

Report and Index of
Underway Marine Geophysical Data

SOJOURN EXPEDITION

LEG 1

(SOJN01MV)

R/V MELVILLE

(Issued November 1996)

Ports:

San Diego, California (8 September 1996)
to
Papeete, Tahiti (21 October 1996)

Chief Scientist:

Daniel Scheirer, Brown University

Resident Marine Technician - Ron Comer

Computer Technician - Ron Moe

Seabeam/UW Processor - Andrew Goodwillie

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 ID.# 269

**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.

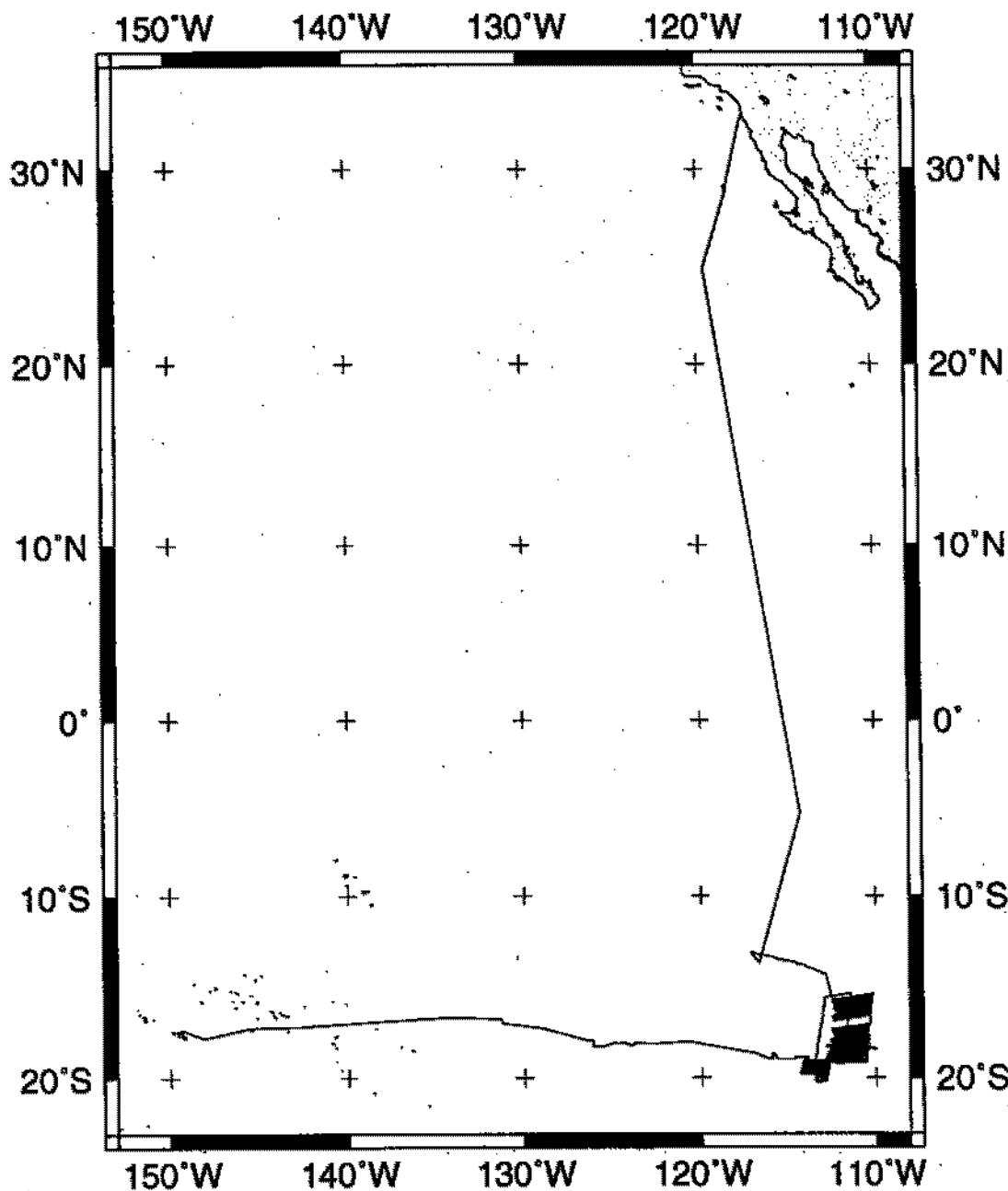
3. Navigation listing with times and positions of fixes and course and speed changes.

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



SOJOURN EXPEDITION LEG 1

CHIEF SCIENTIST: Daniel Scheirer, Brown University

PORTS: San Diego, Calif. - Papeete, Tahiti

DATES: 8 September - 21 October 1996

SHIP: R/V Melville

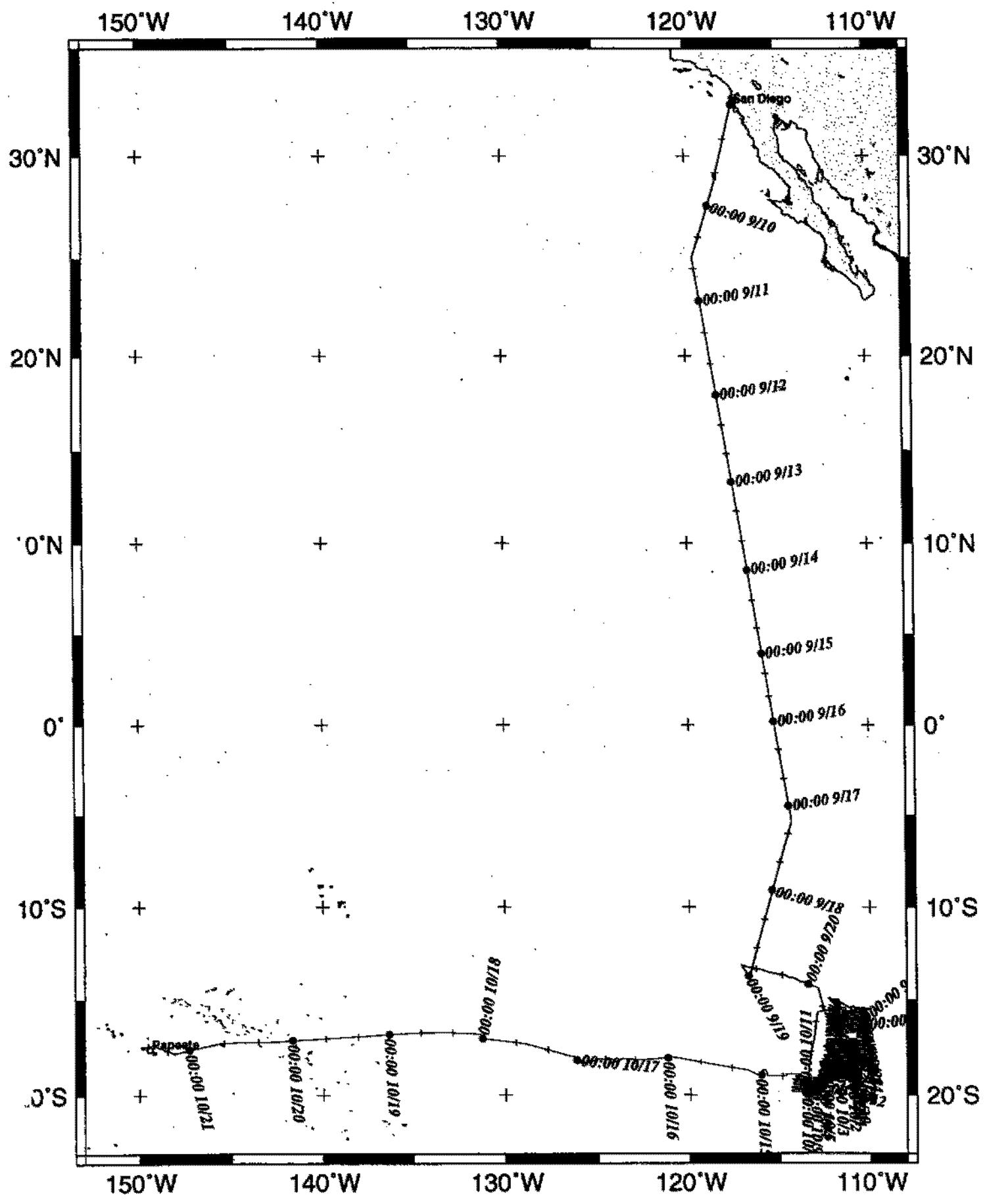
TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

Cruise - 11613 miles Magnetics - 11150 miles

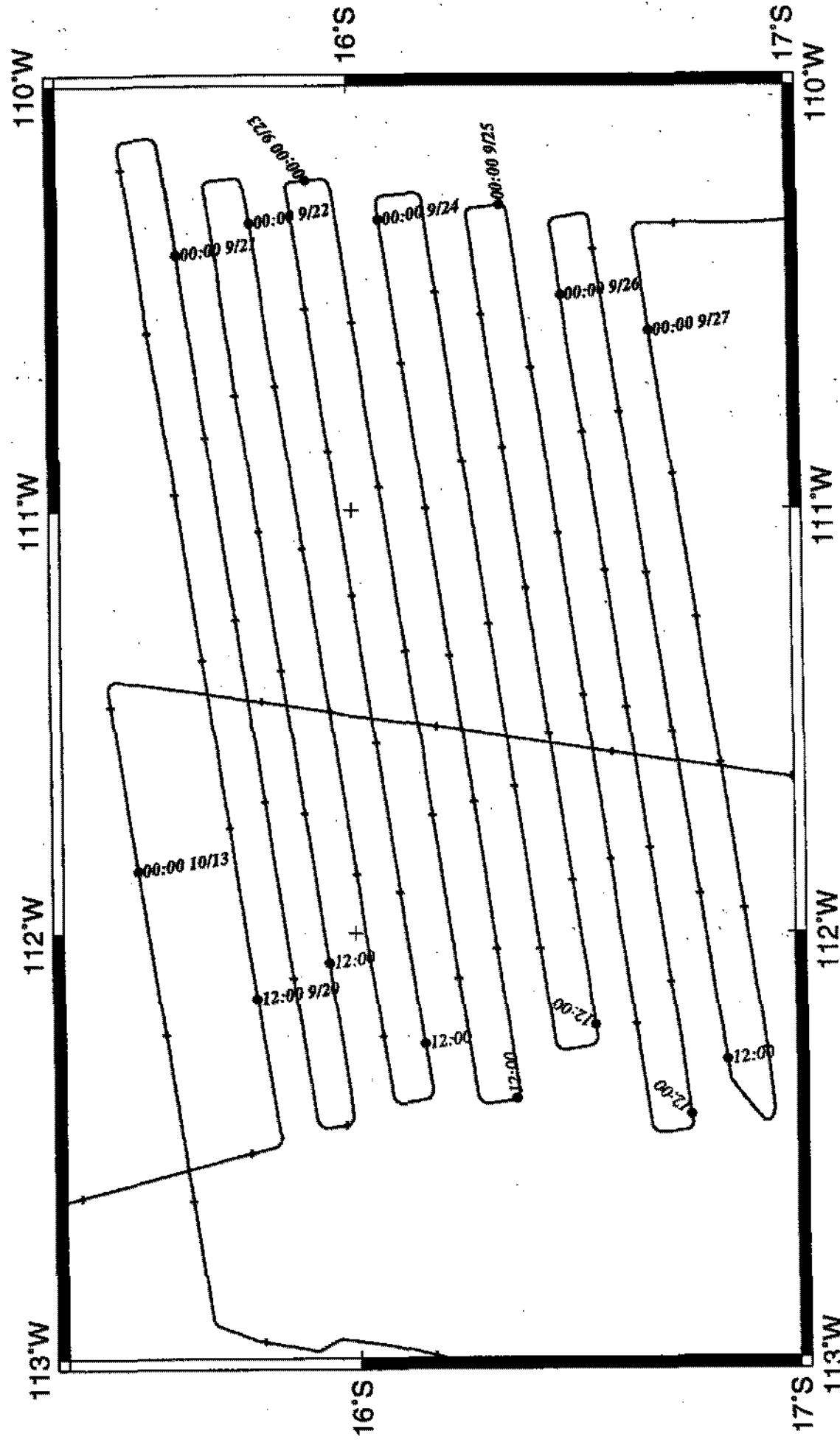
Bathymetry - 11173 miles Seismic Reflection - none collected

Sea Beam - 11173 miles Gravity - 11413 miles

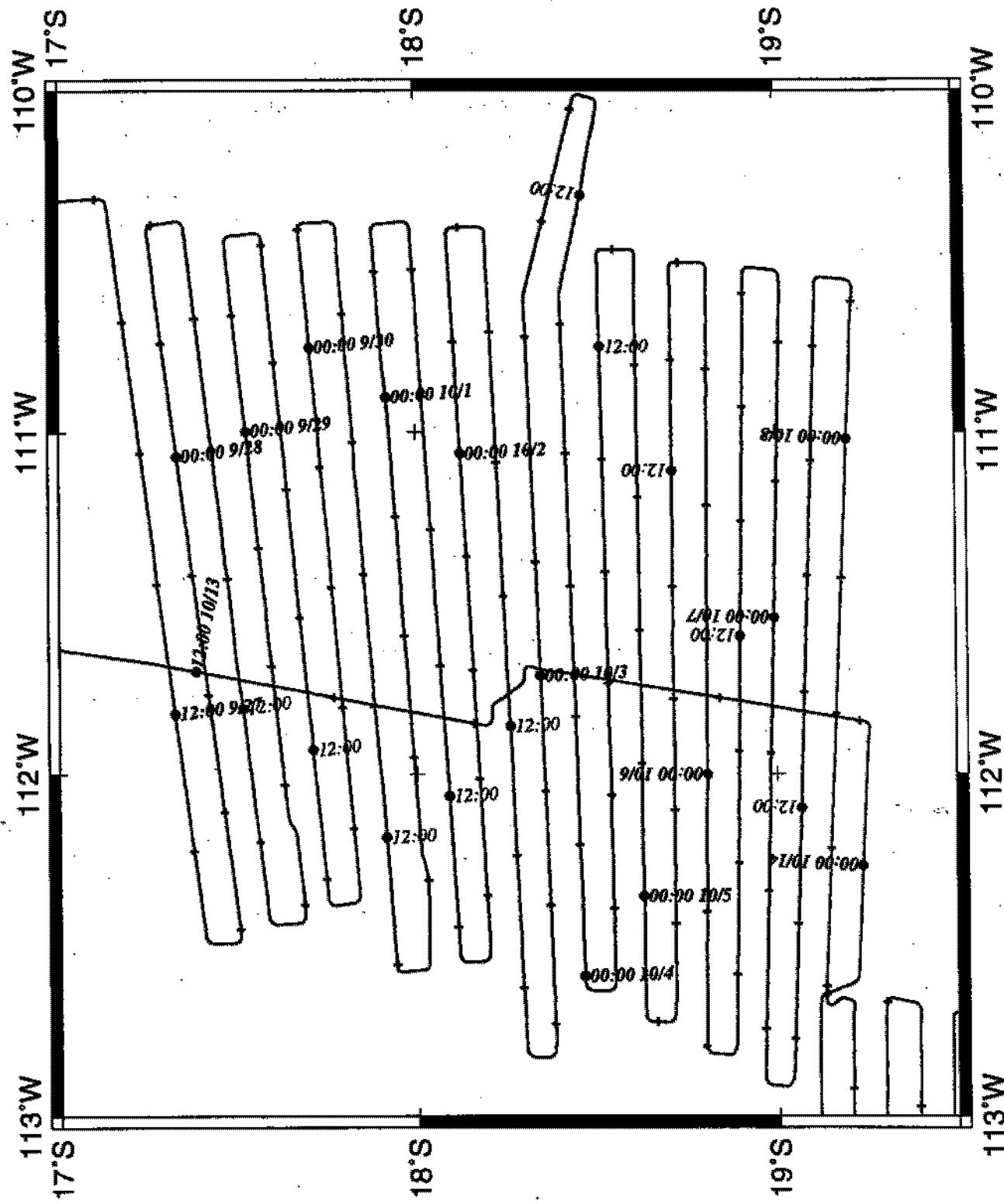
R/V Melville Sojourn Expedition Leg 01



SOJN01MV Survey A

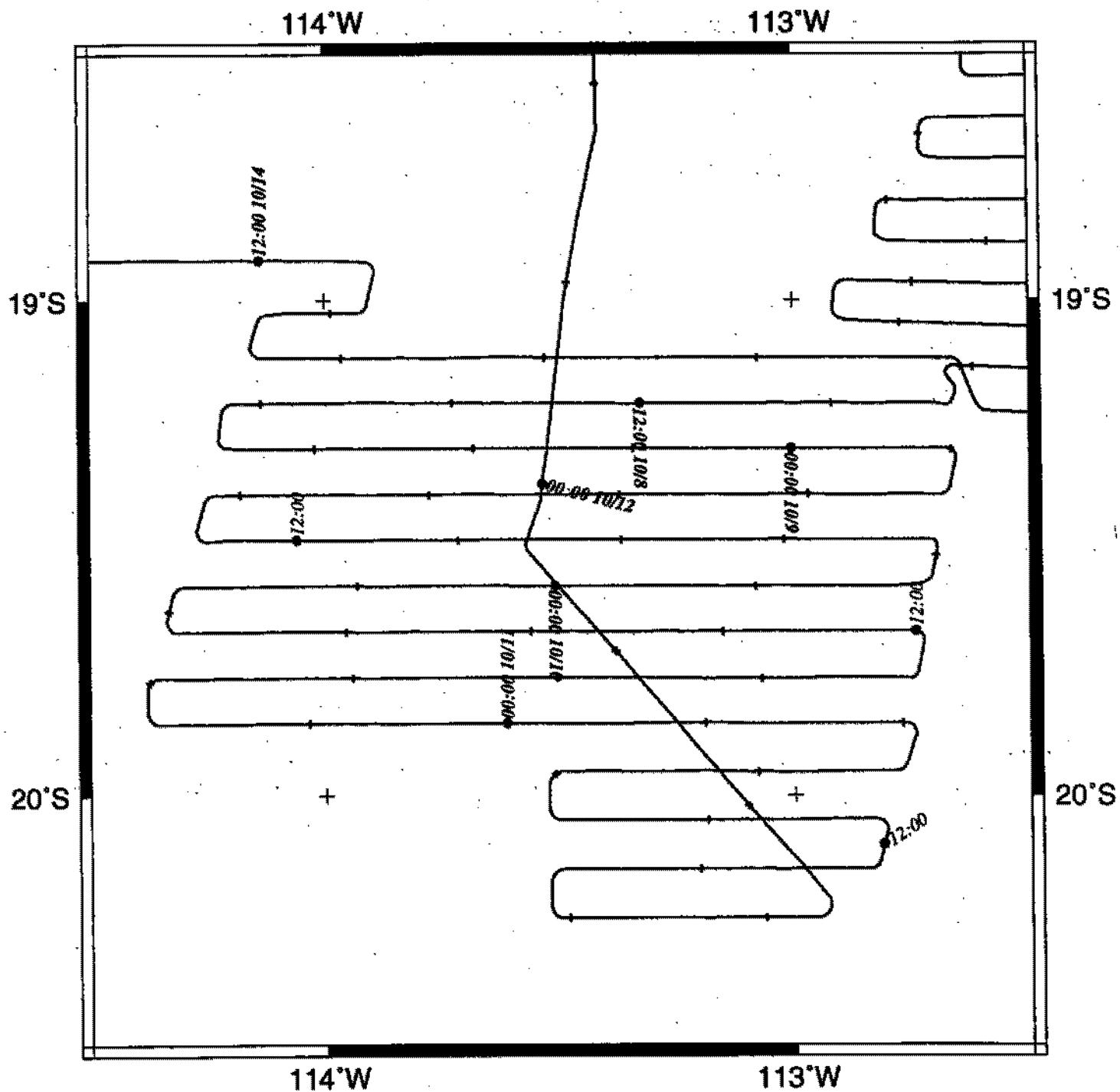


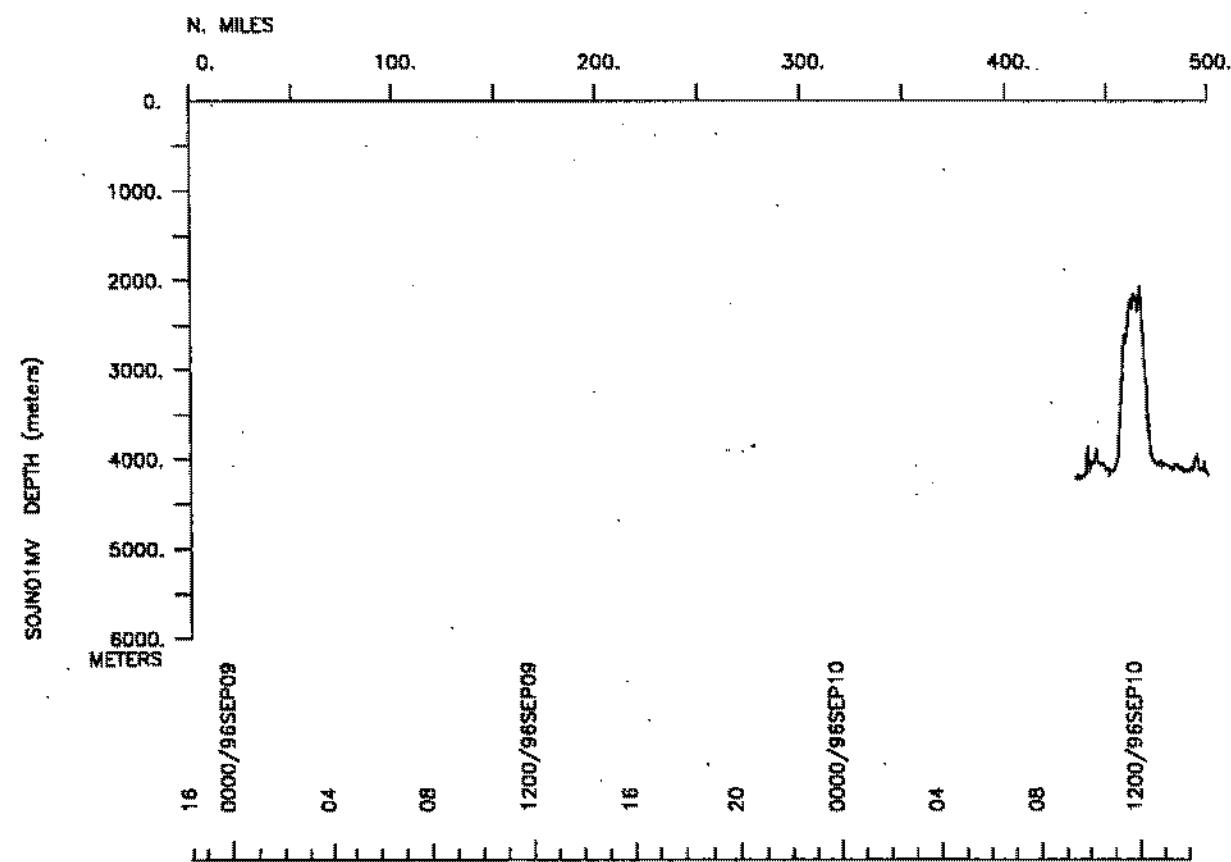
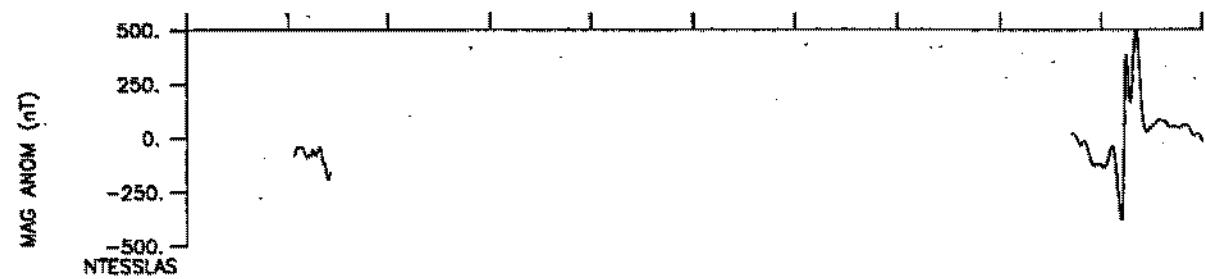
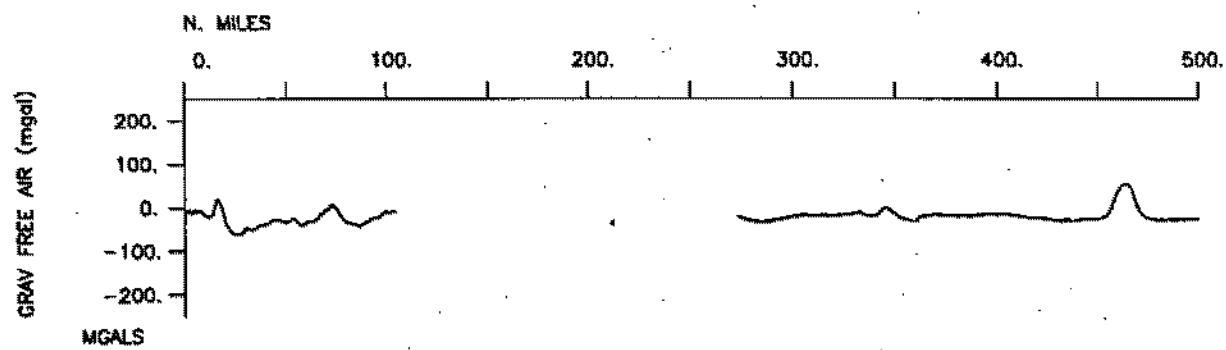
SOU NO 1 M v Survey B

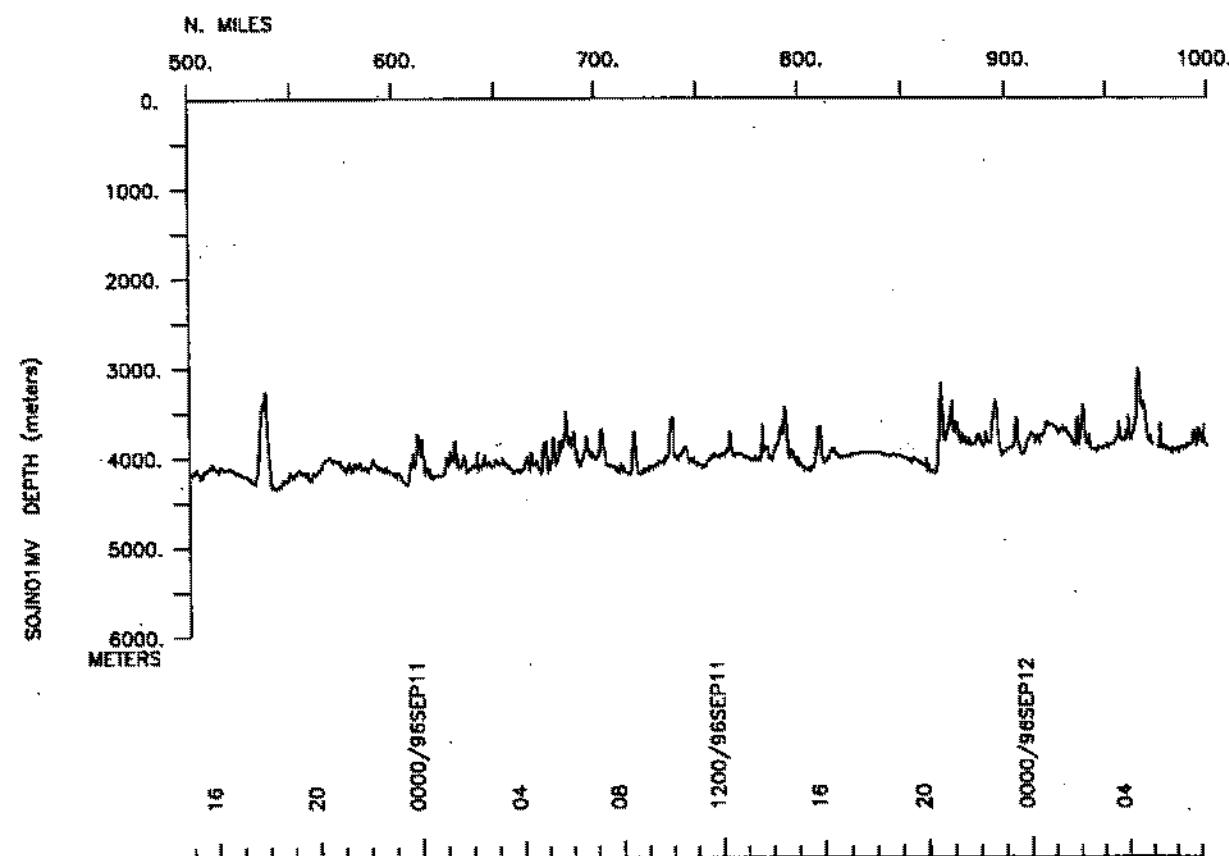
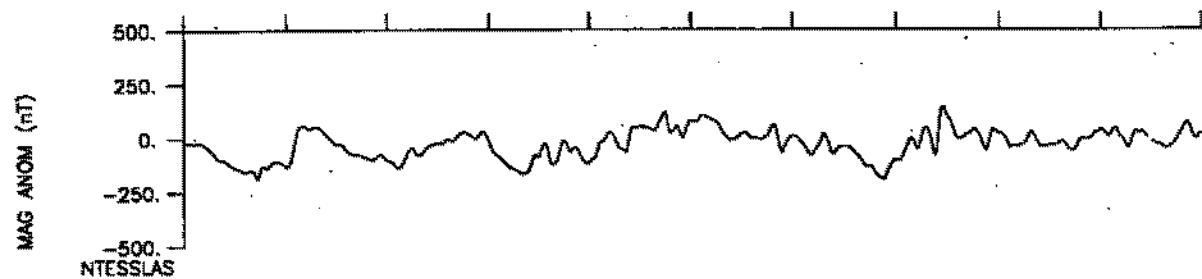
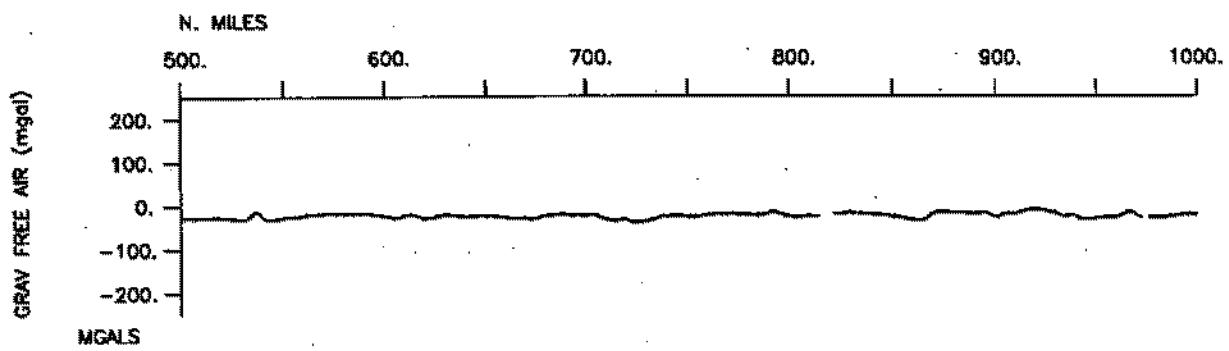


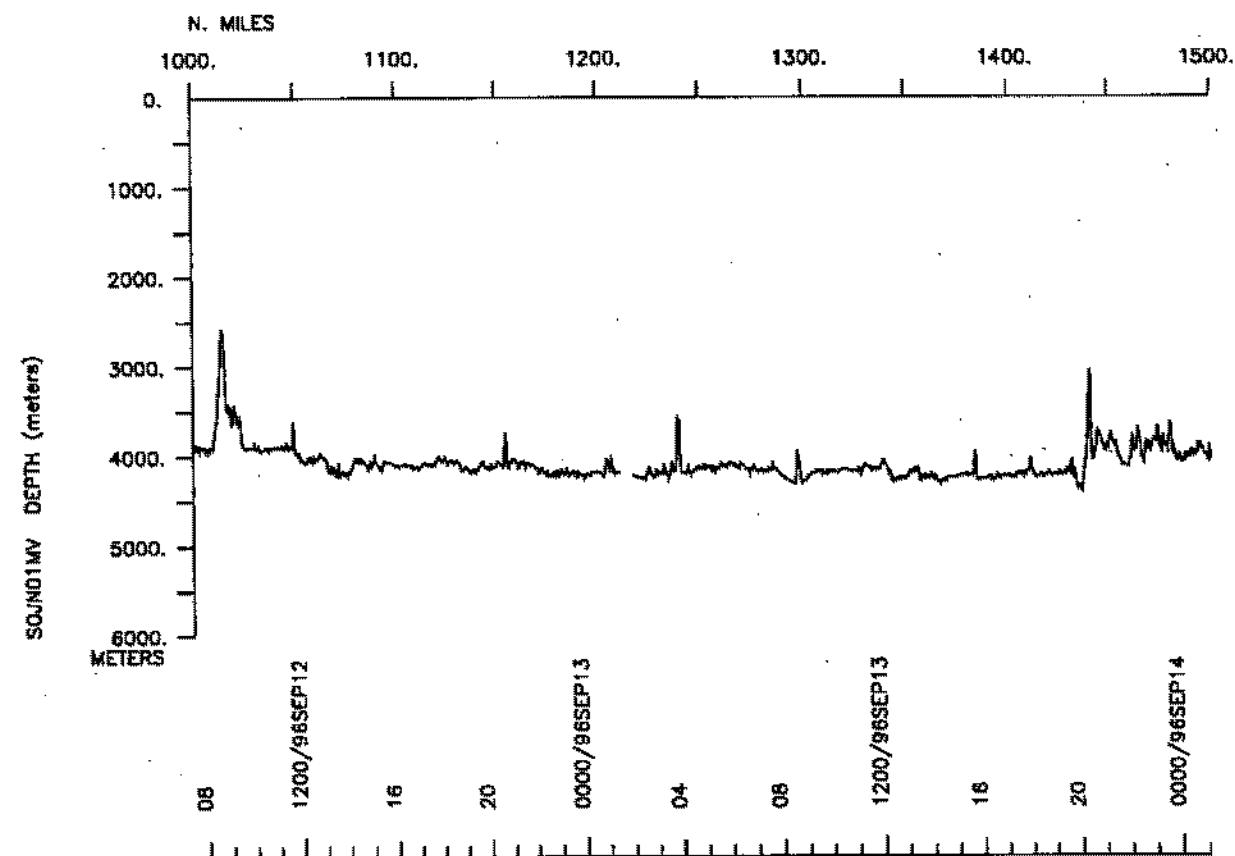
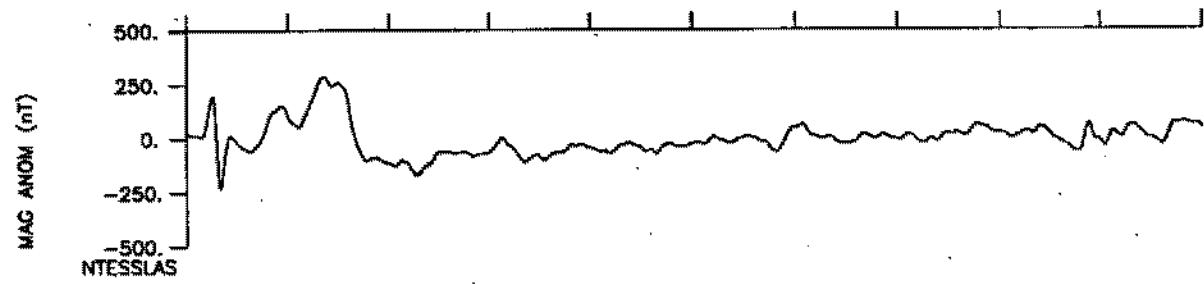
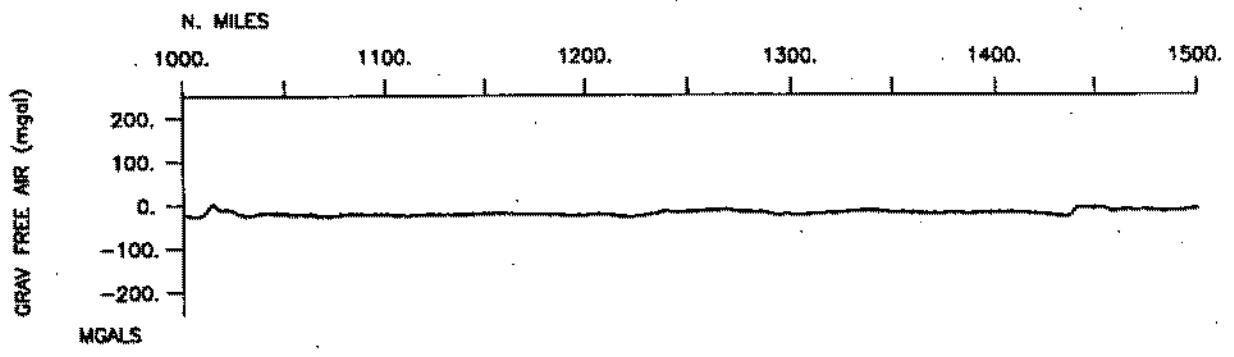
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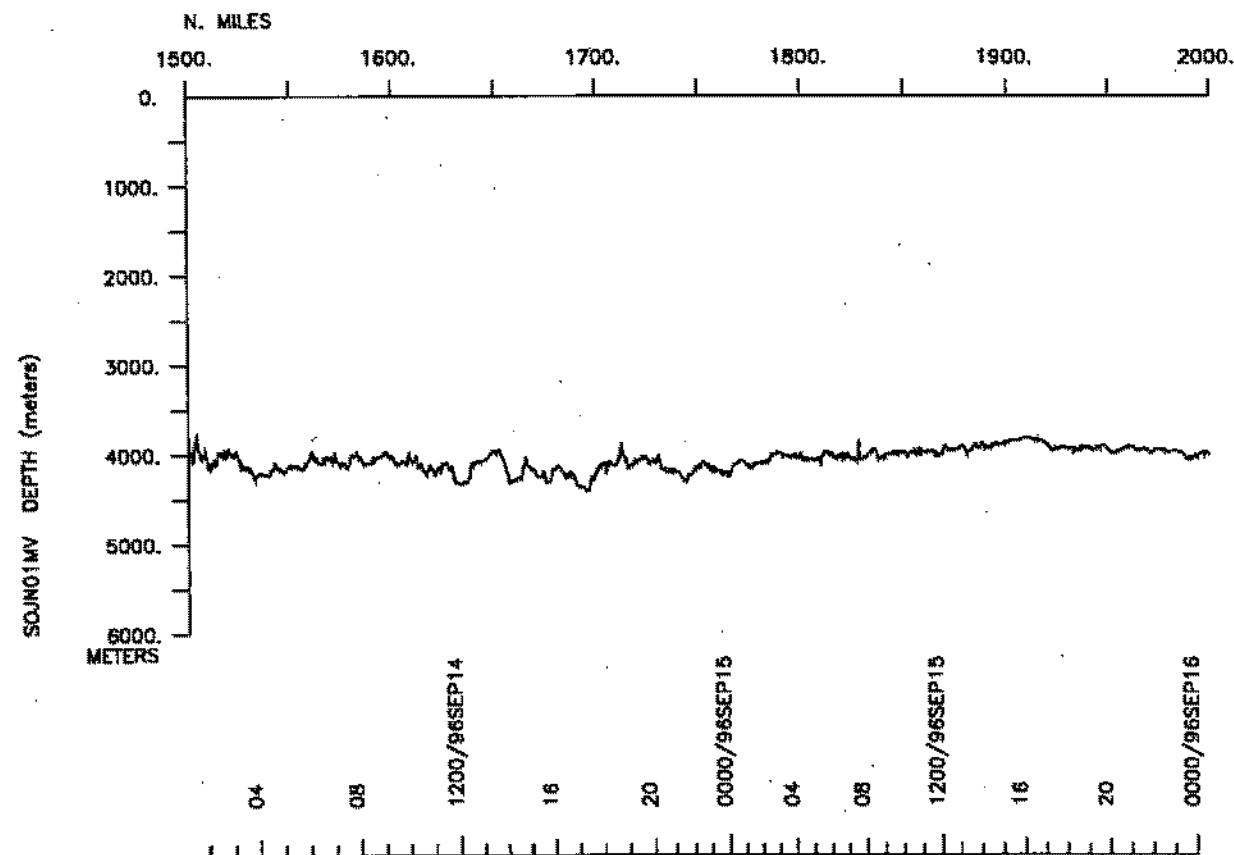
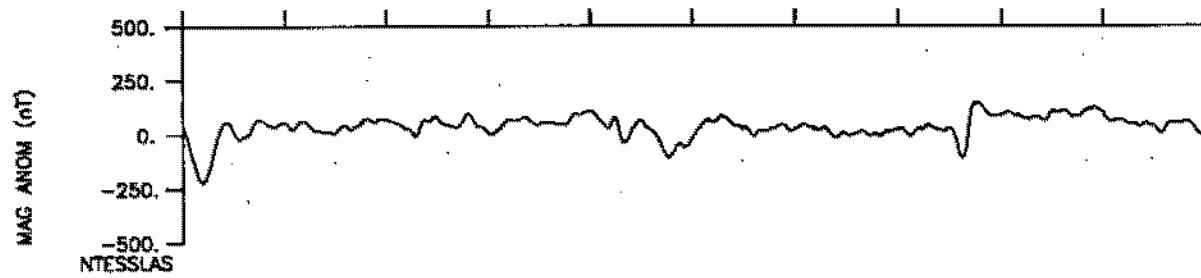
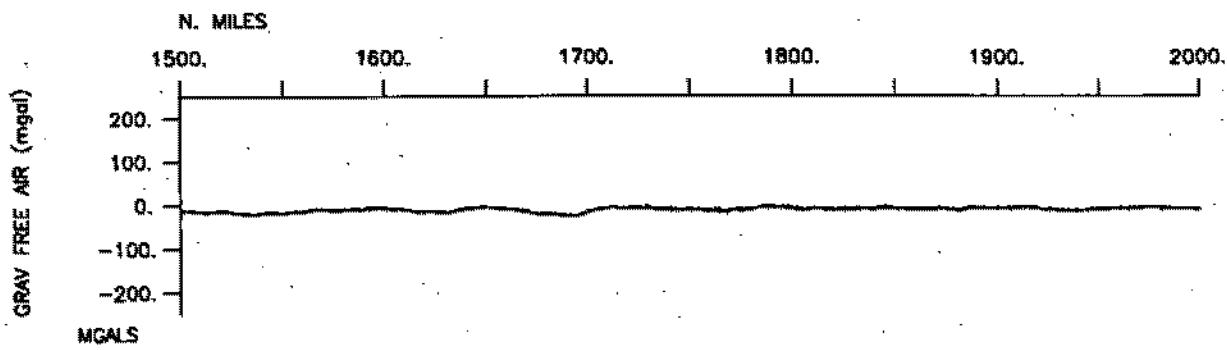
SOJN01MV Survey C

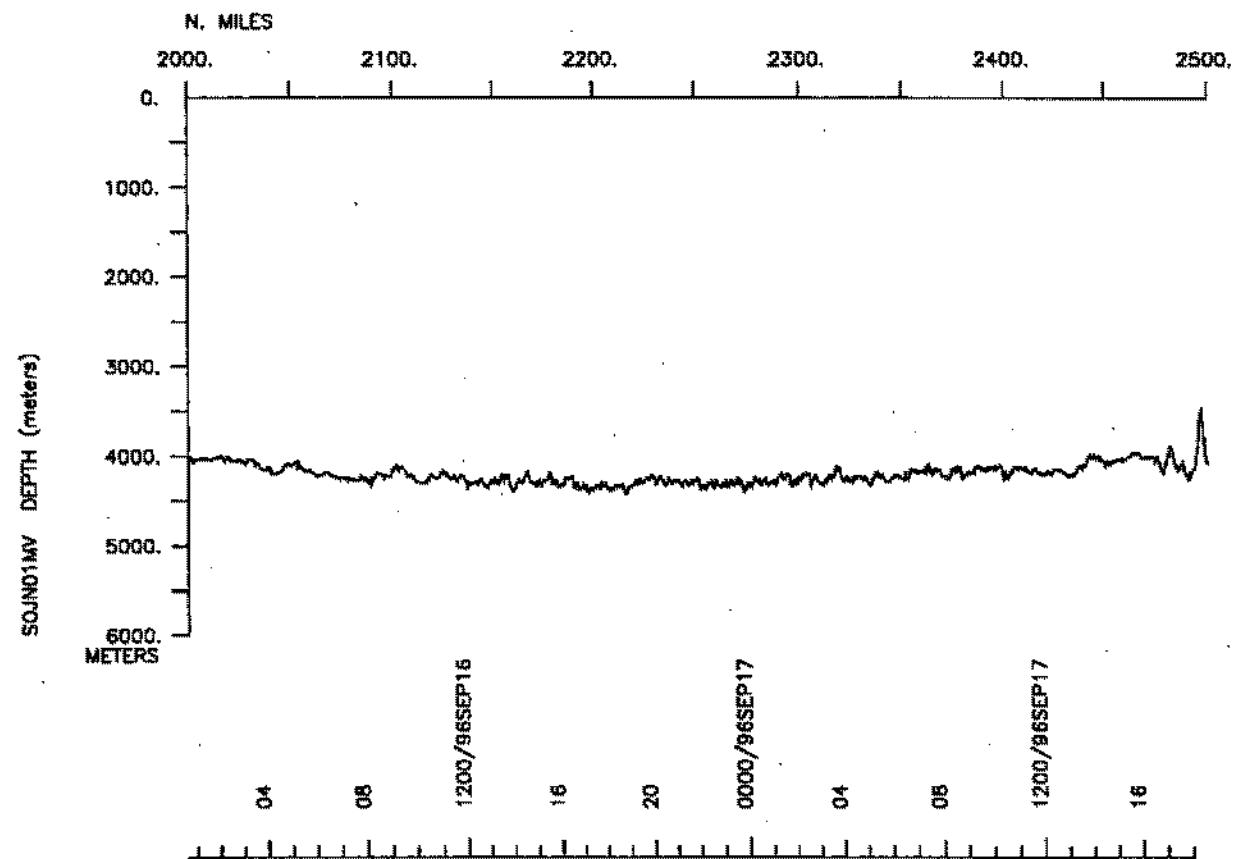
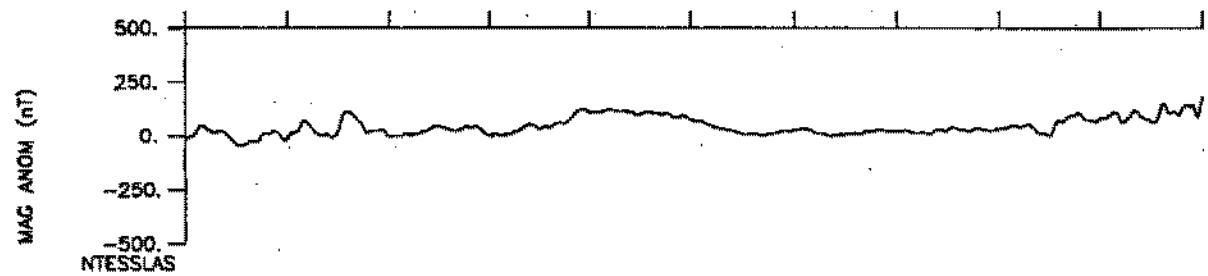
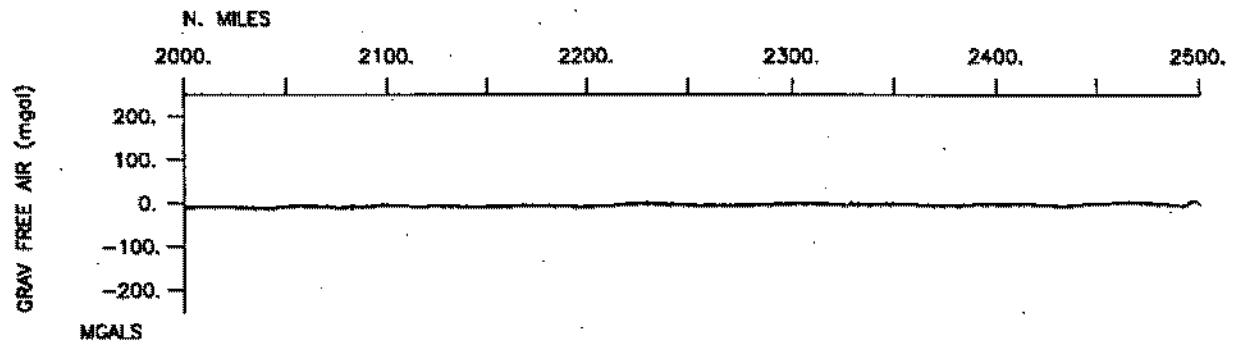


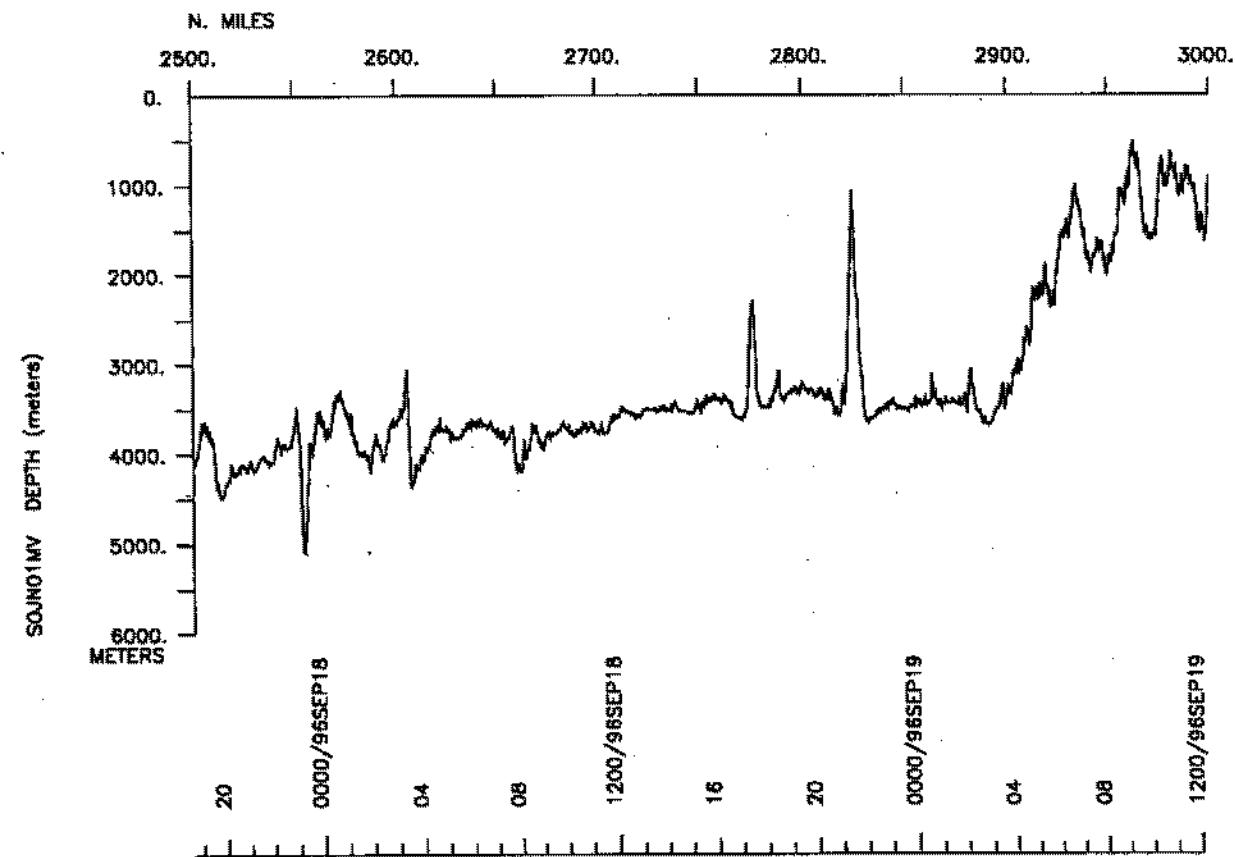
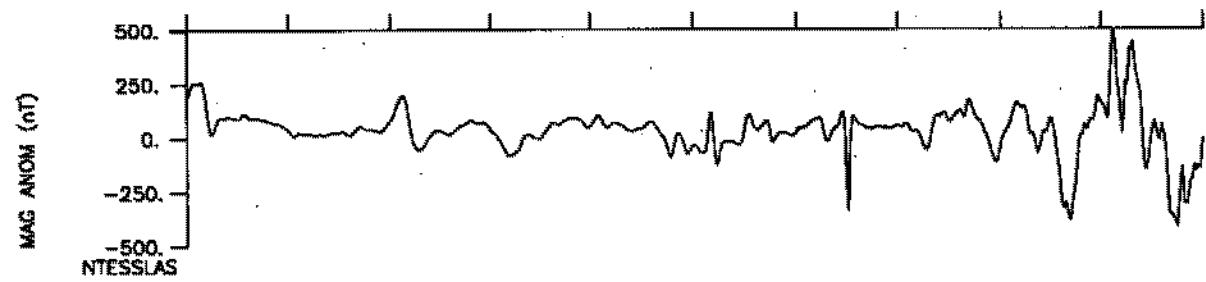
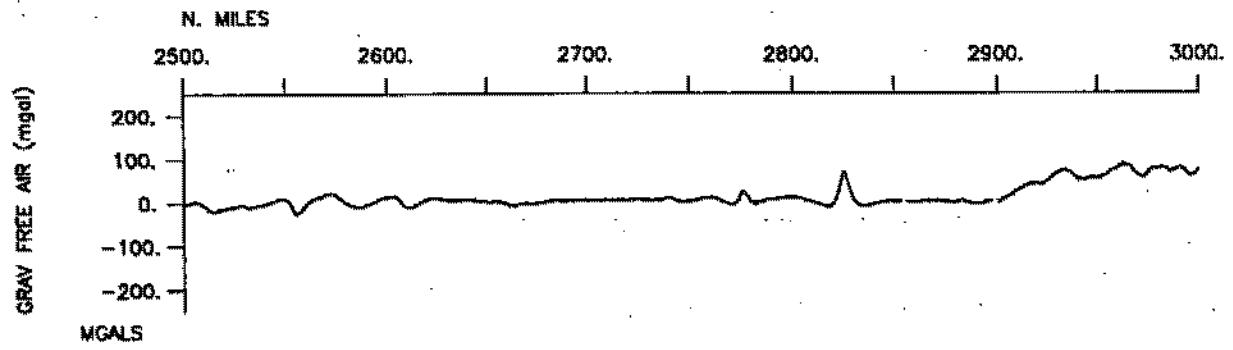


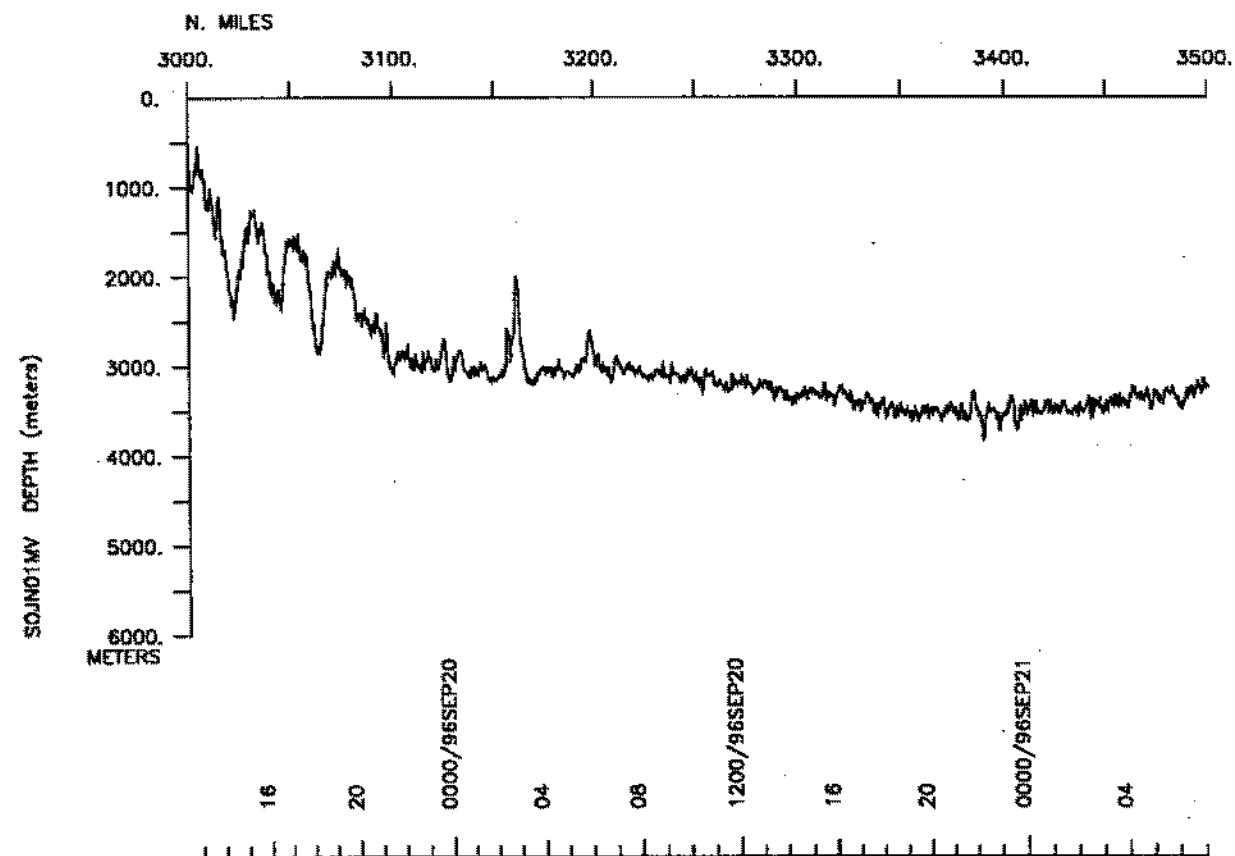
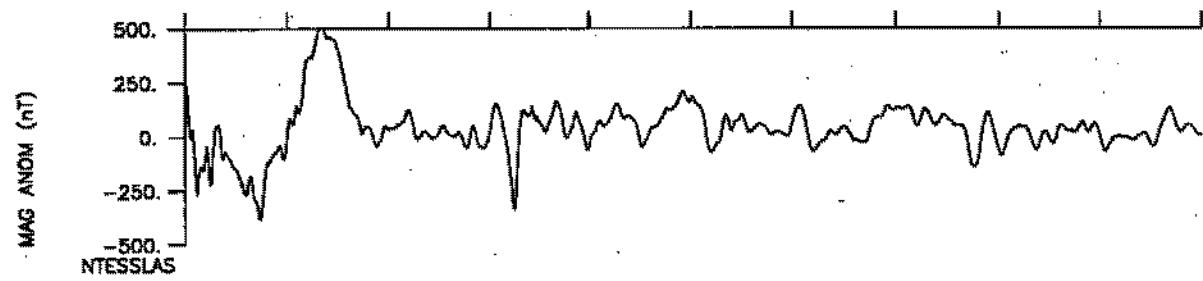
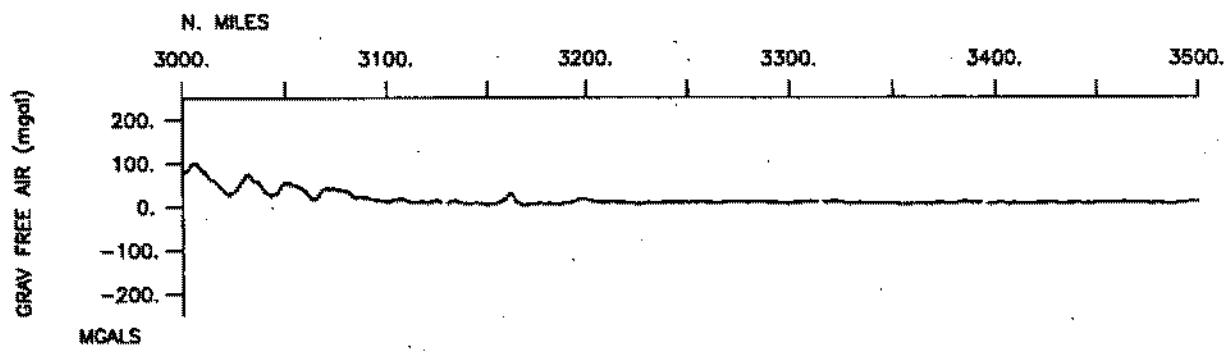


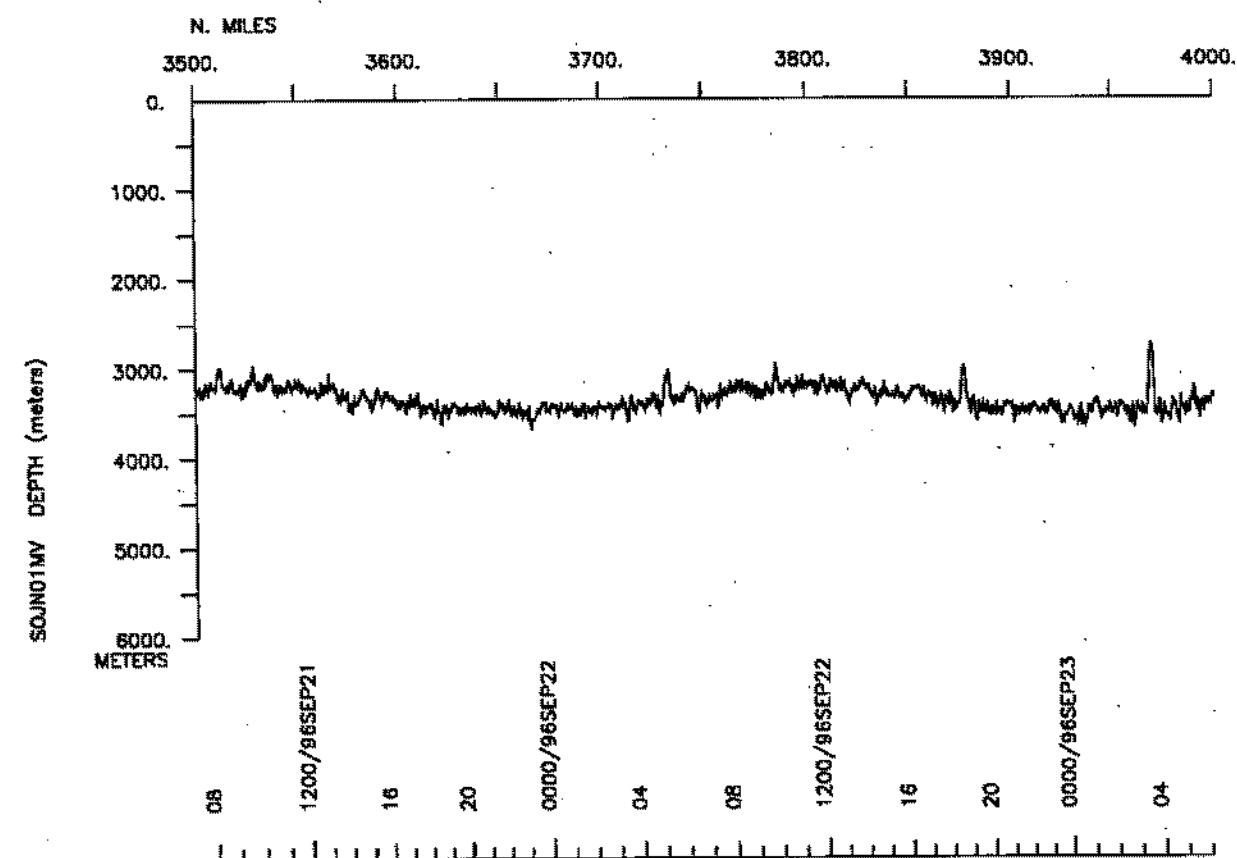
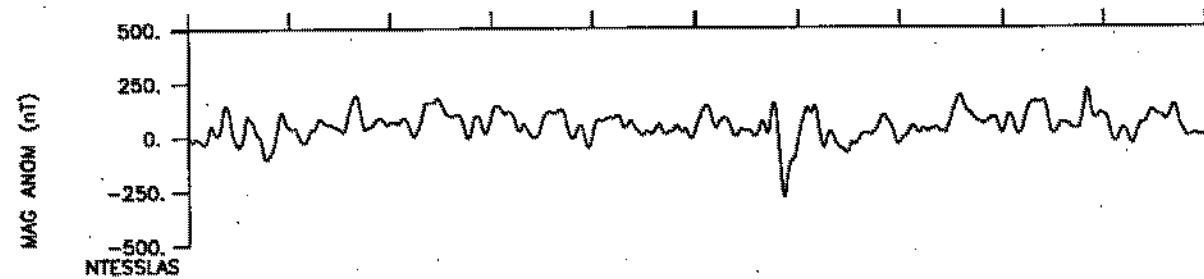
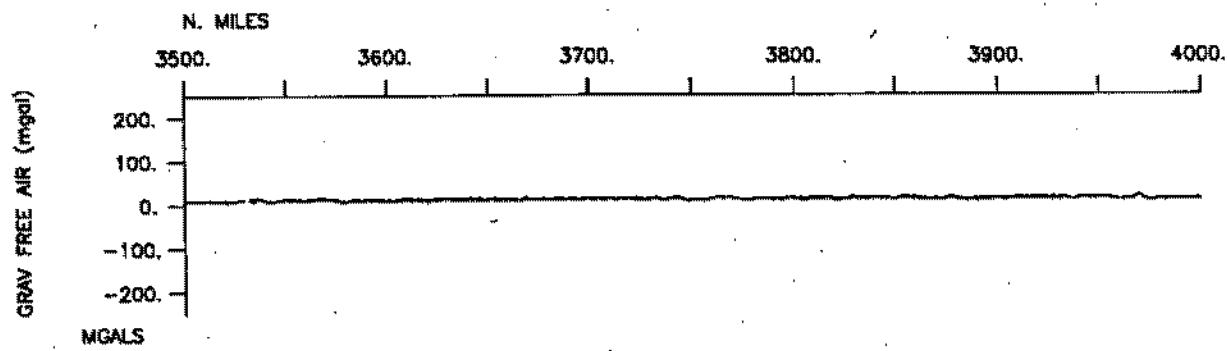


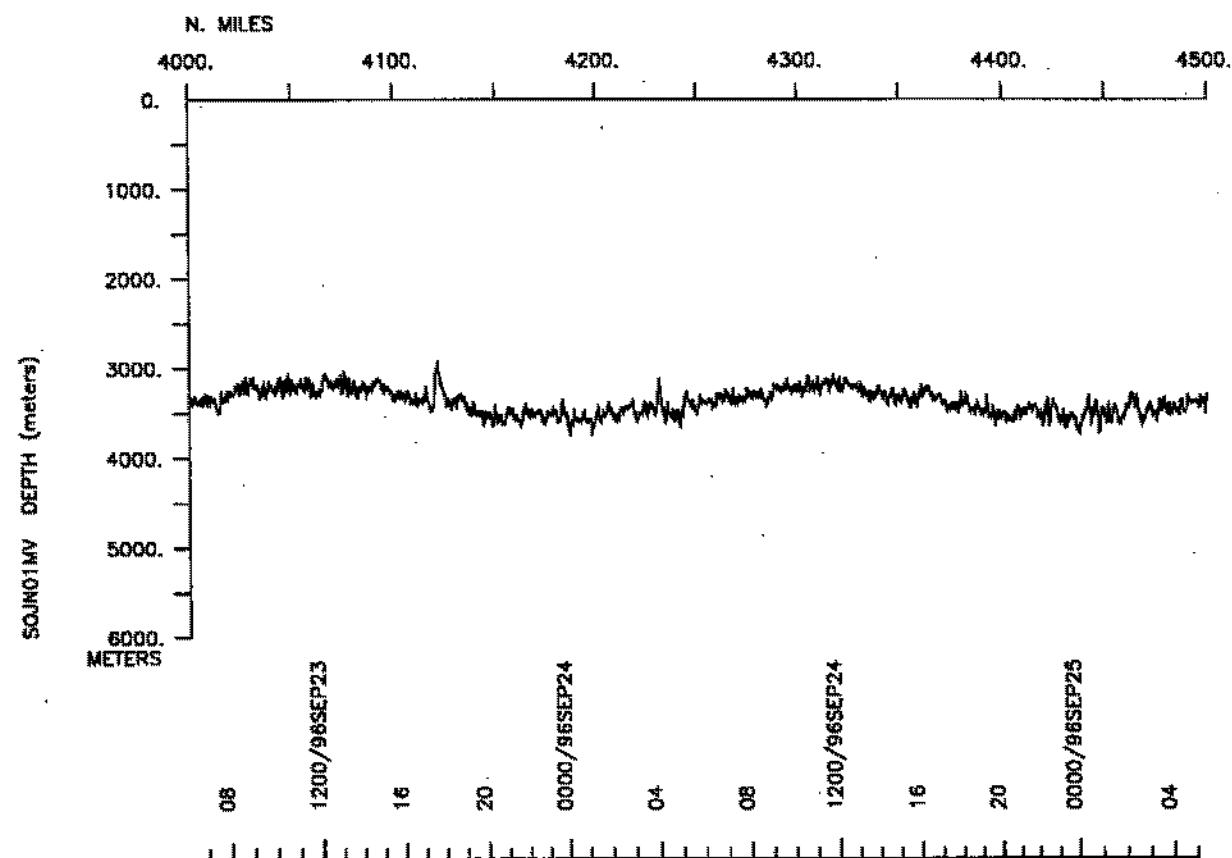
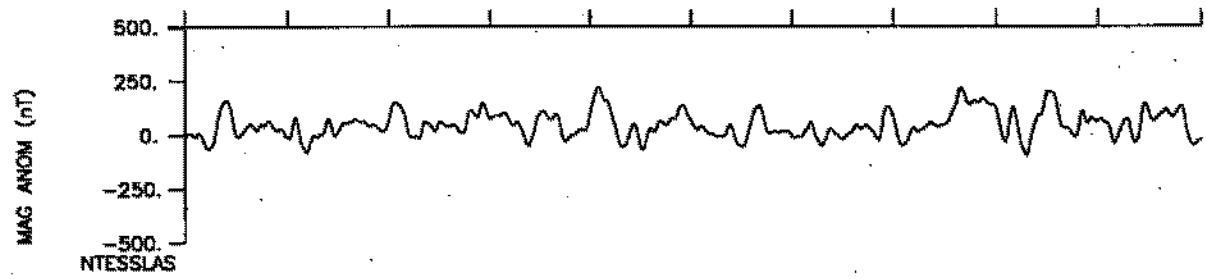
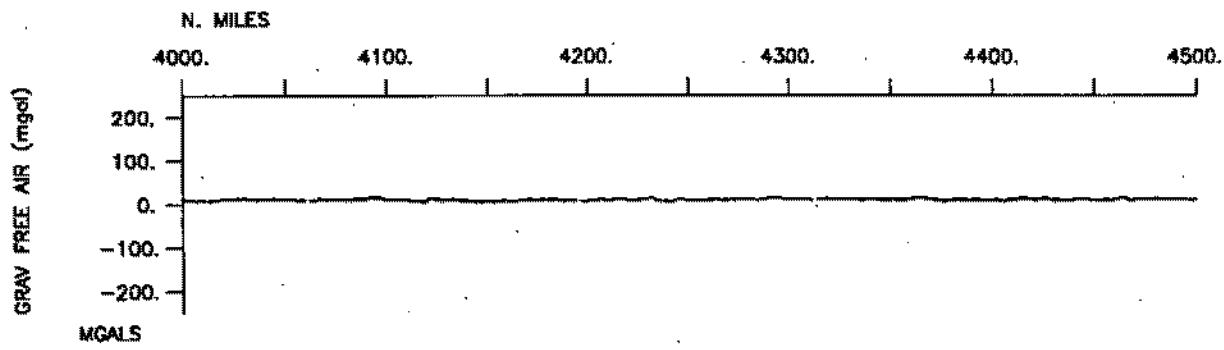


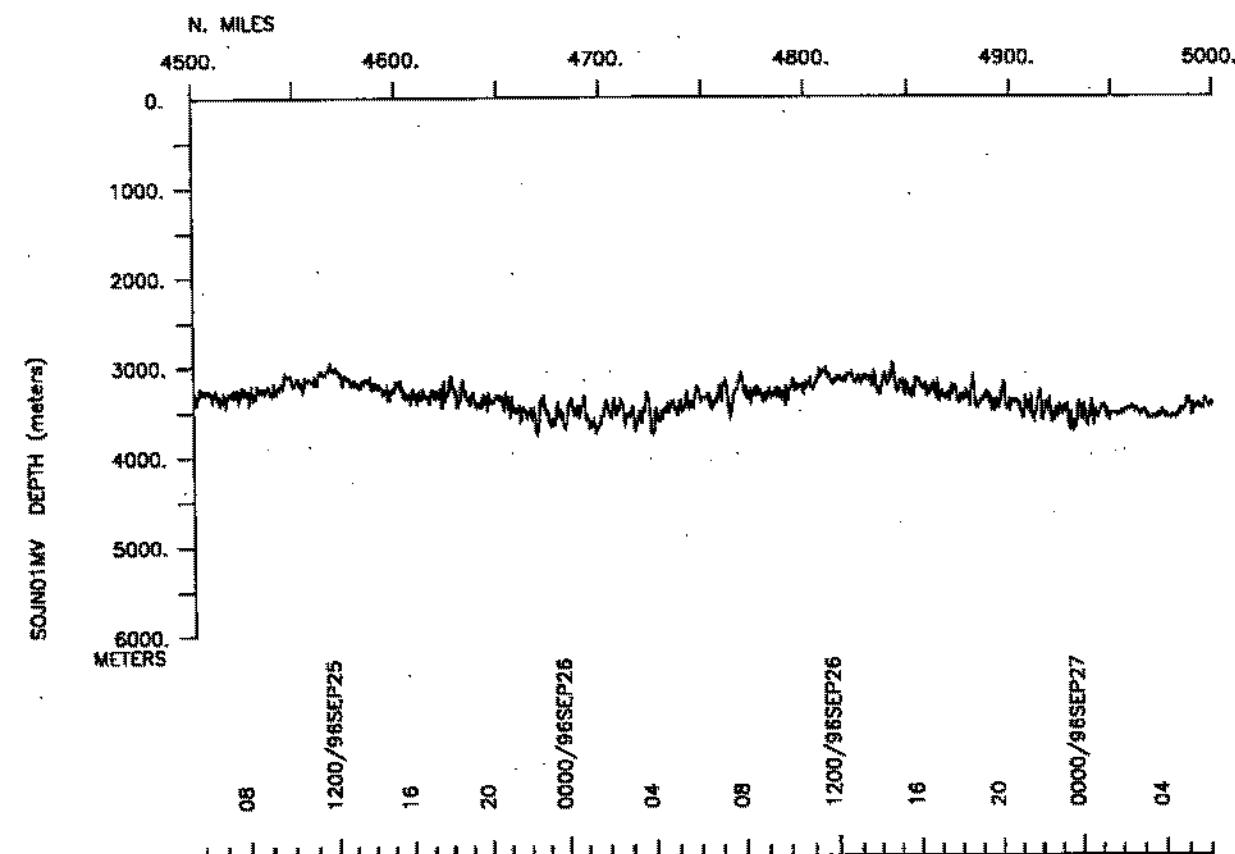
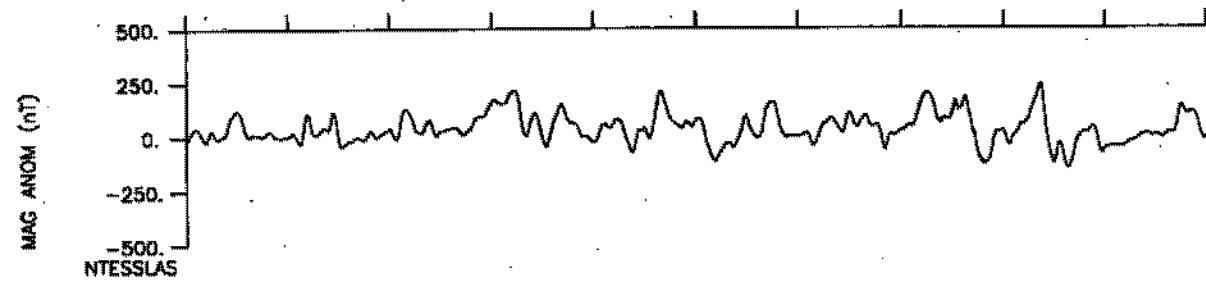
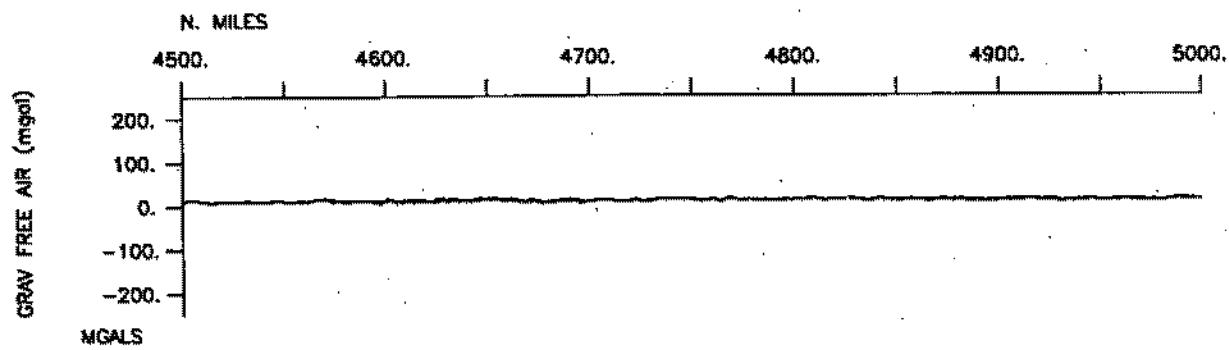


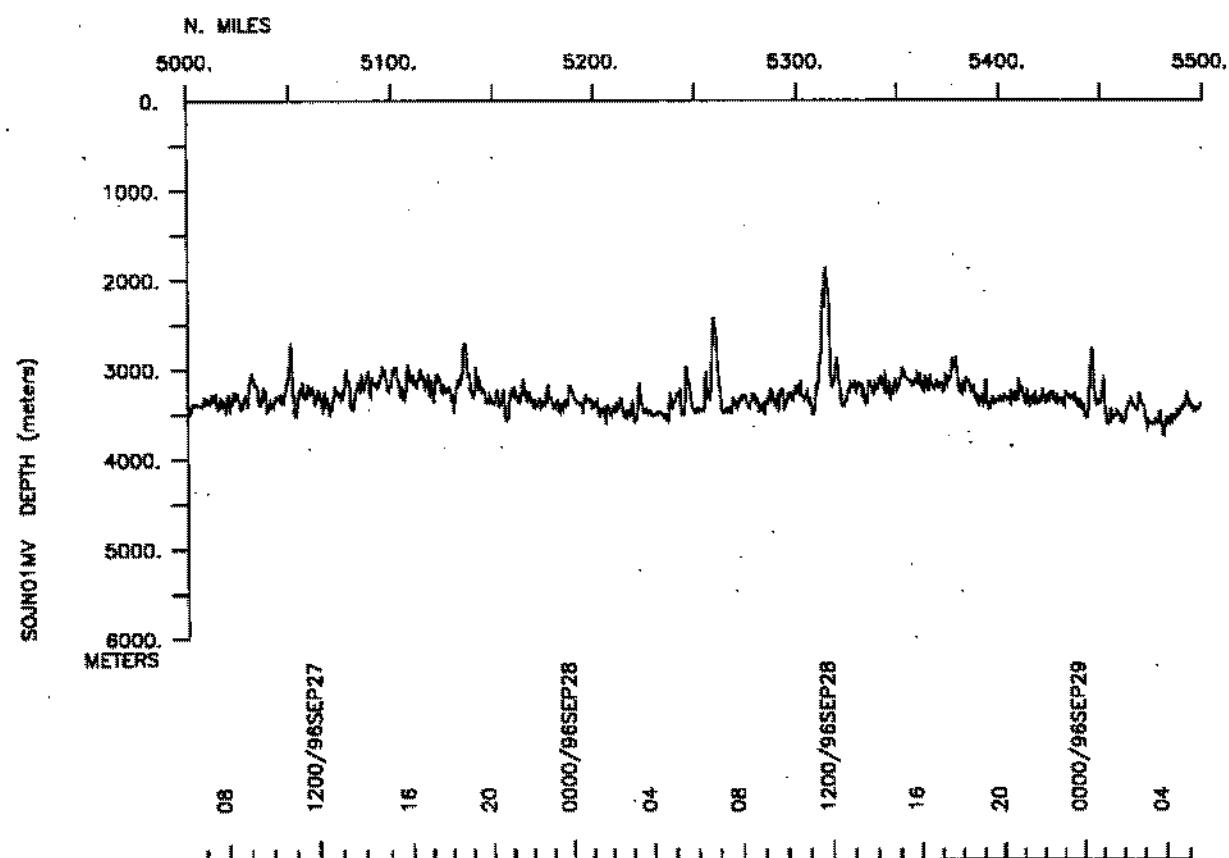
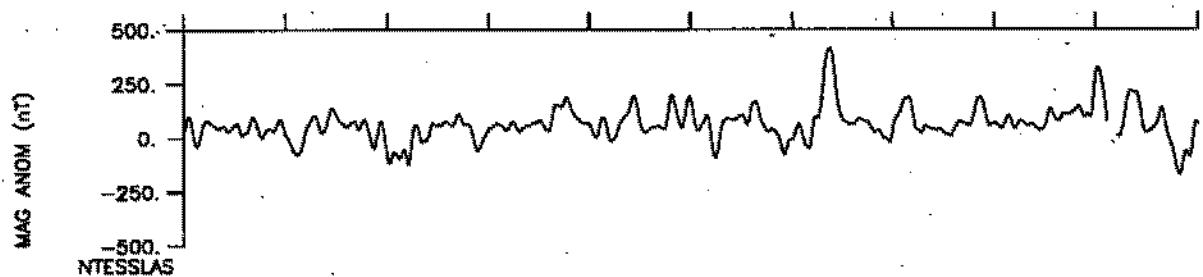
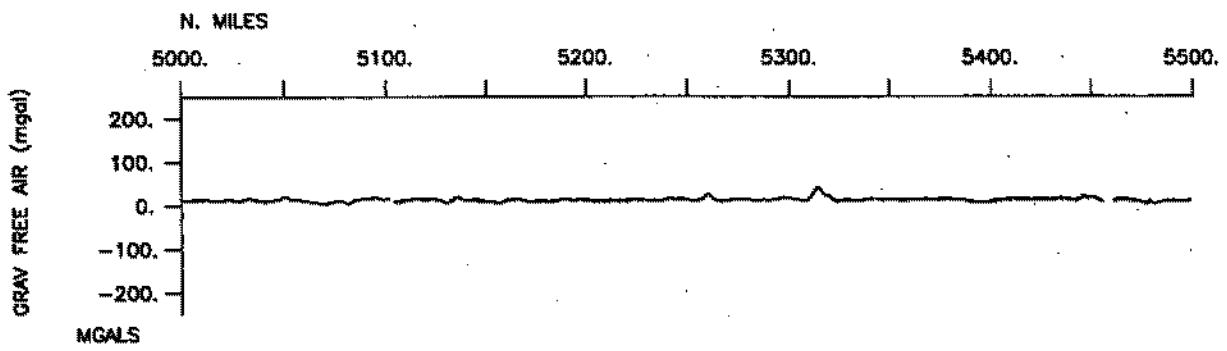


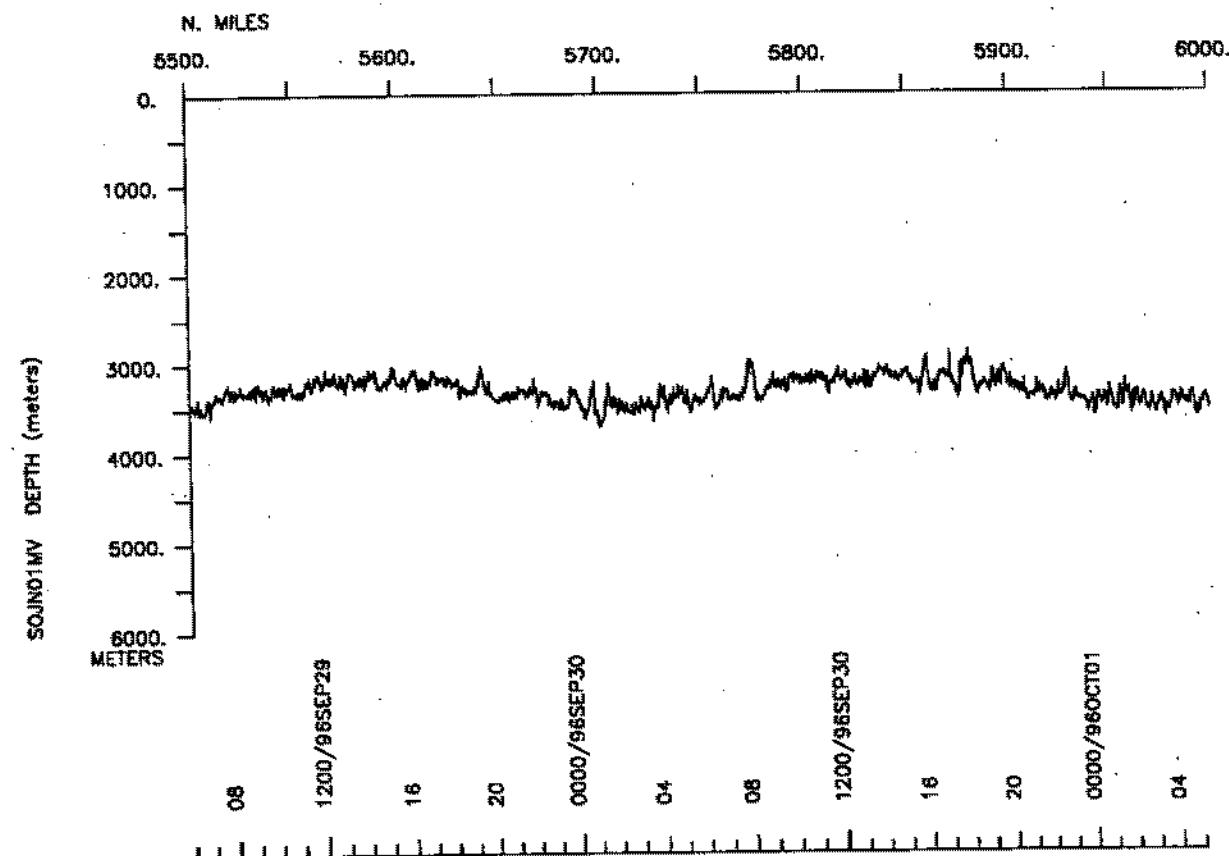
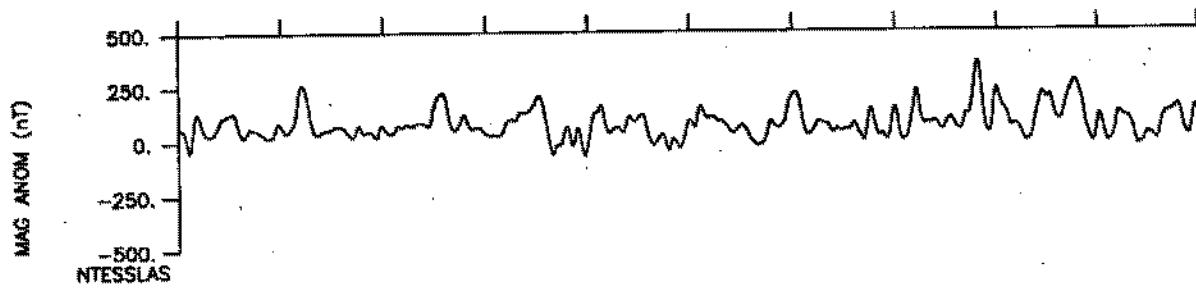
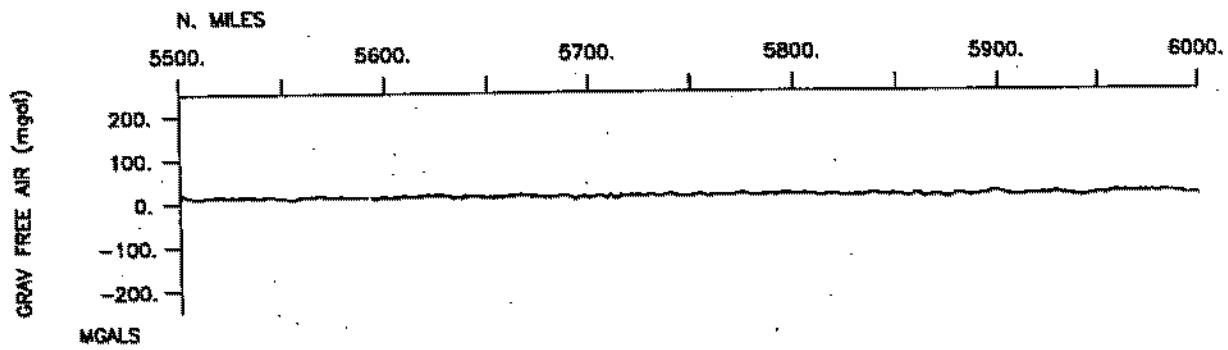


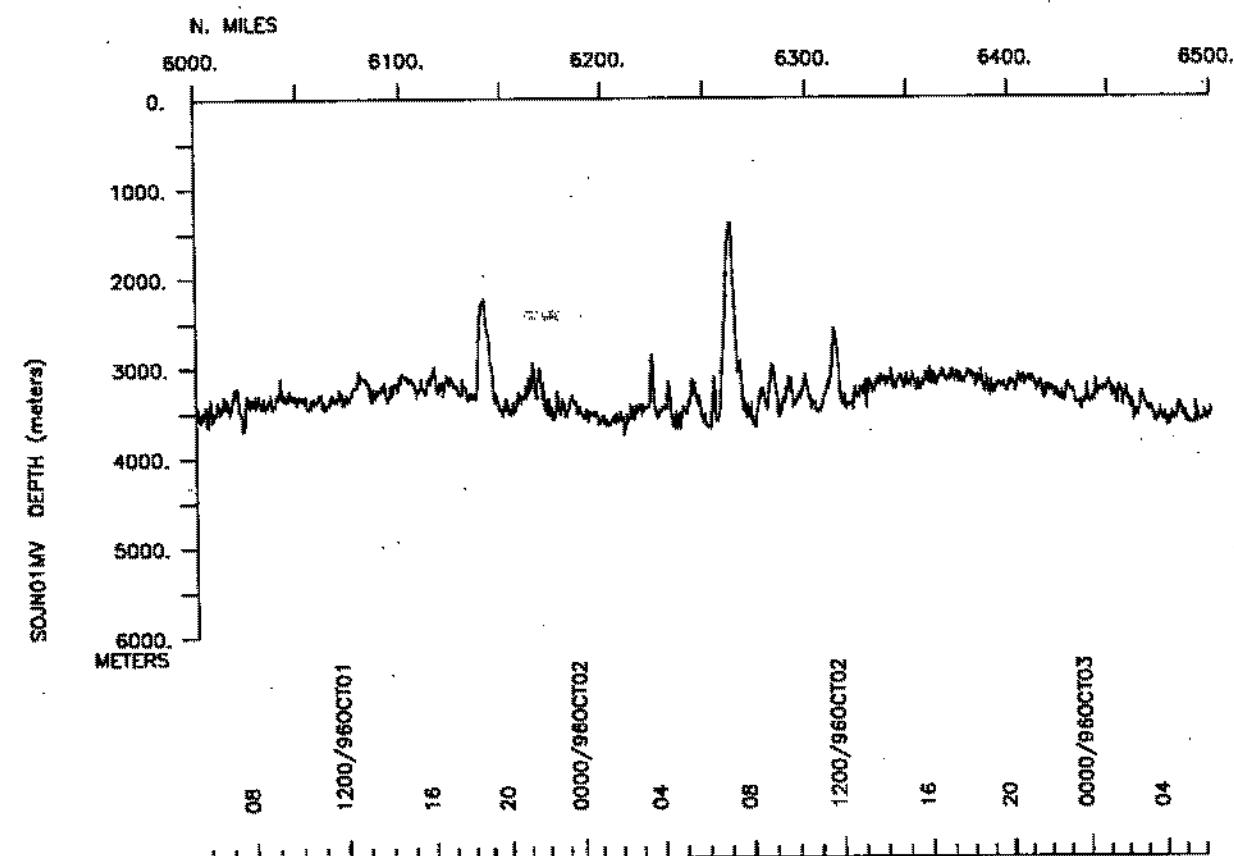
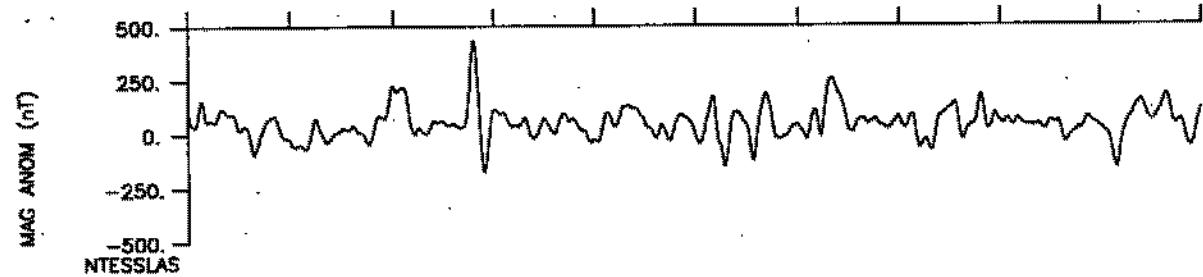
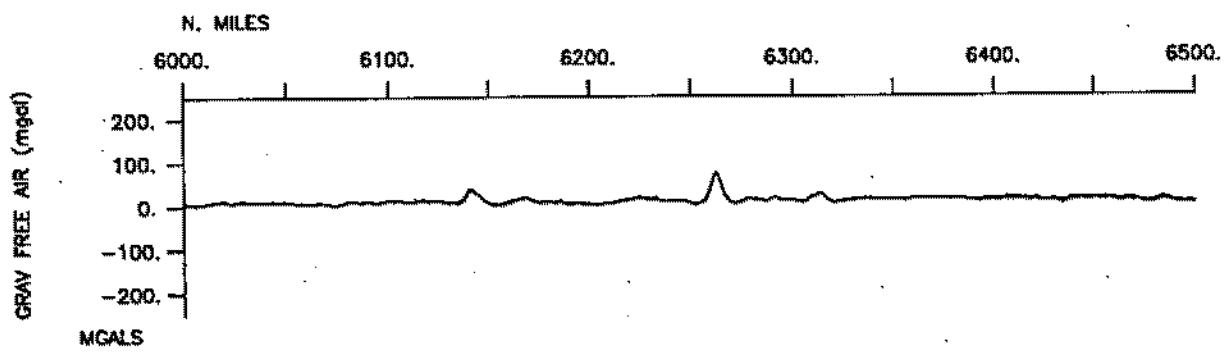


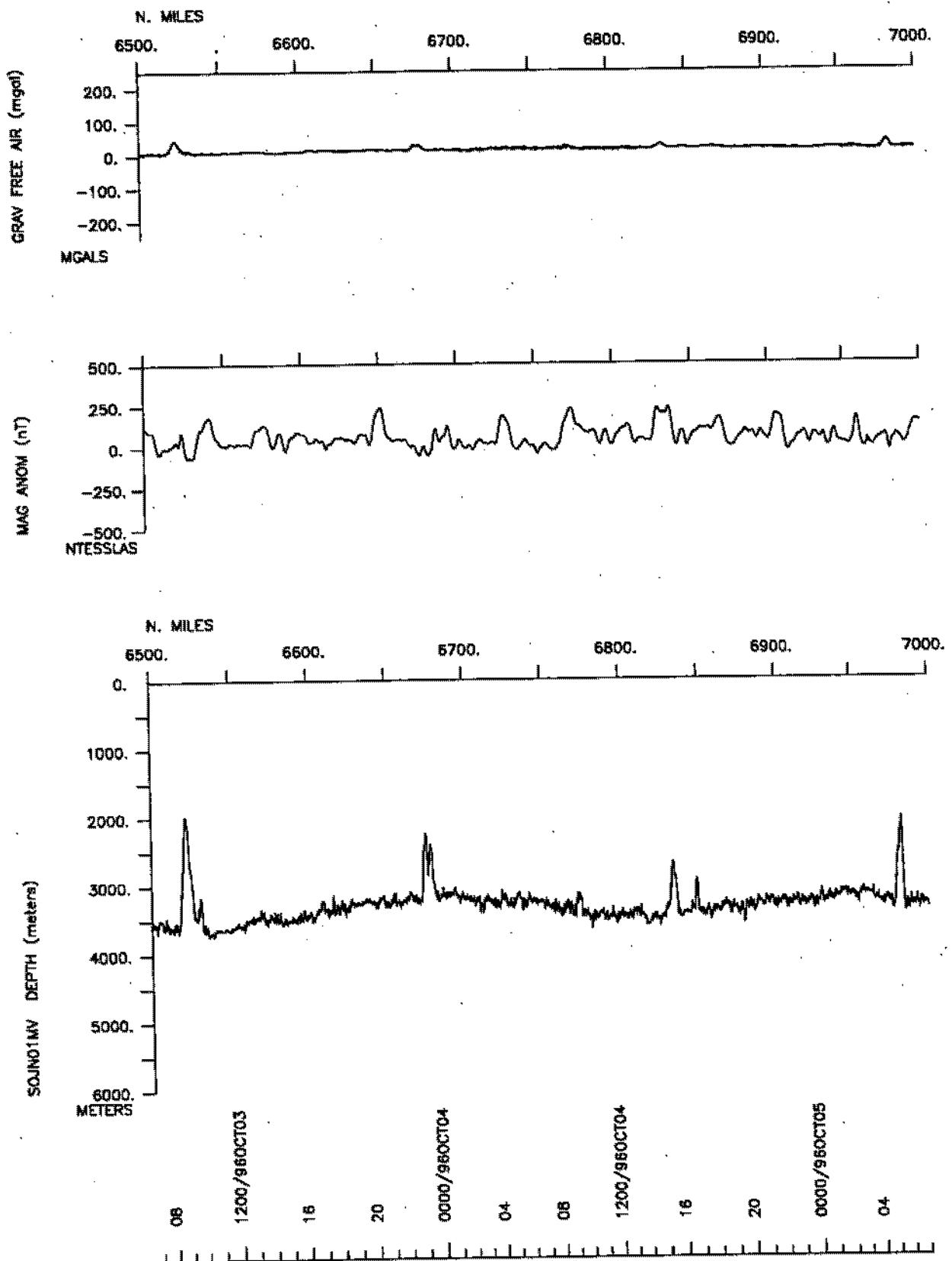


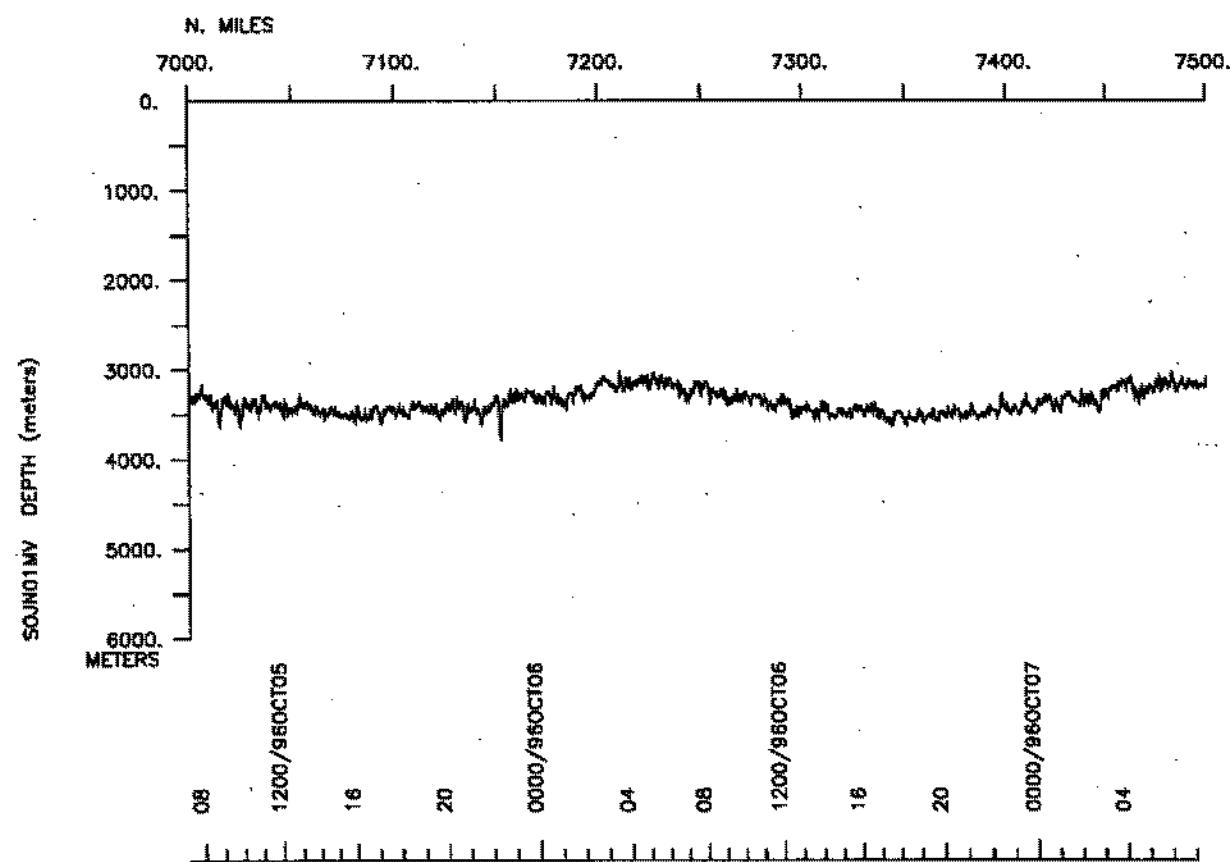
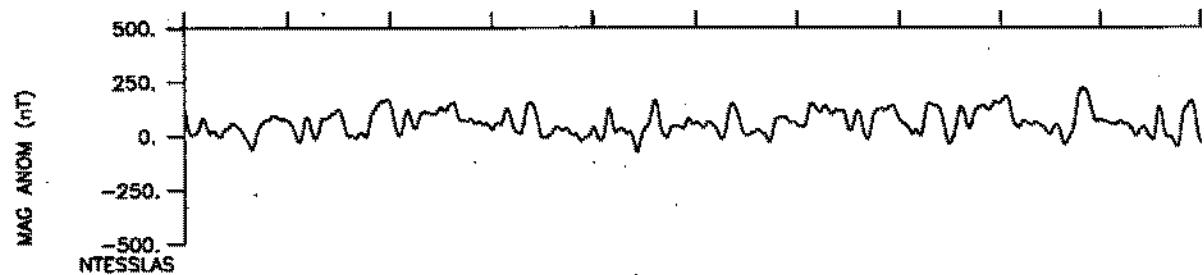
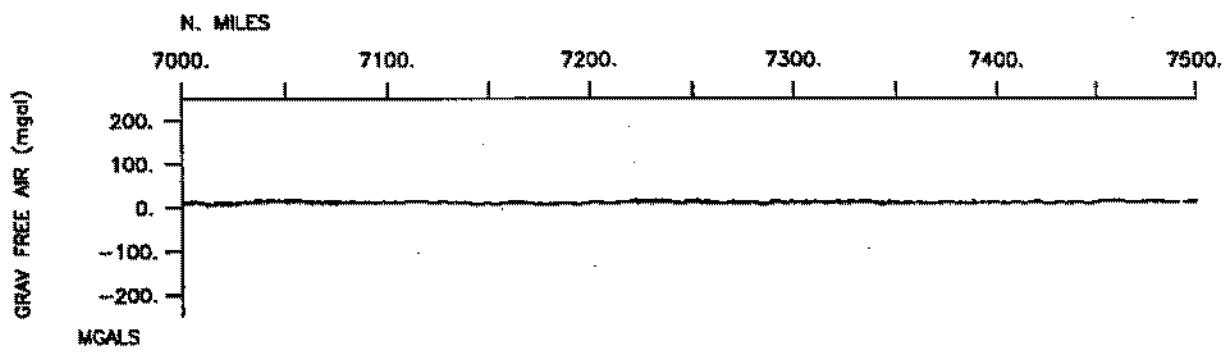


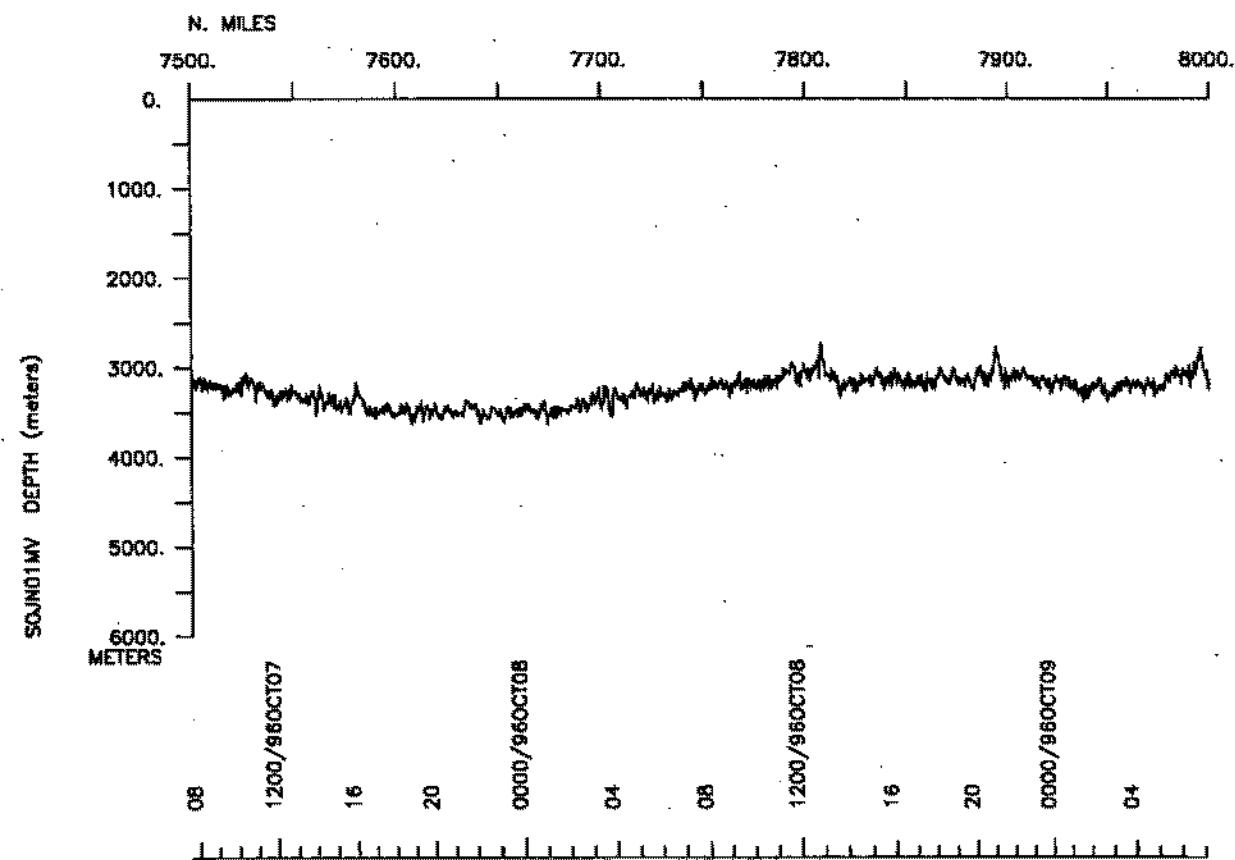
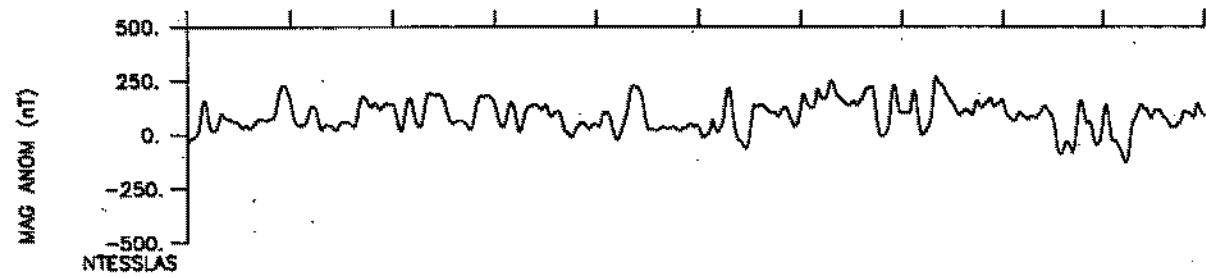
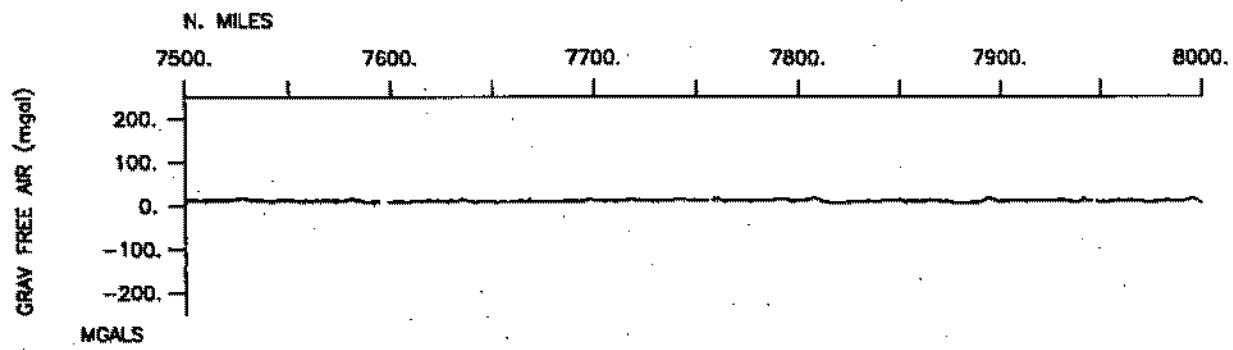


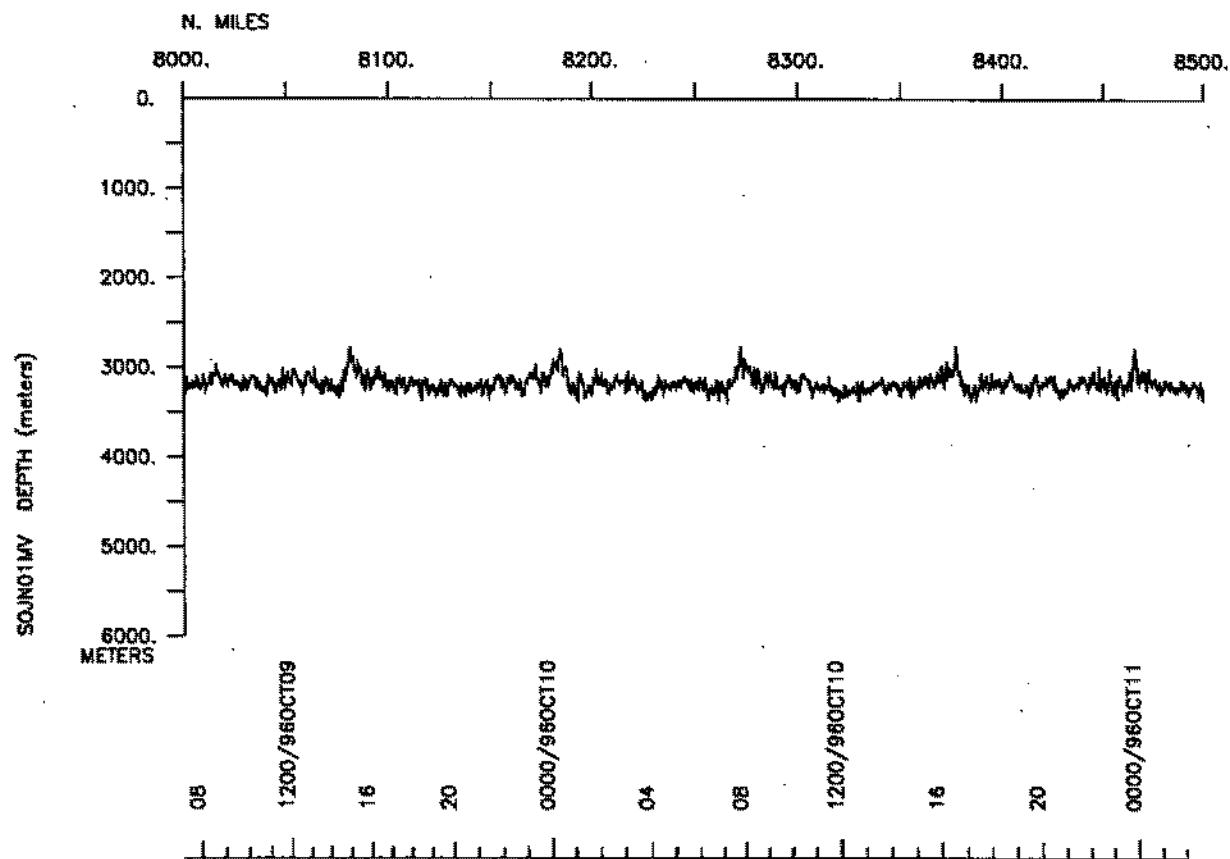
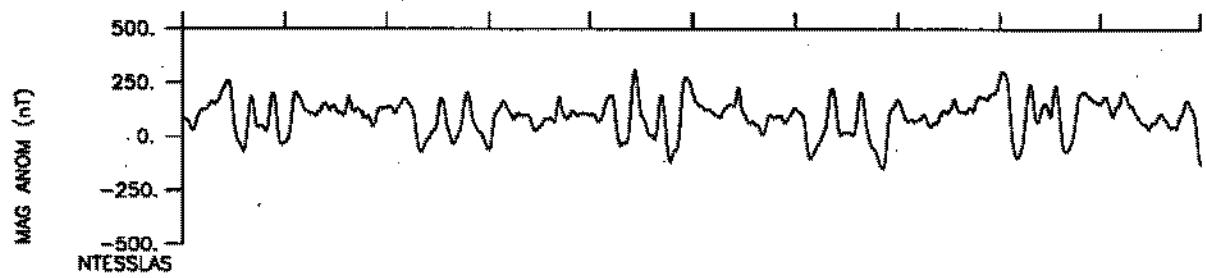
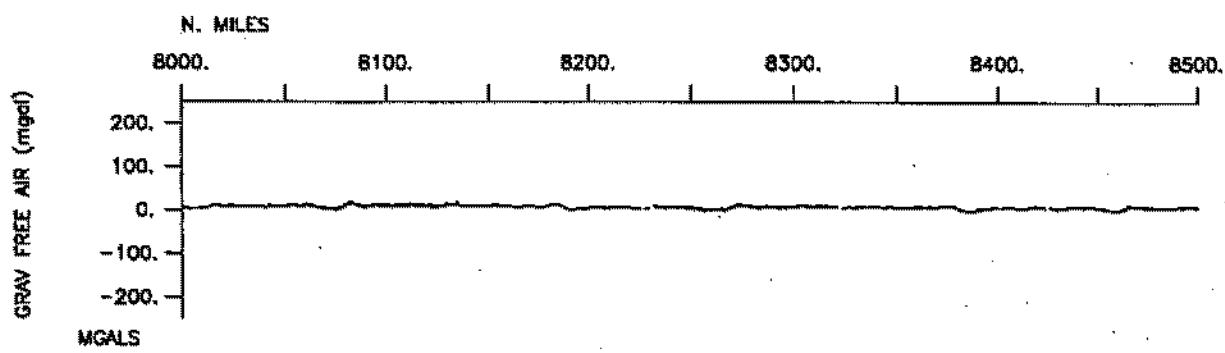


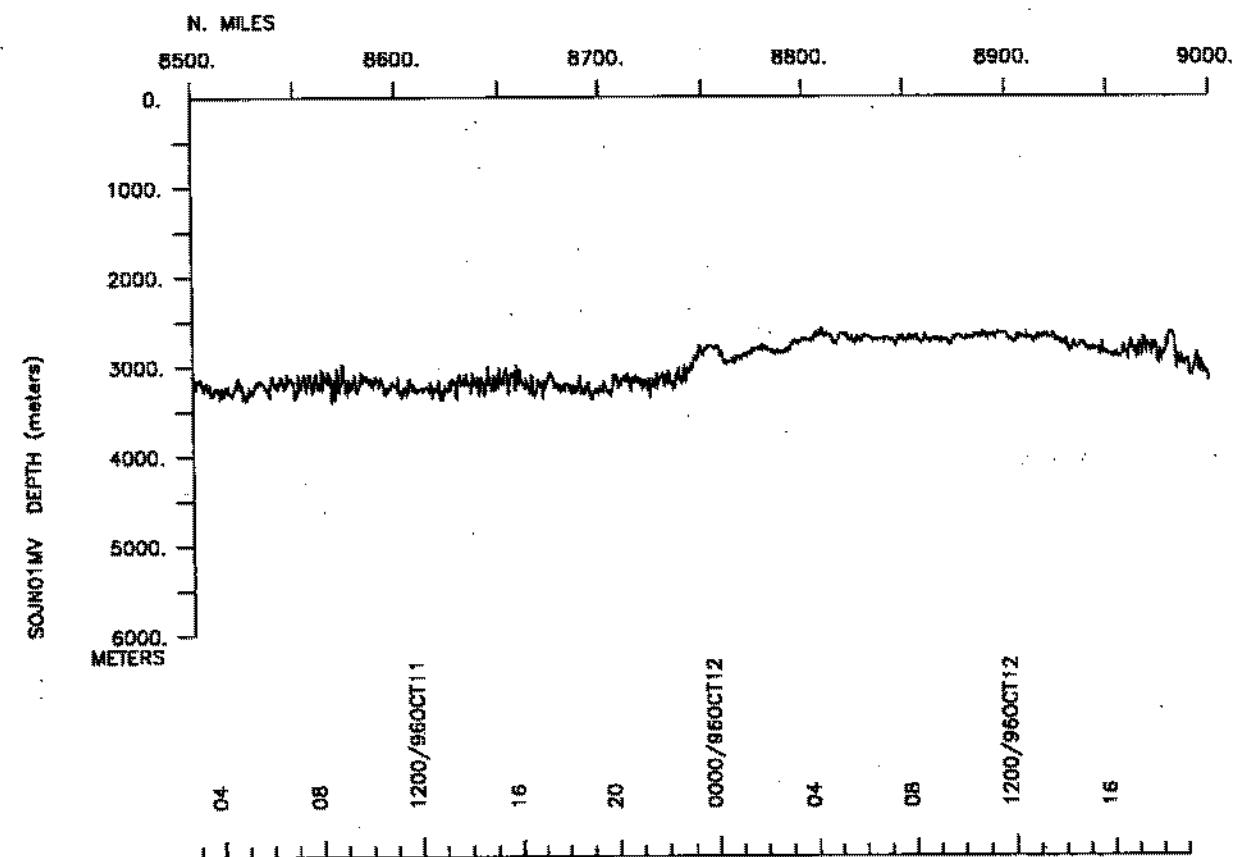
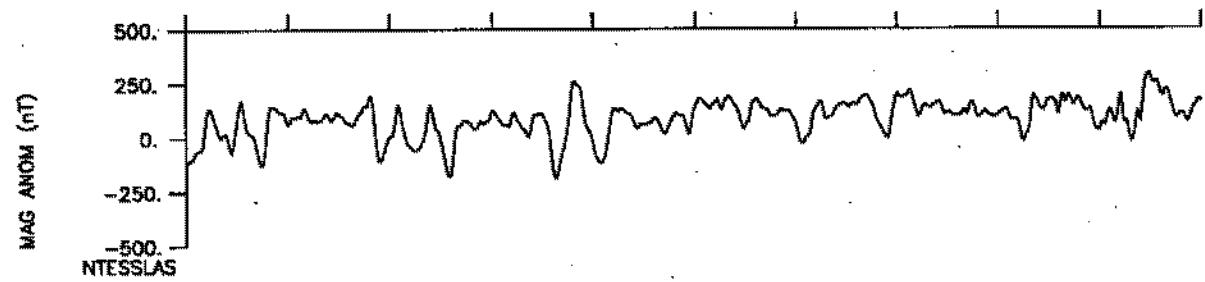
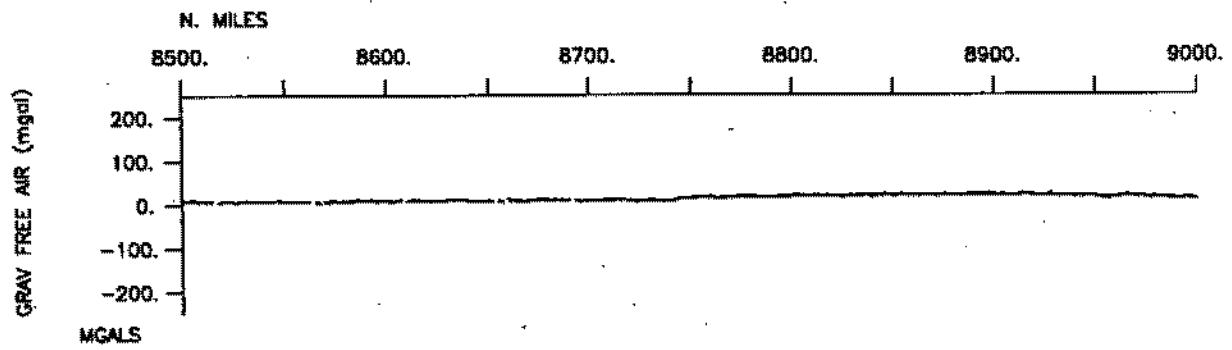


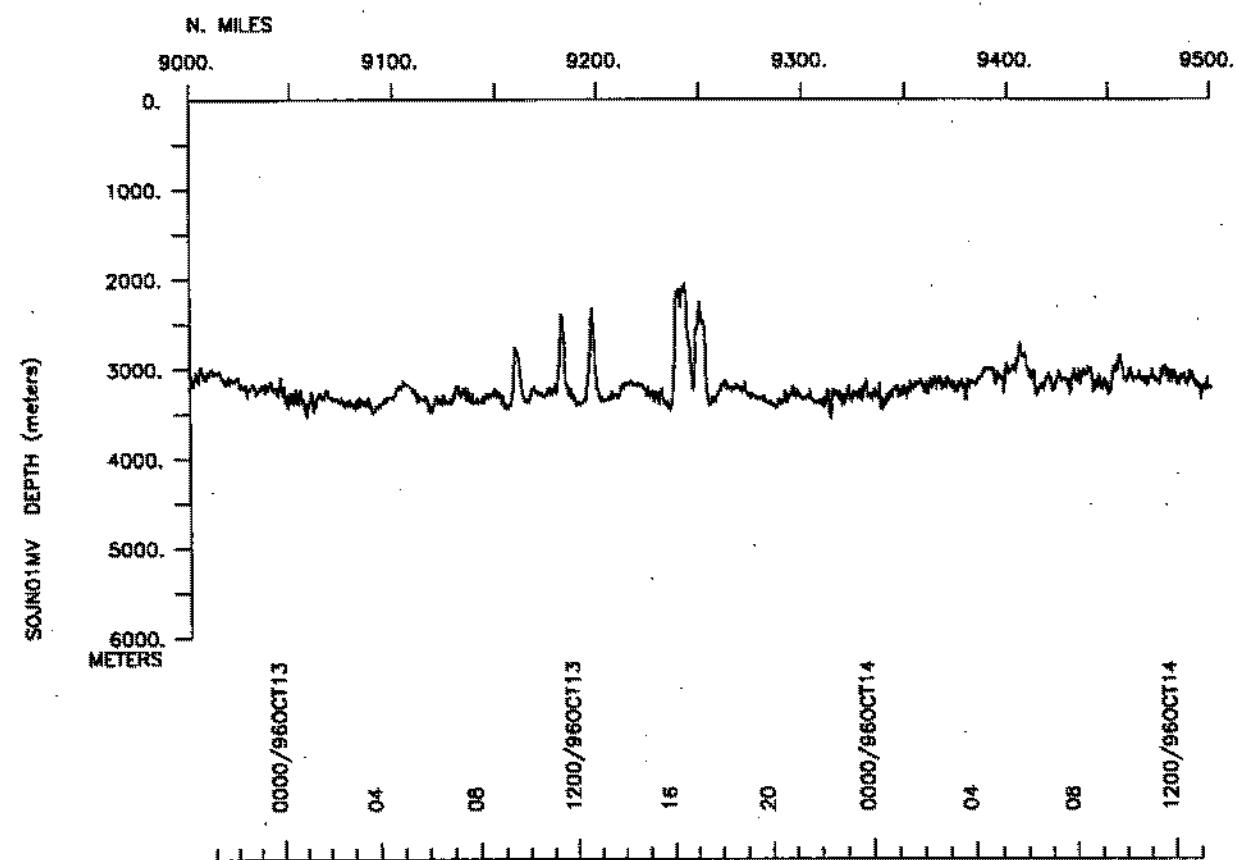
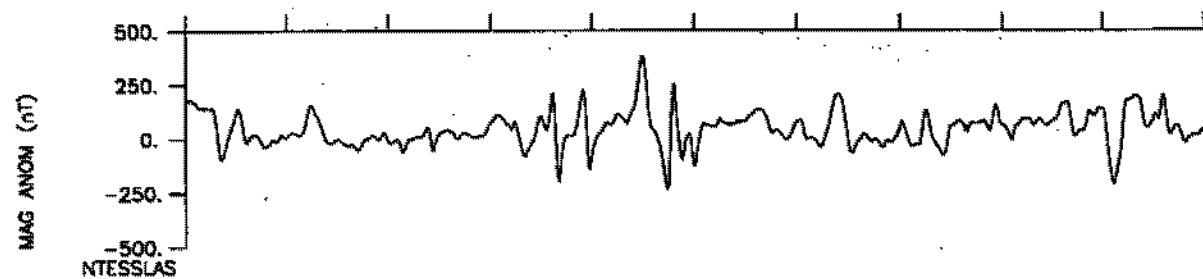
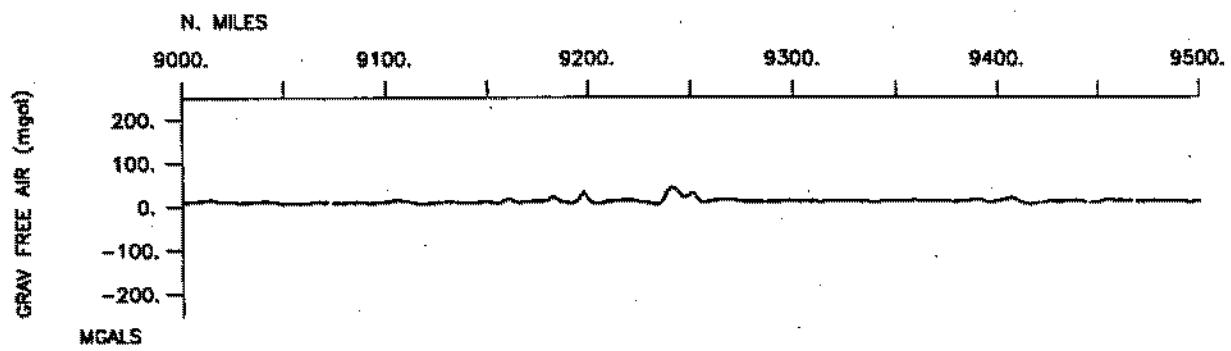


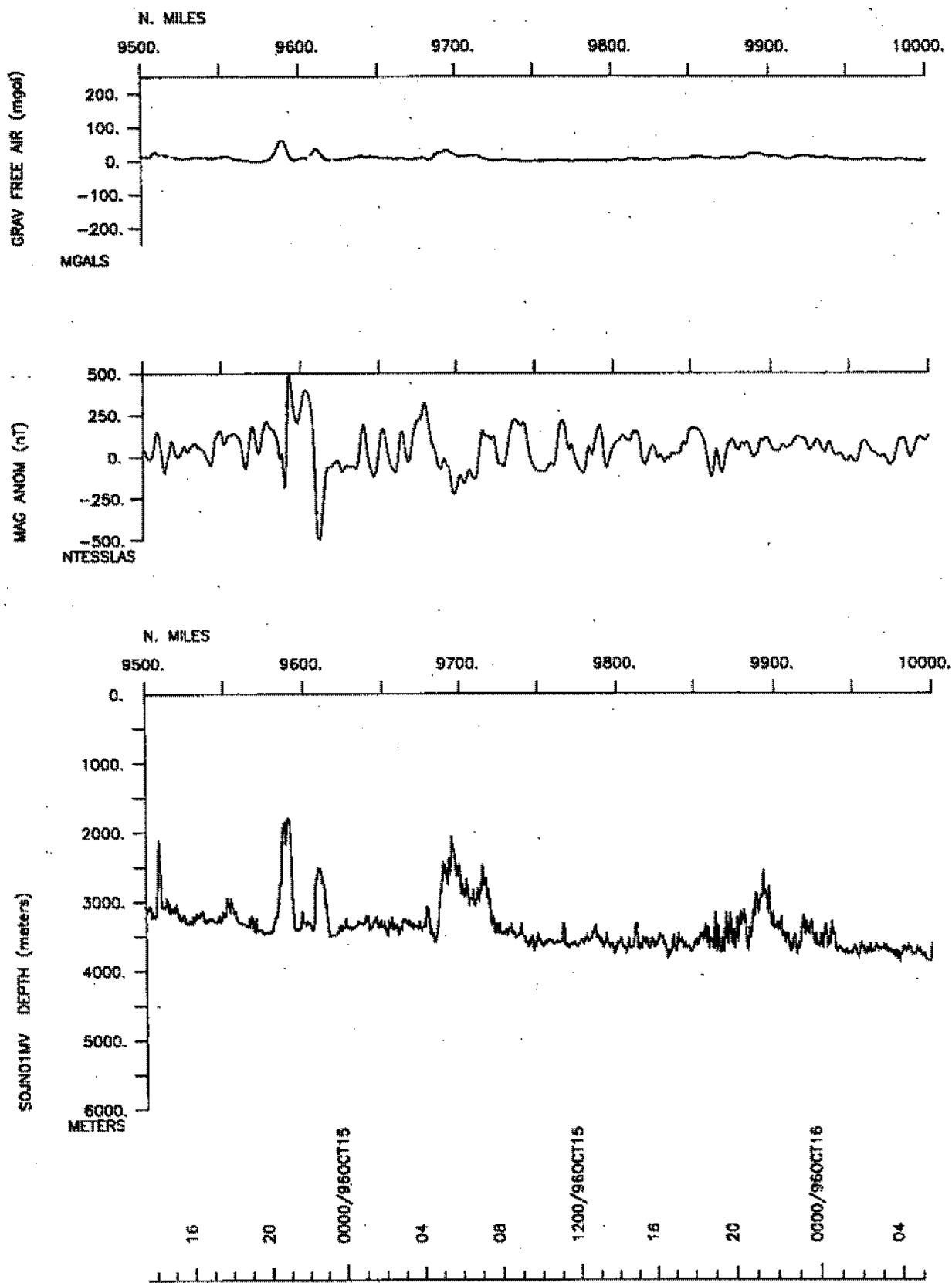


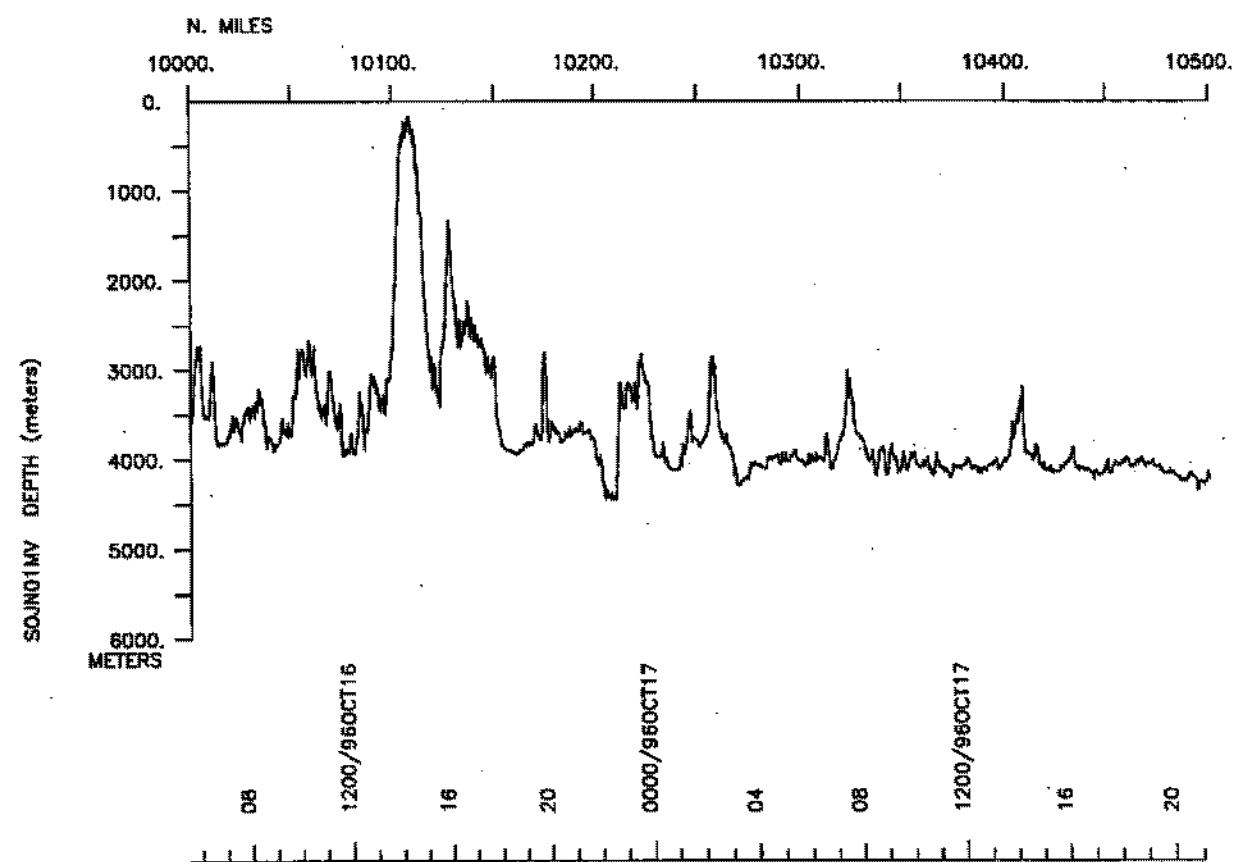
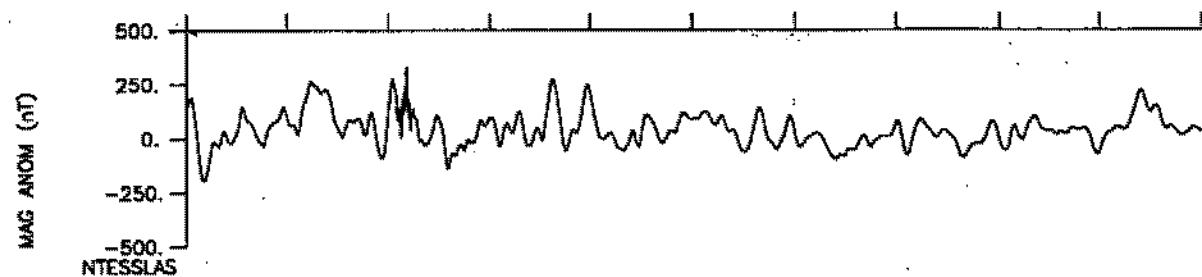
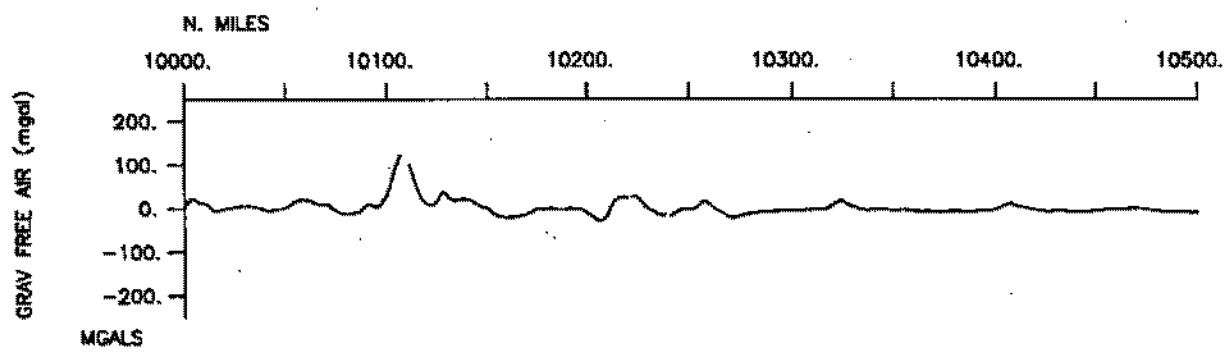


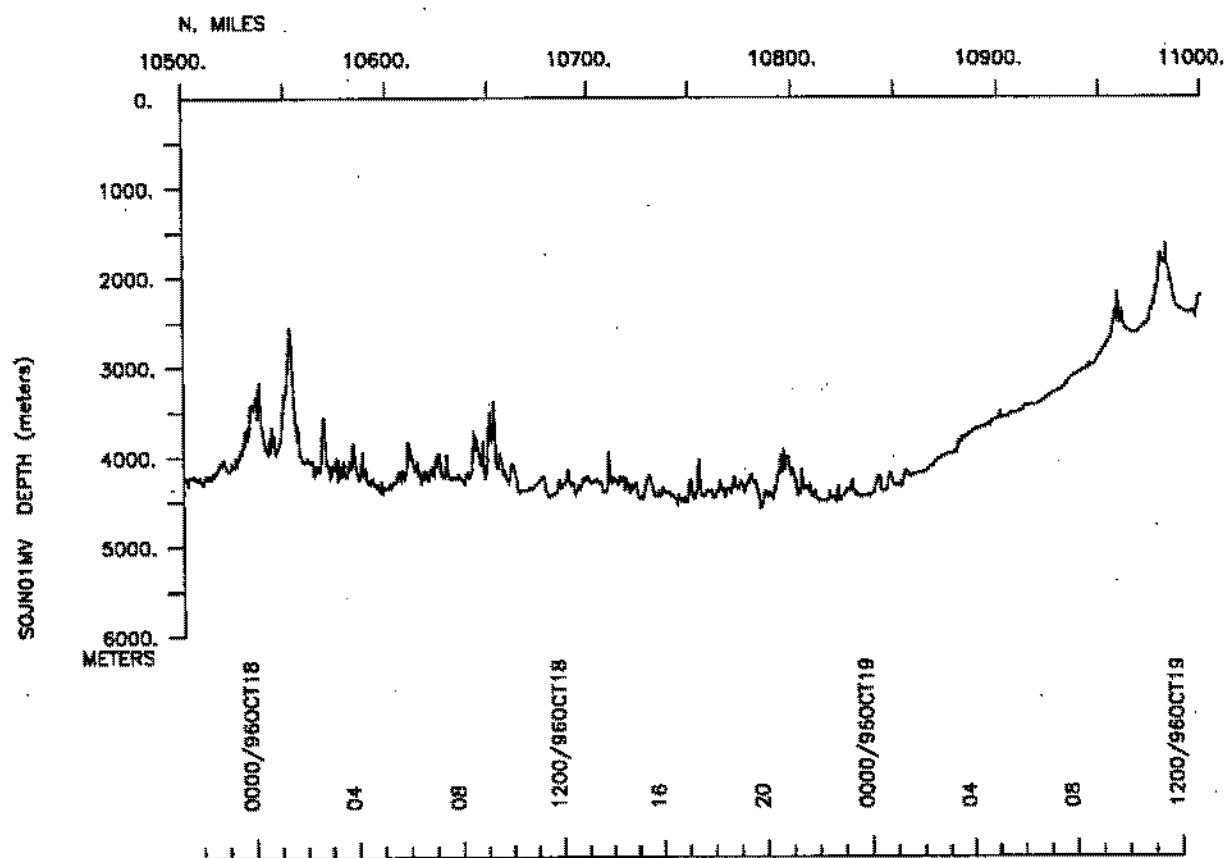
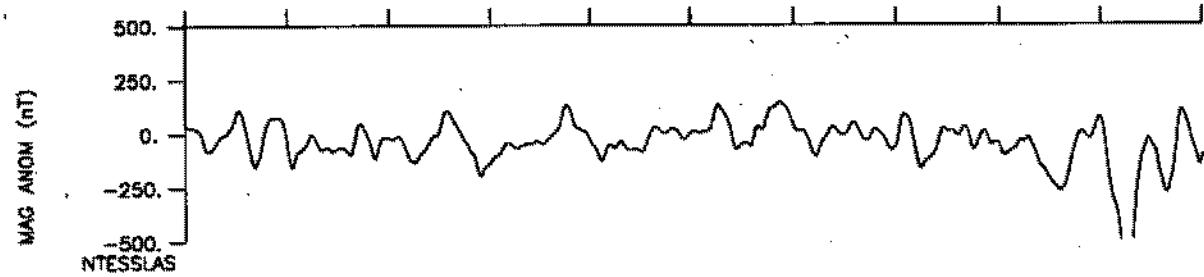
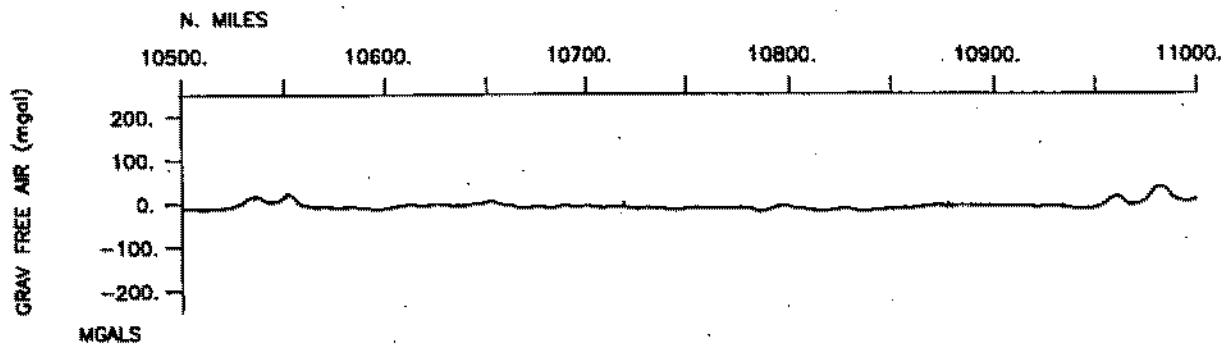


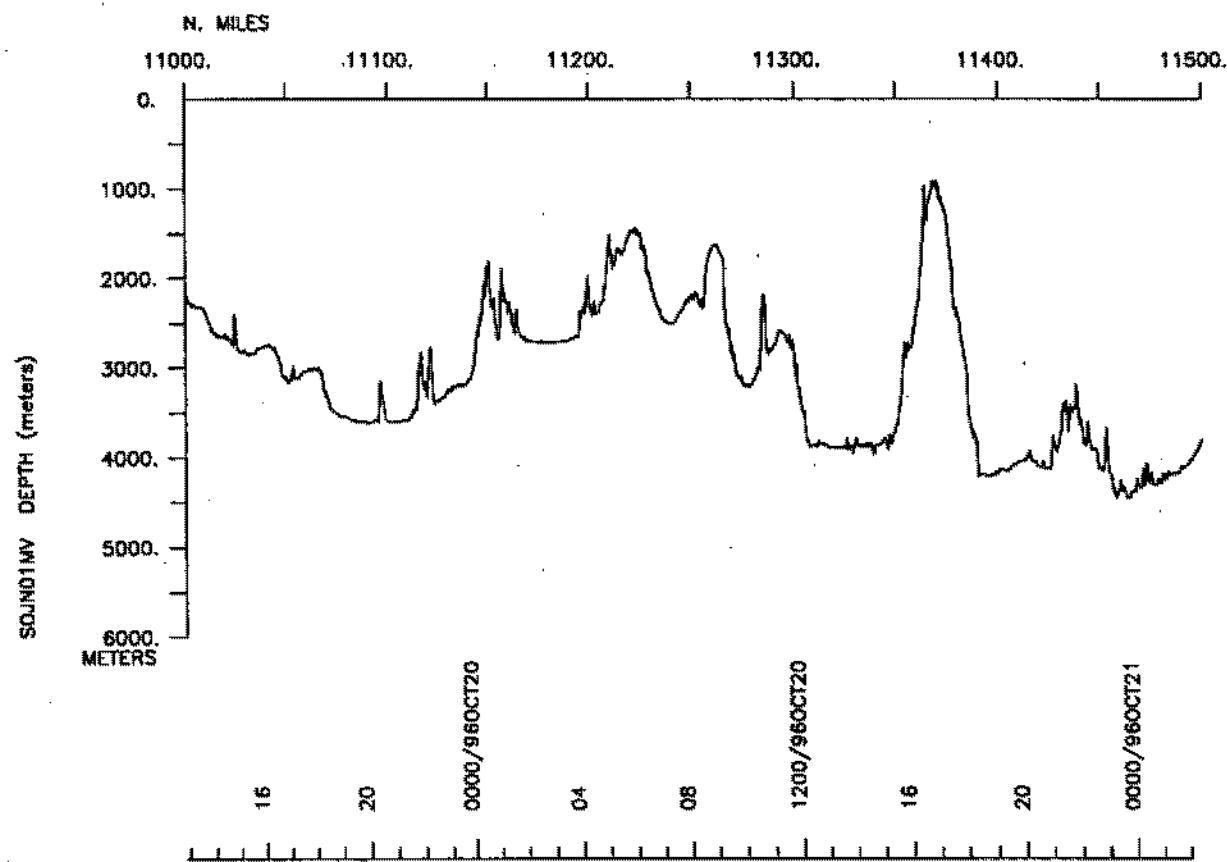
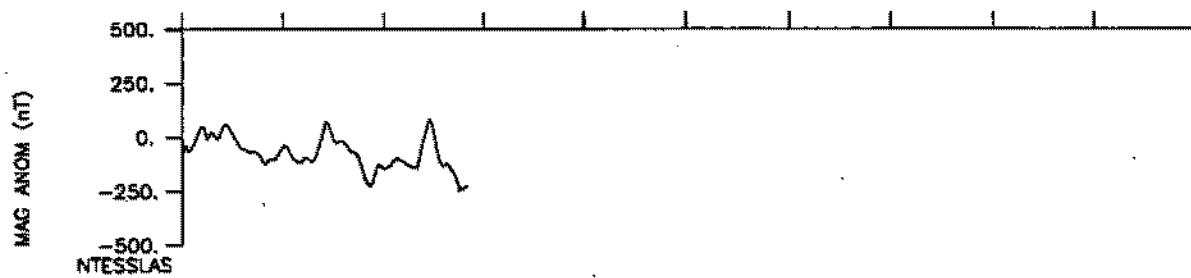
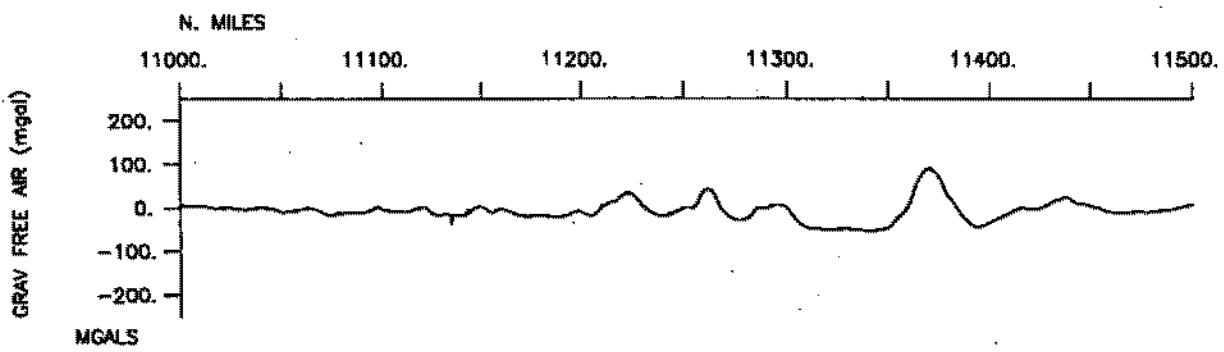


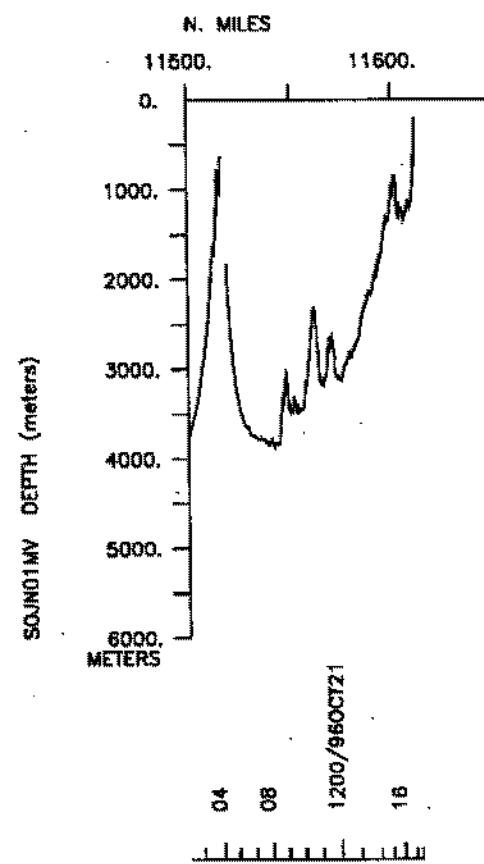
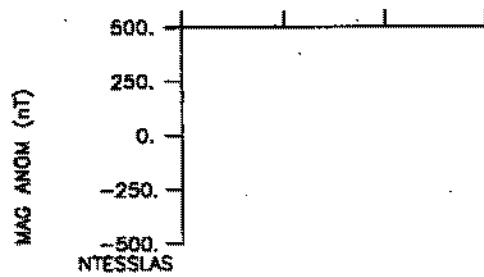
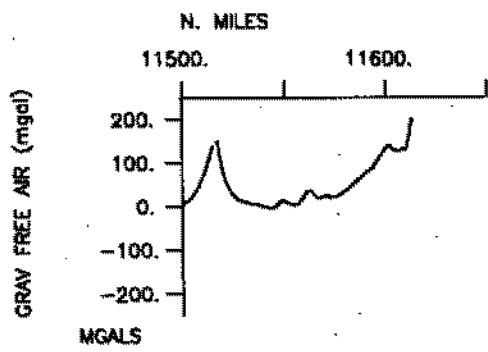












S.I.O. SAMPLE INDEX

SOJOURN EXPEDITION

LEG 1

(SOJN01MV)

R/V Melville

(Issued November 1996)

PORTS:

San Diego, California (8 September 1996)
to
Papeete, Tahiti (21 October 1996)

Chief Scientist:

Daniel Scheirer, Brown University

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.# 269

**** Ports ***

2206 080996	LGPT E San Diego, Ca.	GDC	32-43.00N 117-11.00W f	SOJN01MV
1742 211096	LGPT E Papeete, Tahiti	GDC	17-32.00S 149-34.00W f	SOJN01MV

**** Personnel ***

#	*****NAME*****	*****TITLE*****	*****AFFILIATION*****	**CRID**
PECS	BRNU Scheirer,Daniel	Chief Scientist	Brown University	SOJN01MV
PESP	LDEO Cormier,Marie-H.	Co-Chief Scientist	Lamont-Doherty	SOJN01MV
PESP	UCSB Haymon,Rachel	Scientist	U.C. Santa Barbara	SOJN01MV
PESP	STS Goodwillie,Andrew	Sbeam Processor	Scripps Institution	SOJN01MV
PERT	STS Comer,Ron	Res. Technician	Scripps Institution	SOJN01MV
PECT	STS Moe,Ron	Computer Engineer	Scripps Institution	SOJN01MV
PEET	STS Heckman,Earl	Hardware Tech.	Scripps Institution	SOJN01MV
PEST	UCSB Baron,Susan	Grad. Student	U.C. Santa Barbara	SOJN01MV
PEST	UCSB Crowder,Lisa	Grad. Student	U.C. Santa Barbara	SOJN01MV
PEST	UCSB Hobson,Joanna	Grad. Student	U.C. Santa Barbara	SOJN01MV
PEST	UCSB Sharfstein,Phil	Grad. Student	U.C. Santa Barbara	SOJN01MV
PEST	UCSB White,Scott	Undergrad. Stud.	U.C. Santa Barbara	SOJN01MV
PEST	UCSB Terra,Fabia	Undergrad. Stud.	U.C. Santa Barbara	SOJN01MV
PEVL	UCSB Sandell,Catherine	Volunteer	U.C. Santa Barbara	SOJN01MV
PEVL	UCSB Birk,Erika	Volunteer	U.C. Santa Barbara	SOJN01MV
PEVL	UCSB Bezy,Bernadette	Volunteer	U.C. Santa Barbara	SOJN01MV

**** 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 ***

1530 080996	0	LBUW B Underway watch log	GDC	32-41.99N	117-14.24W	g	SOJN01MV
2342 191096	0	LBUW E Underway watch log	GDC	17-09.86S	141-37.42W	g	SOJN01MV
1530 080996	0	LBSC B Science Log Book	BRNU	32-41.99N	117-14.24W	g	SOJN01MV
0935 081096	0	LBSC E Volume 1	BRNU	19-12.51S	112-50.11W	g	SOJN01MV
0944 081096	0	LBSC B Science Log Book	BRNU	19-12.52S	112-51.93W	g	SOJN01MV
1200 201096	0	LBSC E Volume 2	BRNU	17-16.43S	144-27.59W	g	SOJN01MV

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

0921 100996	0	MBSR B vbeam& sidescan r-01	GDC	25-46.71N	119-19.26W	g	SOJN01MV
0705 170996	0	MBSR E vbeam& sidescan r-01	GDC	5-49.33S	114-25.57W	g	SOJN01MV
0712 170996	0	MBSR B vbeam& sidescan r-02	GDC	5-50.73S	114-25.94W	g	SOJN01MV
0338 031096	0	MBSR E vbeam& sidescan r-02	GDC	18-19.37S	111-06.93W	g	SOJN01MV
0342 031096	0	MBSR B vbeam& sidescan r-03	GDC	18-19.35S	111-06.26W	g	SOJN01MV
0950 081096	0	MBSR E vbeam& sidescan r-03	GDC	19-12.49S	112-53.14W	g	SOJN01MV
0954 081096	0	MBSR B vbeam& sidescan r-04	GDC	19-12.48S	112-53.96W	g	SOJN01MV
1715 211096	0	MBSR E vbeam& sidescan r-04	GDC	17-31.93S	149-35.24W	g	SOJN01MV

**** Magnetics (Earth Total Field) Records ***

0935 100996	0	MGRA B Magnetic record r-01	GDC	25-44.92N	119-19.81W	g	SOJN01MV
1515 190996	0	MGRA E Magnetic record r-01	GDC	13-39.86S	114-58.30W	g	SOJN01MV
1527 190996	0	MGRA B Magnetic record r-02	GDC	13-40.48S	114-56.09W	g	SOJN01MV
0414 011096	0	MGRA E Magnetic record r-02	GDC	17-59.94S	110-34.08W	g	SOJN01MV
0426 101096	0	MGRA B Magnetic record r-03	GDC	19-40.20S	114-16.81W	g	SOJN01MV
0350 131096	0	MGRA E Magnetic record r-03	GDC	15-45.42S	111-26.93W	g	SOJN01MV
0356 131096	0	MGRA B Magnetic record r-04	GDC	15-46.65S	111-27.08W	g	SOJN01MV
2342 191096	0	MGRA E Magnetic record r-04	GDC	17-09.86S	141-37.42W	g	SOJN01MV

**** Continuous Recorded Gravity ***

2206 080996	0	GVCR B Gravity	GDC	32-41.99N	117-14.24W	g	SOJN01MV
1742 211096	0	GVCR E Gravity	GDC	17-32.04S	149-34.31W	g	SOJN01MV

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

*** Integrated Meteorological Acquisition System ***

2206 080996 0 IMET B Weather measurements GDC 32-41.99N 117-14.24W g SOJN01MV
 1742 211096 0 IMET E Weather measurements GDC 17-32.04S 149-34.31W g SOJN01MV

*** Acoustic Doppler Current Profiler ***

1930 150996 0 ADCP B Accoustic Doppler GDC 0-58.31N 115-21.64W g SOJN01MV
 1742 211096 0 ADCP E Current Profiler GDC 17-32.04S 149-34.31W g SOJN01MV

*** Expendable Bathythermographs ***

GDC

1424 100996 0 BTXP	XBT T-5 t-5\$1.sip	NOAA 24-47.73N 119-32.70W g	SOJN01MV
1117 110996 0 BTXP	XBT T-5 t-5\$2.sip	NOAA 20-32.35N 118-45.54W g	SOJN01MV
1125 120996 0 BTXP	XBT T-5 t-5\$3.sip	NOAA 15-42.67N 117-53.79W g	SOJN01MV
1539 130996 0 BTXP	XBT T-5 t-5\$4.sip	NOAA 10-11.82N 116-56.17W g	SOJN01MV
1144 140996 0 BTXP	XBT T-5 t-5\$5.sip	NOAA 6-08.61N 116-14.68W g	SOJN01MV
1502 150996 0 BTXP	XBT T-5 t-5\$6.sip	NOAA 1-44.20N 115-29.51W g	SOJN01MV
1511 150996 0 BTXP	XBT T-5 t-5\$7.sip	NOAA 1-42.65N 115-29.24W g	SOJN01MV
1226 160996 0 BTXP	XBT T-5 t-5\$8.sip	NOAA 2-16.90S 114-48.54W g	SOJN01MV
2137 170996 0 BTXP	XBT T-5 t-5\$9.sip	NOAA 8-39.65S 115-13.25W g	SOJN01MV
2030 180996 0 BTXP	XBT T-5 t-5\$10.sip	NOAA 13-07.35S 116-29.24W g	SOJN01MV
2139 200996 0 BTXP	XBT T-5 t-5\$11.sip	NOAA 15-29.65S 110-15.74W g	SOJN01MV
1908 210996 0 BTXP	XBT T-5 t-5\$12.sip	NOAA 15-45.69S 110-52.13W g	SOJN01MV
1915 220996 0 BTXP	XBT T-5 t-5\$13.sip	NOAA 15-58.07S 110-59.36W g	SOJN01MV
2042 230996 0 BTXP	XBT T-5 t-5\$14.sip	NOAA 16-09.19S 110-52.69W g	SOJN01MV
1921 240996 0 BTXP	XBT T-5 t-5\$15.sip	NOAA 16-21.87S 110-57.78W g	SOJN01MV
1920 250996 0 BTXP	XBT T-5 t-5\$16.sip	NOAA 16-35.77S 111-15.21W g	SOJN01MV
2243 260996 0 BTXP	XBT T-5 t-5\$17.sip	NOAA 16-43.20S 110-47.64W g	SOJN01MV
2006 270996 0 BTXP	XBT T-5 t-5\$18.sip	NOAA 17-24.96S 111-45.09W g	SOJN01MV
2022 290996 0 BTXP	XBT T-5 t-5\$19.sip	NOAA 17-45.58S 111-23.43W g	SOJN01MV
1939 300996 0 BTXP	XBT T-5 t-5\$20.sip	NOAA 17-58.34S 111-39.40W g	SOJN01MV
1946 300996 0 BTXP	XBT T-5 t-5\$21.sip	NOAA 17-58.24S 111-38.15W g	SOJN01MV
1925 011096 0 BTXP	XBT T-5 t-5\$22.sip	NOAA 18-09.74S 111-47.56W g	SOJN01MV
1925 021096 0 BTXP	XBT T-5 t-5\$23.sip	NOAA 18-22.37S 112-29.02W g	SOJN01MV
1929 021096 0 BTXP	XBT T-5 t-5\$24.sip	NOAA 18-22.34S 112-28.32W g	SOJN01MV
2030 031096 0 BTXP	XBT T-5 t-5\$25.sip	NOAA 18-26.65S 111-55.66W g	SOJN01MV
2025 141096 0 BTXP	XBT T-5 t-5\$26.sip	NOAA 18-56.11S 115-45.27W g	SOJN01MV
2123 151096 0 BTXP	XBT T-5 t-5\$27.sip	NOAA 18-06.30S 120-35.46W g	SOJN01MV
2024 161096 0 BTXP	XBT T-5 t-5\$28.sip	NOAA 18-18.42S 125-31.14W g	SOJN01MV
2328 171096 0 BTXP	XBT T-5 t-5\$29.sip	NOAA 17-04.82S 131-06.20W g	SOJN01MV
2128 181096 0 BTXP	XBT T-5 t-5\$30.sip	NOAA 16-49.03S 135-47.19W g	SOJN01MV
2144 181096 0 BTXP	XBT T-5 t-5\$31.sip	NOAA 16-49.22S 135-50.70W g	SOJN01MV

End Sample Index SOJN01MV