

INFORMAL REPORT AND INDEX OF
NAVIGATION, DEPTH, MAGNETIC AND SUBBOTTOM PROFILER DATA
(Issued November 1986)

ICE EXPEDITION

LEG 5

Punta Arenas, Chile (7 April 1986)
to
San Diego, California (2 May 1986)

R/V Melville

Computer Technician - G. Bouchard

Post-Cruise Processing and Report Preparation
by S.I.O. Geological Data Center

Data Collection Funded by NSF Grant Number OCE83-17741
Bathymetry Collection and Processing funded by
NGDC Contract 50RANE600049

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.

GDC Cruise I.D.# 223

INFORMAL REPORT AND INDEX OF NAVIGATION, DEPTH,
MAGNETIC AND SUBBOTTOM PROFILER DATA

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.

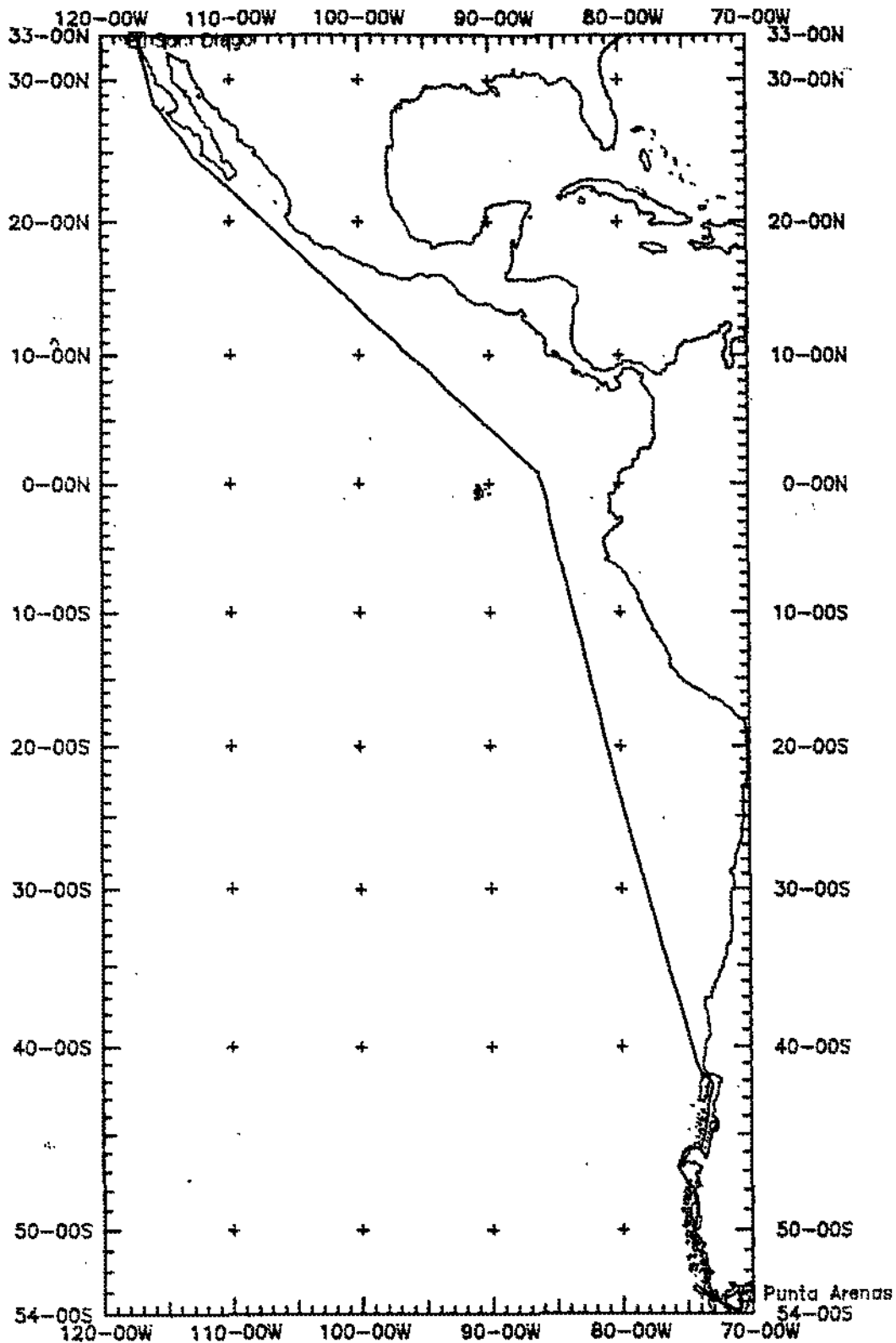
Profiles - depth and magnetic anomaly vs. distance. Sections of track having subbottom profiles (airgun or watergun) records have a wide black line along the bottom of the profile. Sections having Sea Beam are indicated by a narrow black line.

Sample Index - list of beginning and 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.

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. Phone (619)534-2752:

1. Navigation listing with times and positions of course and speed changes, fixes and drift velocity.
2. Depth compilation plots - compilation plots at the traditional scale of 4in/degree longitude (1:1,000,000) are no longer produced for Sea Beam cruises. Custom plots may be requested of vertical beam (2 $\frac{2}{3}$ degree beam width) depths retrieved at one minute intervals of ship time.
3. Plots of magnetic anomaly profiles along track - custom plots at various map and profile scales on Mercator projection may be requested from values retrieved at approximately 1 mile spacing with the IGRF regional field removed.
4. Separate time series files of navigation, depth and magnetics as well as these data merged in the MGD77 Exchange format on magnetic tape.
5. Microfilm or Xerox copies of:
 - a. Echosounder records - 12 and 3.5 kHz frequency
 - b. Subbottom profiler records (air or water guns)
 - c. Magnetometer records
 - d. Underway data log

Revised October 1986



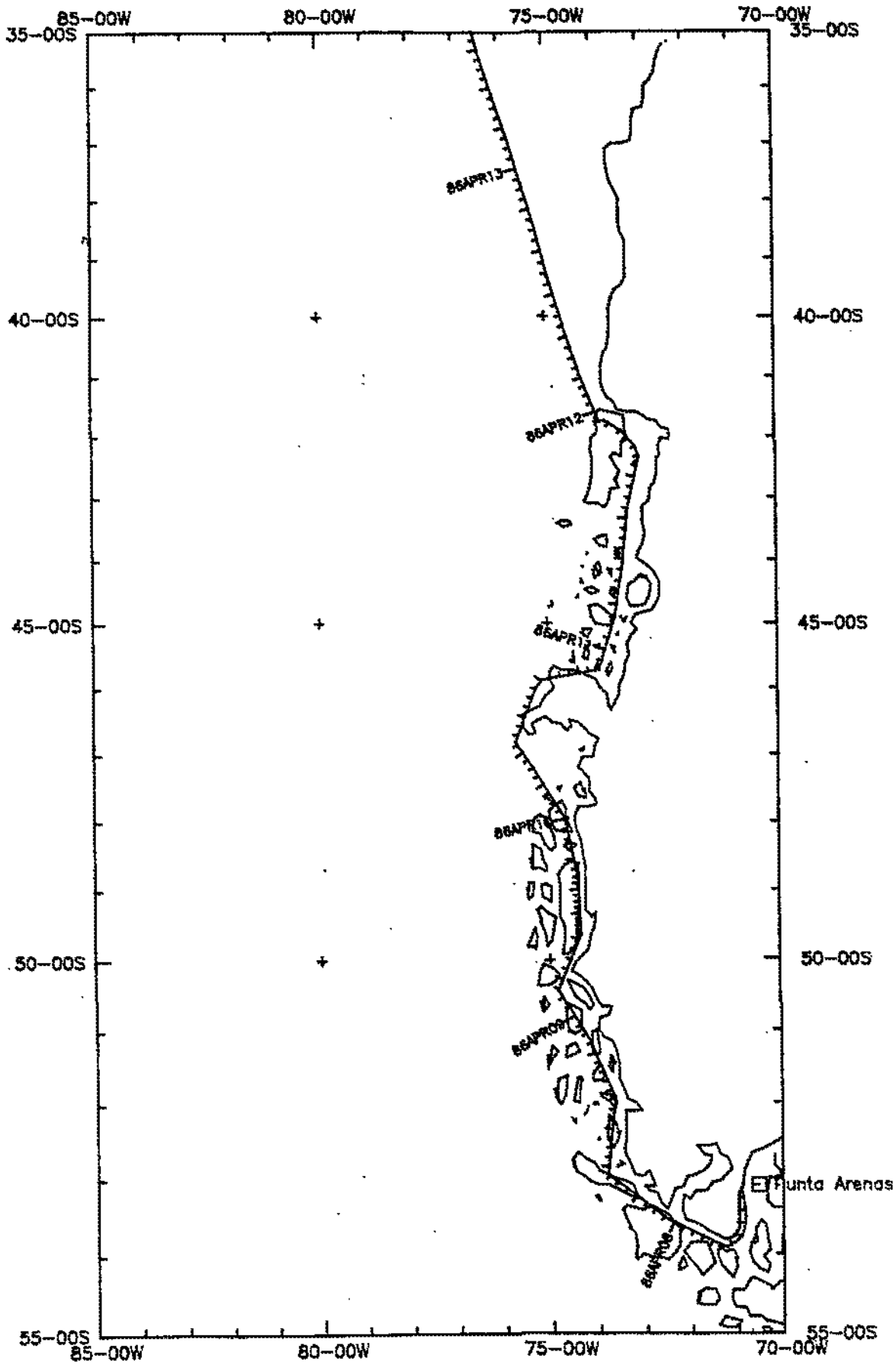
ICE LEG 05 Track at .08in/degree

ICE EXPEDITION
LEG 5

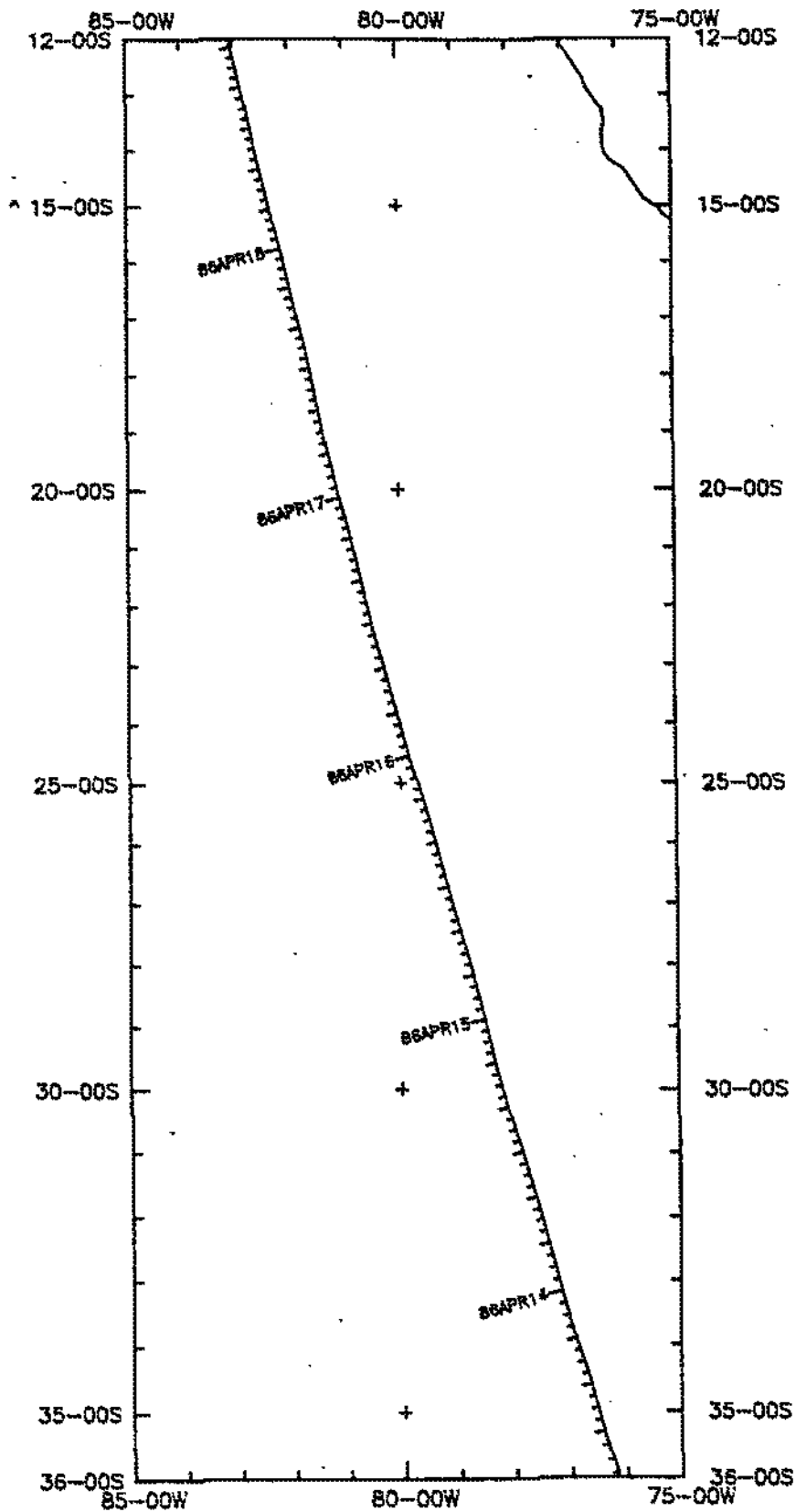
COMPUTER TECH: G. Bouchard
 PORTS: Punta Arenas, Chile - San Diego, Calif.
 DATES: 7 April - 2 May 1986
 SHIP: R/V Melville

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

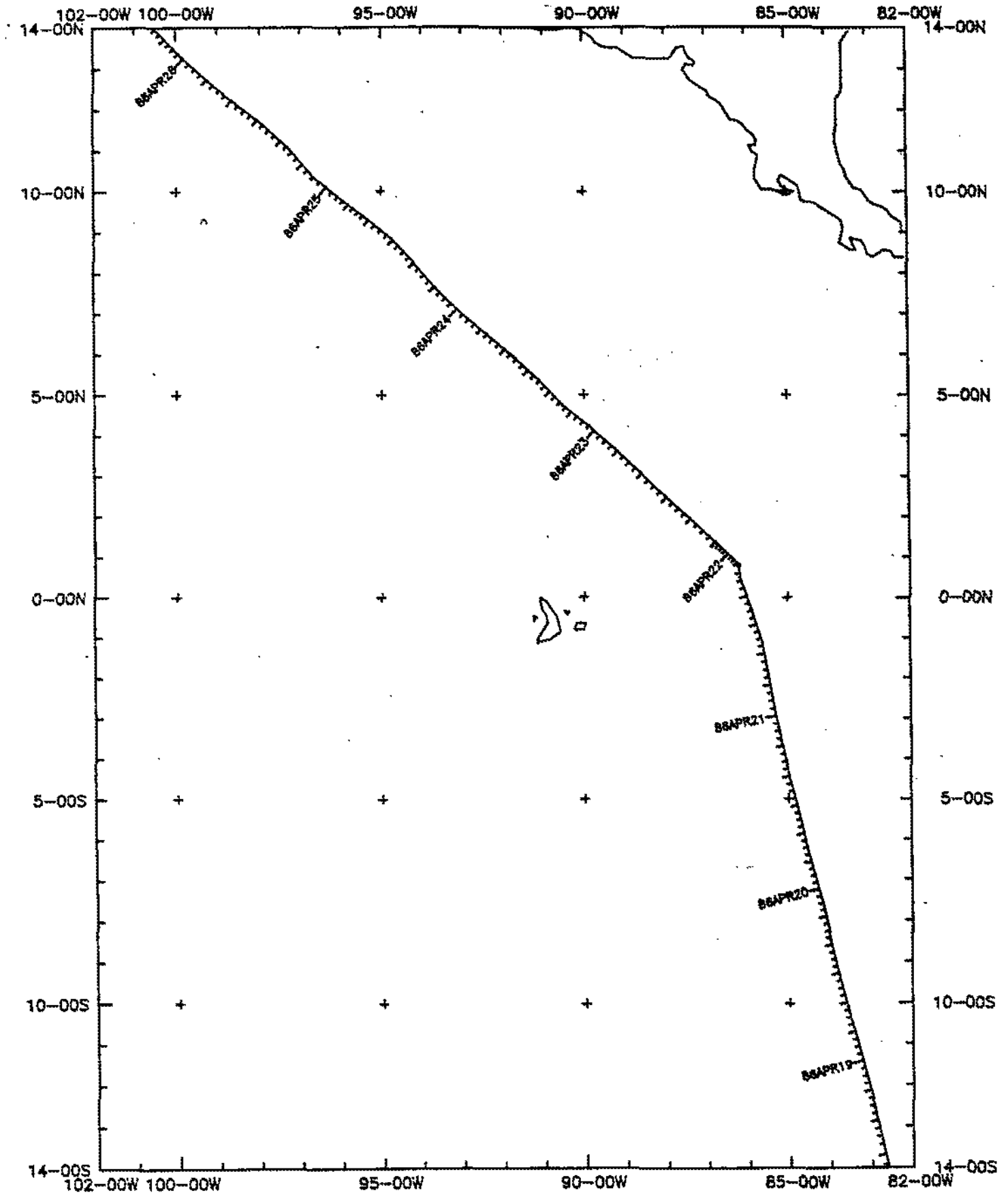
- 1) Cruise - 6260 miles
- 2) Bathymetry - 4230 miles
- 3) Magnetics - none collected
- 4) Seismic Reflection - none collected
- 5) Gravity - none collected



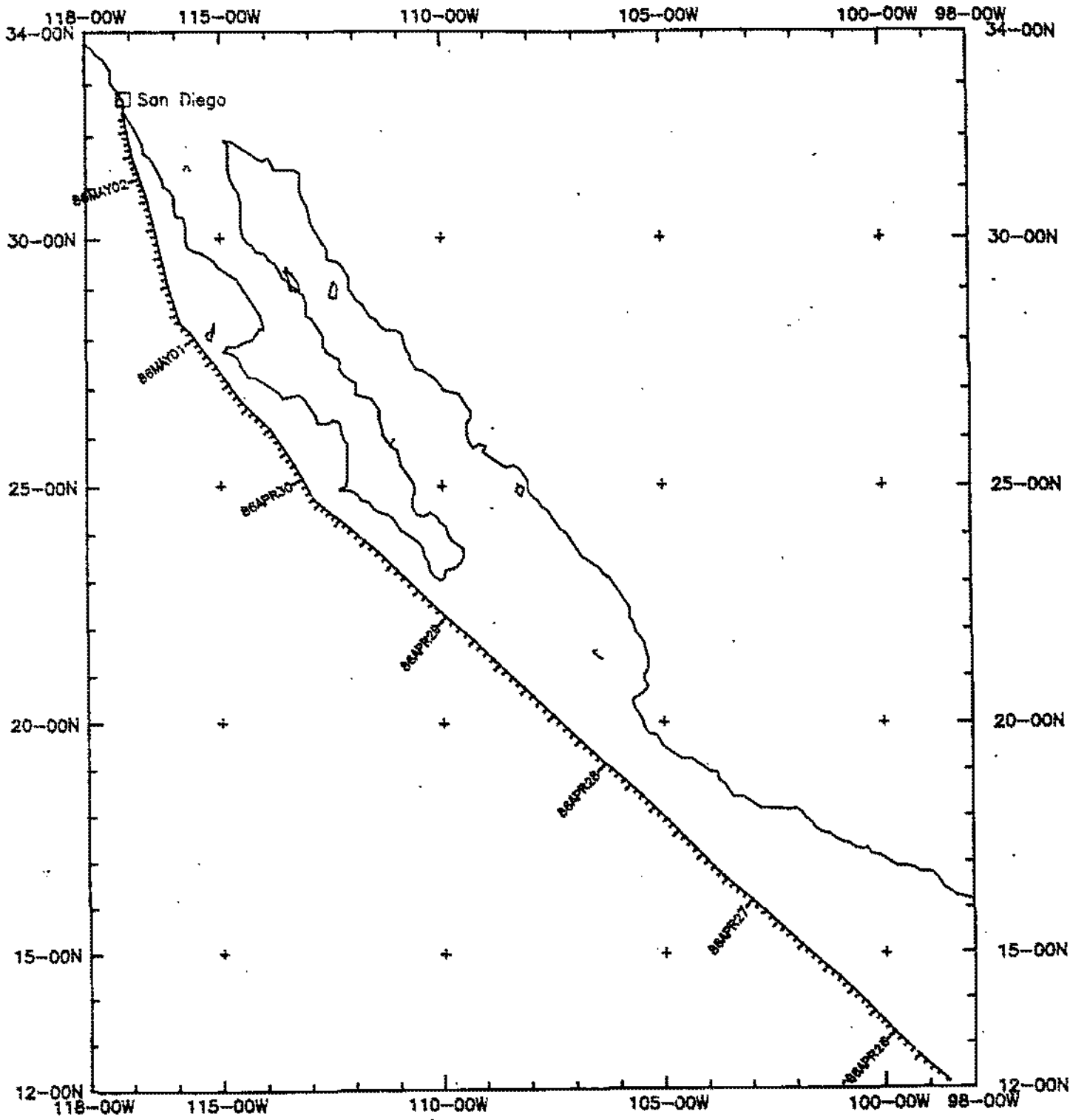
ICE LEG 05 Track at .312in/degree (plot 1 of 4)



ICE LEG 05 Track at .312in/deg

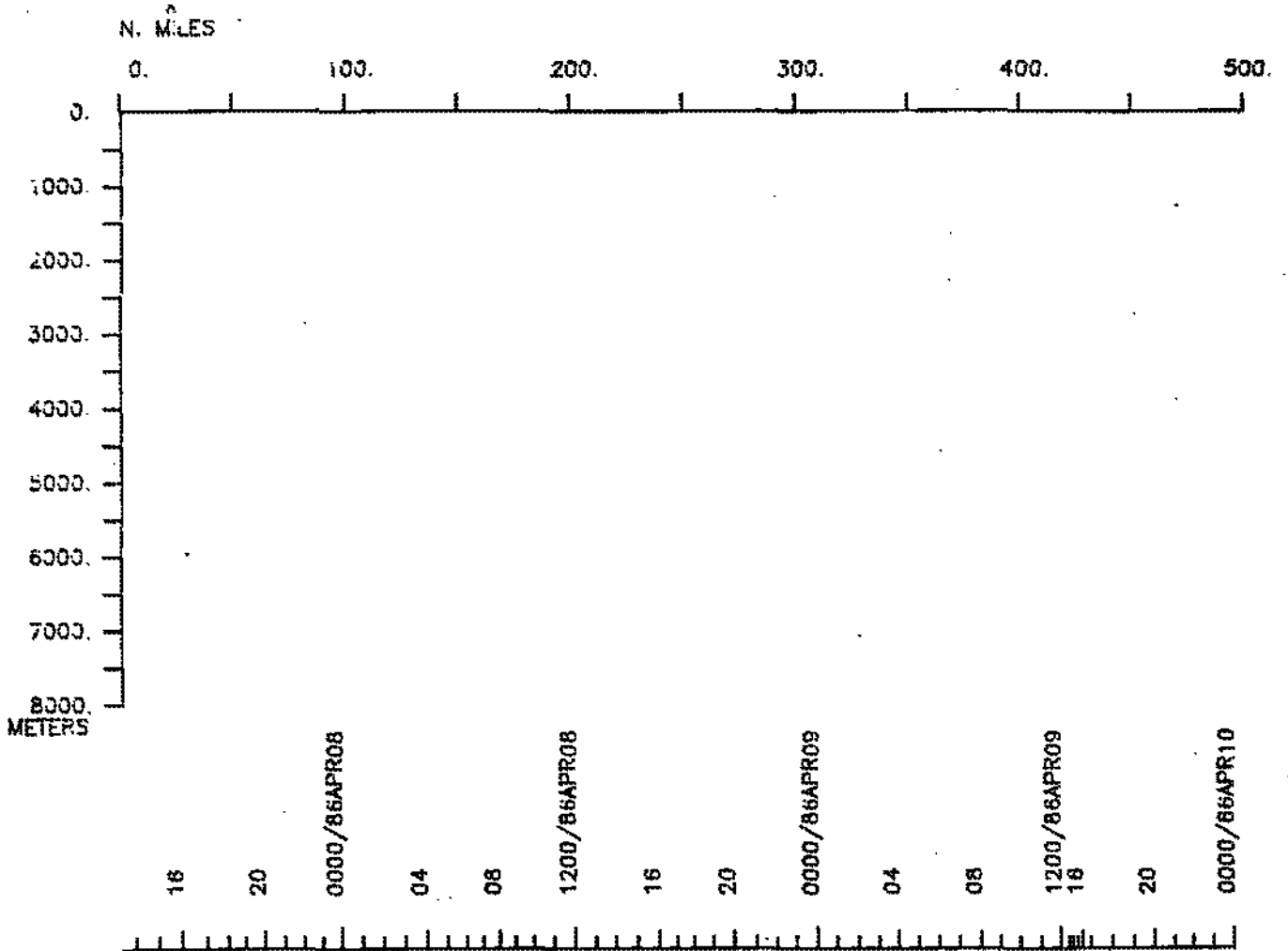


ICE LEG 05 Track at .312in/degree (plot 3 of 4)

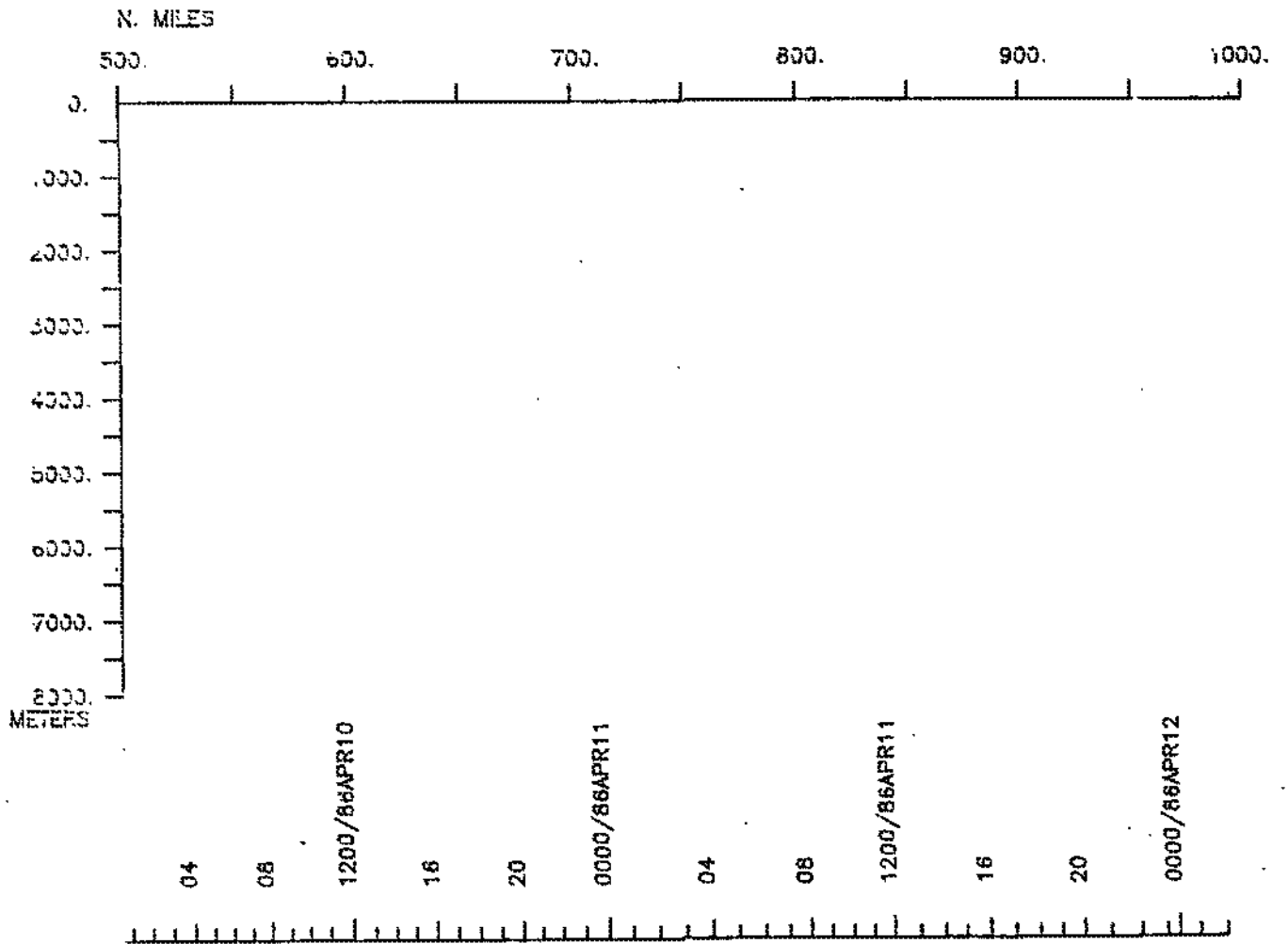


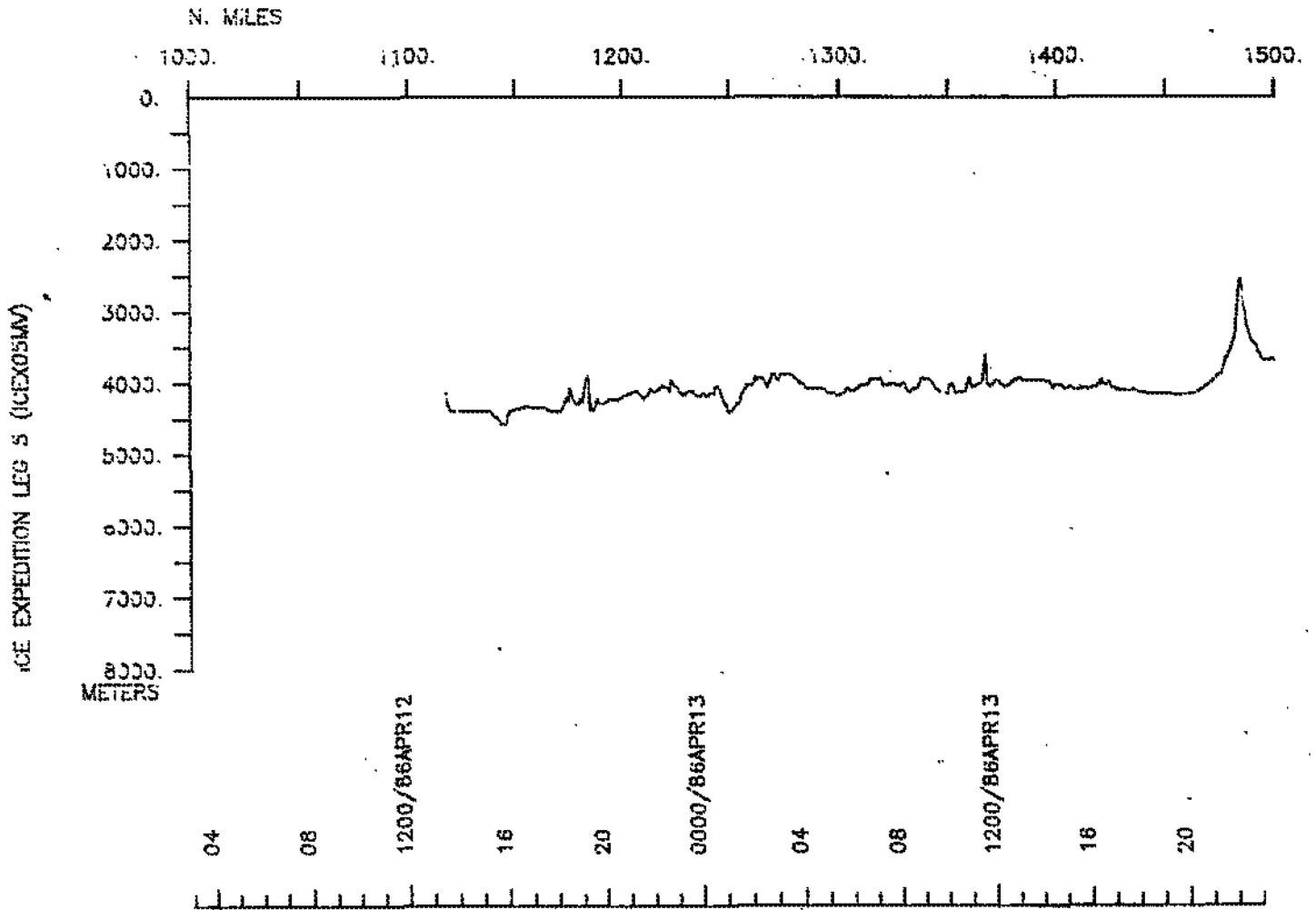
ICE LEG 05 Track at .312in/degree (plot 4 of 4)

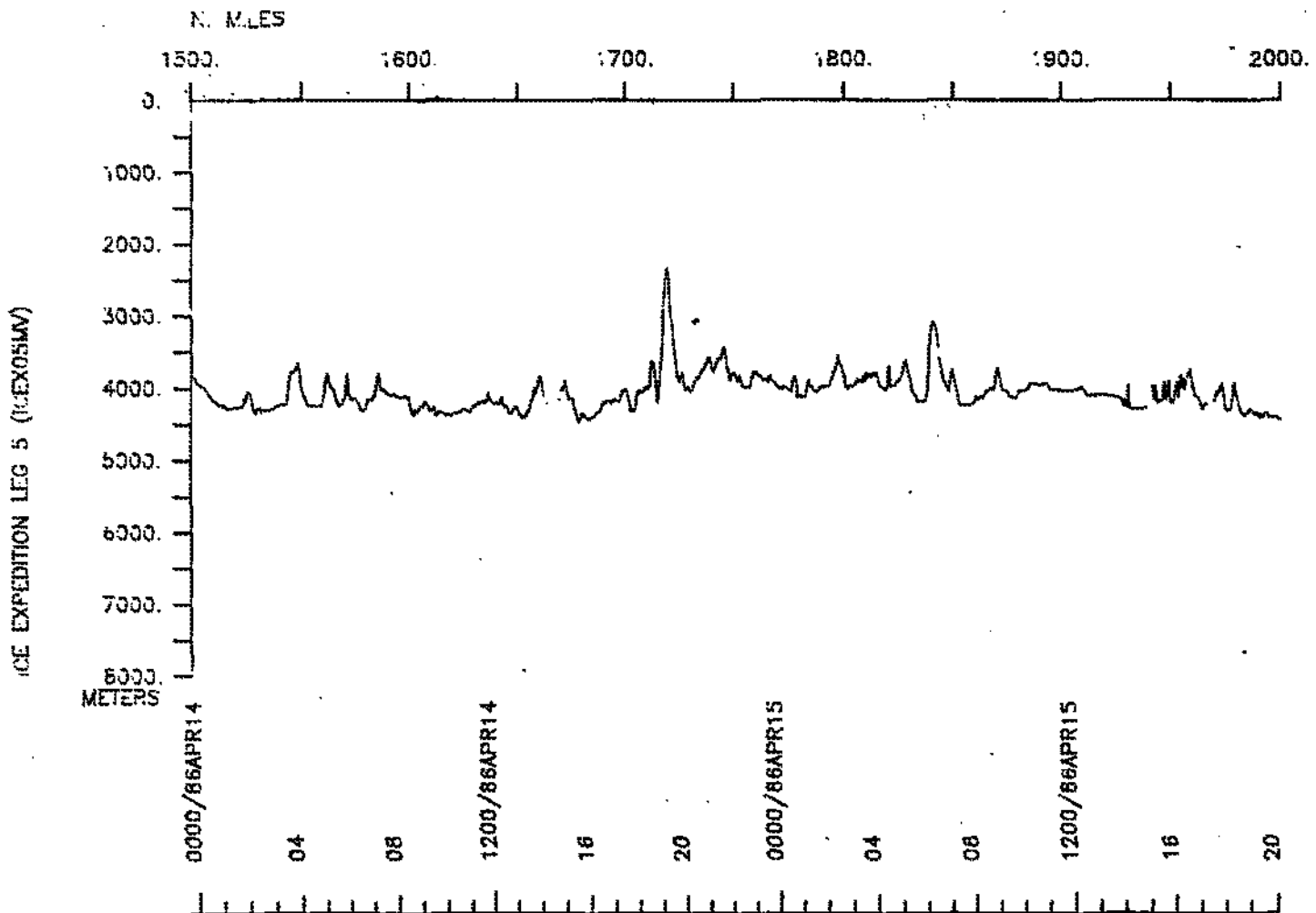
ICE EXPEDITION LEG 5 (ICEX05MV)

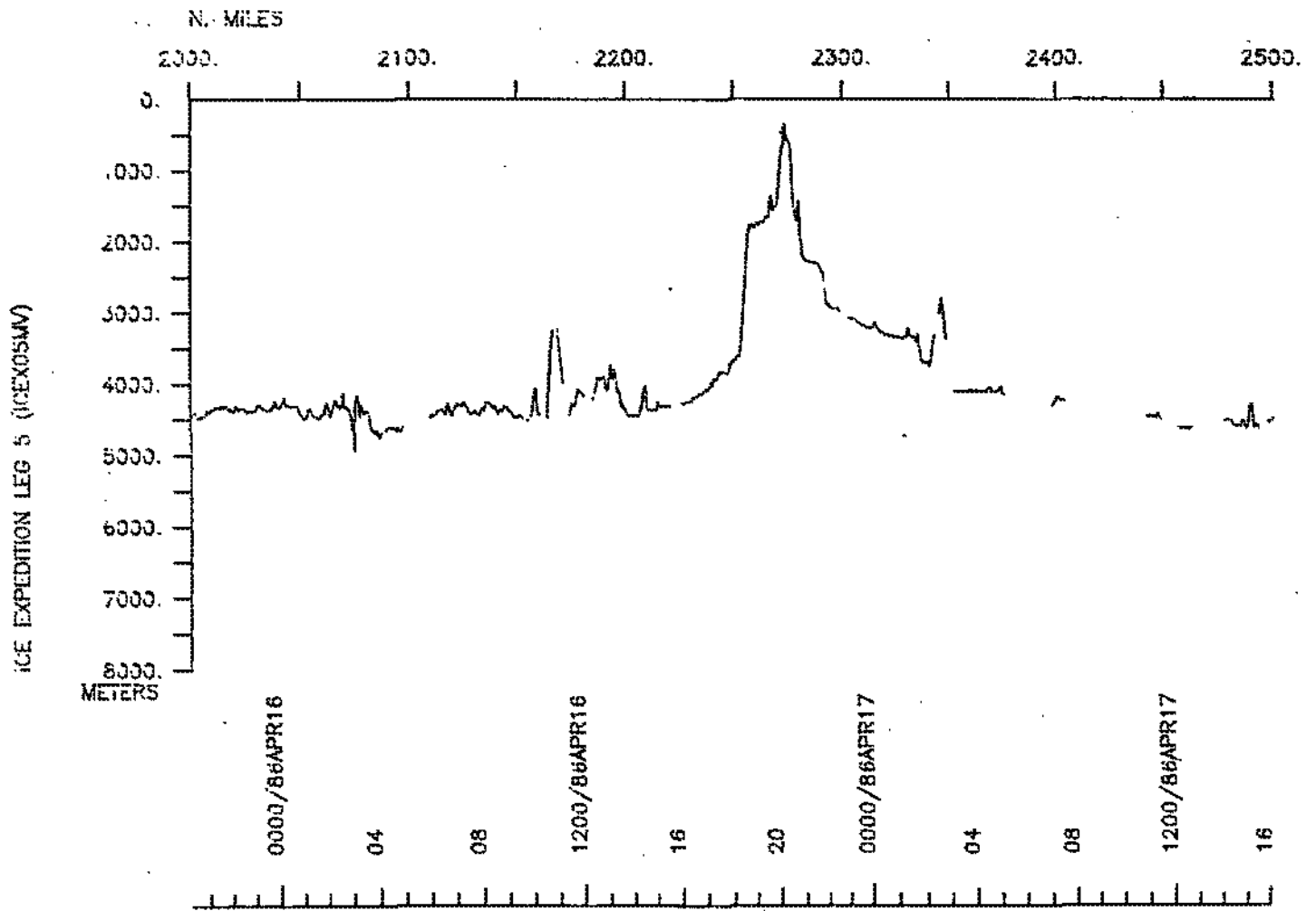


ICE EXPEDITION LEG 5 (ICEXOSM)

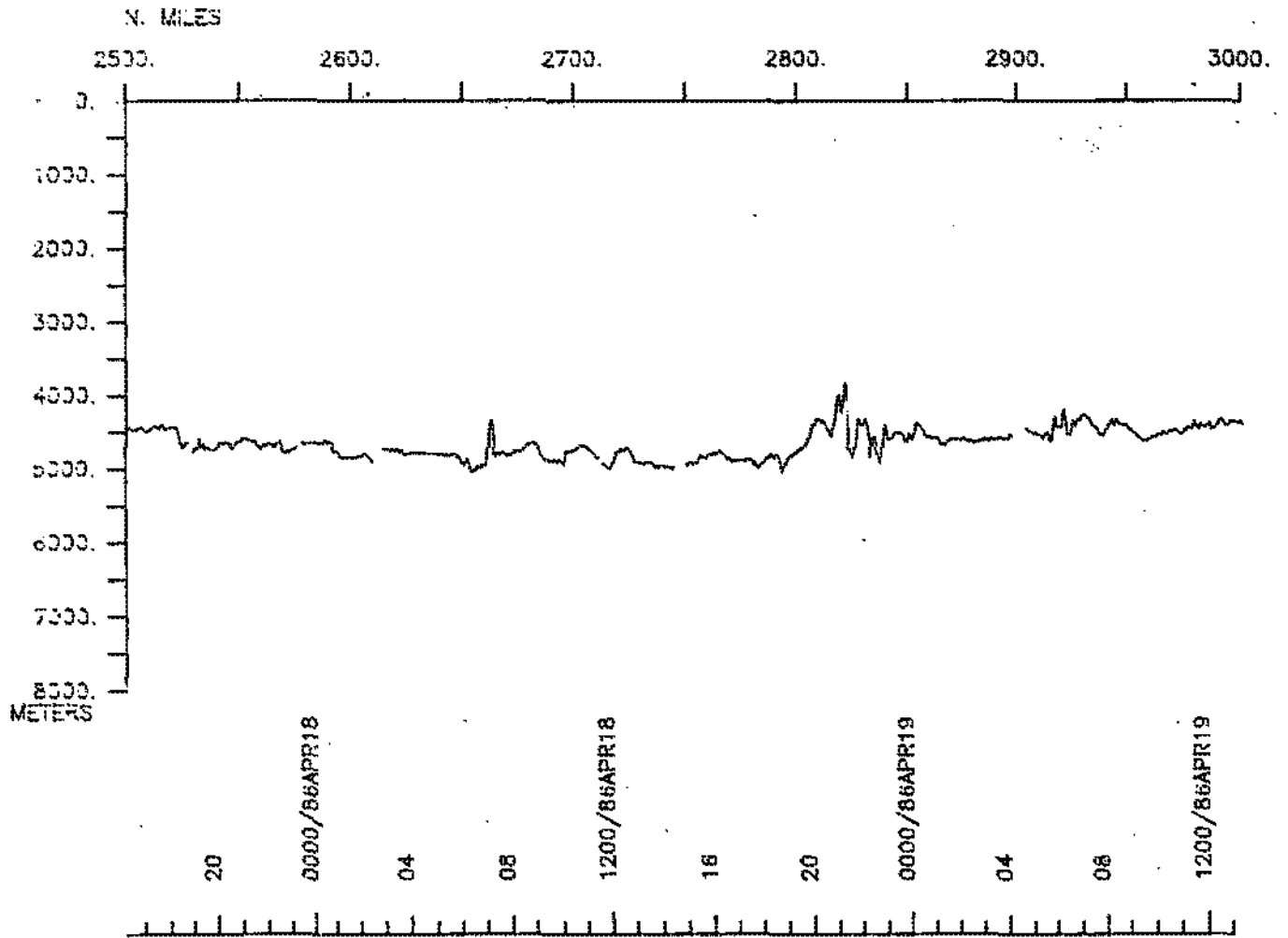


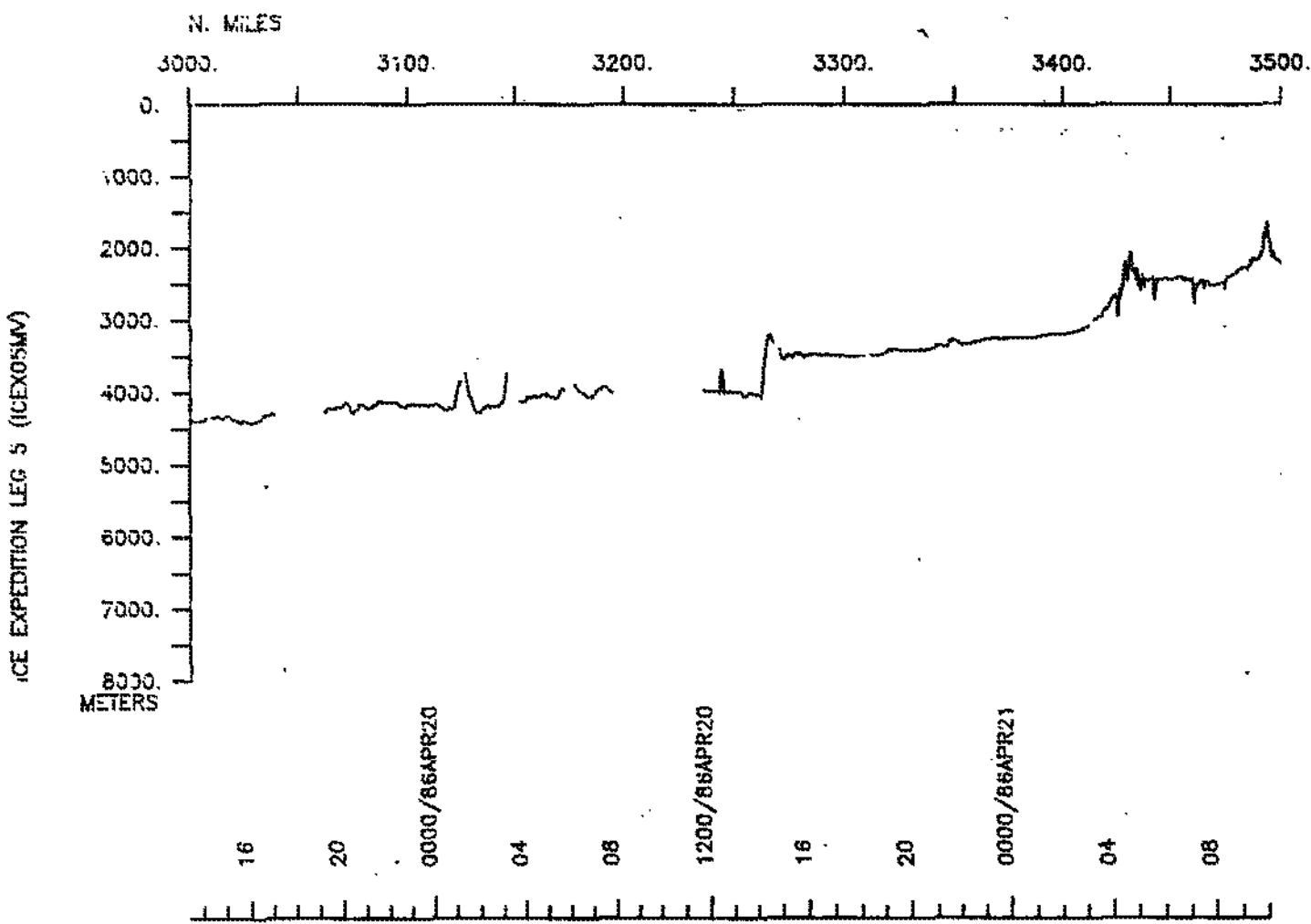




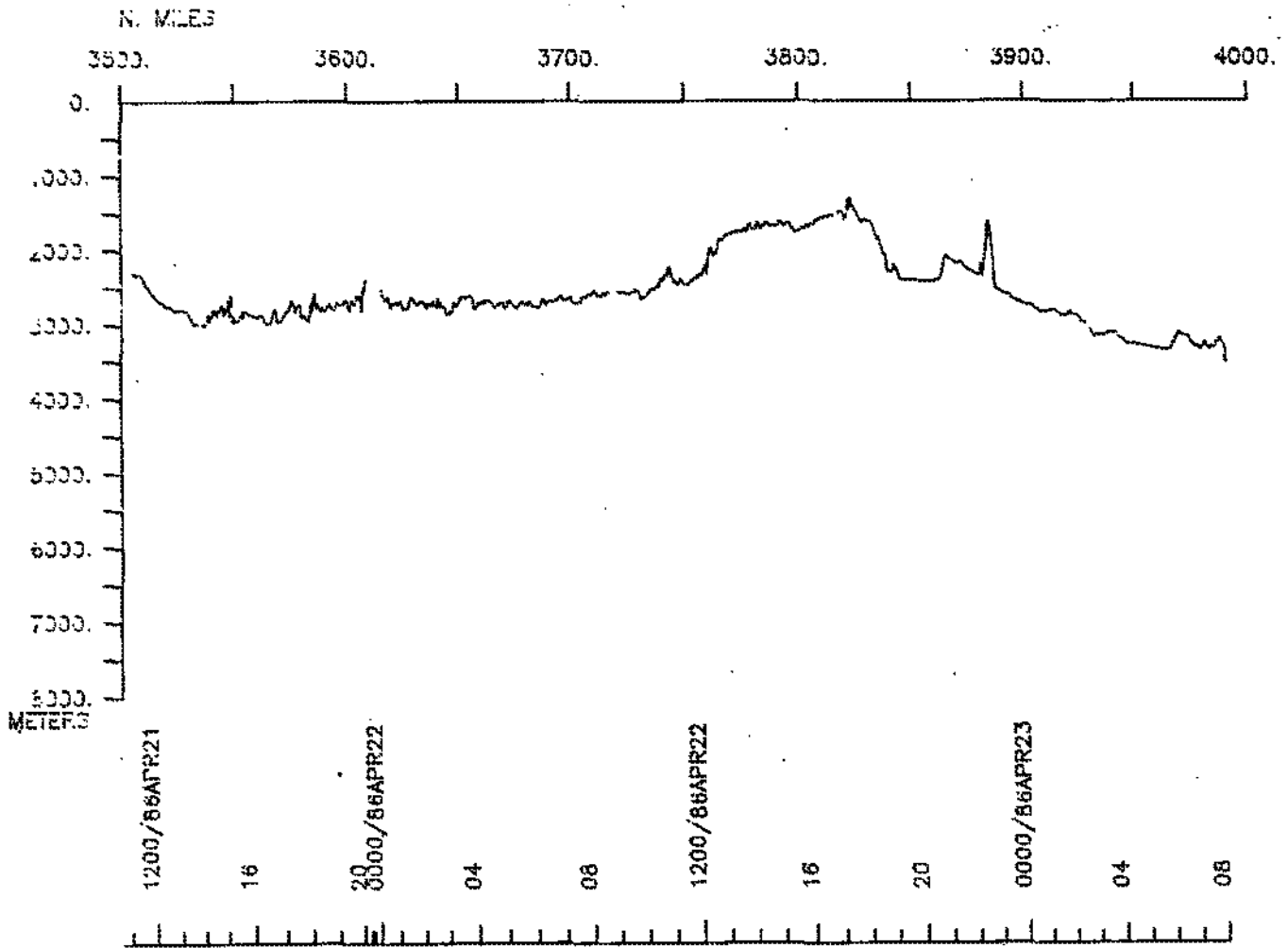


ICE EXPEDITION LEG 5 (ICEX051M)

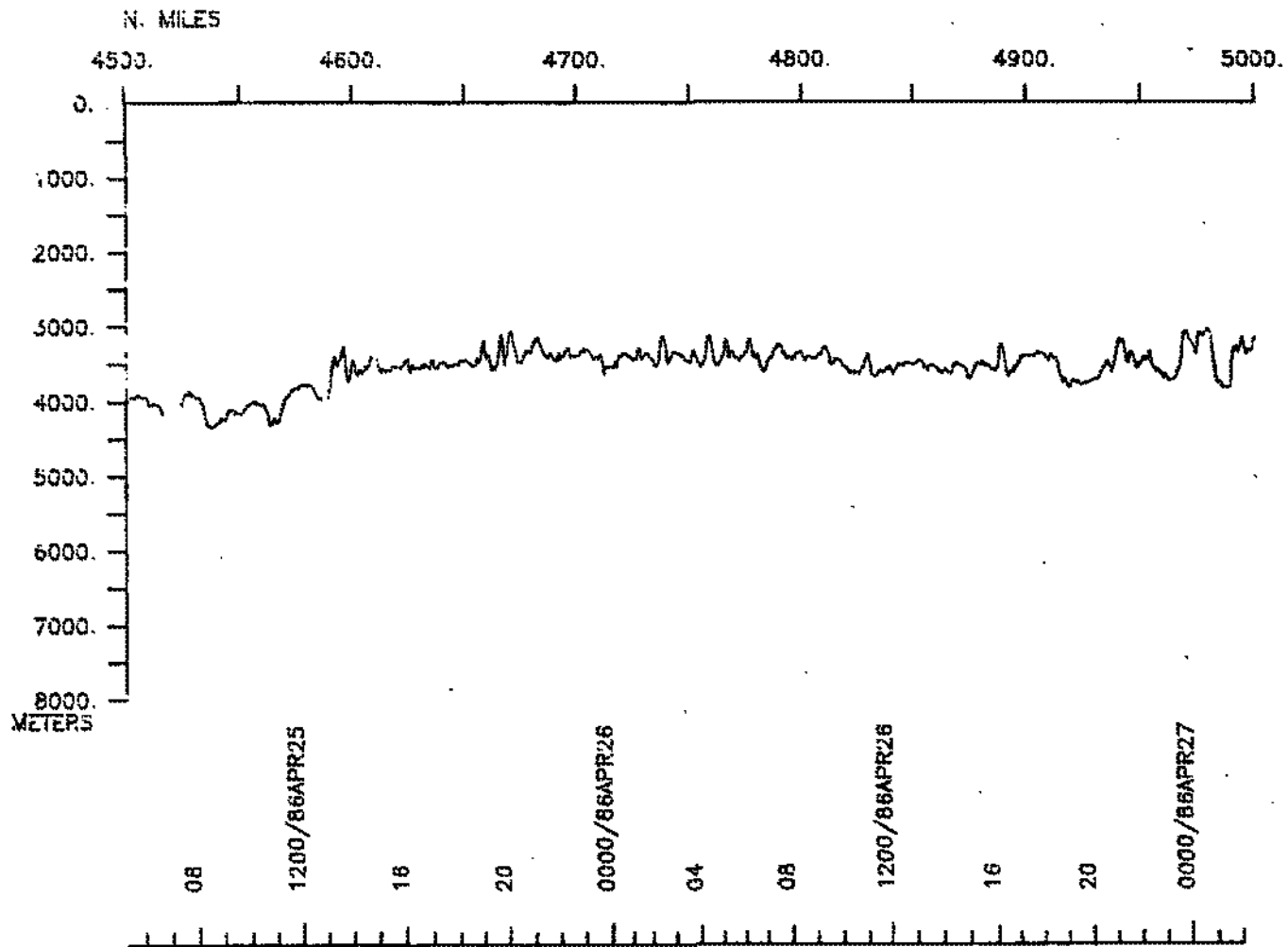


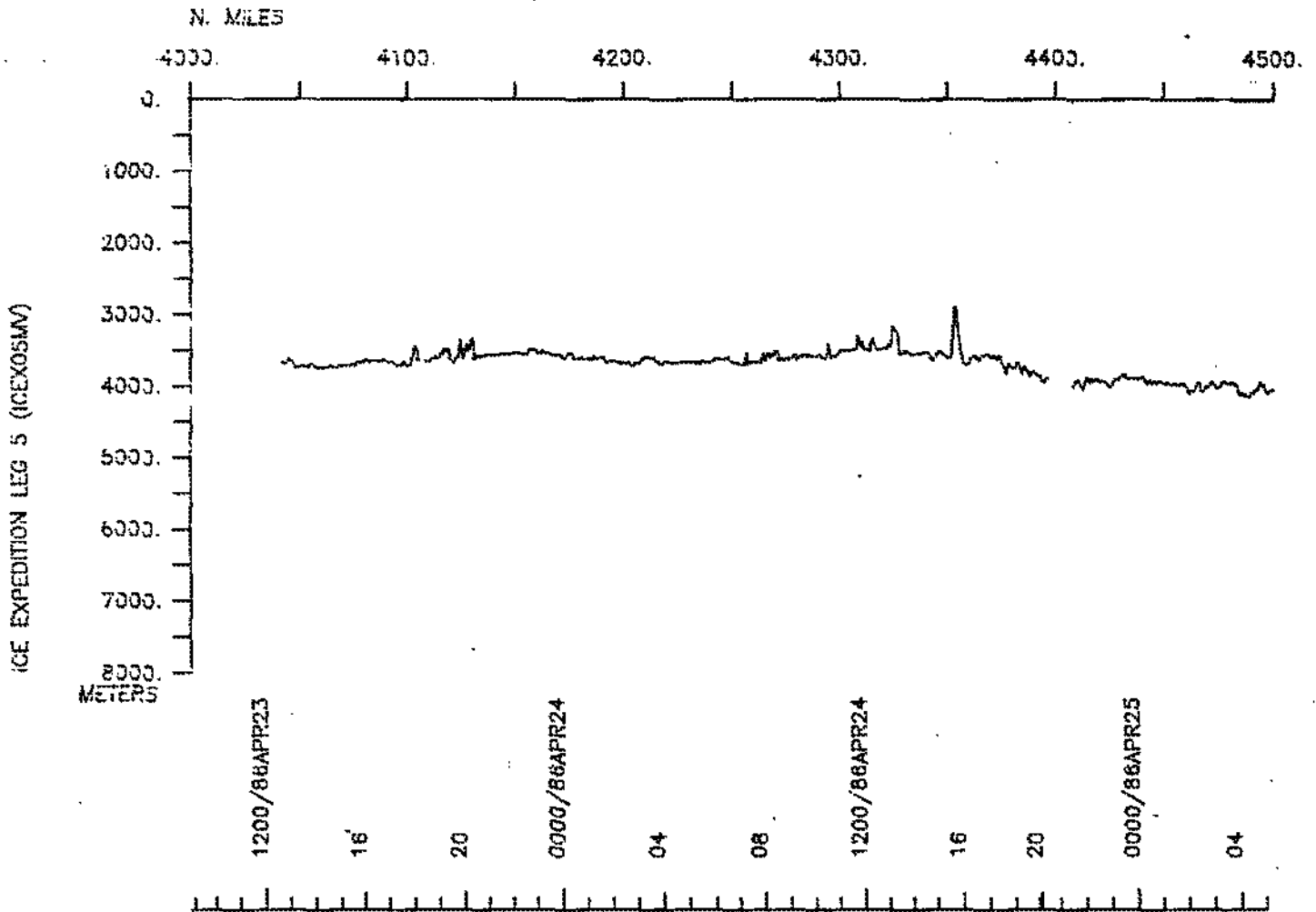


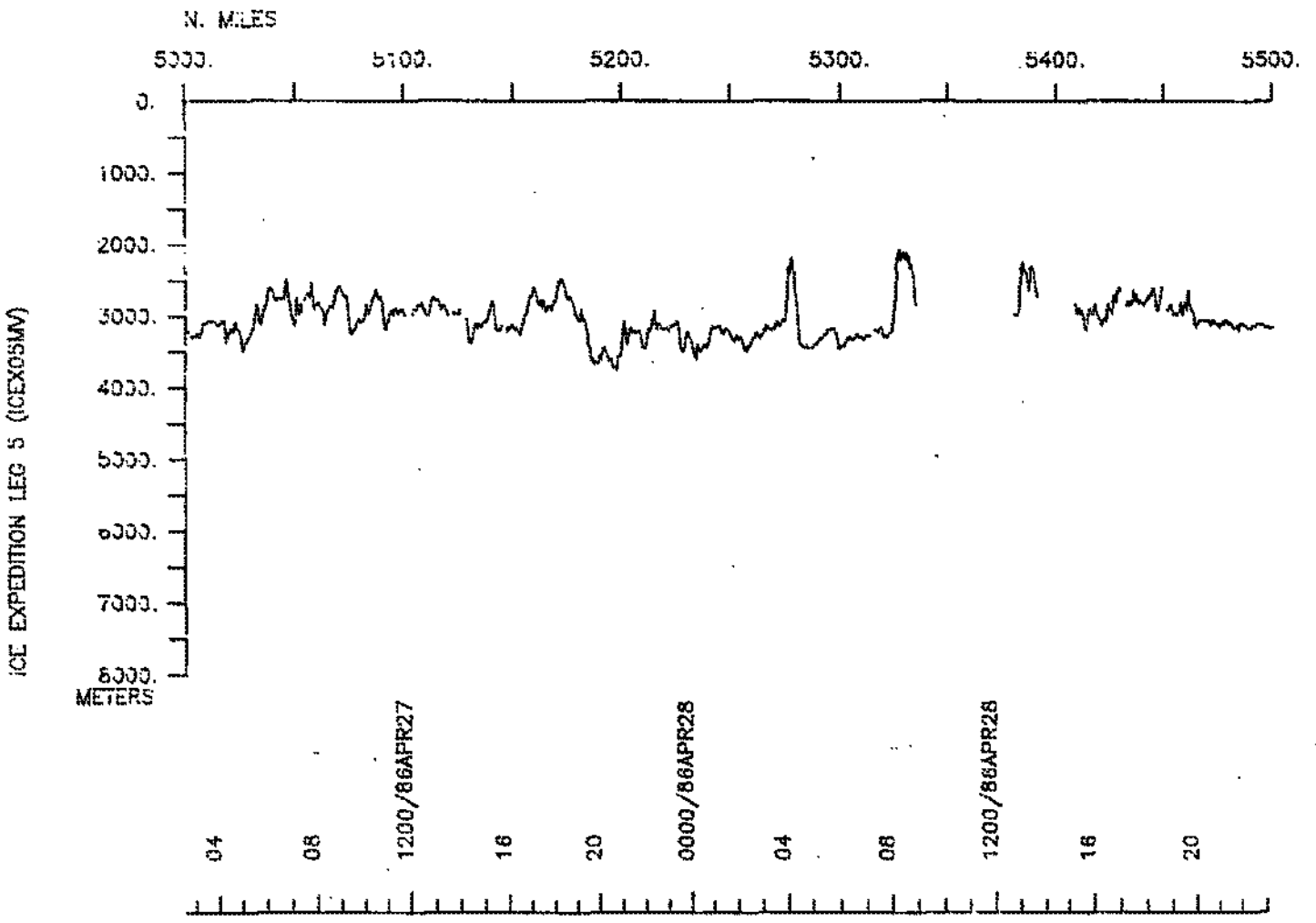
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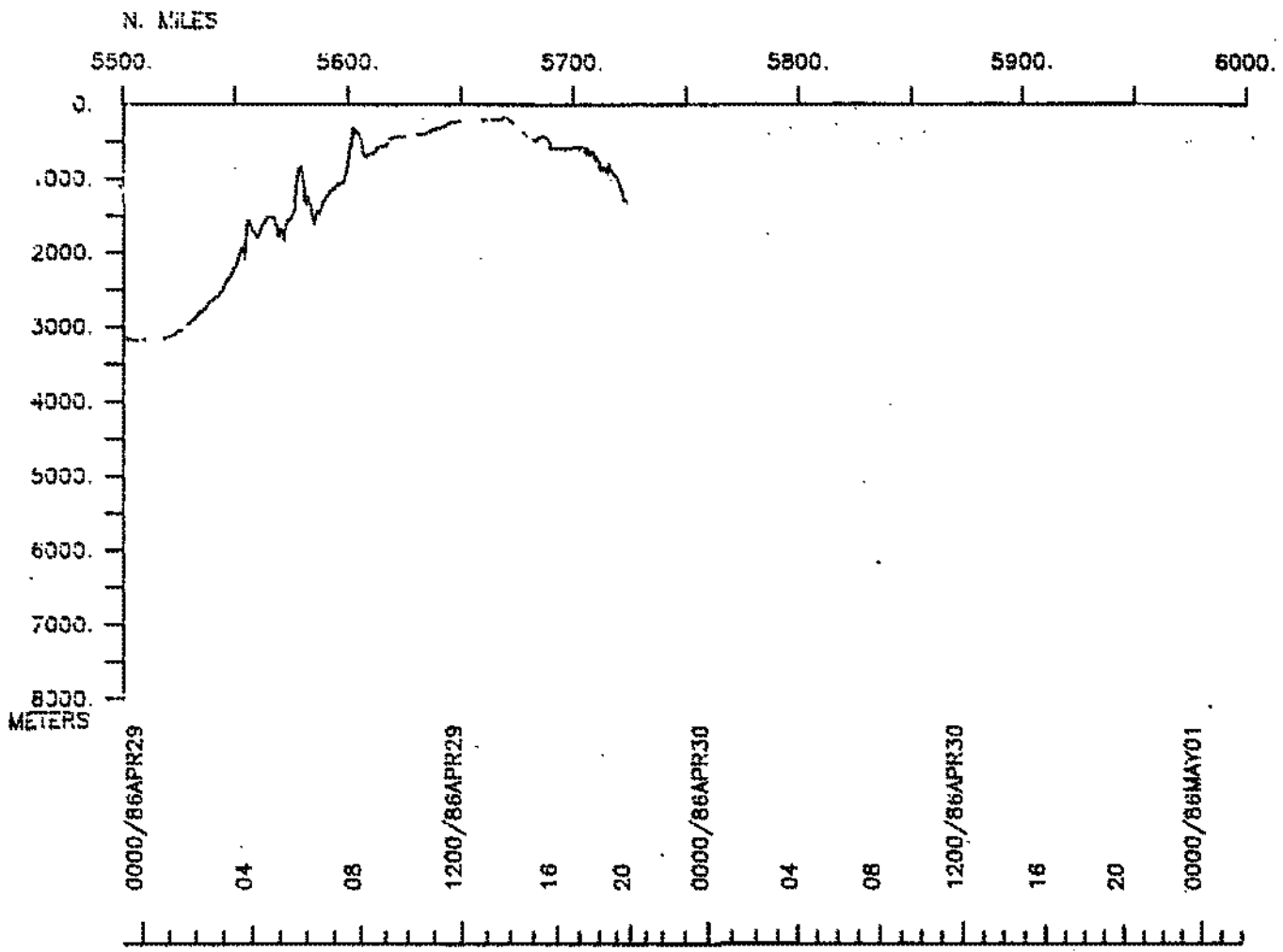
ICE EXPEDITION LEG 5 (ICEX05M)



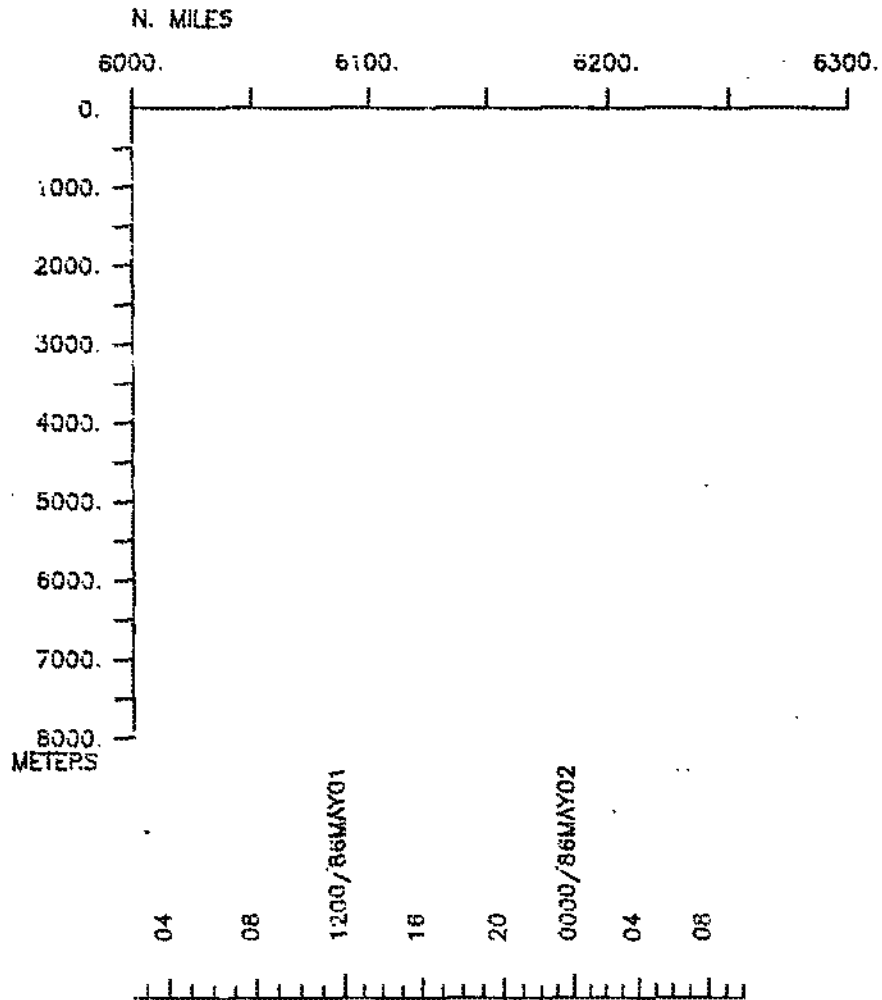




ICE EXPEDITION LEG 5 (ICEX05MM)



ICE EXPEDITION LEG 5 (ICEX05M)



S.I.O. SAMPLE INDEX

(Issued November 1986)

ICE EXPEDITION

Leg 5

Punta Arenas, Chile (7 April 1986)
to
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Computer Technician - G. Bouchard

Post-Cruise Processing and Report Preparation
by S.I.O. Geological Data Center

Index Encoding Funded by NSF
Grant Number OCE83-16603
Index Processing and Report Preparation
funded in part by SIA

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. #223

***UNDERWAY DATA CURATOR - S. M. SMITH EXT. 41898

PERSONNEL

#	**NAME**	**TITLE**	**AFFILIATION**	**CRID**
PESP STS	BOUCHARD,G.	COMPUTER TECH	SCRIPPS INSTITUTION	ICEX05MV
PESP SIX	BOUCHARD,A.	VOLUNTEER	NON-SCRIPPS EMPLOYEE	ICEX05MV

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. POSITIONS ARE IN TENTHS
 #OF MINUTES.

#GMT	DDMMYY	LOC	T	SAMP	SAMPLE	DISP			CRUISE
#TIME	DATE	TIME	Z	CODE	IDENTIFIER	CODE	LAT.	LONG.	LEG-SHIP

PORTS

1315	070486	LGPT B	PUNTA ARENAS, CHILE	53-10 S	70-54 W	f	ICEX05MV
1530	020586	LGPT E	SAN DIEGO, CALIF.	32-43 N	117-11 W	f	ICEX05MV

ECHOSOUNDER RECORDS

1400	120486	DPRT B	12 KHZ EDO R-01A	GDC	39-158S	74-566W	s	ICEX05MV
2006	210486	DPRT E	12 KHZ EDO R-01A	GDC	0-469N	86-119W	s	ICEX05MV
0014	220486	DPRT B	12 KHZ EDO R-01B	GDC	0-517N	86-160W	s	ICEX05MV
2100	240486	DPRT E	12 KHZ EDO R-01B	GDC	9-454N	95-535W	s	ICEX05MV
2131	240486	DPRT B	12 KHZ EDO R-02	GDC	9-493N	95-586W	s	ICEX05MV
1956	290486	DPRT E	12 KHZ EDO R-02	GDC	24-380N	112-509W	s	ICEX05MV

. END SAMPLE INDEX