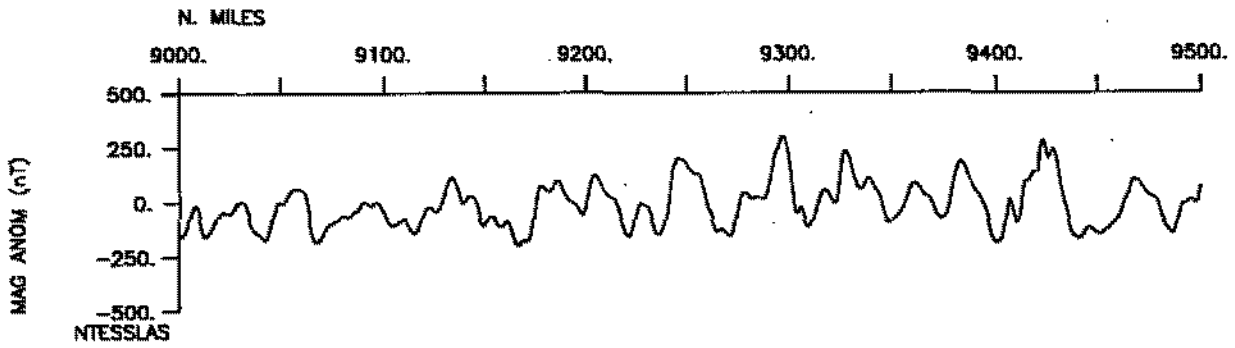


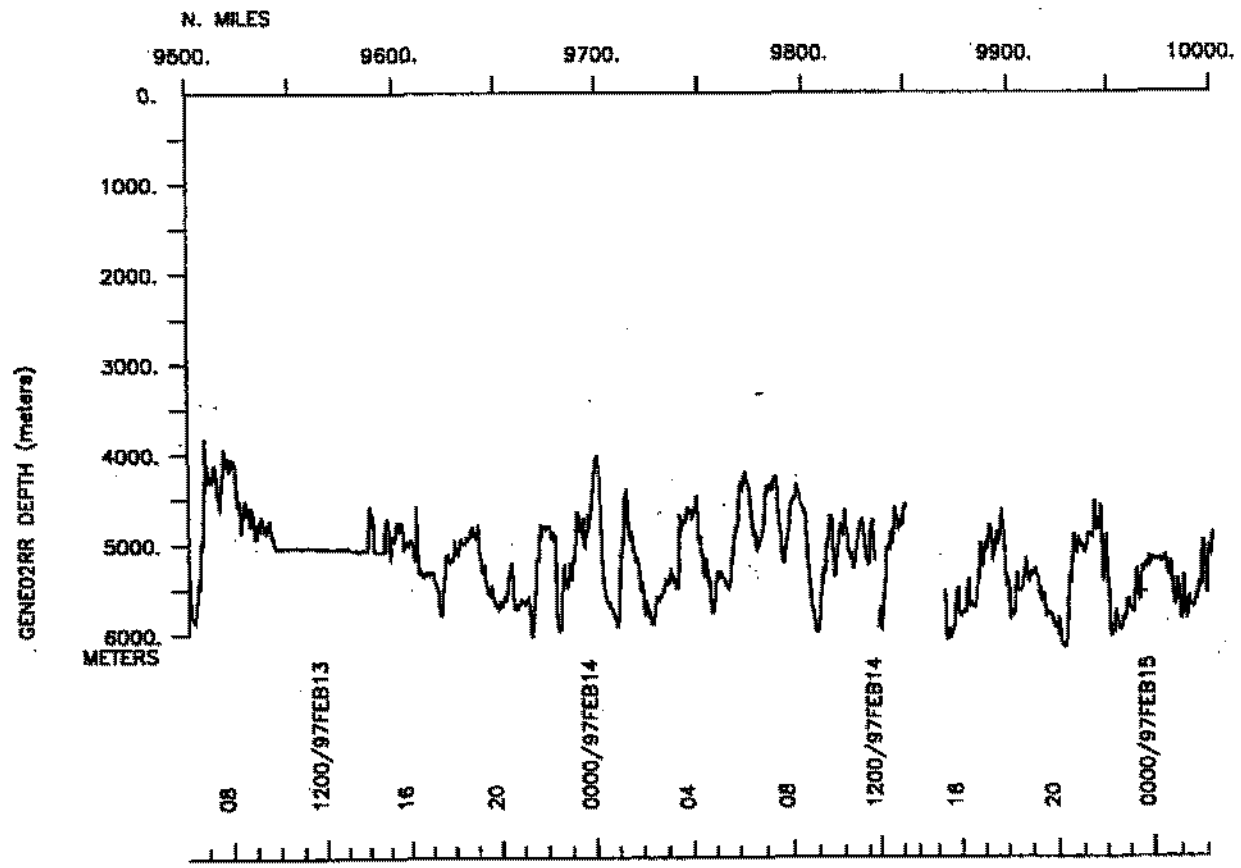
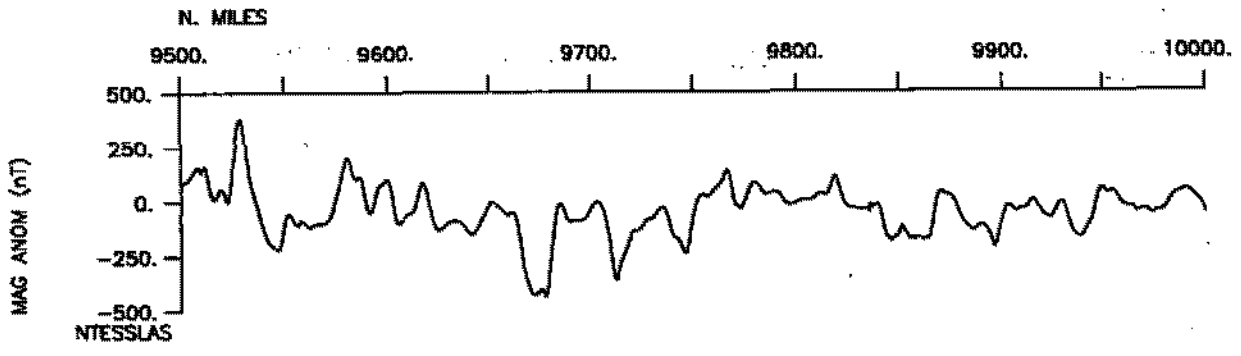


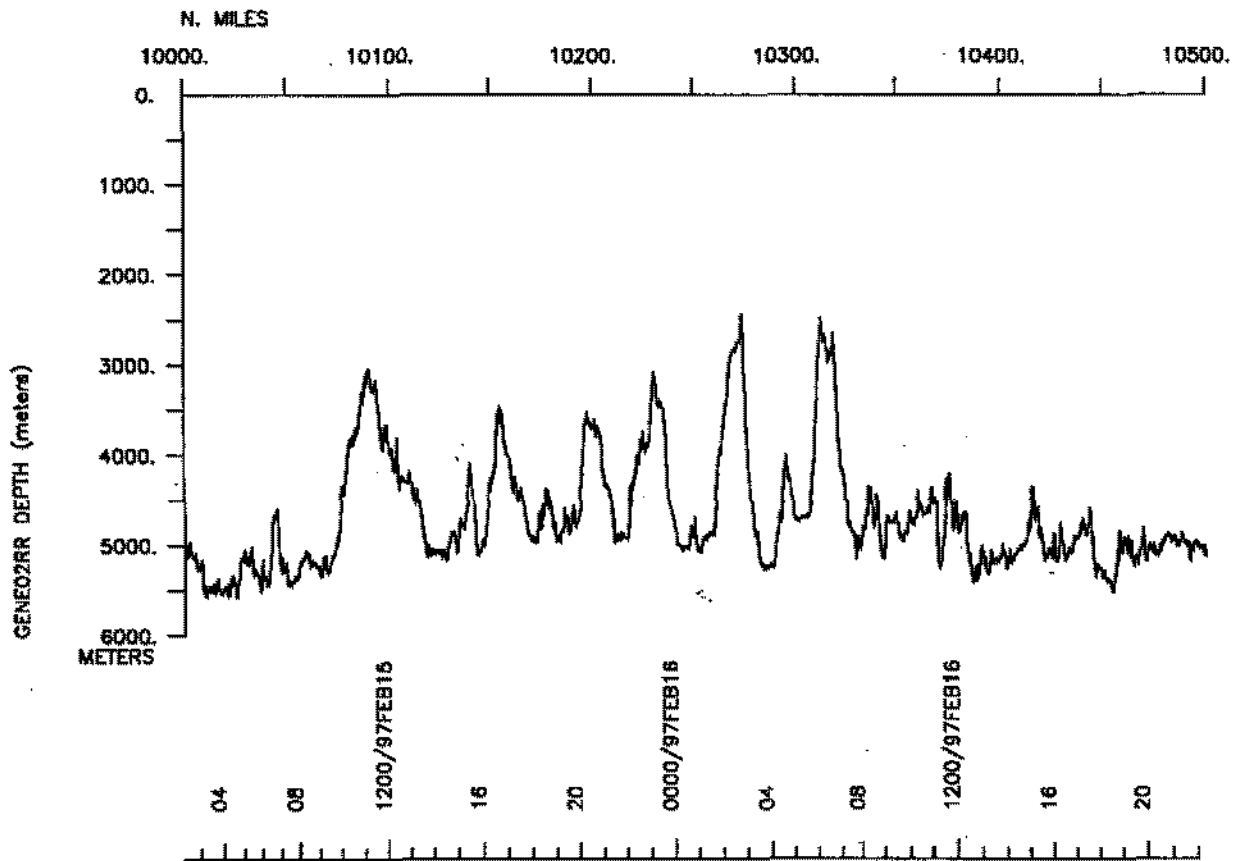
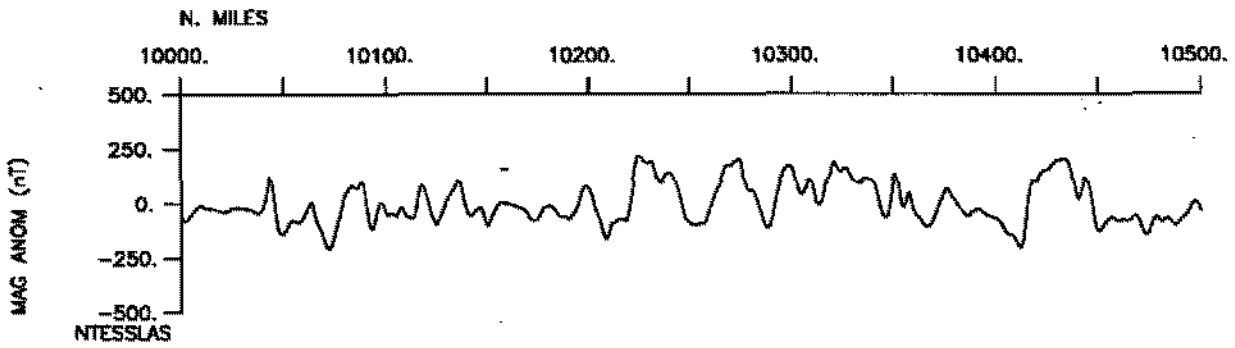


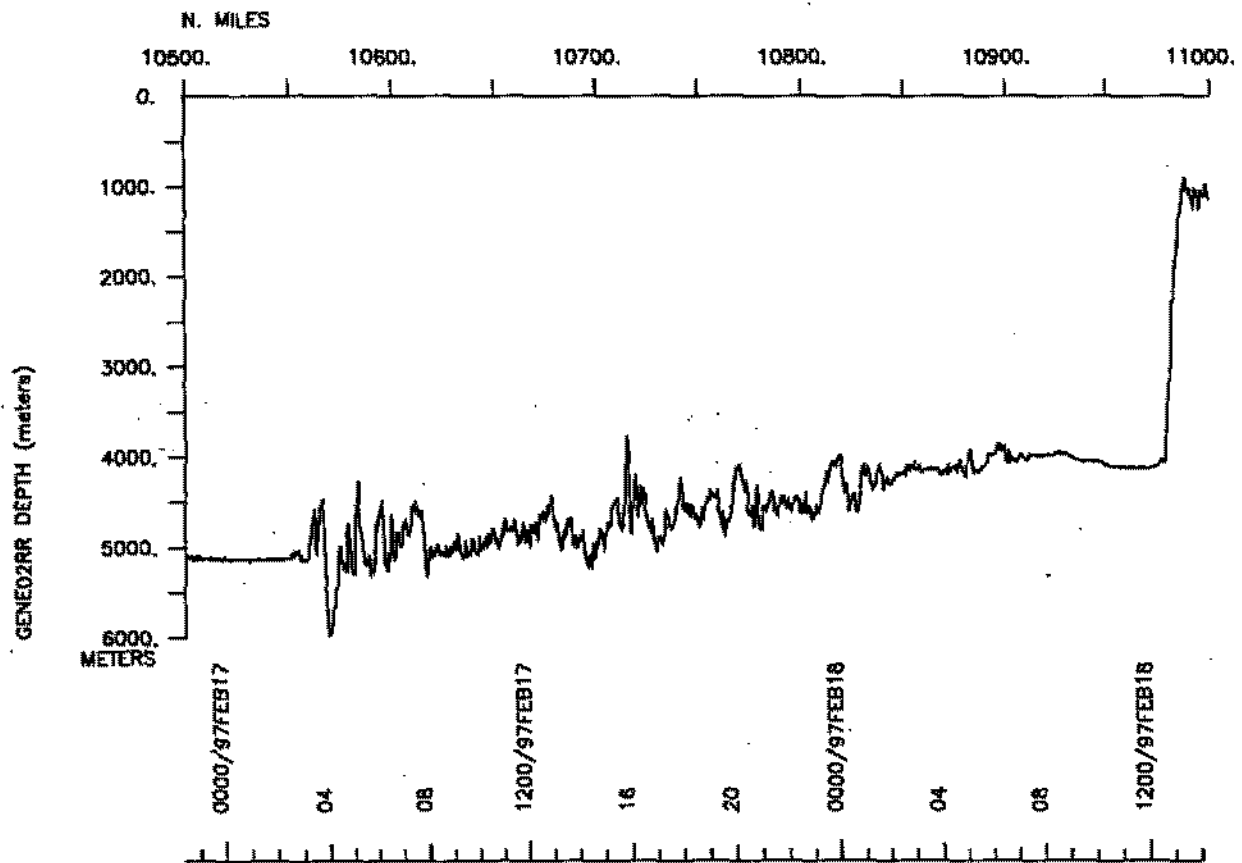
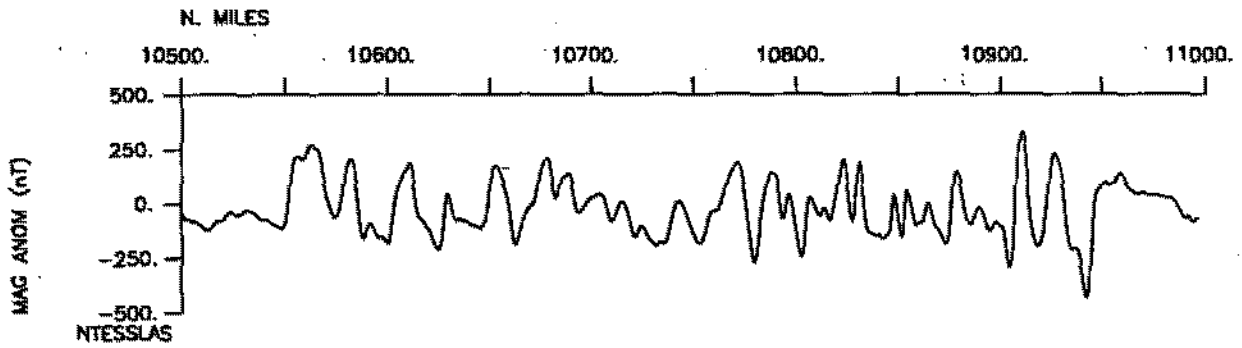


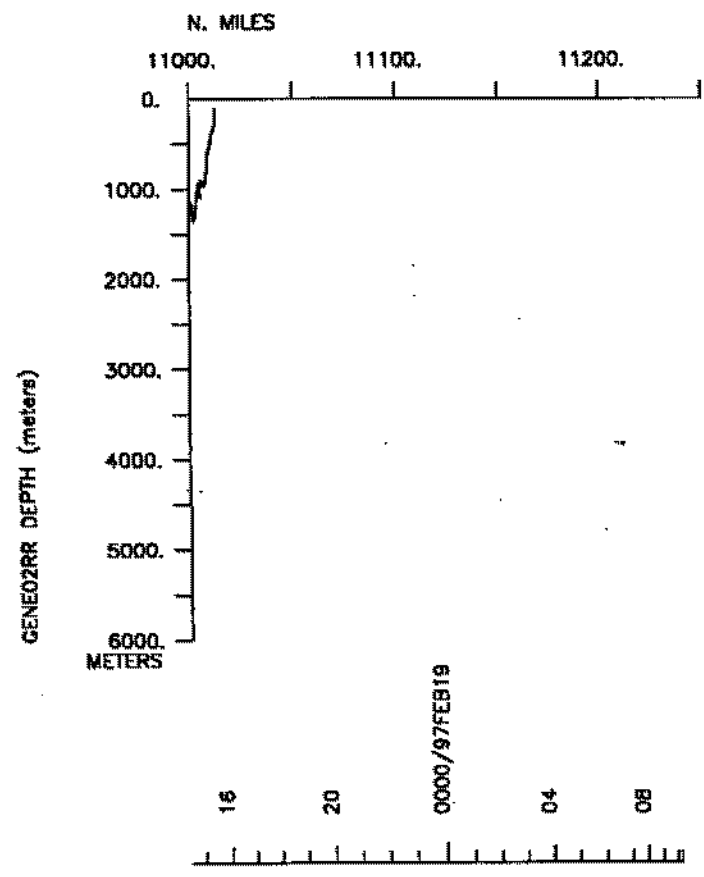
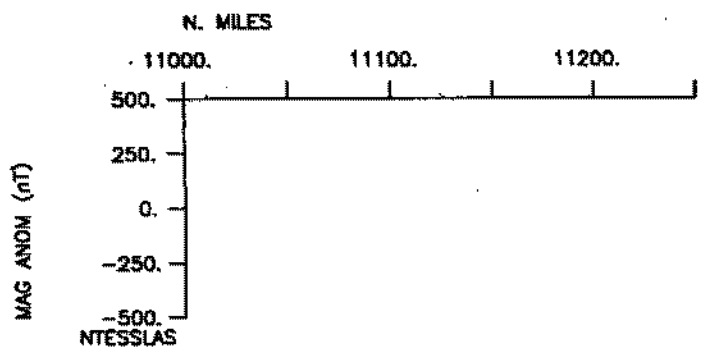












S.I.O. SAMPLE INDEX

GENESIS EXPEDITION

LEG 2

(GENE02RR)

R/V Revelle

(Issued April 1997)

Ports:

Talara, Peru (11 January 1997)

to

Punta Arenas, Chile (19 February 1997)

Chief Scientist:

Peter Lonsdale (Scripps Institution of Oceanography)

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 cods are available from the Geological Data Center.)

GDC CRUISE I.D.# 272

**** Ports ****

2300	110197	0	LGPT	B	Talara, Peru	04-34.00S	81-17.00W	f	GENE02RR
1100	190297	0	LGPT	E	Punta Arenas, Chile	53-10.00S	70-54.00W	f	GENE02RR

**** Personnel ****

#	*****NAME*****	*****TITLE*****	*****AFFILIATION*****	**CRID**
PECS MPL	Lonsdale, Peter	Chief scientist	Scripps Institution	GENE02RR
PECT STS	Charters, James	Computer tech	Scripps Institution	GENE02RR
PEST MPL	Dombard, A.	Grad student	Scripps Institution	GENE02RR
PEST MPL	Eakins, B.	Grad student	Scripps Institution	GENE02RR
PECT STS	Heckman, Earl	Hardware tech	Scripps Institution	GENE02RR
PEST MPL	Massel, C.	Grad student	Scripps Institution	GENE02RR
PESP STS	Mogk, Seth	Geophys tech	Scripps Institution	GENE02RR
PESP SIX	Root, E.	Volunteer	Scripps Institution	GENE02RR
PEST MPL	Skinner, Kim	Grad student	Scripps Institution	GENE02RR
PESP SIX	Bouchard, George	Volunteer	Non-Scripps Employee	GENE02RR

**** 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 ****

2300	110197	0	LBUW	B	Underway watch log	GDC	4-33.78S	81-17.38W	g	GENE02RR
1500	180297	0	LBUW	E	Underway watch log	GDC	52-49.70S	75-23.19W	g	GENE02RR

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

1550	120197	0	MBSR	B	v.beam&sidescan r-01	GDC	5-52.93S	84-32.50W	g	GENE02RR
2250	220197	0	MBSR	E	v.beam&sidescan r-01	GDC	17-31.50S	105-22.76W	g	GENE02RR
2250	220197	0	MBSR	B	v.beam&sidescan r-02	GDC	17-31.50S	105-22.76W	g	GENE02RR
1850	040297	0	MBSR	E	v.beam&sidescan r-02	GDC	53-38.18S	92-55.10W	g	GENE02RR
1850	040297	0	MBSR	B	v.beam&sidescan r-03	GDC	53-38.18S	92-55.10W	g	GENE02RR
1520	180297	0	MBSR	E	v.beam&sidescan r-03	GDC	52-47.25S	75-17.32W	g	GENE02RR

**** Echo Sounder Records ****

1530	120197	0	DPR3	B	3.5 khz PDR r-01	GDC	5-52.93S	84-32.50W	g	GENE02RR
2200	180197	0	DPR3	E	3.5 khz PDR r-01	GDC	14-12.95S	97-08.65W	g	GENE02RR
0047	190197	0	DPR3	B	3.5 khz PDR r-02	GDC	14-36.65S	97-21.19W	g	GENE02RR
2334	210197	0	DPR3	E	3.5 khz PDR r-02	GDC	16-40.09S	104-03.01W	g	GENE02RR

#GMT	DDMMYY	SAMP	B	SAMPLE	DISP	LATITUDE	LONGITUDE	p	CRUISE
#TIME	DATE	TZ	CODE	E IDENTIFIER	CODE			c	LEG-SHIP
*** Seismic Reflection Records ***									
1757	080297	0	SPRF	B Watergun (2sec)	r-01 GDC	55-18.96S	94-42.48W	g	GENE02RR
0200	090297	0	SPRF	E Watergun (2sec)	r-01 GDC	55-04.17S	95-33.19W	g	GENE02RR
1757	080297	0	SPRS	B Watergun (4sec)	r-01 GDC	55-18.96S	94-42.48W	g	GENE02RR
0200	090297	0	SPRF	E Watergun (2sec)	r-01 GDC	55-04.17S	95-33.19W	g	GENE02RR
*** Magnetics - Earth Total Field ***									
1800	120197	0	MGRA	B Digital magnetics	GDC	6-02.89S	84-57.06W	g	GENE02RR
1401	180297	0	MGRA	E Digital magnetics	GDC	52-55.65S	75-37.49W	g	GENE02RR
*** Magnetics - Surface ***									
2300	110197	0	MGXX	B Surface magnetics	GDC	4-33.78S	81-17.38W	g	GENE02RR
1401	180297	0	MGXX	E data set	GDC	52-55.65S	75-37.49W	g	GENE02RR
*** Expendable Bathythermographs ***									
1543	060197	0	BTXP	MK-12 XBT # 17	GDC	4-33.84S	81-17.62W	g	GENE02RR
1300	120197	0	BTXP	MK-12 XBT # 18	GDC	5-39.65S	83-59.72W	g	GENE02RR
1942	130197	0	BTXP	MK-12 XBT # 20	GDC	8-04.44S	90-00.43W	g	GENE02RR
1703	140197	0	BTXP	MK-12 XBT # 21	GDC	9-39.72S	94-09.59W	g	GENE02RR
1806	150197	0	BTXP	MK-12 XBT # 22	GDC	12-37.19S	95-56.78W	g	GENE02RR
1810	160197	0	BTXP	MK-12 XBT # 23	GDC	13-24.46S	96-39.18W	g	GENE02RR
1801	170197	0	BTXP	MK-12 XBT # 24	GDC	13-44.01S	96-24.89W	g	GENE02RR
1759	180197	0	BTXP	MK-12 XBT # 25	GDC	14-17.91S	96-18.00W	g	GENE02RR
1814	190197	0	BTXP	MK-12 XBT # 26	GDC	15-47.46S	99-42.48W	g	GENE02RR
1816	200197	0	BTXP	MK-12 XBT # 27	GDC	16-35.90S	101-48.72W	g	GENE02RR
1824	200197	0	BTXP	MK-12 XBT # 28	GDC	16-34.26S	101-48.91W	g	GENE02RR
1802	210197	0	BTXP	MK-12 XBT # 29	GDC	16-16.32S	103-03.60W	g	GENE02RR
1811	230197	0	BTXP	MK-12 XBT # 30	GDC	21-17.25S	104-05.09W	g	GENE02RR
0058	250197	0	BTXP	MK-12 XBT # 31	GDC	27-28.49S	102-40.45W	g	GENE02RR
1813	260197	0	BTXP	MK-12 XBT # 32	GDC	35-40.70S	100-36.26W	g	GENE02RR
1755	270197	0	BTXP	MK-12 XBT # 33	GDC	39-34.28S	98-10.68W	g	GENE02RR
1804	280197	0	BTXP	MK-12 XBT # 34	GDC	41-37.34S	98-29.66W	g	GENE02RR
1817	290197	0	BTXP	MK-12 XBT # 35	GDC	40-59.94S	101-27.20W	g	GENE02RR
1839	300197	0	BTXP	MK-12 XBT # 36	GDC	41-57.00S	102-10.20W	g	GENE02RR
1800	310197	0	BTXP	MK-12 XBT # 37	GDC	42-27.17S	98-42.91W	g	GENE02RR
1803	010297	0	BTXP	MK-12 XBT # 38	GDC	43-55.62S	97-41.48W	g	GENE02RR
1823	020297	0	BTXP	MK-12 XBT # 39	GDC	46-38.11S	96-52.06W	g	GENE02RR
1804	030297	0	BTXP	MK-12 XBT # 40	GDC	49-26.43S	93-44.94W	g	GENE02RR
1807	040297	0	BTXP	MK-12 XBT # 41	GDC	53-29.65S	92-50.33W	g	GENE02RR
1805	050297	0	BTXP	MK-12 XBT # 42	GDC	56-34.31S	94-54.45W	g	GENE02RR
1806	060297	0	BTXP	MK-12 XBT # 43	GDC	59-18.73S	91-22.63W	g	GENE02RR
1657	070297	0	BTXP	MK-12 XBT # 44	GDC	57-19.38S	95-20.99W	g	GENE02RR
1800	070297	0	BTXP	MK-12 XBT # 45	GDC	57-15.98S	95-35.47W	g	GENE02RR
1828	070297	0	BTXP	MK-12 XBT # 46	GDC	57-11.62S	95-30.10W	g	GENE02RR
1524	080297	0	BTXP	MK-12 XBT # 47	GDC	55-32.67S	95-28.54W	g	GENE02RR
1701	090297	0	BTXP	MK-12 XBT # 48	GDC	54-23.68S	95-26.36W	g	GENE02RR
1755	100297	0	BTXP	MK-12 XBT # 49	GDC	52-42.99S	96-25.31W	g	GENE02RR
1657	110297	0	BTXP	MK-12 XBT # 50	GDC	53-51.83S	94-49.70W	g	GENE02RR
1936	120297	0	BTXP	MK-12 XBT # 51	GDC	53-24.95S	93-28.28W	g	GENE02RR
1926	130297	0	BTXP	MK-12 XBT # 52	GDC	54-34.57S	93-09.44W	g	GENE02RR
1951	140297	0	BTXP	MK-12 XBT # 53	GDC	55-45.39S	90-38.86W	g	GENE02RR
1608	150297	0	BTXP	MK-12 XBT # 54	GDC	57-29.62S	91-56.76W	g	GENE02RR
1646	160297	0	BTXP	MK-12 XBT # 55	GDC	58-20.53S	87-01.63W	g	GENE02RR
1500	170297	0	BTXP	MK-12 XBT # 56	GDC	55-58.46S	81-55.06W	g	GENE02RR

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End Sample Index

GENE02MV