

INFORMAL REPORT AND INDEX OF
NAVIGATION, DEPTH, MAGNETIC AND SUBBOTTOM PROFILER DATA
(Issued December 1985)

ALCYONE EXPEDITION

LEG 1

San Diego, California (16 June 1984)
to
Honolulu, Hawaii (20 July 1984)

R/V Melville

Chief Scientist - D. Luther

Resident Marine Tech - J. Boaz

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

Data Collection and Processing funded by
NSF Grant Number OCE83-17741
NOAA Grant Number 85ABC-00240

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.
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Geological Data Center, Scripps Institution of Oceanography,
La Jolla, California 92093.

GDC Cruise I.D.# 221

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 (day/month) and hour ticks. The scale is .312 in/degree longitude.

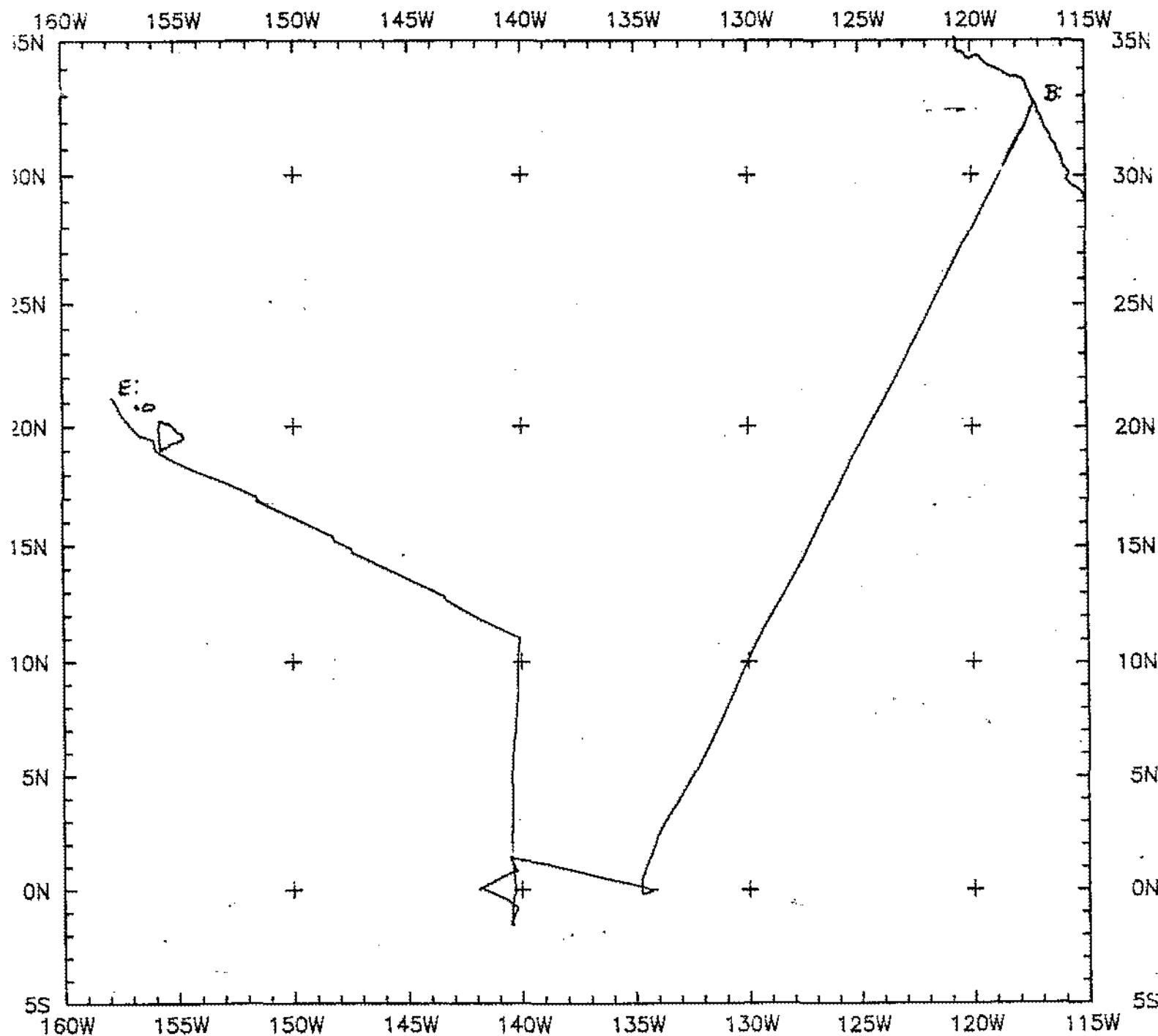
Profiles - depth and magnetic anomaly vs. distance. Dates (day/month) and positions of major course changes (greater than 30 degrees) are annotated. Sections of track having subbottom profiles (airgun or watergun) records have a wide black line along the bottom of the profile. Sections having Sea Beam 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 (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)452-2752.

1. Navigation listing of 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&2/3 degree beam width) depths retrieved at one minute intervals of ship time.
3. Plots of magnetic anomaly profiles along track - map scale = 1.2in/degree, anomaly scale between 15N and 15S latitude = 500 gamma/inch, anomaly scale north of 15N and south of 15S = 1000 gamma/inch, from values retrieved at approximately 1 mile spacing and regional field removed using the 1980 IGRF.
4. Separate time series files of navigation, depth and magnetics of 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 June 1985 (Sea Beam)

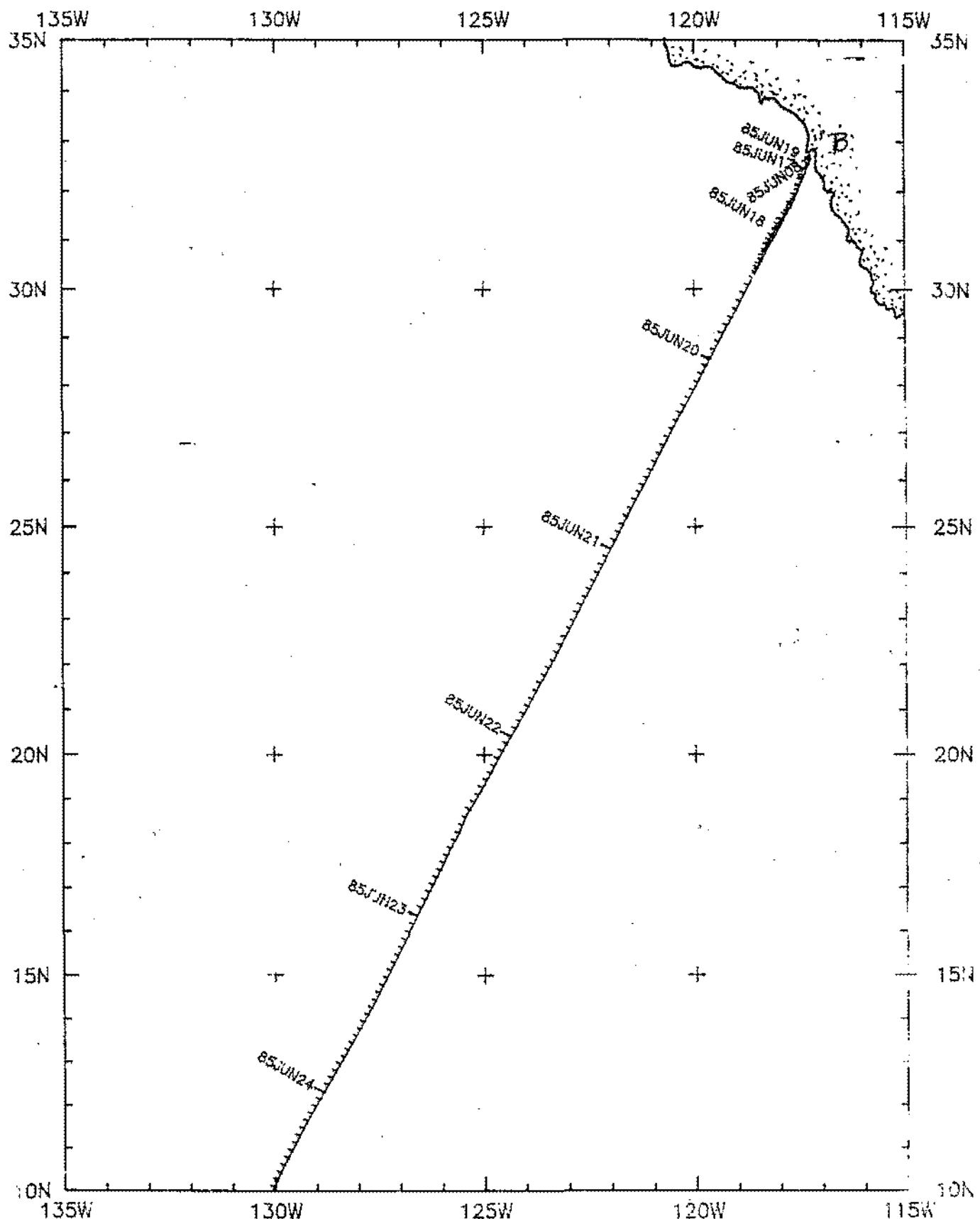


ALCYONE LEG 1 Track Mercator at 0.1632in/deg longitude

ALCYONE EXPEDITION
LEG 1

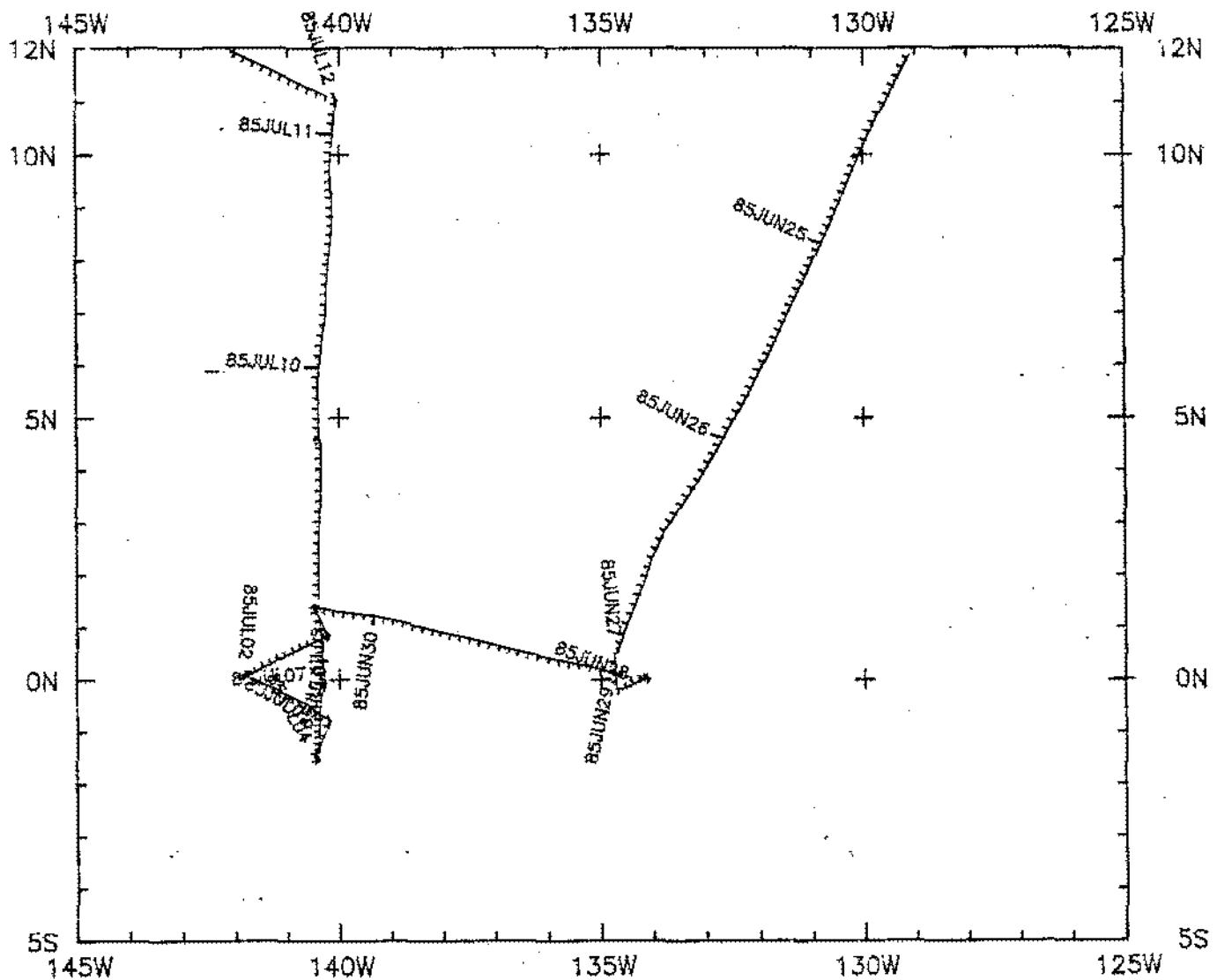
CHIEF SCIENTIST: D. Luther (SIO)
PORTS: San Diego - Honolulu, Hawaii
DATES: 16 June - 20 July 1985
SHIP: R/V Melville

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED
 1) Cruise - 5745 miles
 2) Bathymetry - 2725 miles
 3) Magnetics - 2470 miles
 4) Seismic Reflection - none collected
 5) Gravity - none collected

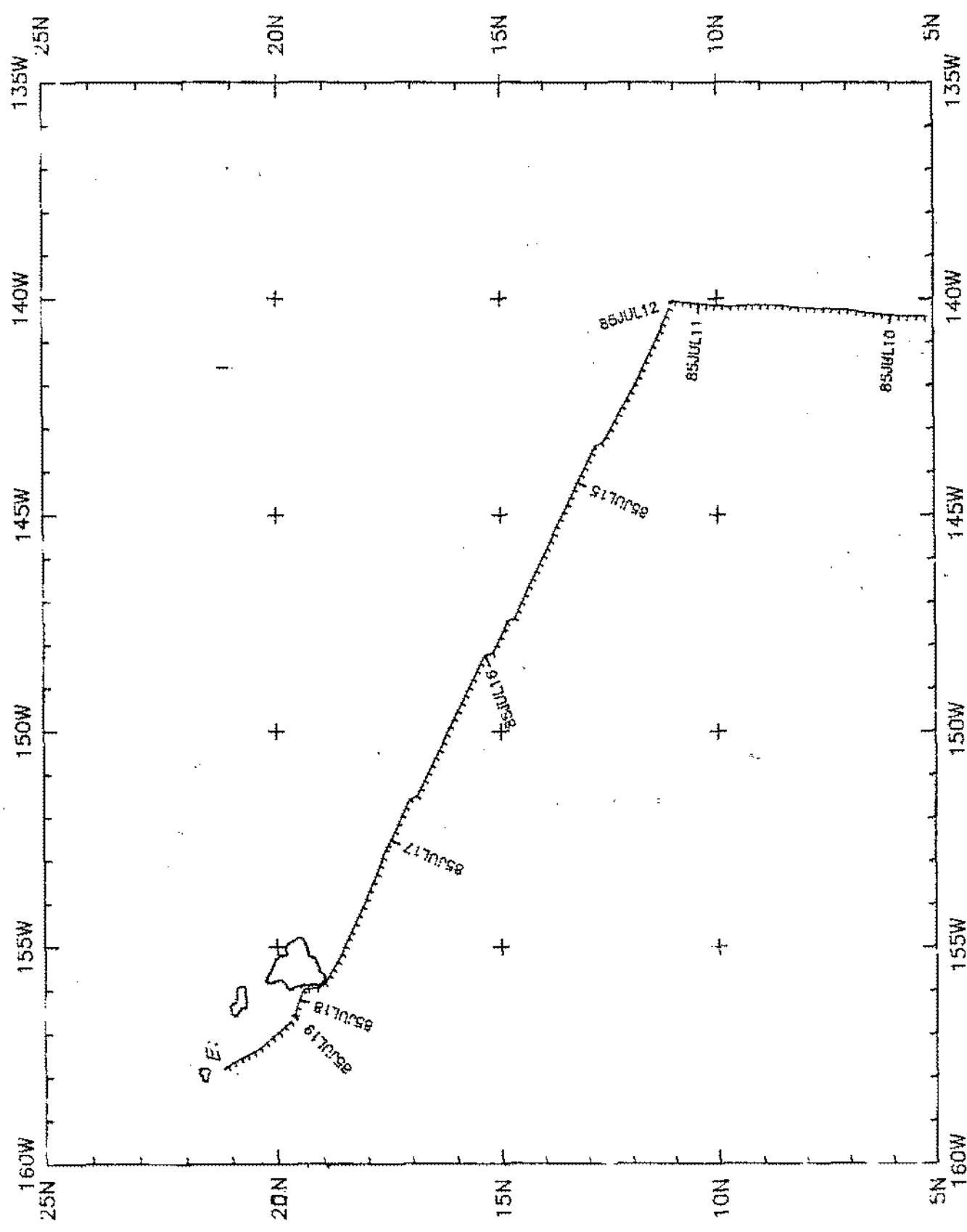


ALCYONE LEG 1

Mercator at 0.312 in/deg long. (plot 1 of 3)

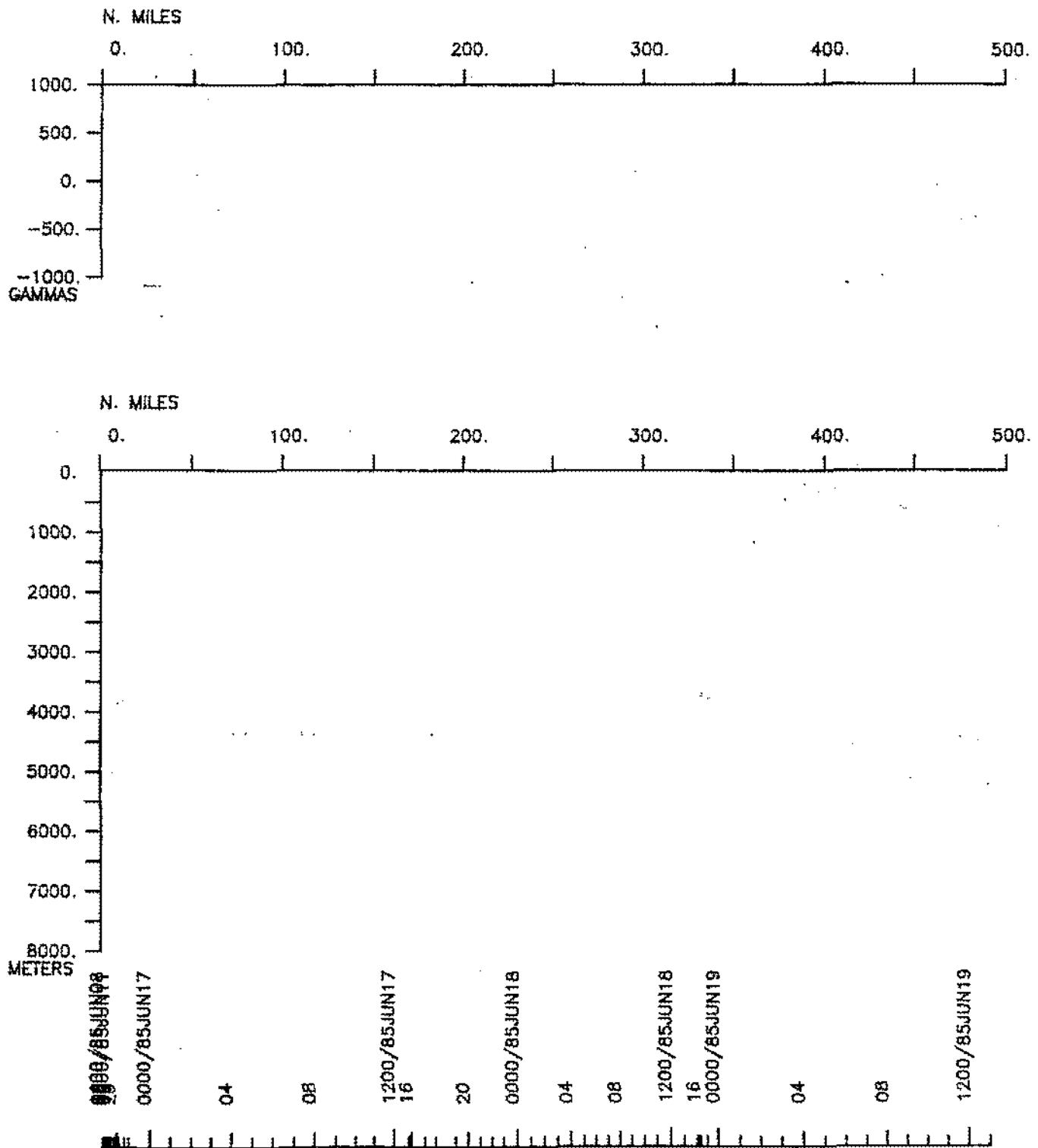


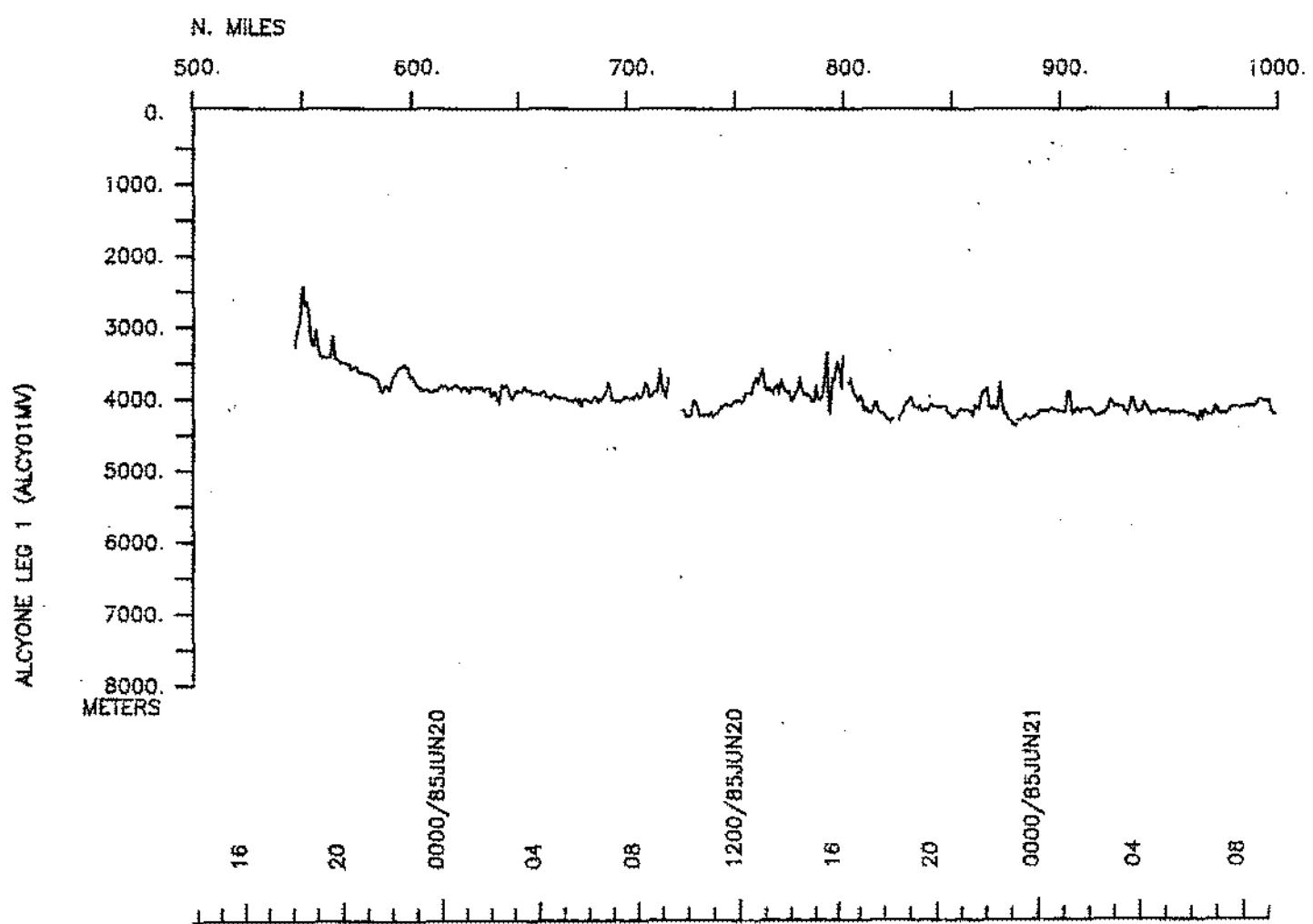
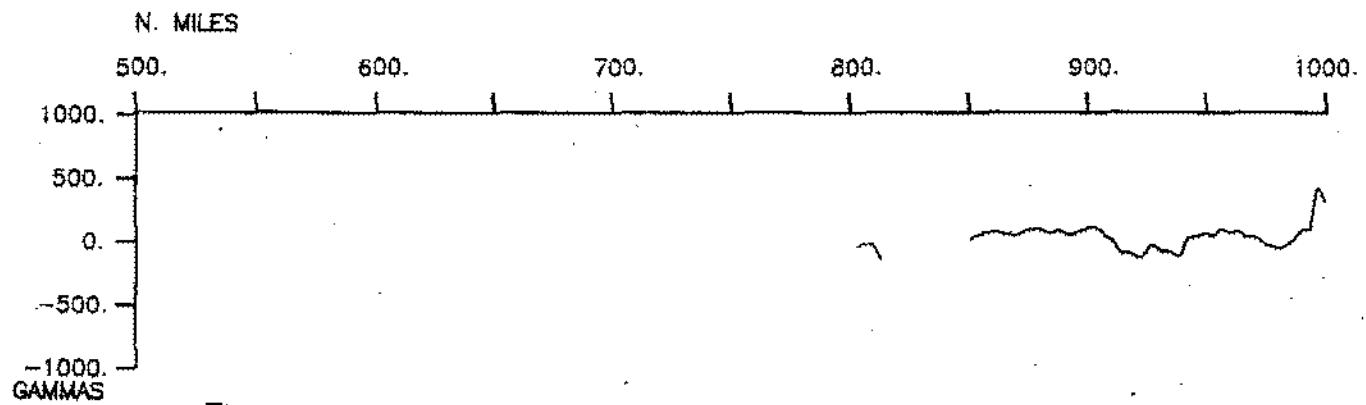
ALCYONE LEG 1 Mercator at 0.312 in/deg long. (plot 2 of 3)



ALCYONE LEG 1 Mercator at 0.312 in/deg long. (plot 3 of 3)

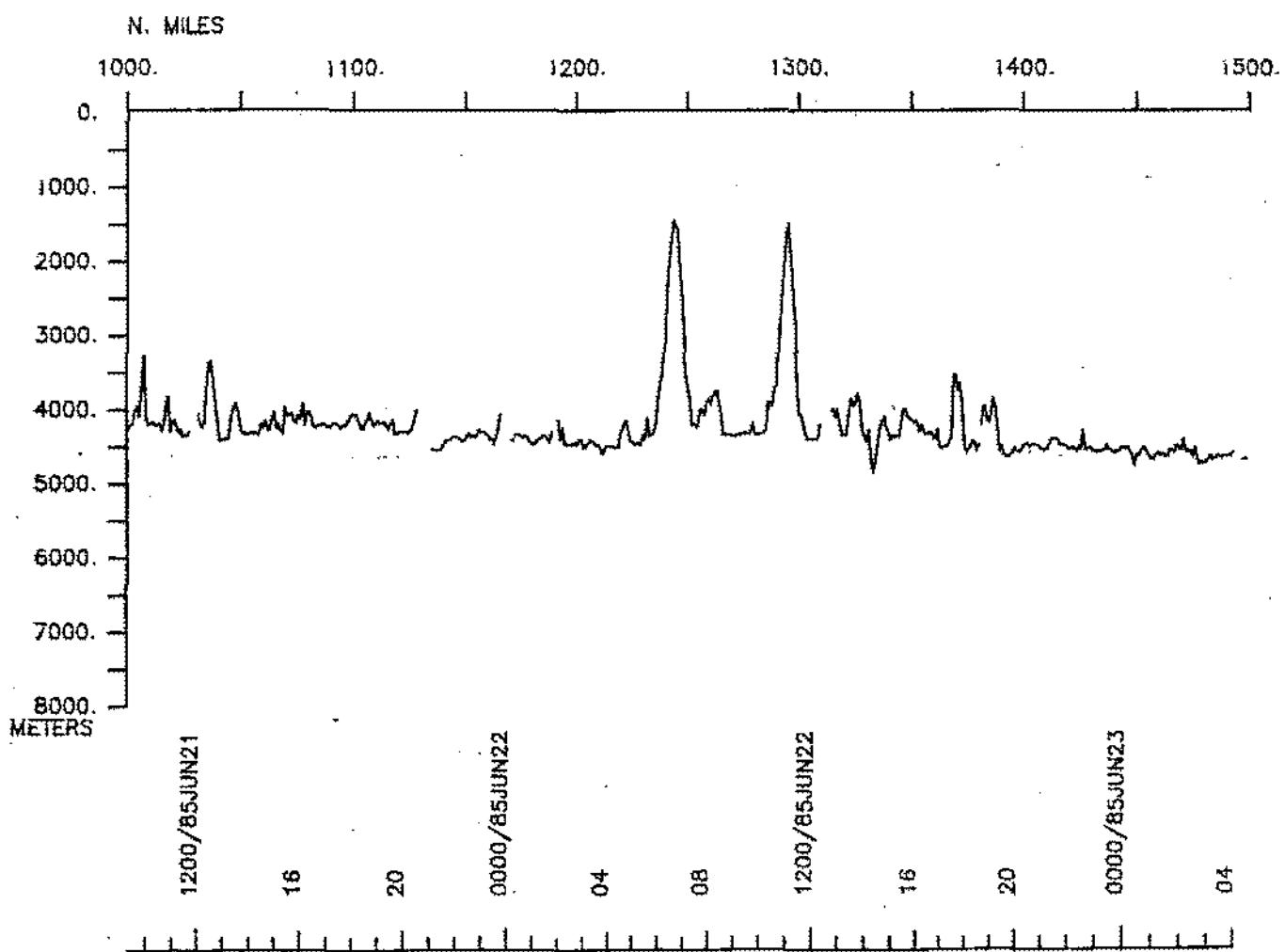
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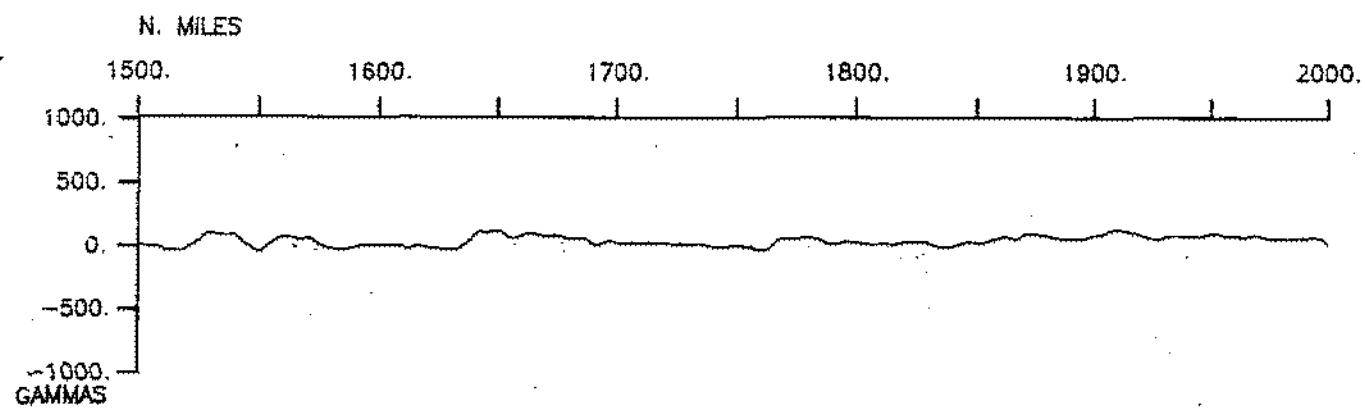




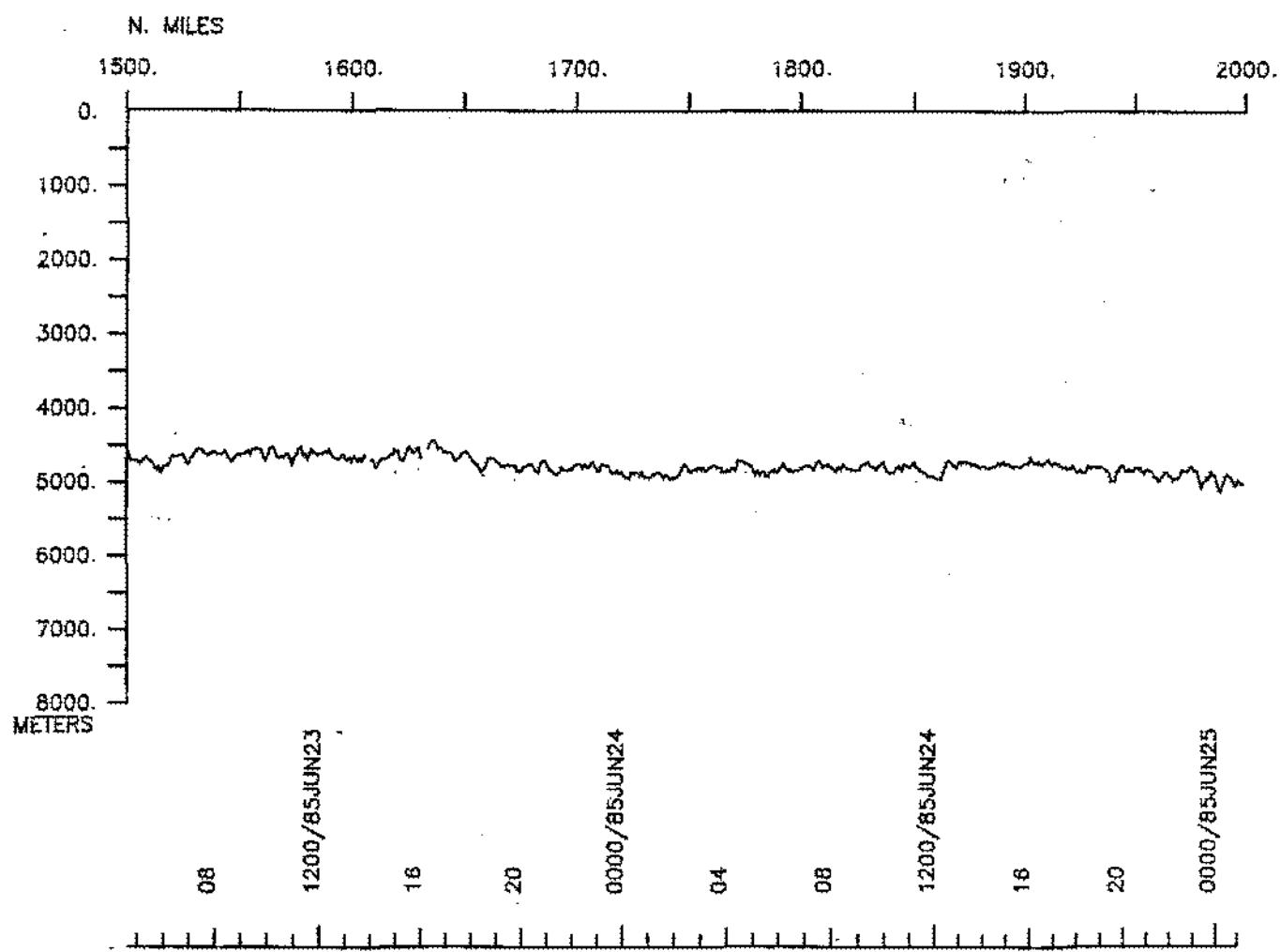


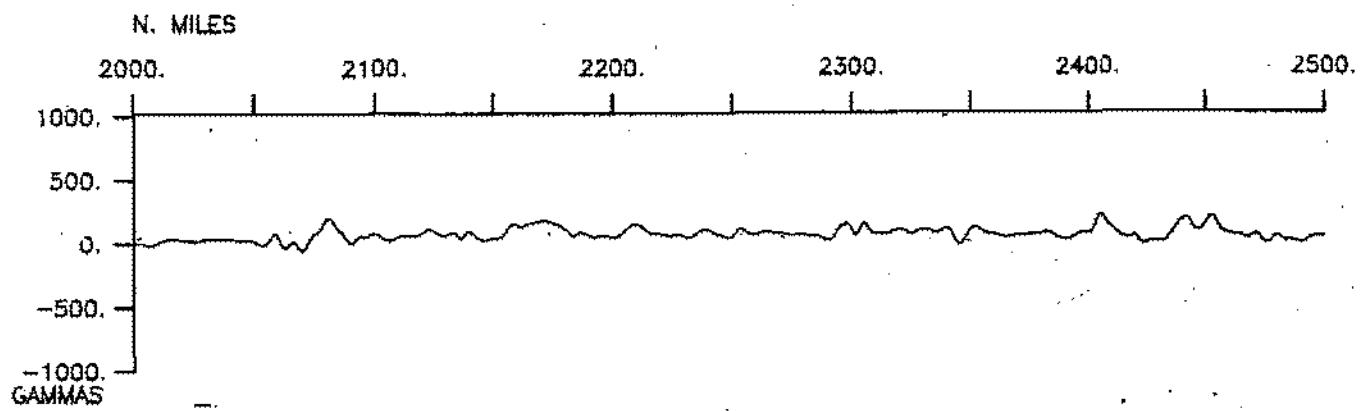
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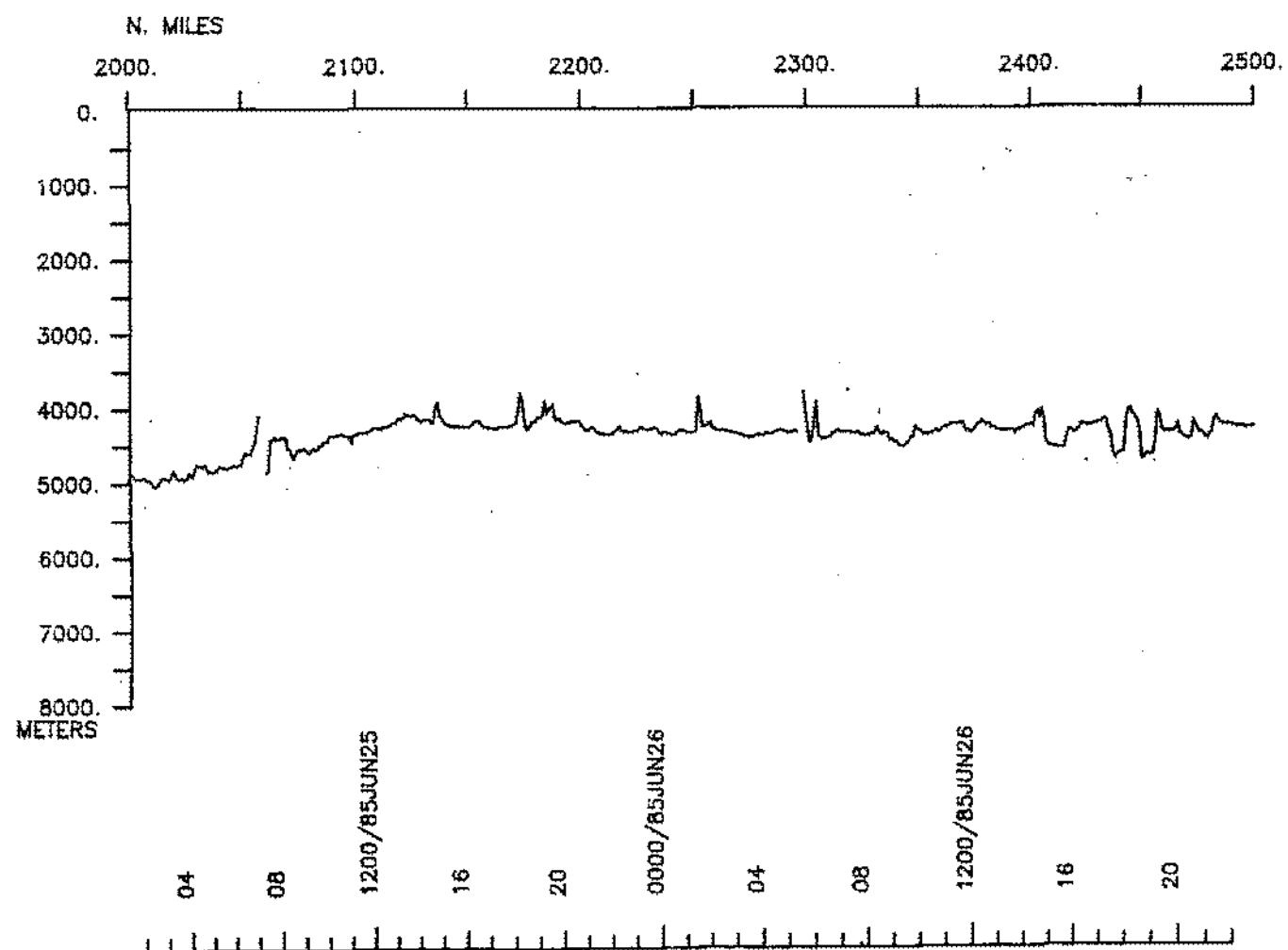


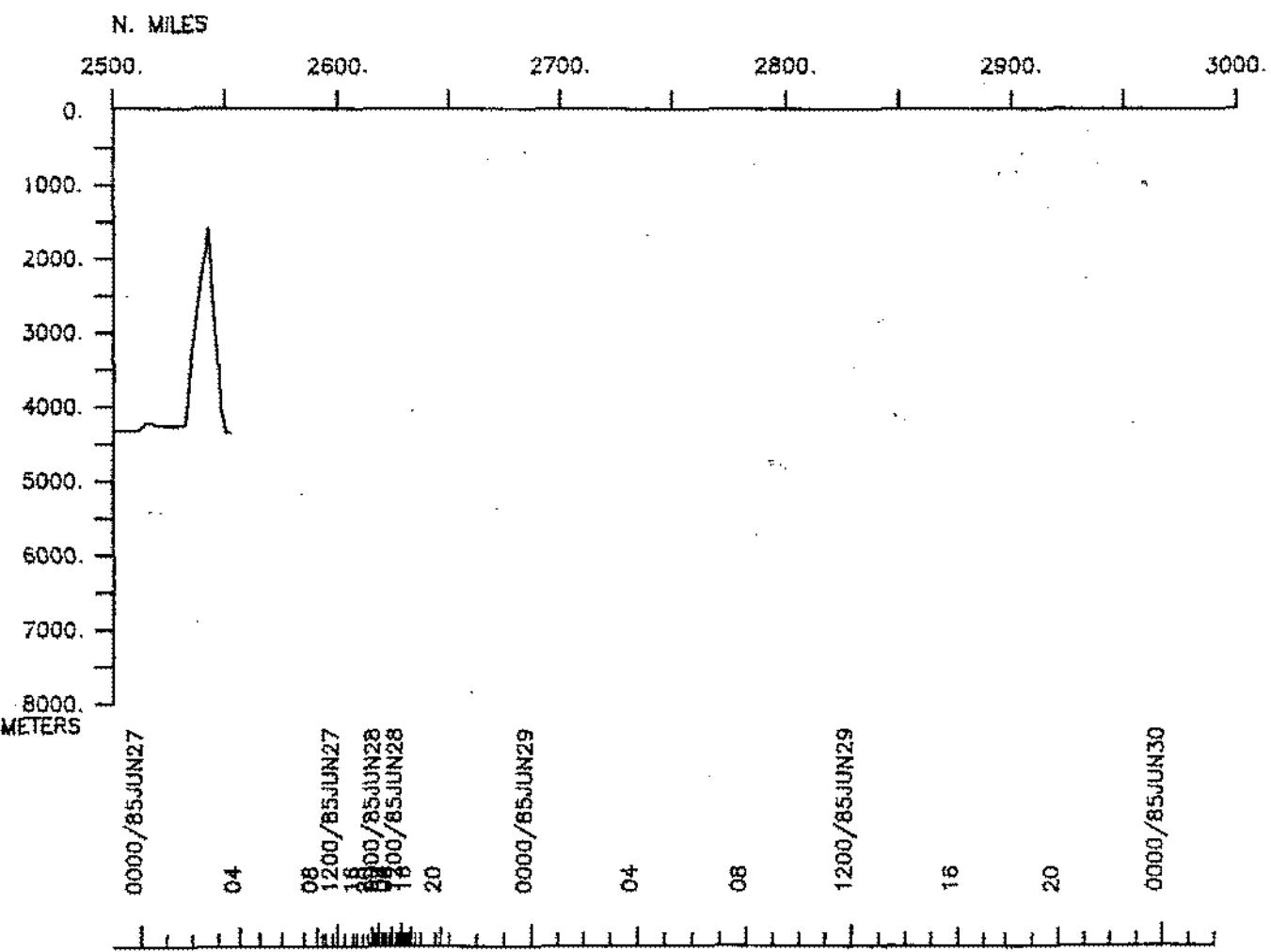
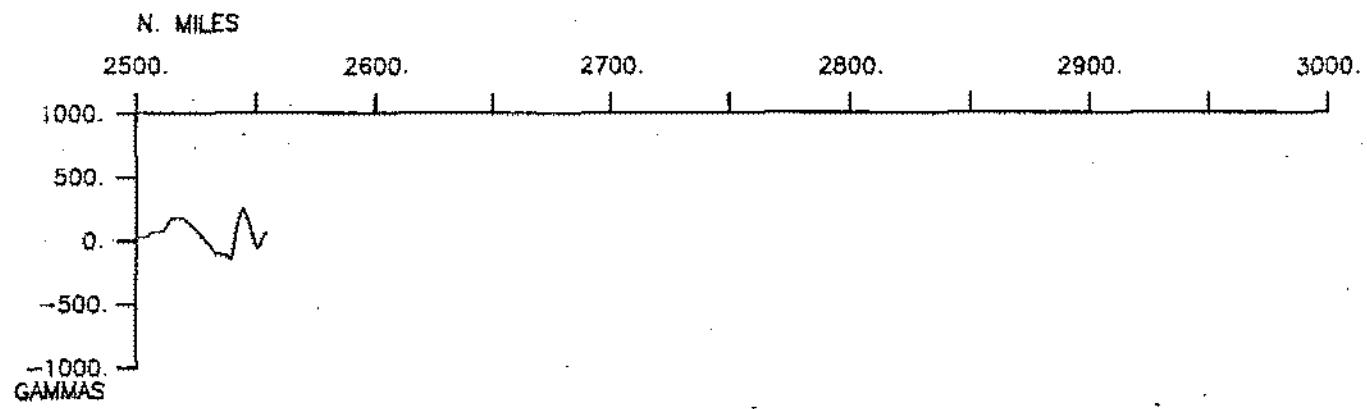
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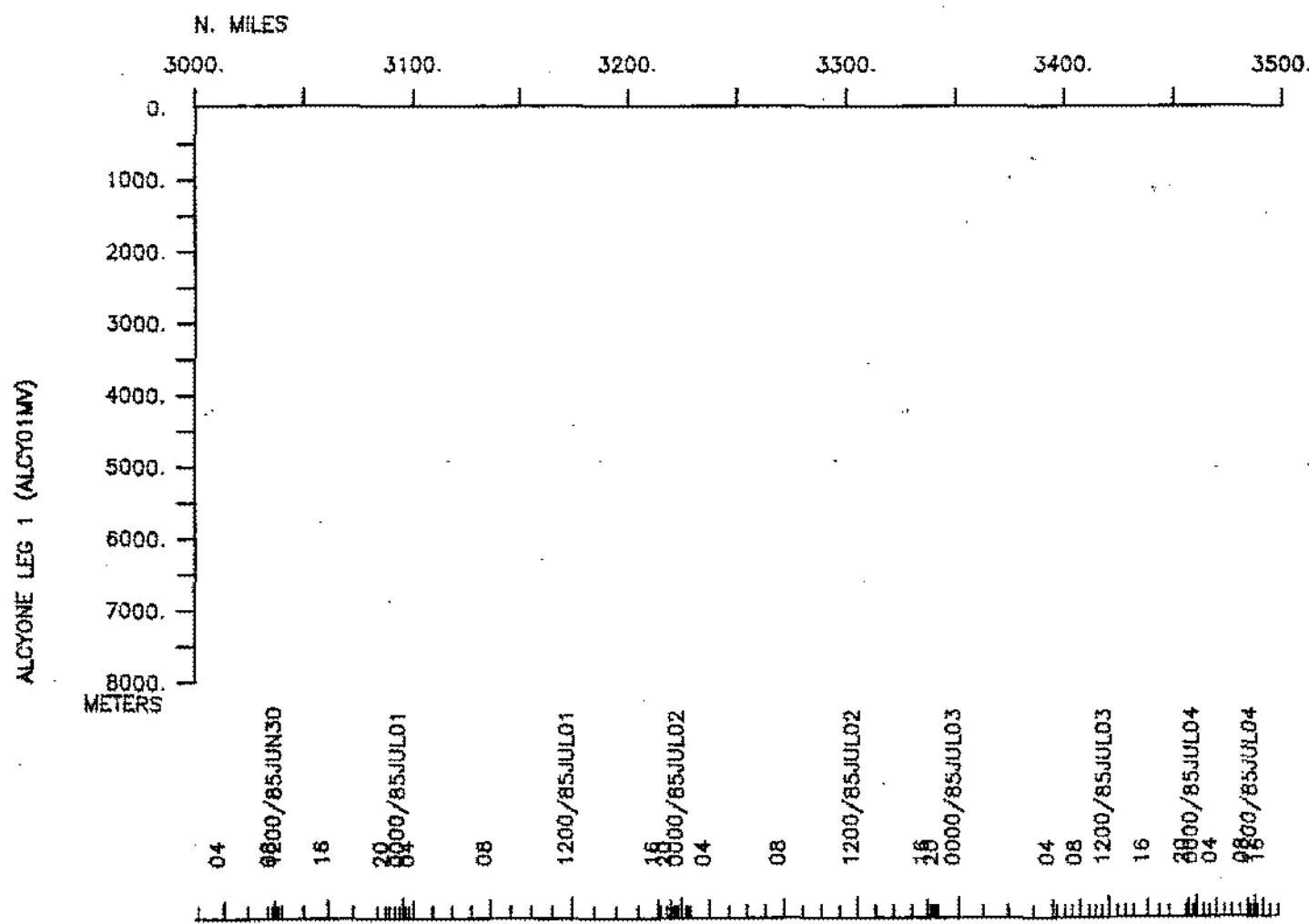
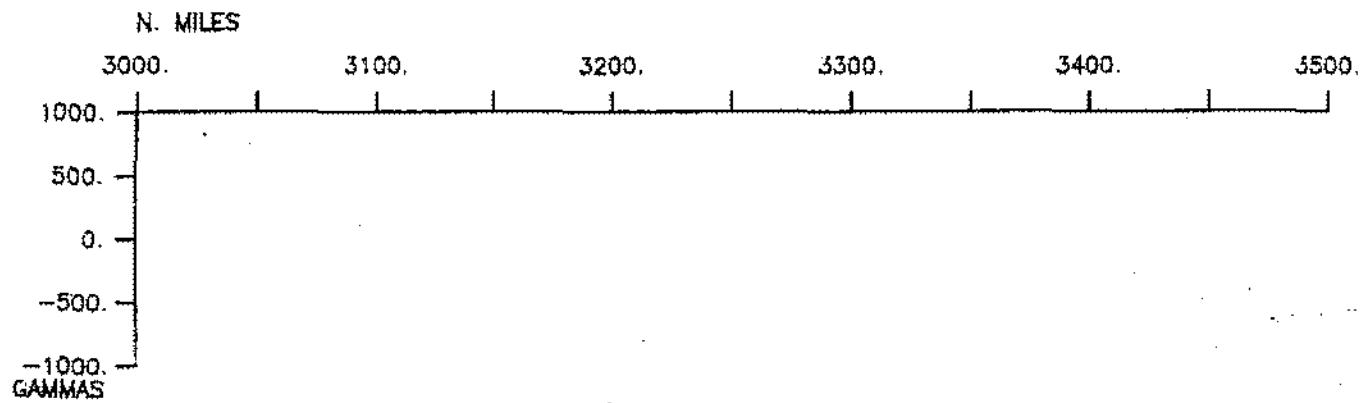


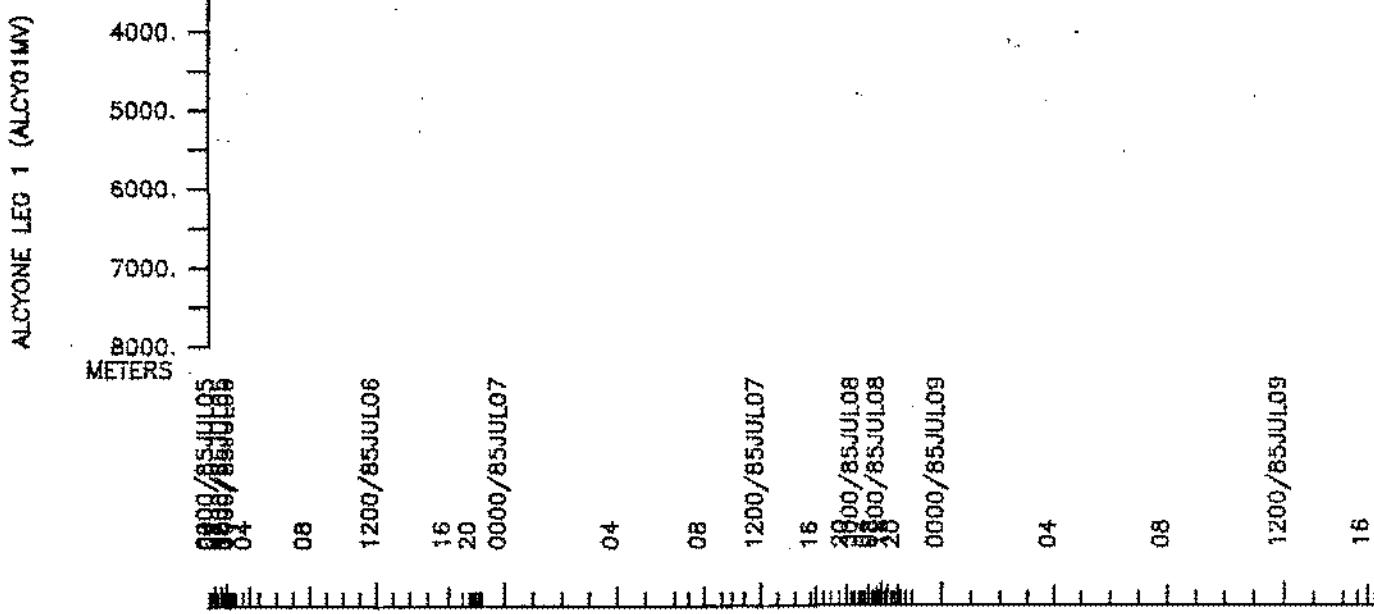
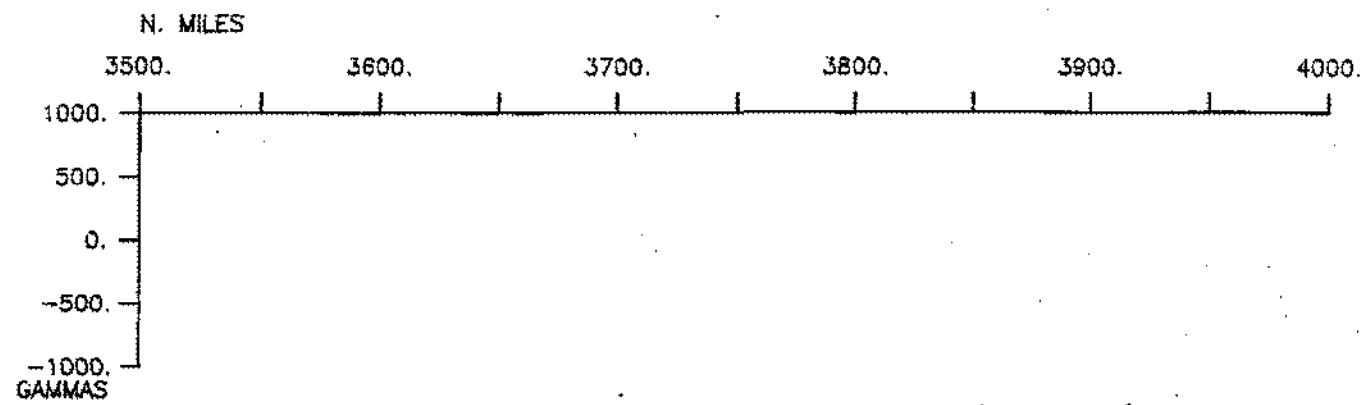


ALCYONE LEG 1 (ALCY01MV)

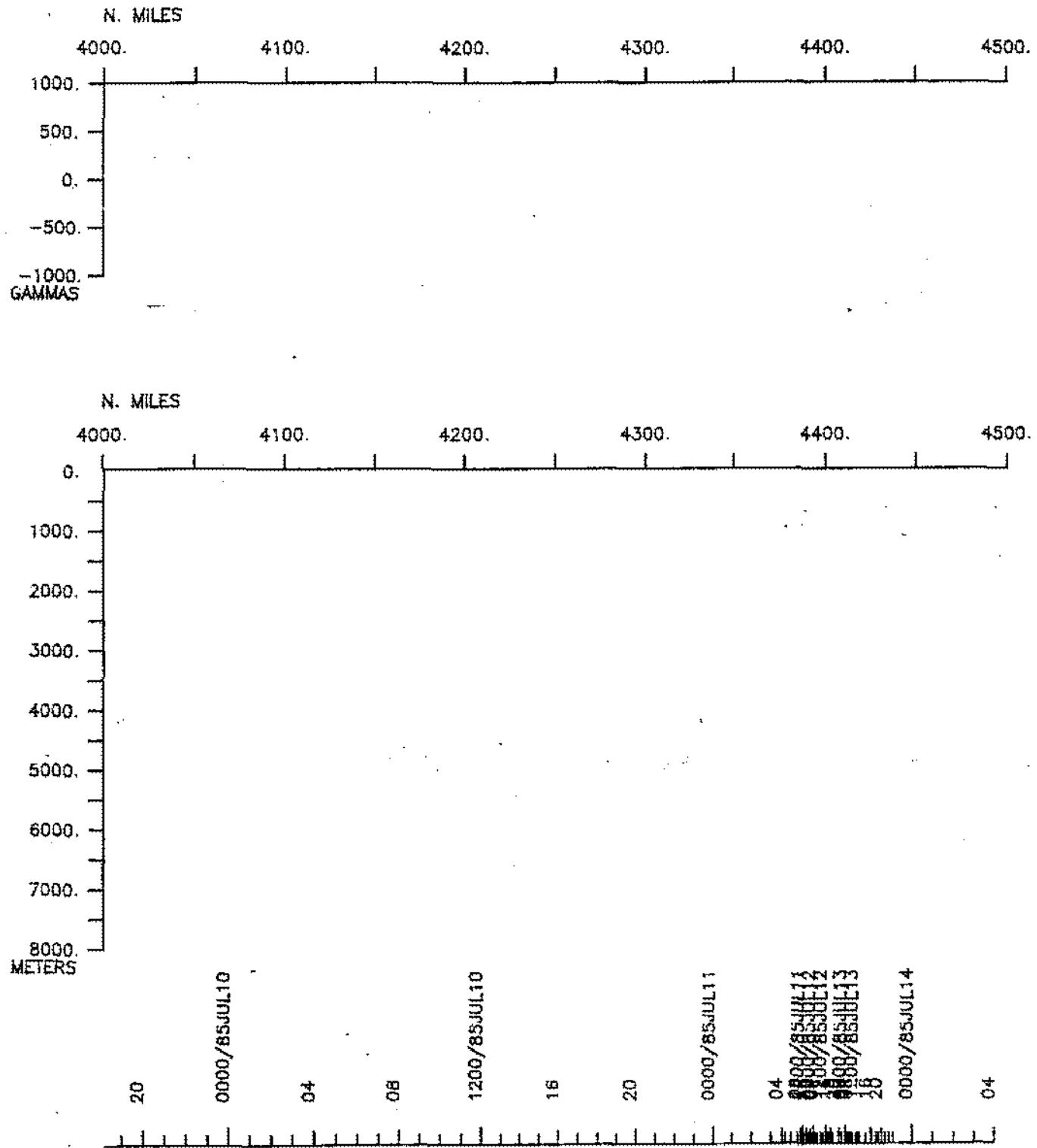




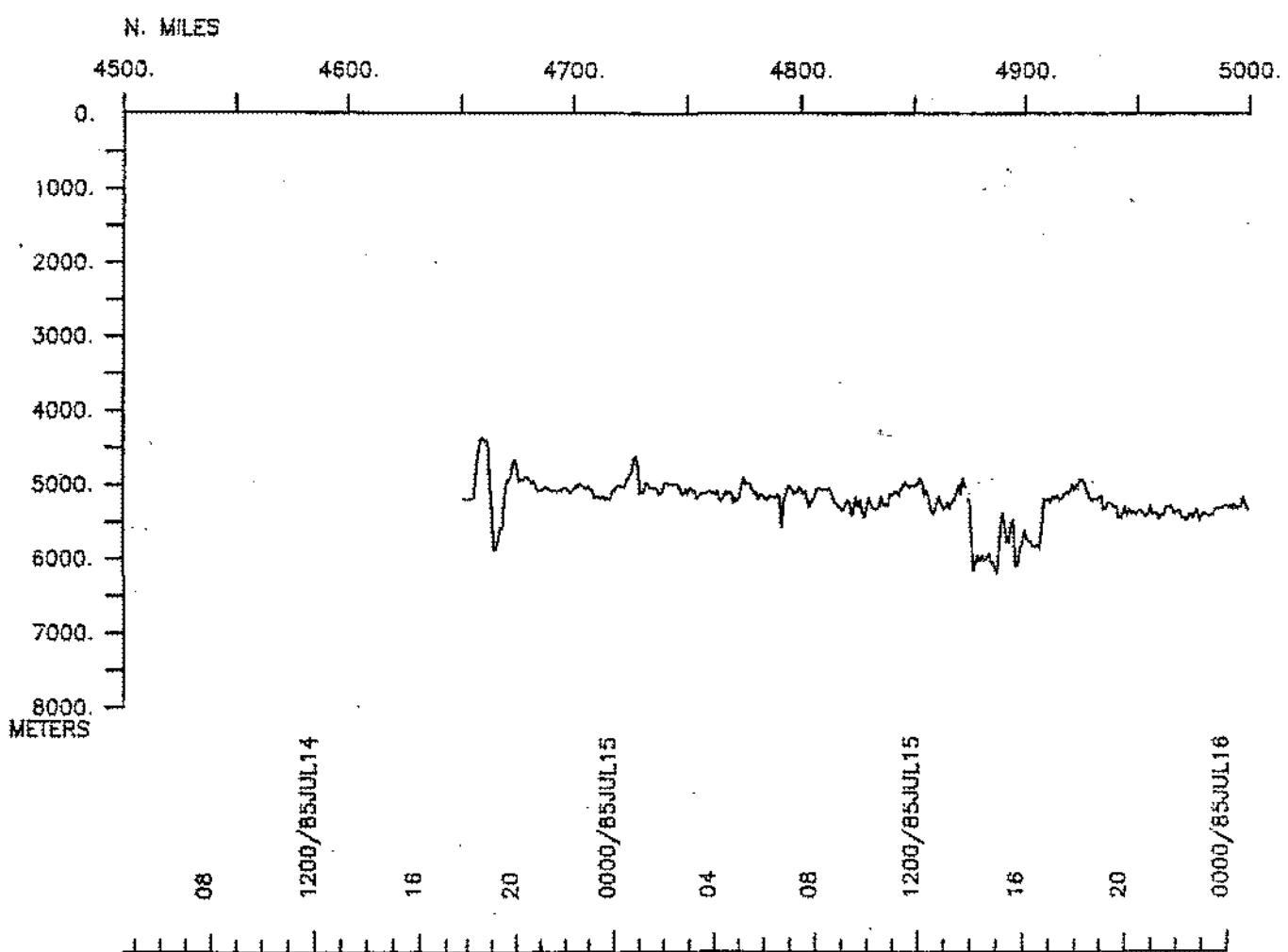
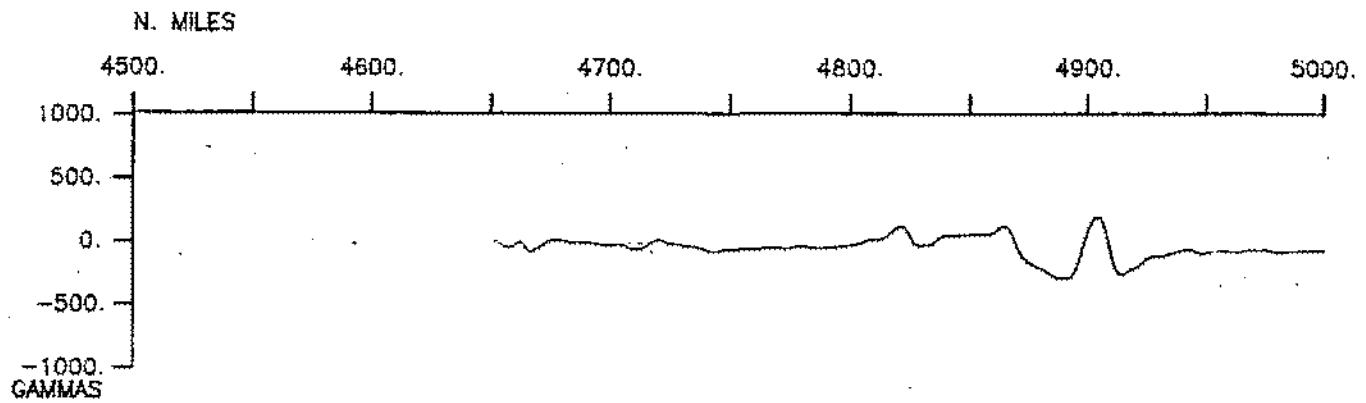


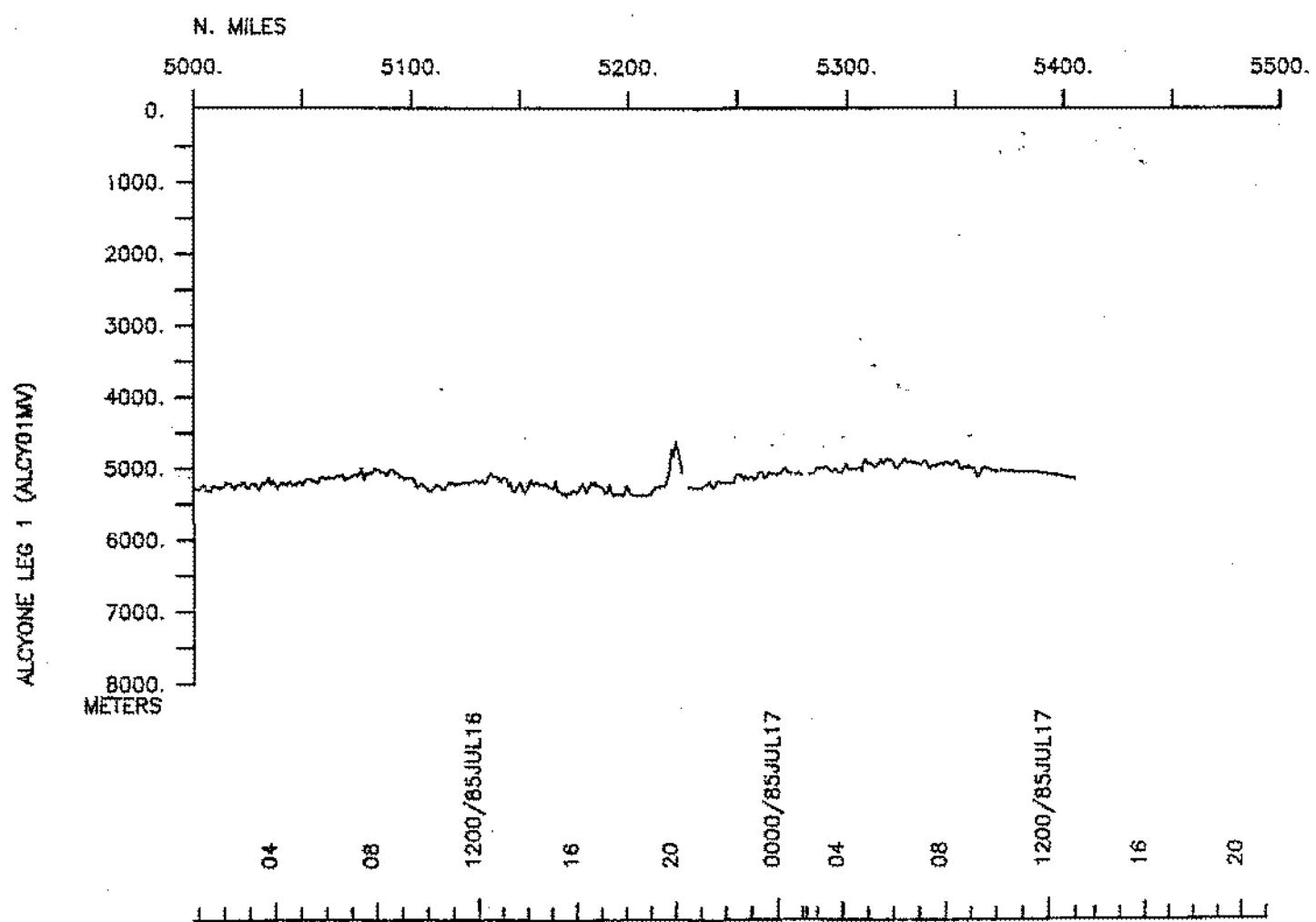
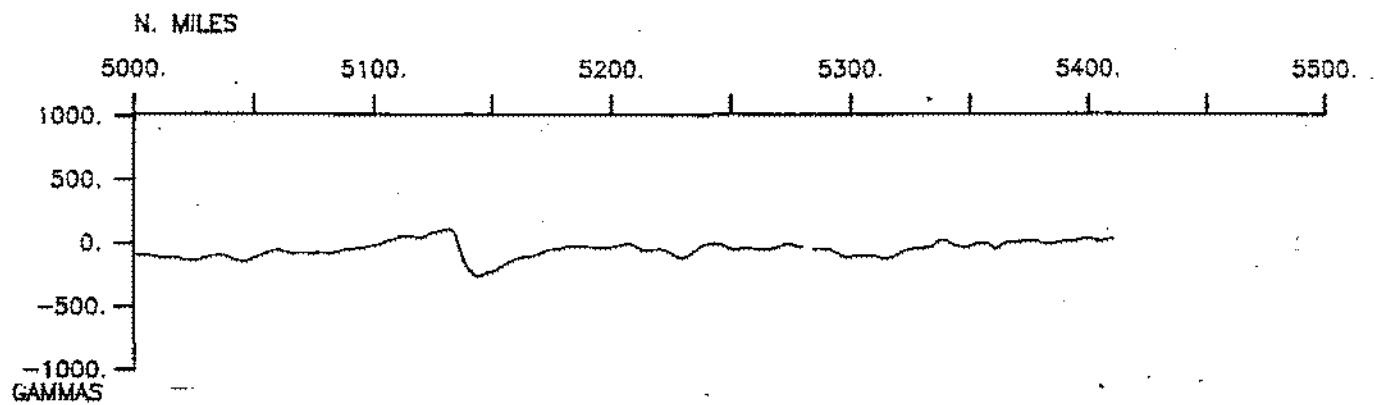


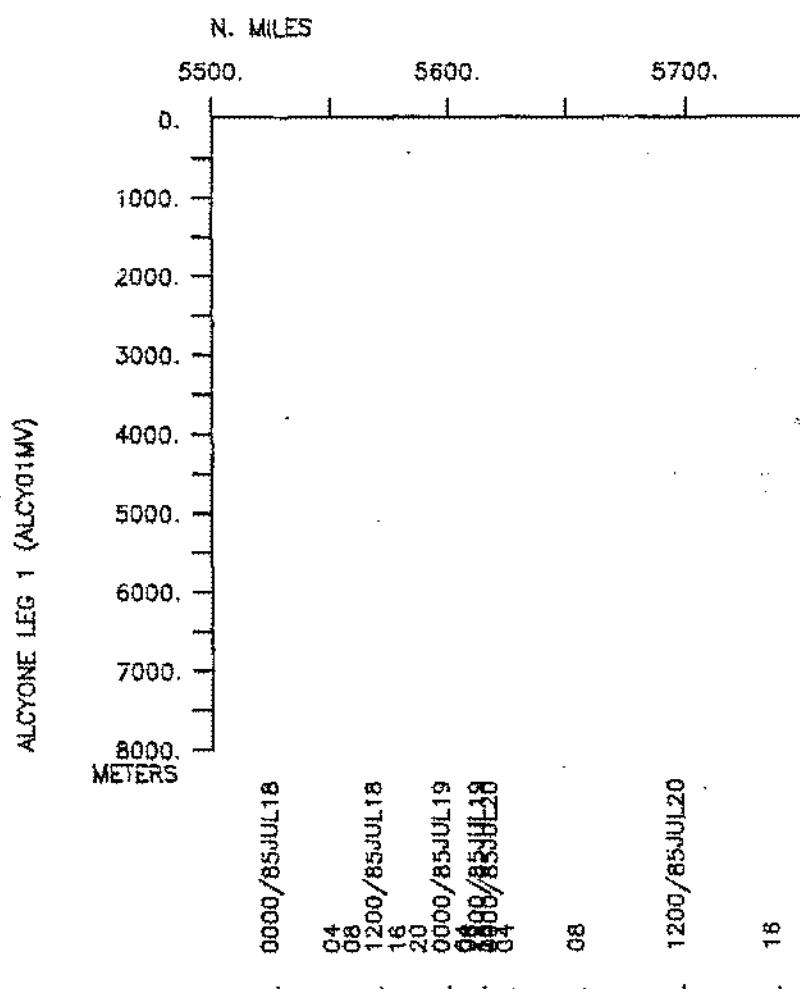
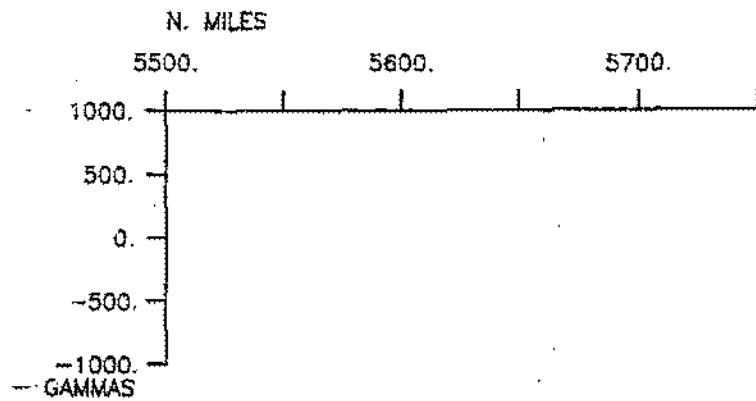
ALCYONE LEG 1 (ALCY01MW)



ALCYONE LEG 1 (ALCY01MV)







S.I.O. SAMPLE INDEX

(Re-Issued June 1986)

ALCYONE EXPEDITION

Leg 1

San Diego, California (16 June 1985)
to
Honolulu, Hawaii (20 July 1985)

R/V T. Washington

Chief Scientist - D. Luther

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. #221

****PORTS***

2100 160685	LGPT B SAN DIEGO, CALIF	32-43 N 117-11 W fALCY01MV
1800 200785	LGPT E HONOLULU, HAWAII	21-18 N 157-52 W fALCY01MV
1506 180685	LGUS B SAN DIEGO, CALIF	32-43 N 117-11 W fALCY01MV
2215 180685	LGUS E SAN DIEGO, CALIF	32-43 N 117-11 W fALCY01MV

****PERSONNEL***

#	***NAME***	***TITLE***	***AFFILIATION***	**CRID*
PECS ORD	LUTHER, D.	CHIEF SCIENTIST	SCRIPPS INSTITUTION	ALCY01MV
PEST SIX	BLAIR, S.	STUDENT	U.of CAL.SANTA BARBARA	ALCY01MV
PERT MTG	BOAZ, J.	RESIDENT TECH	SCRIPPS INSTITUTION	ALCY01MV
PEVL MPL	BOEGEMAN, T.	ENGINEER	SCRIPPS INSTITUTION	ALCY01MV
PEVL MPL	BOEGEMAN, M.	VOLUNTEER	SCRIPPS INSTITUTION	ALCY01MV
PECT MTG	BOUCHARD, G.	COMPUTER TECH	SCRIPPS INSTITUTION	ALCY01MV
PESP SIX	BROWN, G.	TECH	MASS. INST. TECHNOLOGY	ALCY01MV
PESP SIX	DONNELLY, P.	TECH	DRAPPER	ALCY01MV
PESP MPL	ELDER, B.	ENGINEER	SCRIPPS INSTITUTION	ALCY01MV
PEST MPL	HAMMER, P.	STUDENT	SCRIPPS INSTITUTION	ALCY01MV
PEST SIX	LEDERER, R.	STUDENT	U.of CAL.SANTA BARBARA	ALCY01MV
PEST ORD	MIRAMONTES, T.	STUDENT	SCRIPPS INSTITUTION	ALCY01MV
PECT MTG	MOORE, M.	COMPUTER TECH	SCRIPPS INSTITUTION	ALCY01MV
PESP ORD	PARKS, J.	DEV TECH	SCRIPPS INSTITUTION	ALCY01MV
PESP SIX	POMER, J.	TECH	WOODS HOLE	ALCY01MV
PESP SIX	REID, R.	TECH	DRAPPER	ALCY01MV
PESP SIX	BRANDNER	PROFESSOR	UNIV. OF HAWAII	ALCY01MV
PESP SIX	LEARNED	PROFESSOR	UNIV. OF HAWAII	ALCY01MV

****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.