REPORT AND INDEX OF

UNDERWAY MARINE GEOPHYSICAL DATA

GLORIA EXPEDITION

LEG 2

R/V Melville

(Issued March 1993)

Acapulco, Mexico (5 November 1992)
to
Easter Island (10 December 1992)

Chief Scientist:

Ken Macdonald (Univ. of Calif., Santa Barbara)

Resident Marine Technician - Bob Wilson

Computer Technician - Mike Moore

No Sea Beam/Underway Processor on board

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

Data Collection and Processing Funded by:
NSF Grant Number OCE91-02183

GDC Cruise I.D.# 261

INFORMAL 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 anomaly 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 all other samples and measurements (geology, biology, physical oceanography, etc.) 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, CA 92093-0223. Phone (619)534-2752. Fax (619)534-5306. Internet Email:ssmith@ucsd.edu

1. Files on Exabyte, DAT or 1/2 inch magnetic tape:
   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 (not available on 1/2" tape).
   d) SeaBeam Sidescan data (not available on 1/2" tape).

2. Microfilm (35mm flowfilm) or Xerox 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 1.2"/degree scale trackplots.
   b) Copies of archived 8"/degree scale SeaBeam depth 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.

SIO SeaBeam 2000 Data Information

The following forms are available, subject to approval of the cruise leg chief scientist:

1) Hardcopy of realtime contour swath records and records with vertical beam and sidescan grayscale display are available for inspection at the data center.

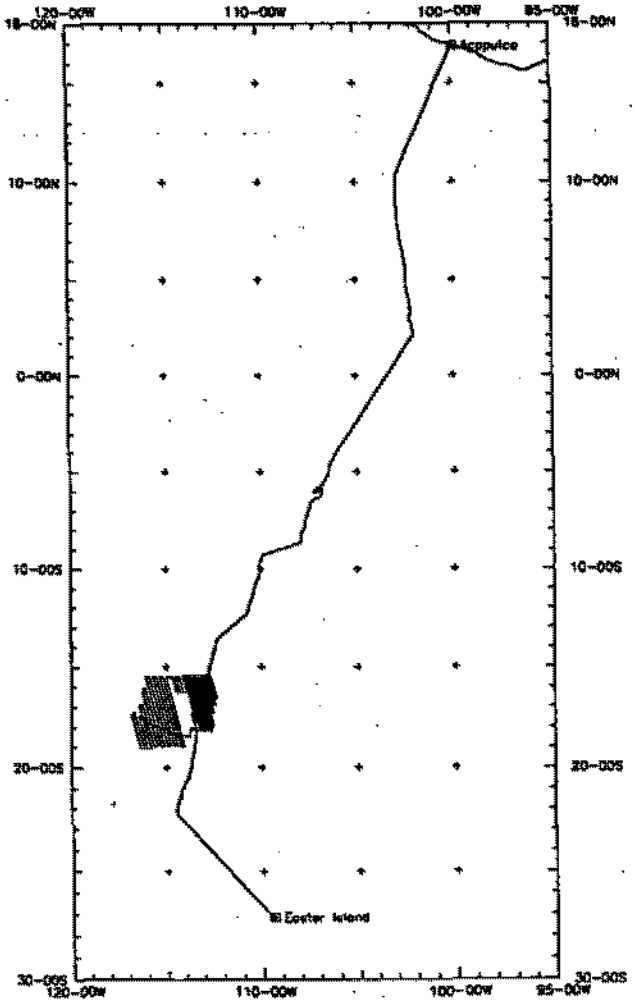
2) Microfilm (35mm flowfilm) of vertical beam/sidescan records.

3) Sea Beam merged tapes - Sea Beam data merged with GPS-based navigation. (Navigation is edited to the extent that DR courses and speeds are edited and poor fixes are removed after inspection of speeds and drift vectors between fix pairs. No editing is done on the basis of adjusting to overlapping Sea Beam swaths.)

4) Archive contour plots - 8"/degree chart scale, with contour interval nominally 50m, are generated for all transit lines. Some survey areas are plotted at appropriate scales as well. Available for inspection at data center; additional copies may be generated from plot files stored on tape.

5) Custom generated plots of Sea Beam swaths on Mercator projection in four colors at variable plot scales and contour intervals. There are provisions to adjust positions of individual track lines and to edit out beams (bad data or overlapping data on inside of turns).

Revised February 1992



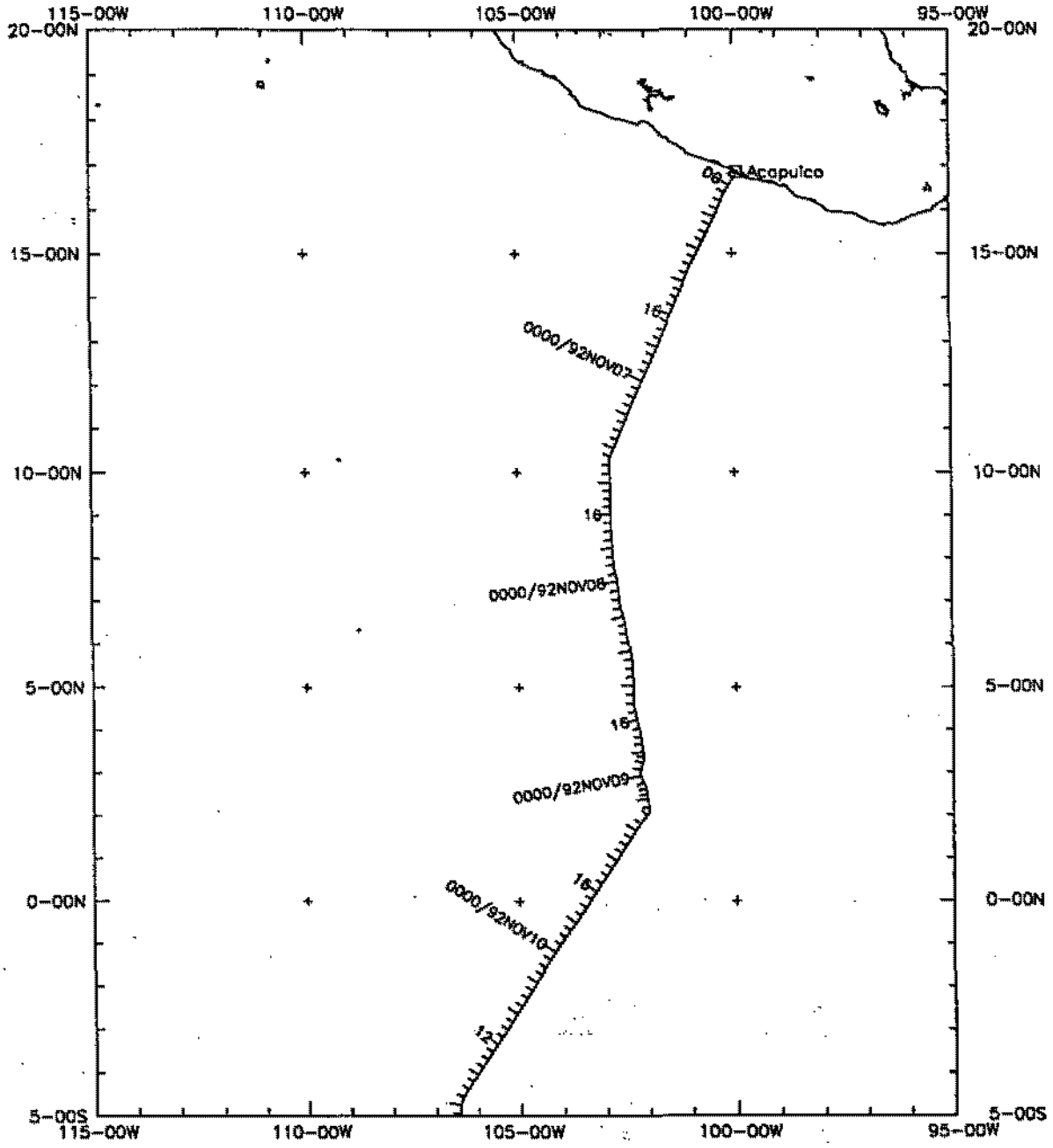
GLORIA Leg 2 (GLOR02MV)

GLORIA EXPEDITION LEG 2

CHIEF SCIENTIST: Ken Macdonald
Univ. of Calif., Santa Barbara
PORTS: Acapulco, Mexico - Easter Island
DATES: 5 November - 10 December 1992
SHIP: R/V Melville

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

Cruise - 8774 miles	Magnetics - 8394 miles
Bathymetry - 8719 miles	Seismic Reflection - none collected
Sea Beam - 8719 miles	Gravity - 8480 miles



GLORIA Leg 2 (GLOR02MV) Part 1

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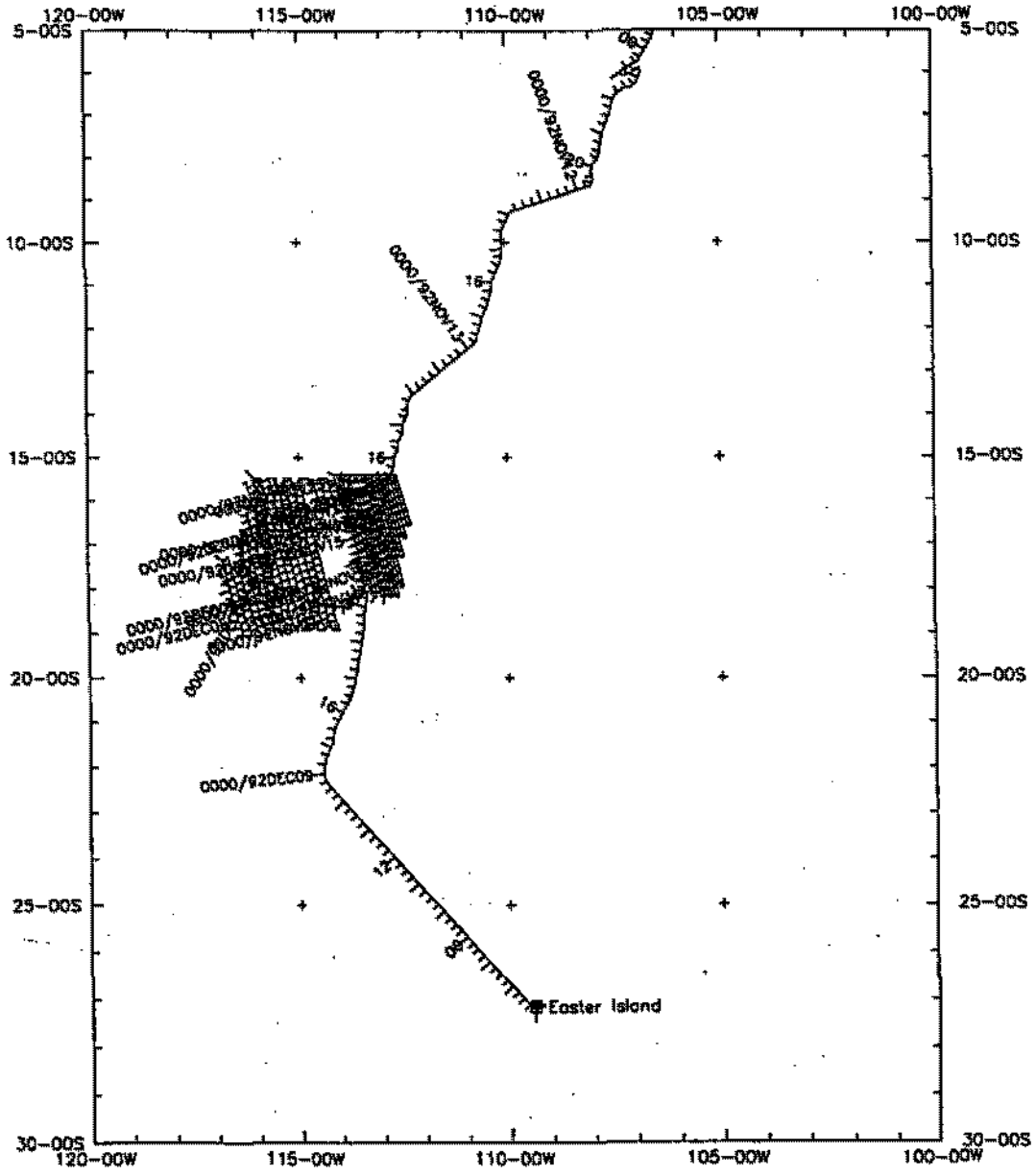

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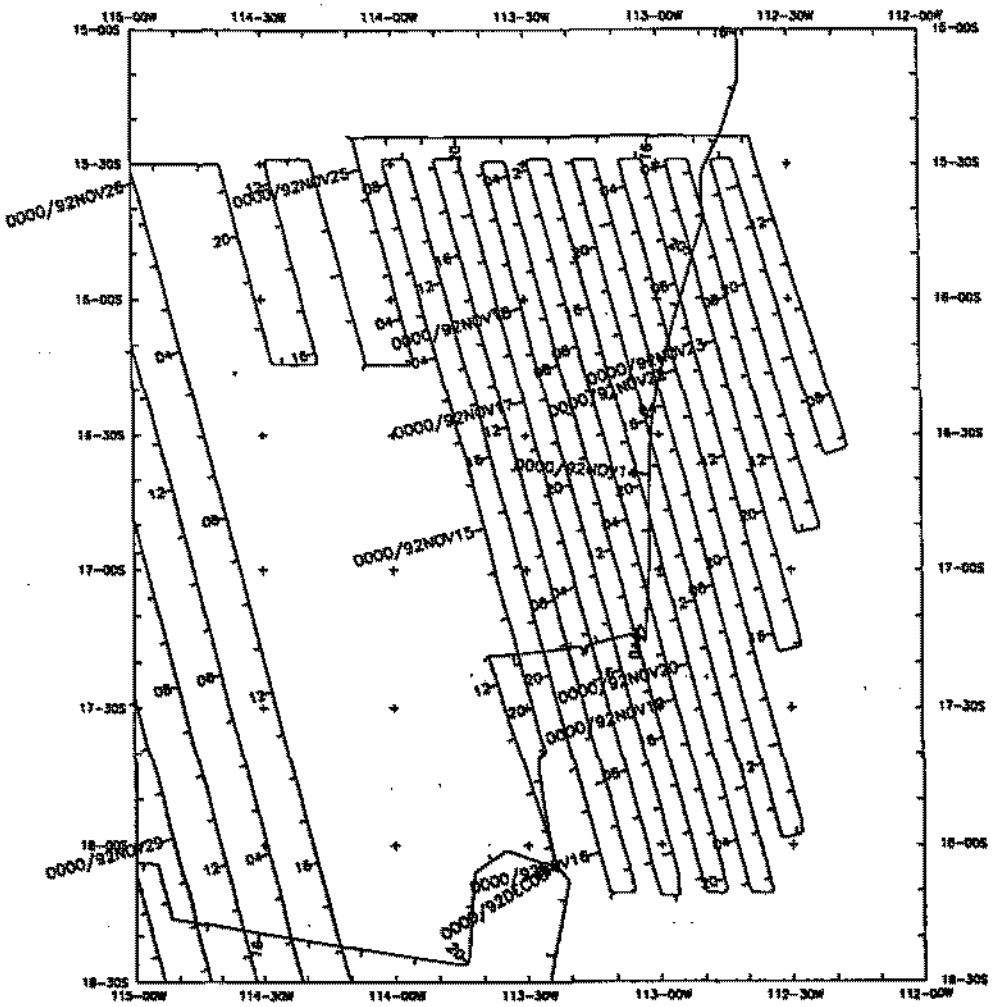

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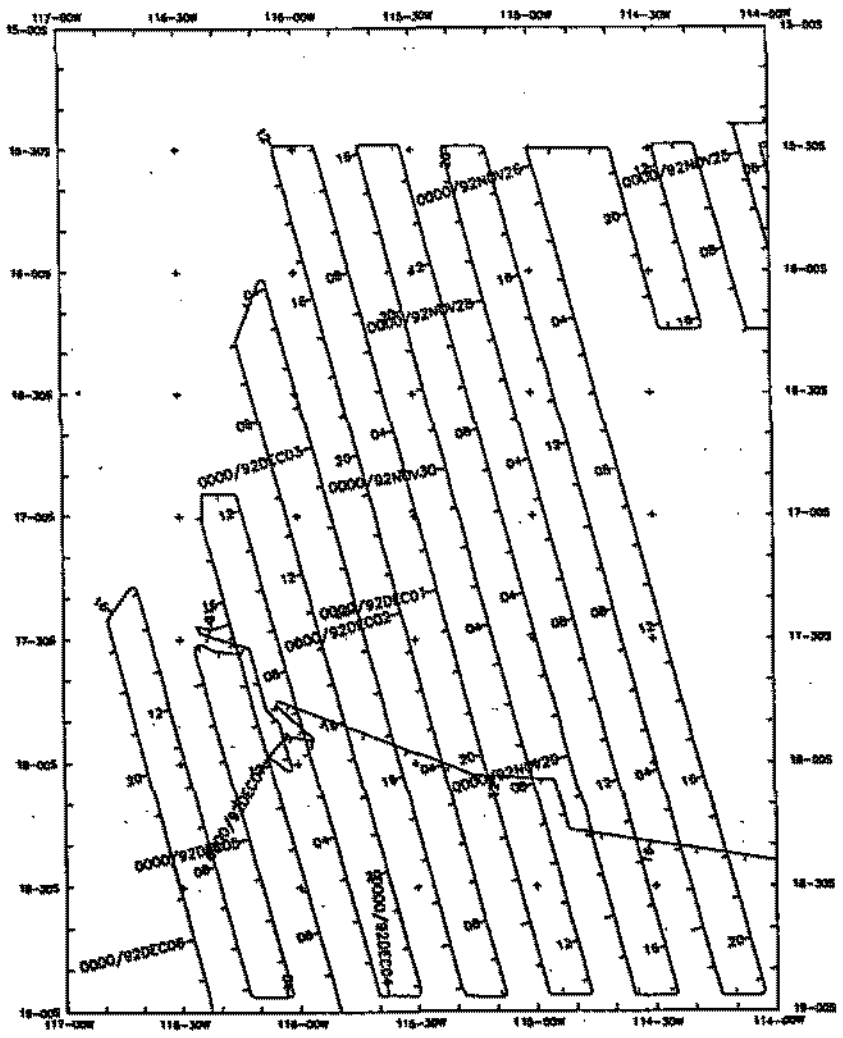

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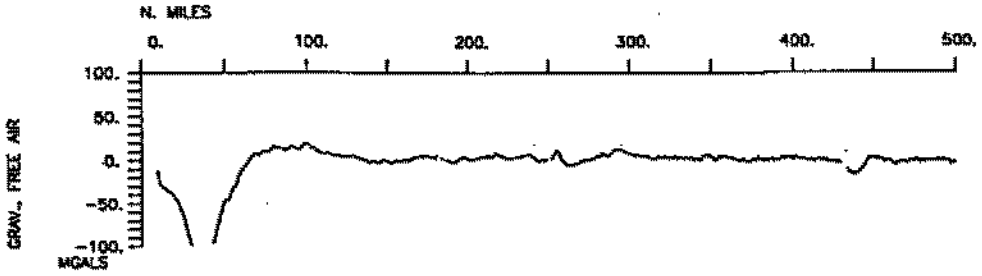
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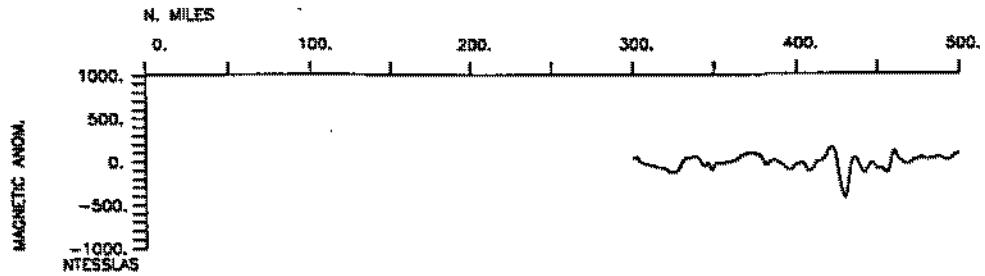
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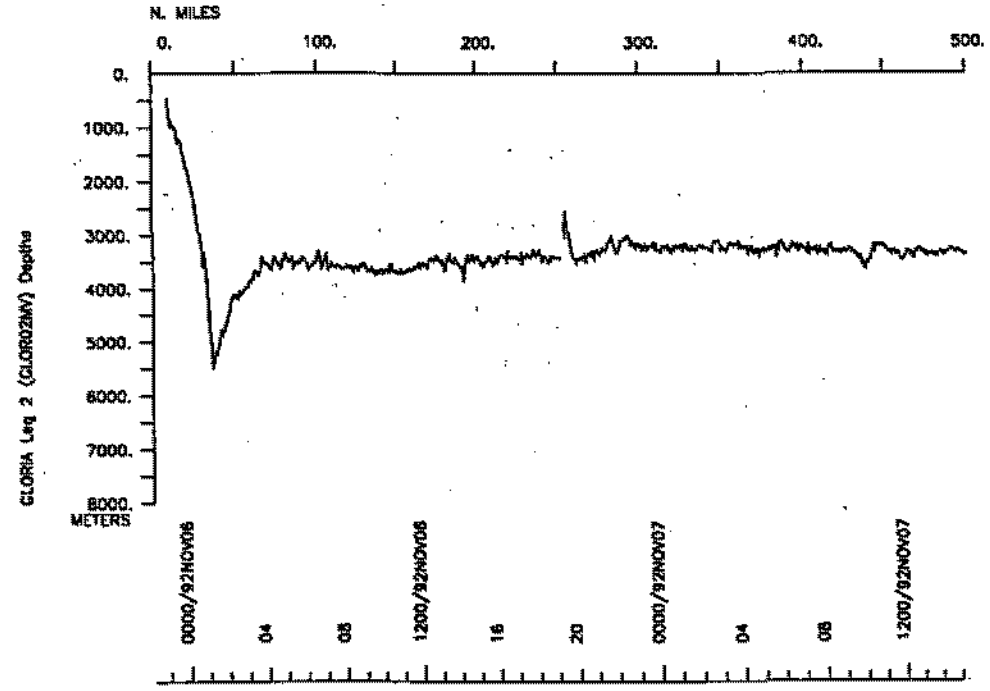
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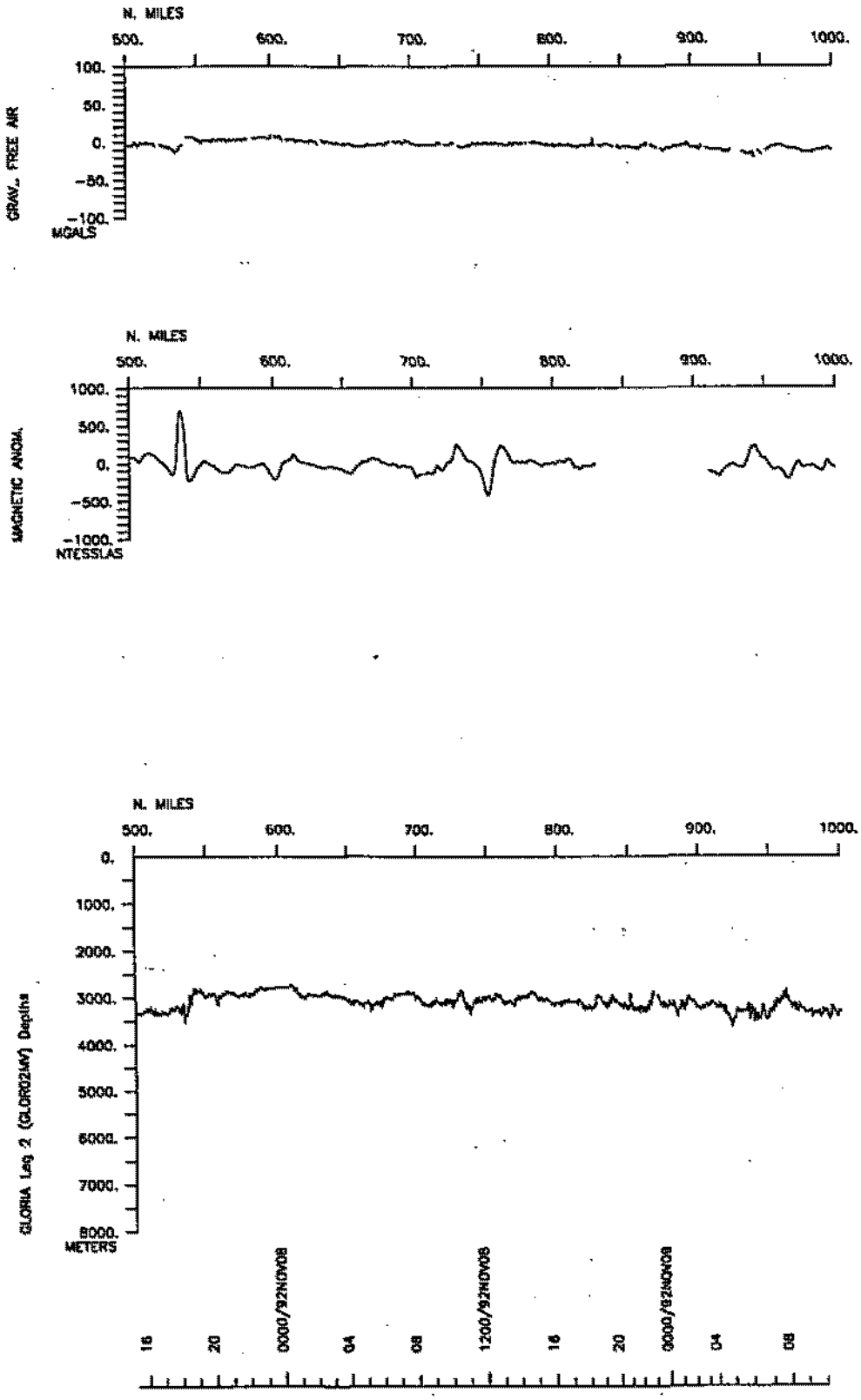
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MAGNETIC ANOM.
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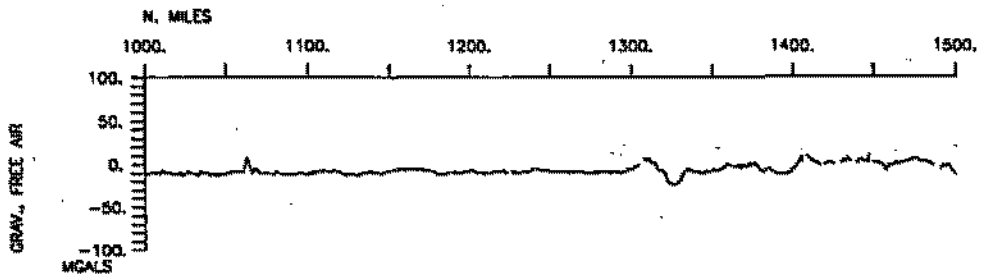
0000/92NOV09
04
08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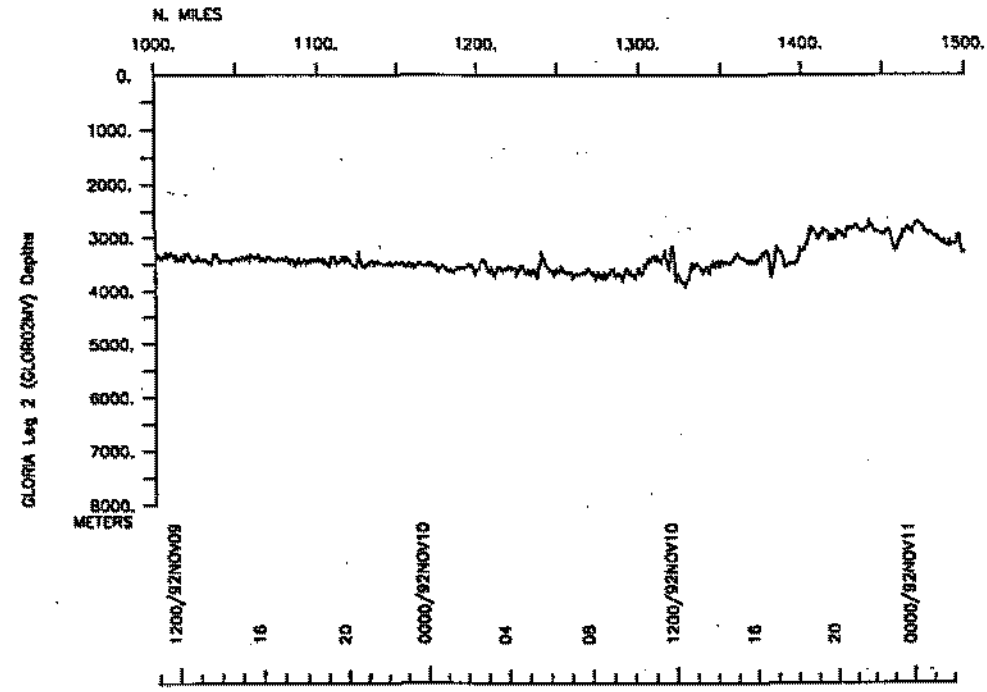
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08
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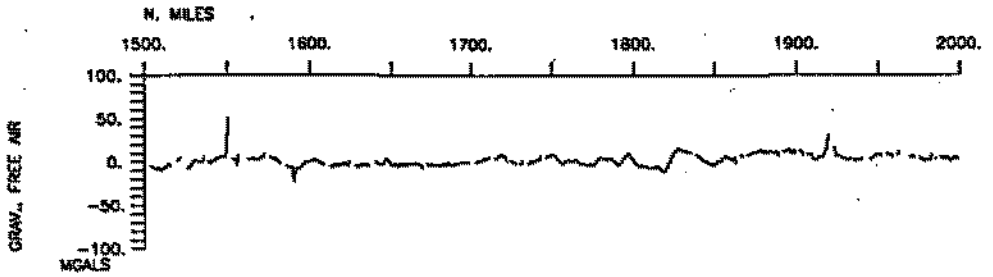
20
0000/92NOV11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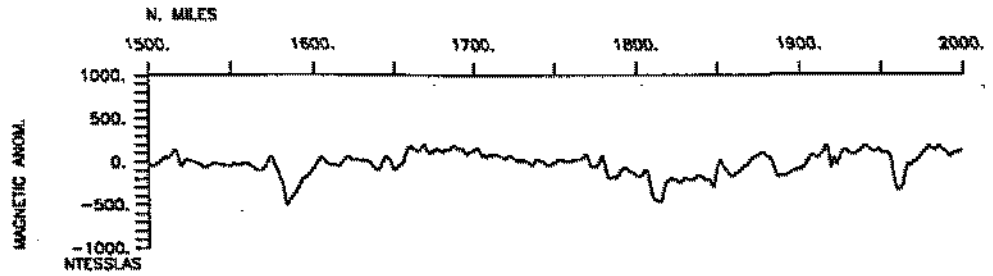
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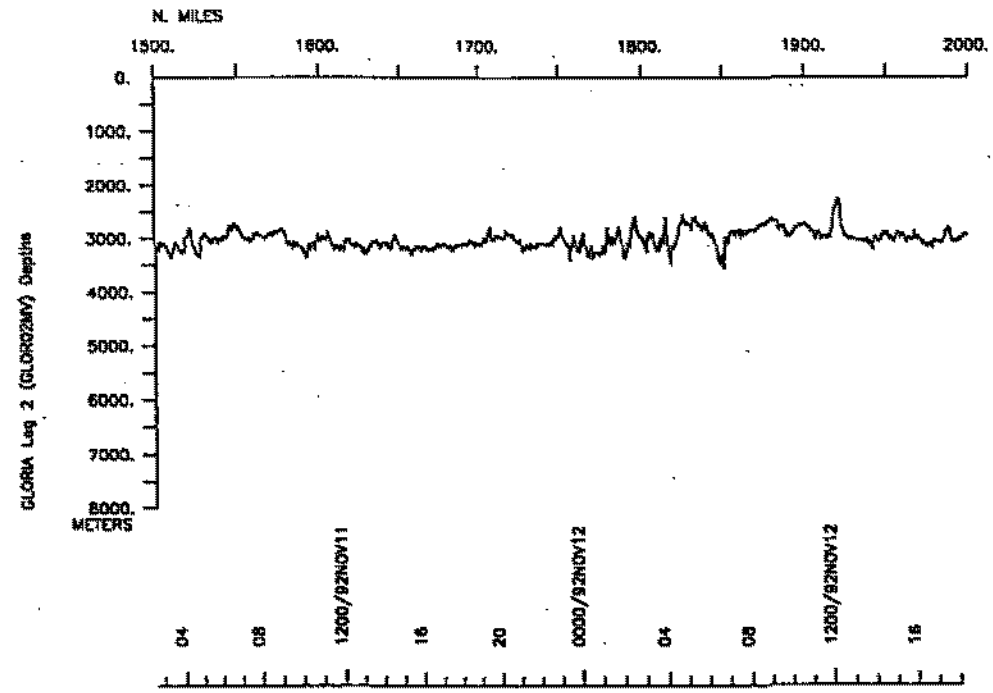
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04
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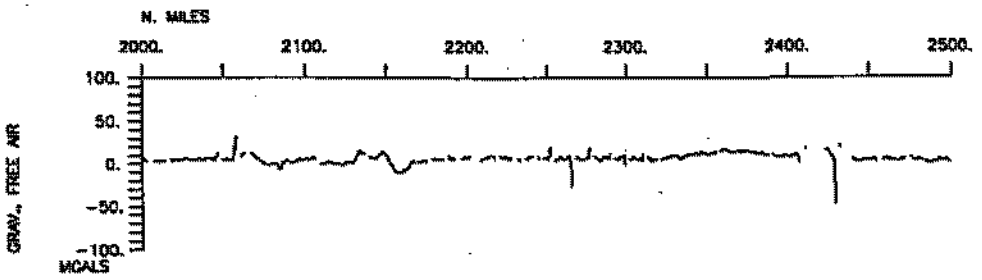
0000/92NOV12
04
08
1200/92NOV12
16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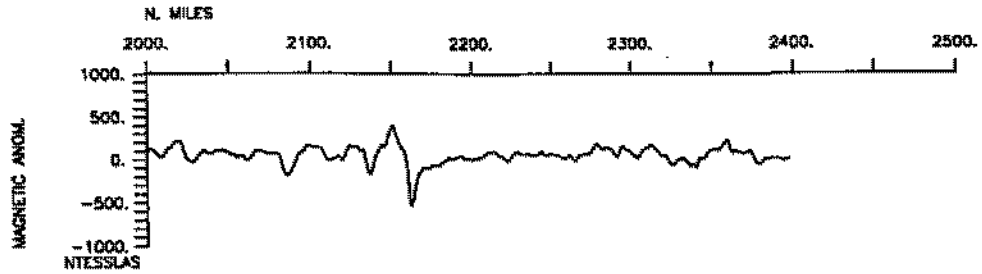
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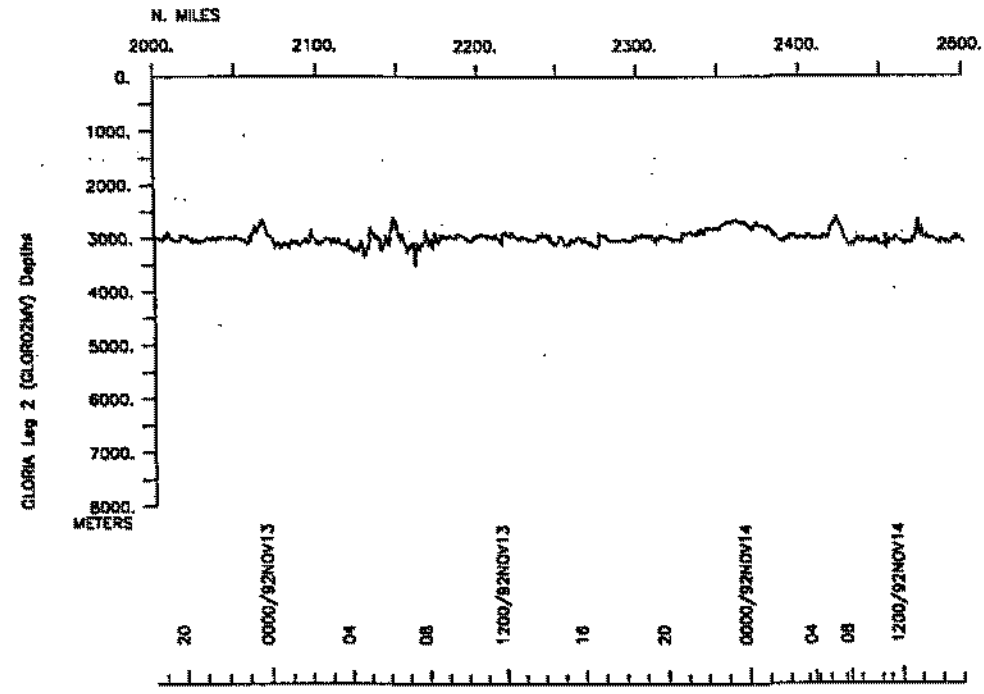
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GLORIA Leg 2 (GLOR02MV) Depths
20
0000/92NOV13
04
08
1200/92NOV13
16
20
0000/92NOV14
04
08
1200/92NOV14


N. MILES
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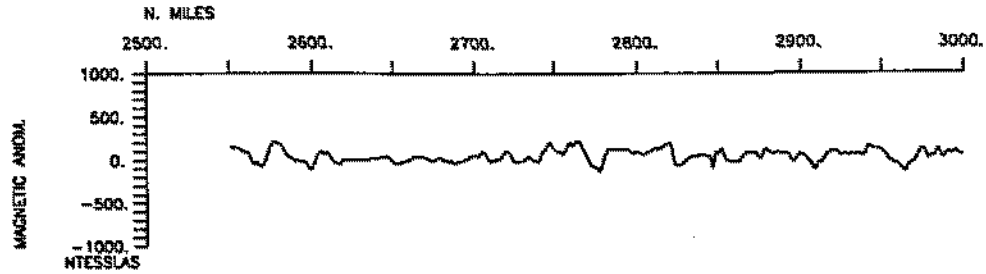
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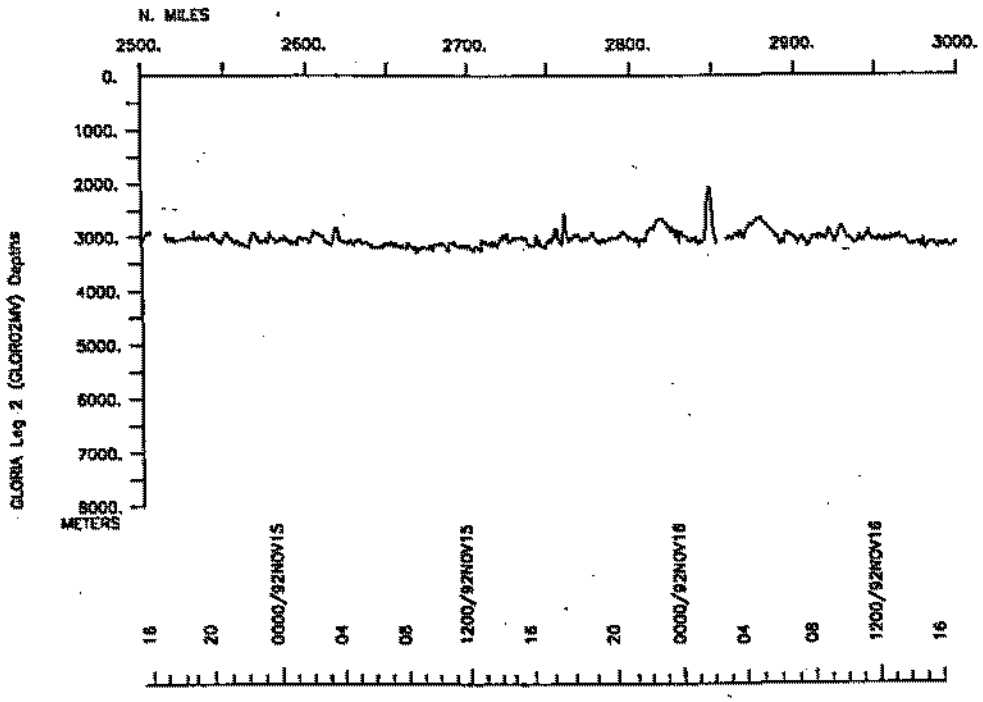
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METERS
GLORIA Leg 2 (GLORI02MV) Depths
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08
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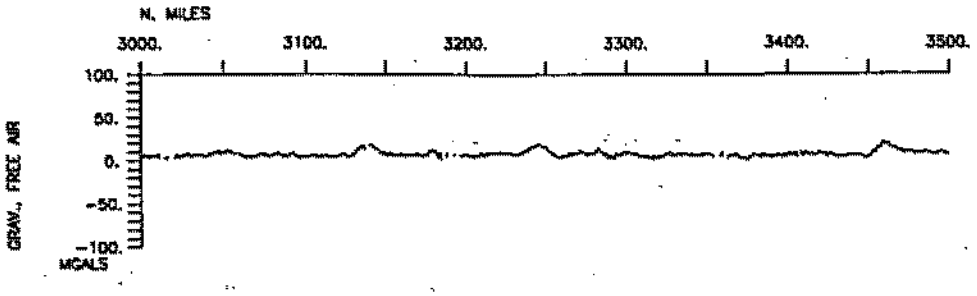
0000/92NOV16
04
08
1200/92NOV16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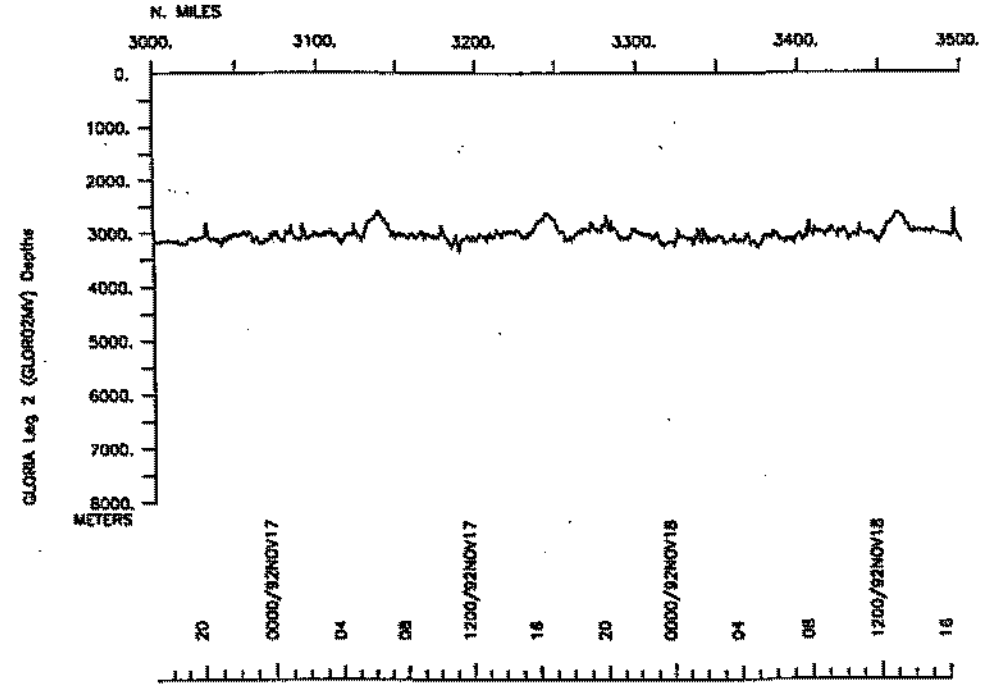
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8000.
METERS
GLORIA Leg 2 (GLOR02MV) Depths
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04
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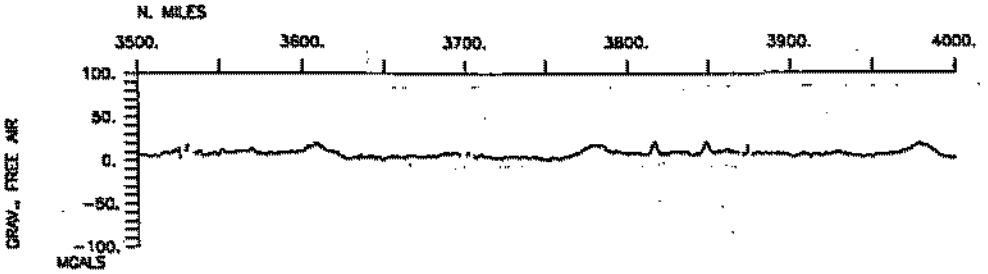
16
20
0000/92NOV18
04
08
1200/92NOV18
16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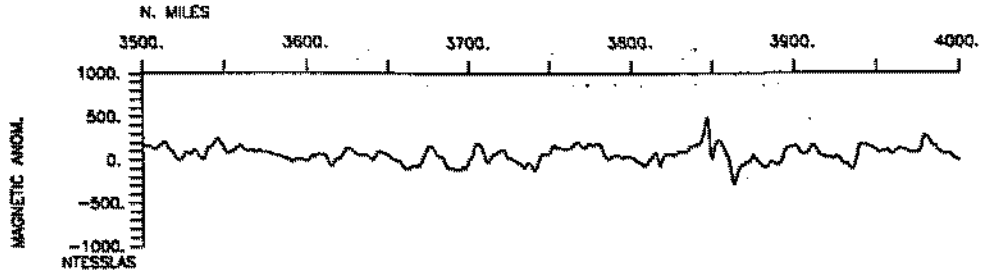
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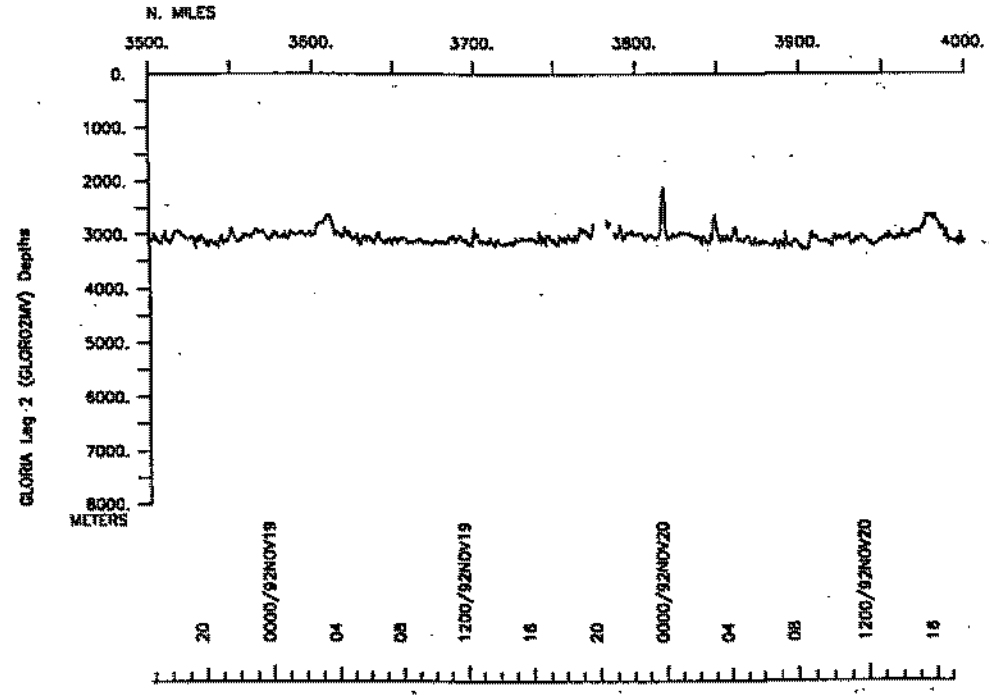
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METERS
GLORIA Leg 2 (GLOR02MV) Depths
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0000/92NOV19
04
08
1200/92NOV19
16
20
0000/92NOV20
04
08
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16


N. MILES
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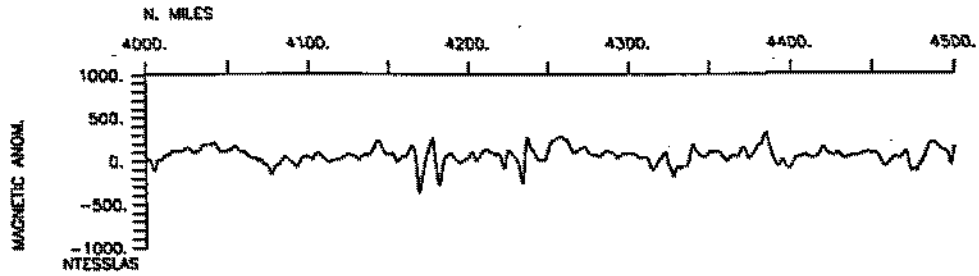
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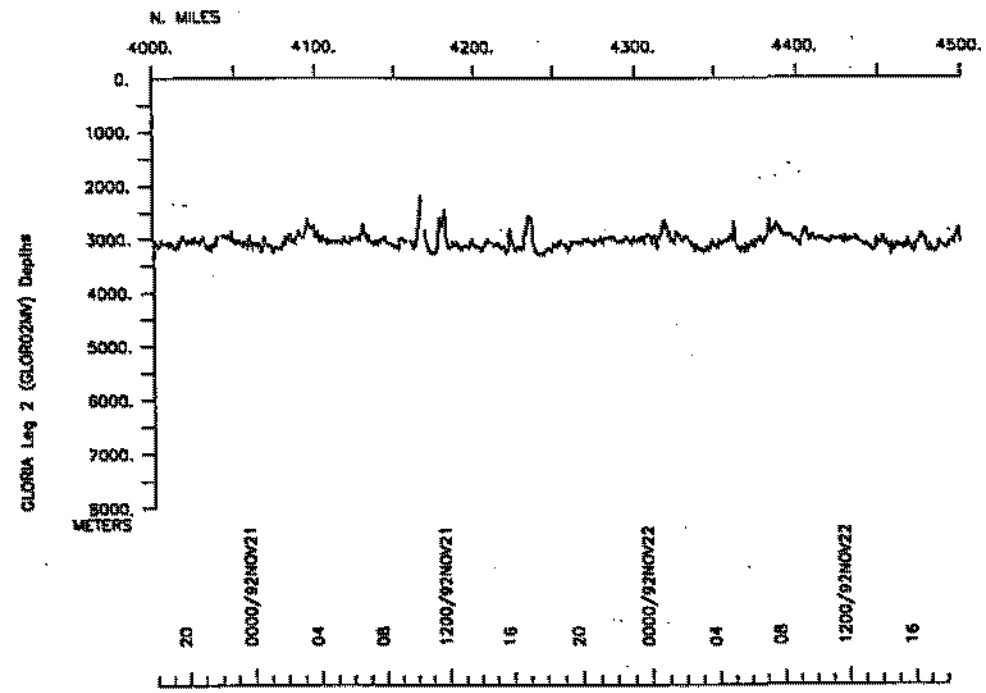
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METERS
GLORIA Leg 2 (GLOR02NW) Depths
20
0000/92NOV21
04
08
1200/92NOV21
16
20
0000/92NOV22
04
08
1200/92NOV22
16


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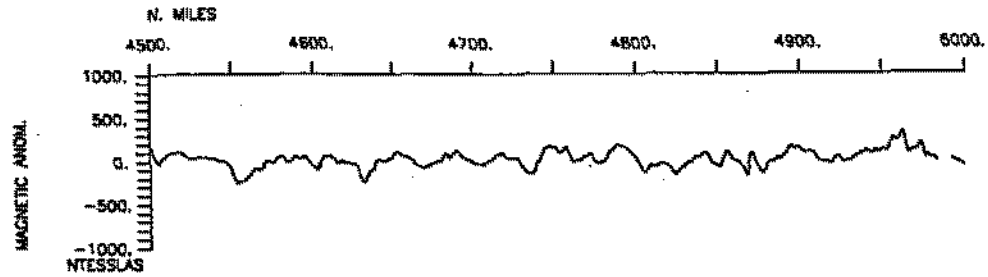
MGALS
GRAV., FREE AIR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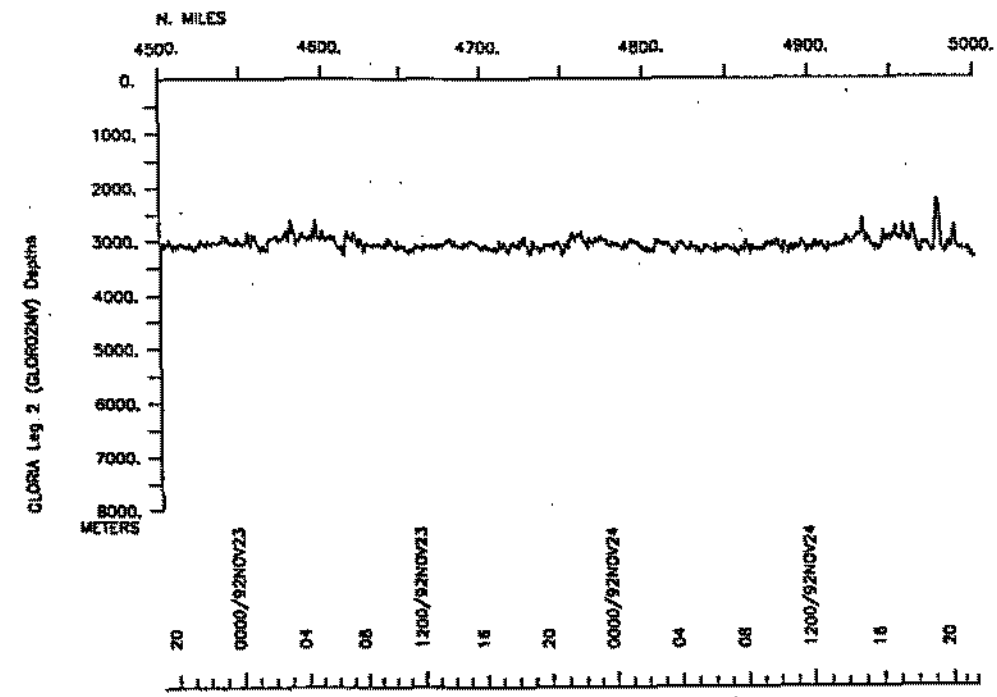
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7000.
8000.
METERS
CLORIA Leg 2 (GLORIZMV) Depths
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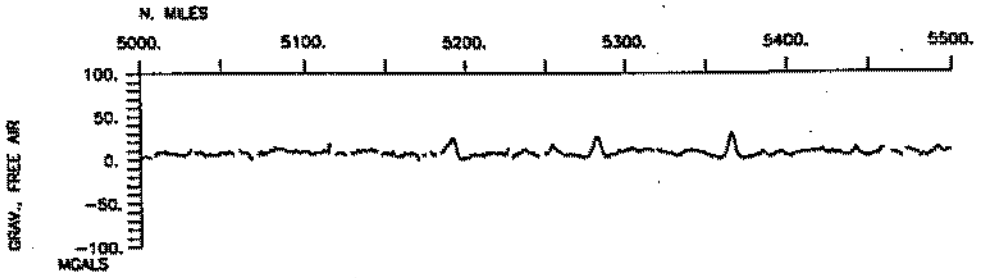
04
08
1200/92NOV24
16
20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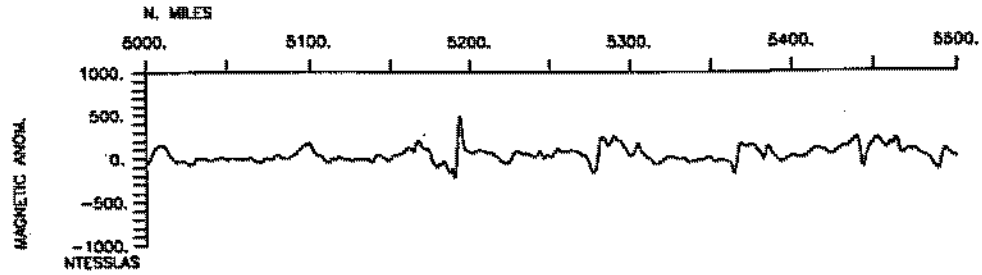
MGALS
GRAV., FREE AIR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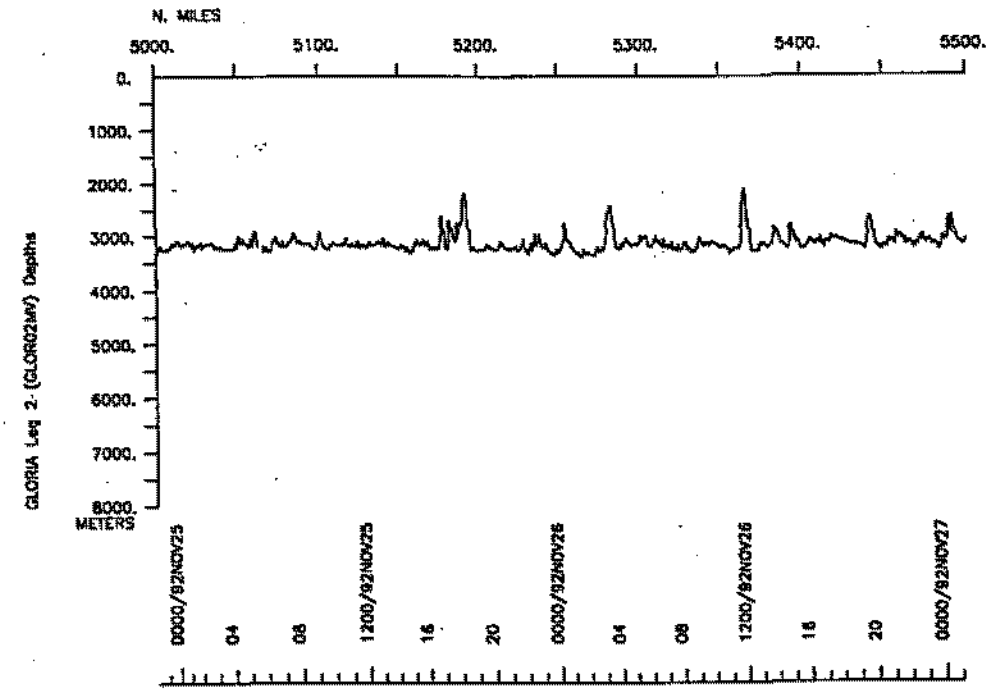
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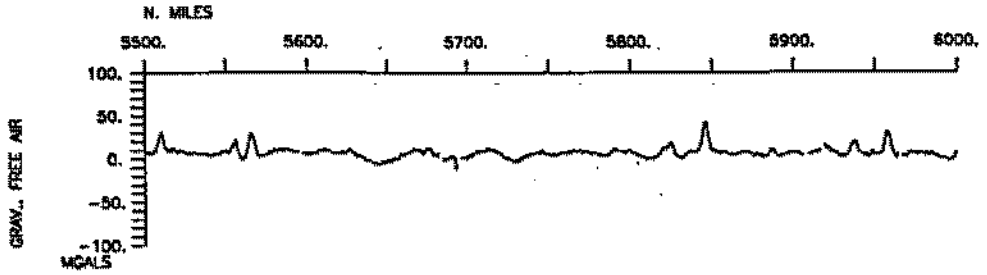
5200.
5300.
5400.
5500.
0.
1000.
2000.
3000.
4000.
5000.
6000.
7000.
8000.
METERS
GLORIA Leg 2 (GLOR02MV) Depths
0000/92NOV25
04
08
1200/92NOV25
16
20
0000/92NOV26
04
08
1200/92NOV26
16
20
0000/92NOV27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5600.
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5800.
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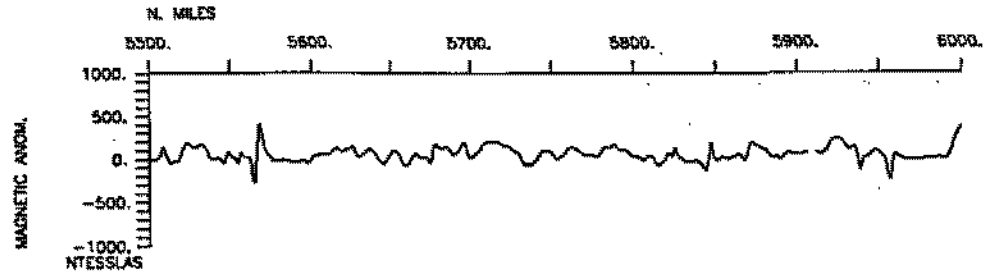
-100.
MGALS
GRAV., FREE AIR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5500.
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500.
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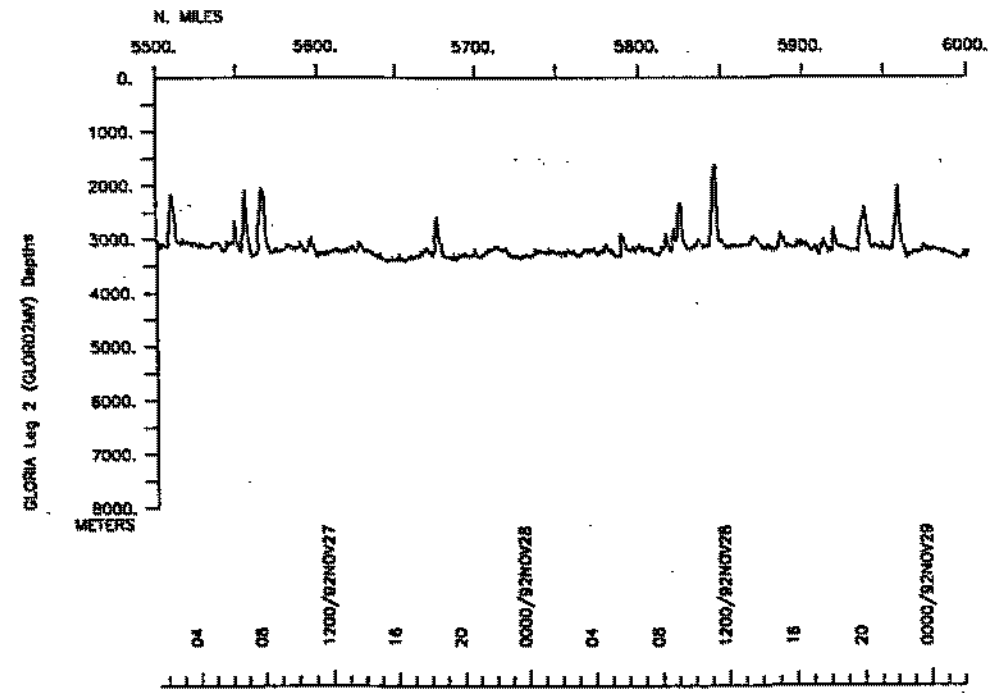
-500.
-1000.
NTESSLAS
MAGNETIC ANOM.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5500.
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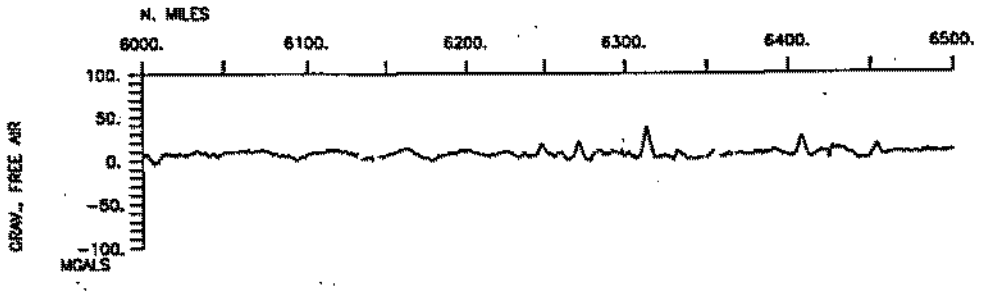
5800.
5900.
6000.
0.
1000.
2000.
3000.
4000.
5000.
6000.
7000.
8000.
METERS
GLORIA Leg 2 (GLOR02MV) Depths
04
08
1200/92NOV27
16
20
0000/92NOV28
04
08
1200/92NOV28
16
20
0000/92NOV29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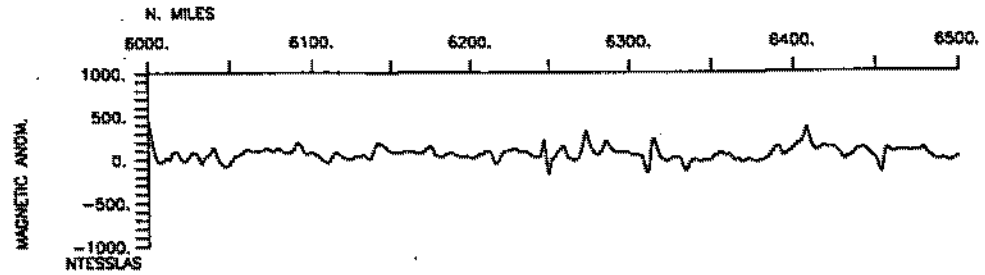
6200.
6300.
6400.
6500.
100.
50.
0.
-50.
-100.
MGALS
GRAV., FREE AIR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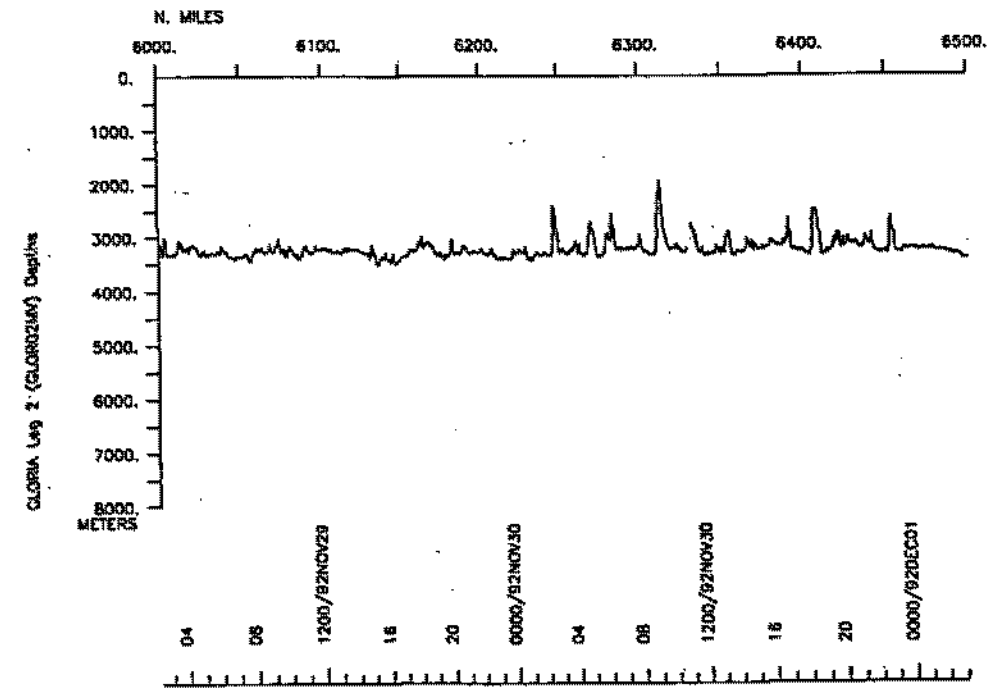
6500.
1000.
500.
0.
-500.
-1000.
NTESSLAS
MAGNETIC ANOM.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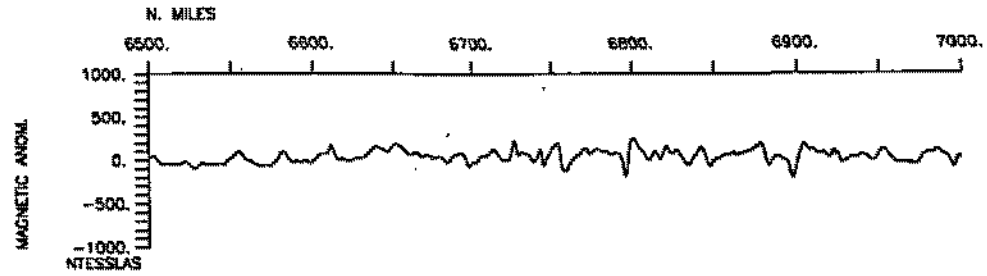
6000.
6100.
6200.
6300.
6400.
6500.
0.
1000.
2000.
3000.
4000.
5000.
6000.
7000.
8000.
METERS
GLORIA Leg 2 (GLORI02MV) Depths
04
08
1200/92NOV29
16
20
0000/92NOV30
04
08
1200/92NOV30
16
20
0000/92DEC01


N. MILES
6500.
6600.
6700.
6800.
6900.
7000.
100.
50.
0.
-50.
-100.
MGALS
GRAV., FREE AIR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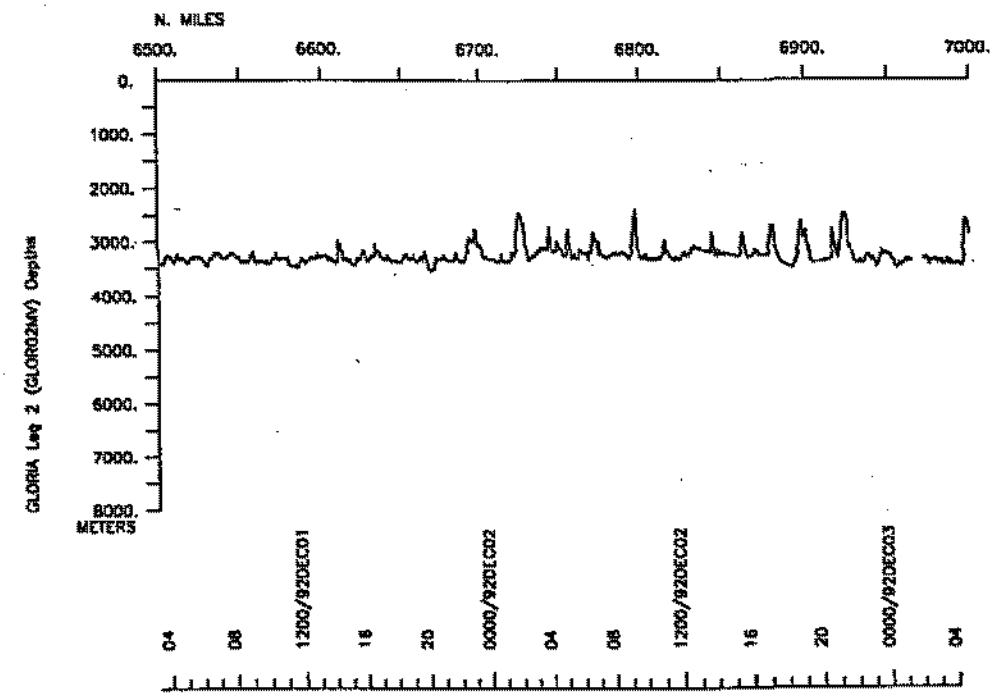
6500.
6600.
6700.
6800.
6900.
7000.
1000.
500.
0.
-500.
-1000.
NTESSLAS
MAGNETIC ANOM.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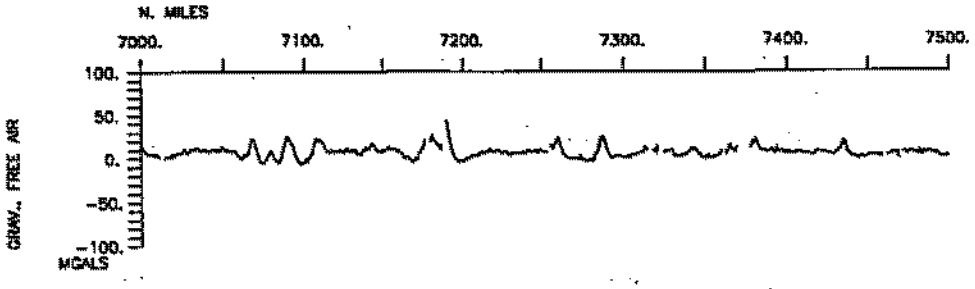
6500.
6600.
6700.
6800.
6900.
7000.
0.
1000.
2000.
3000.
4000.
5000.
6000.
7000.
8000.
METERS
GLORIA Leg 2 (GLOR02MV) Depths
04
08
1200/920EC01
16
20
0000/920EC02
04
08
1200/920EC02
16
20
0000/920EC03
04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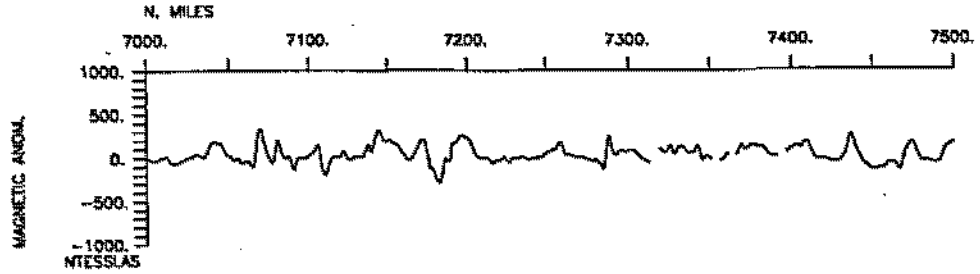
7300.
7400.
7500.
100.
50.
0.
-50.
-100.
MGALS
GRAV., FREE AIR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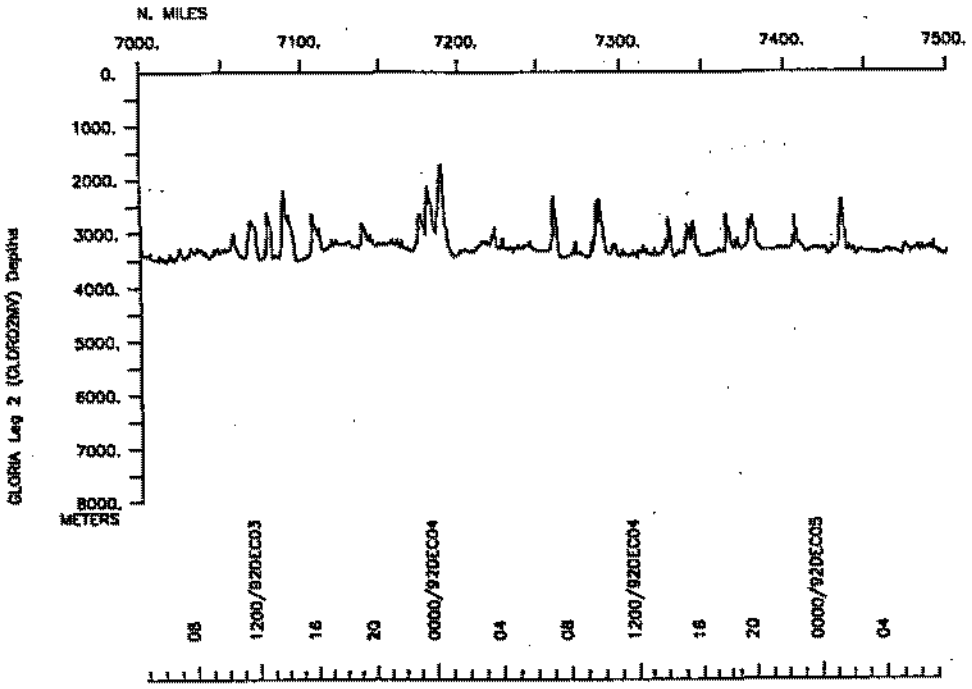
7100.
7200.
7300.
7400.
7500.
1000.
500.
0.
-500.
-1000.
NTESSLAS
MAGNETIC ANOM.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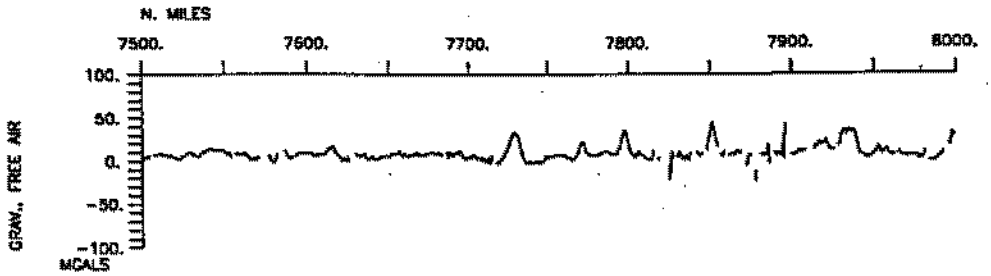
7100.
7200.
7300.
7400.
7500.
0.
1000.
2000.
3000.
4000.
5000.
6000.
7000.
8000.
METERS
GLORIA Leg 2 (0.DR02MV) Depths
08
1200/920EC03
16
20
0000/920EC04
04
08
1200/920EC04
16
20
0000/920EC05
04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7700.
7800.
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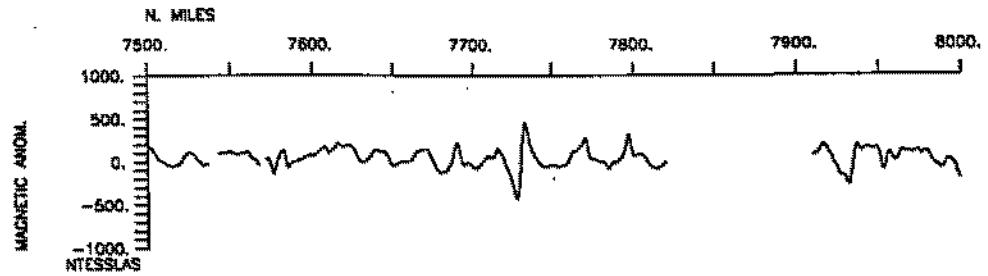
8000.
100.
50.
0.
-50.
-100.
MGALS
GRAV., FREE AIR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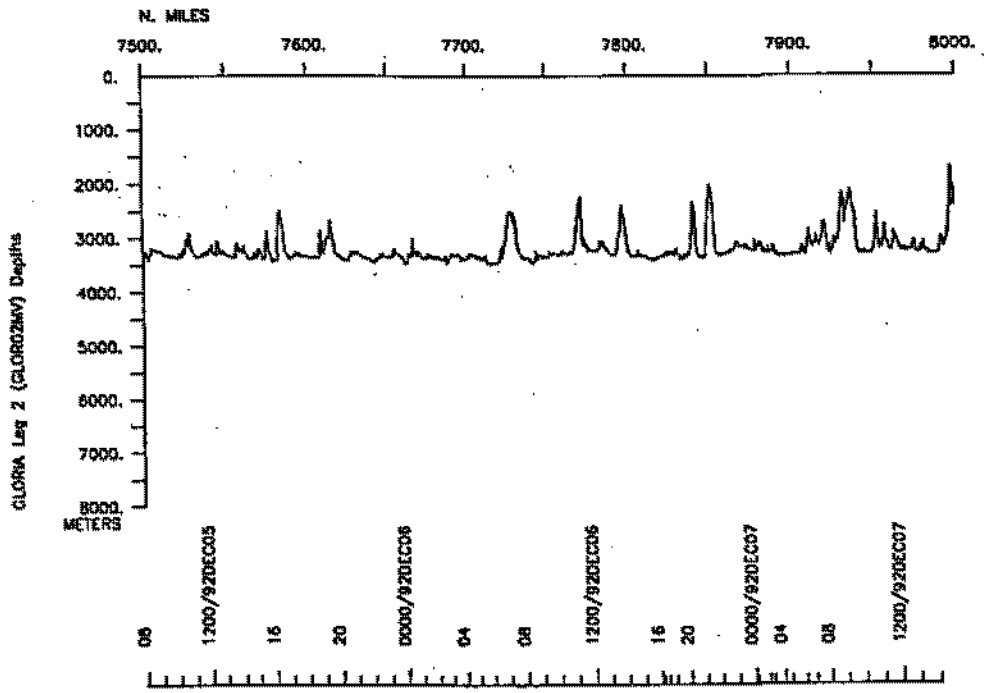
7700.
7800.
7900.
8000.
1000.
500.
0.
-500.
-1000.
NTESSLAS
MAGNETIC ANOM.


N. MILES
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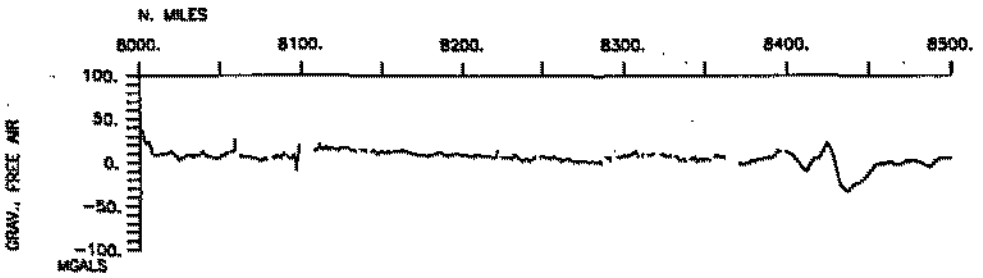
7600.
7700.
7800.
7900.
8000.
0.
1000.
2000.
3000.
4000.
5000.
6000.
7000.
8000.
METERS
GLORIA Leg 2 (GLOR02MV) Depths
05
1200/920EC05
15
20
0000/920EC06
04
08
1200/920EC06
16
20
0000/920EC07
04
08
1200/920EC07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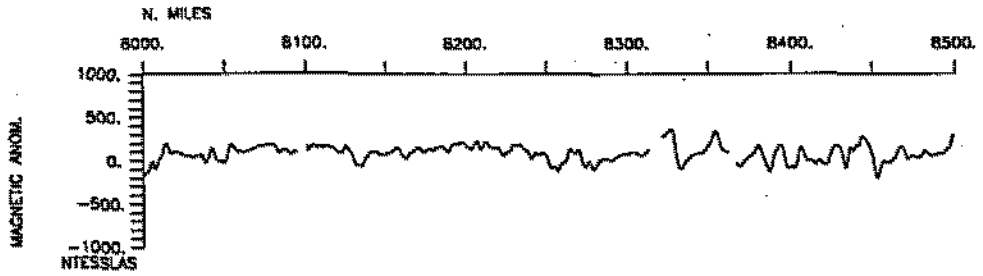
50.
0.
−50.
−100.
MGALS
GRAV., FREE AIR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8000.
8100.
8200.
8300.
8400.
8500.
1000.
500.
0.
−500.
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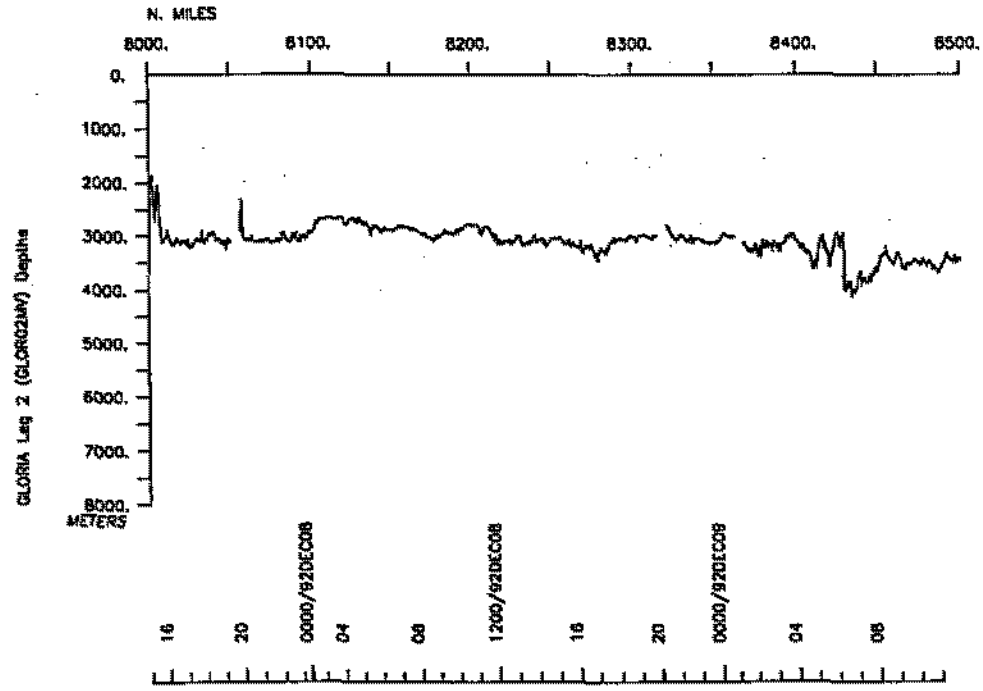
NTESSLAS
MAGNETIC ANOM.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8000.
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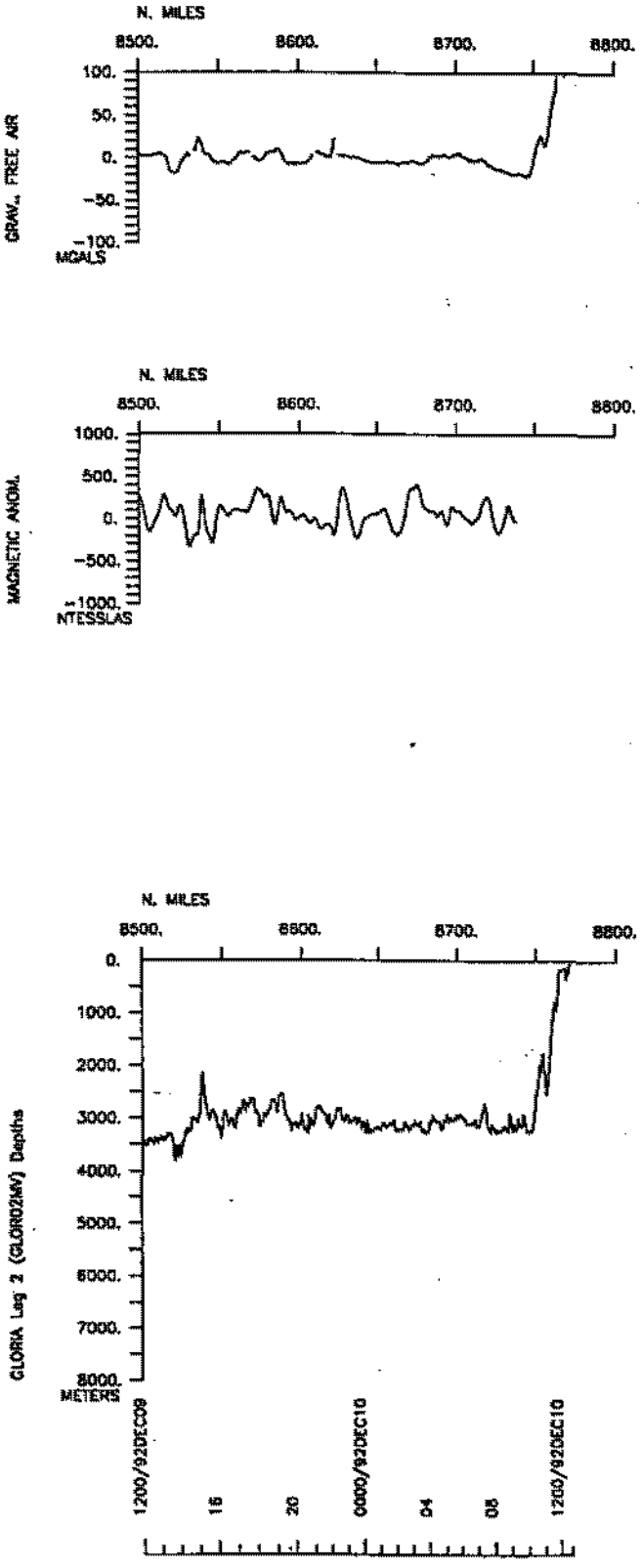
8200.
8300.
8400.
8500.
0.
1000.
2000.
3000.
4000.
5000.
6000.
7000.
8000.
METERS
GLORIA Leg 2 (GLOR02aW) Depths
16
20
0600/92DEC08
04
08
1200/92DEC08
16
20
0600/92DEC09
04
08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8500.
8600.
8700.
8800.
GRAV., FREE AIR
100.
50.
0.
-50.
-100.
MGALS
N. MILES
8500.
8600.
8700.
8800.
MAGNETIC ANOM.
1000.
500.
0.
-500.
-1000.
NTESSLAS
N. MILES
8500.
8600.
8700.
8800.
GLORIA Leg 2 (GLOR02NW) Depths
0.
1000.
2000.
3000.
4000.
5000.
6000.
7000.
8000.
METERS
1200/920EC09
16
20
0000/920EC10
04
08
1200/920EC10

S.I.O. SAMPLE INDEX

(Issued March 1993)

GLORIA EXPEDITION

Leg 2

R/V Melville

Acapulco, Mexico (5 November 1992)
to
Easter Island (10 December 1992)

Chief Scientist:

Ken Macdonald (Univ. of Calif., Santa Barbara)

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 further computer searches on these parameters. (Listings defining these codes are available from the Geological Data Center.)

GDC Cruise I.D.# 261

```
*** Ports ***

2200 051192          LGPT B Acapulco, Mexico     16-51.00N  99-56.00W f GLOR02MV
1230 101292          LGPT E Easter Island, Chile 27-09.00S 109-27.00W f GLOR02MV


#*** Personnel ***
#          ********NAME******** ******TITLE******  *****AFFILIATION**** **CRID**
#--- ---- ---------------------- ------------------ --------------------- --------

PECS UCS  Macdonald,K.          Chief Scientist    UC Santa Barbara      GLOR02MV
PERT STS  Wilson,R.             Resident Tech      Scripps Institution   GLOR02MV
PECT STS  Moore,M.              Computer Tech      Scripps Institution   GLOR02MV
PEBE STS  Skinner,J.            Seabeam eng        Scripps Institution   GLOR02MV
PEST UCS  Alexander,R.          Student            UC Santa Barbara      GLOR02MV
PESP UCS  Atwater,T.            Professor          UC Santa Barbara      GLOR02MV
PEST UCS  Beedle,N.             Student            UC Santa Barbara      GLOR02MV
PESP UHI  Erickson,J.           Engineer           University of Hawaii  GLOR02MV
PESP UCS  Feldman,K.            Volunteer          UC Santa Barbara      GLOR02MV
PESP UCS  Johnson,D.            Technician         Hawaii Inst.of Geoph  GLOR02MV
PEXN SIX  Korenaga,J.           Observer           University of Tokyo   GLOR02MV
PESP UCS  Miller,S.             Specialist         UC Santa Barbara      GLOR02MV
PESP UHI  Mueller,T.            Technician         University of Hawaii  GLOR02MV
PESP UCS  Padgett,A.            Cartographer       UC Santa Barbara      GLOR02MV
PESP UHI  Petersen,L.           Technicain         University of Hawaii  GLOR02MV
PEXN SIX  Sayanagi,K.           Observer           University of Tokyo   GLOR02MV
PEST UCS  Scheirer,D.           Student            UC Santa Barbara      GLOR02MV
PEST SIX  Shen,Y.               Student            Brown University      GLOR02MV
PESP UHI  Valanciano,M.         Electronic Tech    University of Hawaii  GLOR02MV
PEST UCS  Weiland,C.            Student            UC Santa Barbara      GLOR02MV
PEST UCS  Wright,D.             Student            UC Santa Barbara      GLOR02MV


#*** 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 #TIME DATE	TZ	SAMP CODE	B E	SAMPLE IDENTIFIER	DISP CODE	LATITUDE	LONGITUDE	p c	CRUISE LEG-SHIP
#*** Underway Data Curator - S. M. Smith ext. 42752 ***									
#*** Log Books ***									
2204 051192	0	LBUW	B	Underway watch log	GDC	16-50.69N	99-53.96W	g	GLOR02MV
1230 101292	0	LBUW	E	Underway watch log	GDC	27-12.14S	109-23.46W	g	GLOR02MV
2258 051192	0	LBSC	B	UCSB ops log	UCSB	16-43.17N	99-57.06W	g	GLOR02MV
1625 181192	0	LBSC	E	UCSB ops log	UCSB	17-40.94S	112-58.23W	g	GLOR02MV
1625 181192	0	LBSC	B	UCSB ops log	UCSB	17-40.94S	112-58.23W	g	GLOR02MV
2045 031292	0	LBSC	E	UCSB ops log	UCSB	18-33.12S	115-35.92W	g	GLOR02MV
2100 031292	0	LBSC	B	UCSB ops log	UCSB	18-35.37S	115-35.31W	g	GLOR02MV
1230 101292	0	LBSC	E	UCSB ops log	UCSB	27-12.14S	109-23.46W	g	GLOR02MV
#*** Sea Beam Records (vertical beam and side scan) ***									
2258 051192	0	MBSR	B	v.beam&sidescan r-01	GDC	16-43.17N	99-57.06W	g	GLOR02MV
0300 141192	0	MBSR	E	v.bean&sidescan r-01	GDC	17-14.78S	113-03.14W	g	GDCR02MV
0319 141192	0	MBSR	B	v.beam&sidescan r-02	GDC	17-14.79S	113-04.05W	g	GLOR02MV
1634 181192	0	MBSR	E	v.beam&sidescan r-02	GDC	17-42.48S	112-57.82W	g	GLOR02MV
1640 181192	0	MBSR	B	v.beam&sidescan r-03	GDC	17-43.49S	112-57.54W	g	GLOR02MV
1548 041292	0	MBSR	E	v.beam&sidescan r-03	GDC	17-18.58S	116-19.16W	g	GLOR02MV
1603 041292	0	MBSR	B	v.beam&sidescan r-04	GDC	17-21.15S	116-18.45W	g	GLOR02MV
1230 101292	0	MBSR	E	v.beam&sidescan r-04	GDC	27-12.14S	109-23.46W	g	GLOR02MV
#*** Seamarc II (mapping system) ***									
1817 141192	0	MBSM	B	Seamarc II	UCSB	17-44.62S	113-27.43W	g	GLOR02MV
1422 151192	0	MBSM	E	Seamarc II	UCSB	16-18.50S	113-42.32W	g	GLOR02MV
2143 151192	0	MBSM	B	Seamarc II	UCSB	17-41.08S	113-19.70W	g	GLOR02MV
1731 061292	0	MBSM	E	Seamarc II	UCSB	17-27.15S	116-23.19W	g	GLOR02MV

#GMT TIME	DDMMYY DATE	TZ	SAMP CODE	B E	SAMPLE IDENTIFIER	DISP CODE	LATITUDE	LONGITUDE	p c	CRUISE LEG-SHIP
#*** Echo Sounder Records ***										
2205	271192	0	DPR3	B	3.5khz epc r-01	GDC	15-48.66S	115-16.77W	g	GLOR02MV
1026	281192	0	DPR3	E	3.5khz epc r-01	GDC	17-48.81S	114-43.32W	g	GLOR02MV
1030	281192	0	DPR3	B	3.5khz epc r-02	GDC	17-49.47S	114-43.15W	g	GLOR02MV
0946	301192	0	DPR3	E	3.5khz epc r-02	GDC	18-22.15S	114-55.68W	g	GLOR02MV
0955	301192	0	DPR3	B	3.5khz epc r-03	GDC	18-23.53S	114-55.25W	g	GLOR02MV
1758	011292	0	DPR3	E	3.5khz epc r-03	GDC	16-25.19S	115-49.76W	g	GLOR02MV
1816	011292	0	DPR3	B	3.5khz epc r-04	GDC	16-28.12S	115-49.03W	g	GLOR02MV
1500	031292	0	DPR3	E	3.5khz epc r-04	GDC	17-40.65S	115-50.95W	g	GLOR02MV
1509	031292	0	DPR3	B	3.5khz epc r-05	GDC	17-42.02S	115-50.54W	g	GLOR02MV
1227	051292	0	DPR3	E	3.5khz epc r-05	GDC	17-43.06S	116-33.70W	g	GLOR02MV
1236	051292	0	DPR3	B	3.5khz epc r-06	GDC	17-41.54S	116-34.07W	g	GLOR02MV
1956	061292	0	DPR3	E	3.5khz epc r-06	GDC	17-31.34S	116-14.03W	g	GLOR02MV
#*** Magnetics (Earth Total Field) Records ***										
1514	061192	0	MGRA	B	magnetics r-01	GDC	13-45.20N	101-21.31W	g	GLOR02MV
0025	131192	0	MGRA	E	magnetics r-01	GDC	12-32.03S	110-59.32W	g	GLOR02MV
0032	131192	0	MGRA	B	magnetics r-02	GDC	12-32.97S	111-00.47W	g	GLOR02MV
1828	221192	0	MGRA	E	magnetics r-02	GDC	17-01.93S	112-31.78W	g	GLOR02MV
1830	221192	0	MGRA	B	magnetics r-03	GDC	17-01.61S	112-31.87W	g	GLOR02MV
0300	251192	0	MGRA	E	magnetics r-03	GDC	15-54.47S	114-00.18W	g	GLOR02MV
0305	251192	0	MGRA	B	magnetics r-04	GDC	15-55.29S	113-59.98W	g	GLOR02MV
1420	061292	0	MGRA	E	magnetics r-04	GDC	17-37.65S	116-13.62W	g	GLOR02MV
1425	061292	0	MGRA	B	magnetics r-05	GDC	17-36.81S	116-13.83W	g	GLOR02MV
0919	101292	0	MGRA	E	magnetics r-05	GDC	26-53.12S	109-48.35W	g	GLOR02MV

#GMT DDMMYY #TIME DATE	TZ	SAMP B SAMPLE CODE E IDENTIFIER	DISP CODE	LATITUDE	LONGITUDE	p c	CRUISE LEG-SHIP
#*** Ocean Bottom Seismographs ***							
0336 141192	0	SBOB B Stie 1; Obs. 6	LMD	17-13.99S	113-04.82W	g	GLOR02MV
1230 101292	0	SBOB C Stie 1, Obs. 6	LMD	27-12.14S	109-23.46W	g	GLOR02MV
0722 141192	0	SBOB B Stie 2, Obs. 5	LMD	17-16.49S	113-16.28W	g	GLOR02MV
1230 101292	0	SBOB C Stie 2, Obs. 5	LMD	27-12.14S	109-23.46W	g	GLOR02MV
1032 141192	0	SBOB B Site 3, Obs. 4	LMD	17-18.58S	113-38.35W	g	GLOR02MV
1230 101292	0	SBOB C Site 3, Obs. 4	LMD	27-12.14S	109-23.46W	g	GLOR02MV
1540 141192	0	SBOB B Site 4a, Obs. 9	LMD	18-04.73S	113-23.52W	g	GLOR02MV
1541 141192	0	SBOB E Site 4a, Obs. 9	LMD	18-04.71S	113-23.54W	g	GLOR02MV
0027 071292	0	SBOB B Site 5, Obs. 8	LMD	17-58.40S	116-07.33W	g	GLOR02MV
1230 101292	0	SBOB C Site 5, Obs. 8	LMD	27-12.14S	109-23.46W	g	GLOR02MV
0201 071292	0	SBOB B Site 6, Obs. 12	LMD	17-52.94S	116-02.67W	g	GLOR02MV
1230 101292	0	SBOB C Site 6, Obs. 12	LMD	27-12.14S	109-23.46W	g	GLOR02MV
0344 071292	0	SBOB B Site 8, Obs. 14	LMD	17-54.38S	115-56.02W	g	GLOR02MV
1230 101292	0	SBOB C Site 8, Obs. 14	LMD	27-12.14S	109-23.46W	g	GLOR02MV
0616 071292	0	SBOB B Site 7, Obs. 3	LMD	17-46.94S	116-05.41W	g	GLOR02MV
1230 101292	0	SBOB C Site 7, Obs. 3	LMD	27-12.14S	109-23.46W	g	GLOR02MV
0202 081292	0	SBOB B Site 4b, Obs. 9	LMD	18-04.71S	113-23.48W	g	GLOR02MV
1230 101292	0	SBOB C Site 4b, Obs. 9	LMD	27-12.14S	109-23.46W	g	GLOR02MV
#*** Expendable Bathythermographs ***							
2200 051192	0	BTXP 25 xbts for svp	GDC	16-50.70N	99-53.94W	g	GLOR02MV
#*** Continuous Recorded Gravity ***							
2200 051192	0	GVCR B gravity	GDC	16-50.70N	99-53.94W	g	GLOR02MV
1230 101292	0	GVCR E gravity	GDC	27-12.14S	109-23.46W	g	GLOR02MV
#		End Sample Index					GLOR02MV