

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

(Issued June 1986)

ATLAS EXPEDITION

LEG 2

Honolulu, Hawaii (16 November 1984)  
to  
San Diego, California (22 December 1984)

R/V Melville

Chief Scientist - R. Knox

Resident Marine Tech - G. Hargreaves

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

Data Collection Funded by NSF OCE83-17741  
Bathymetry 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.

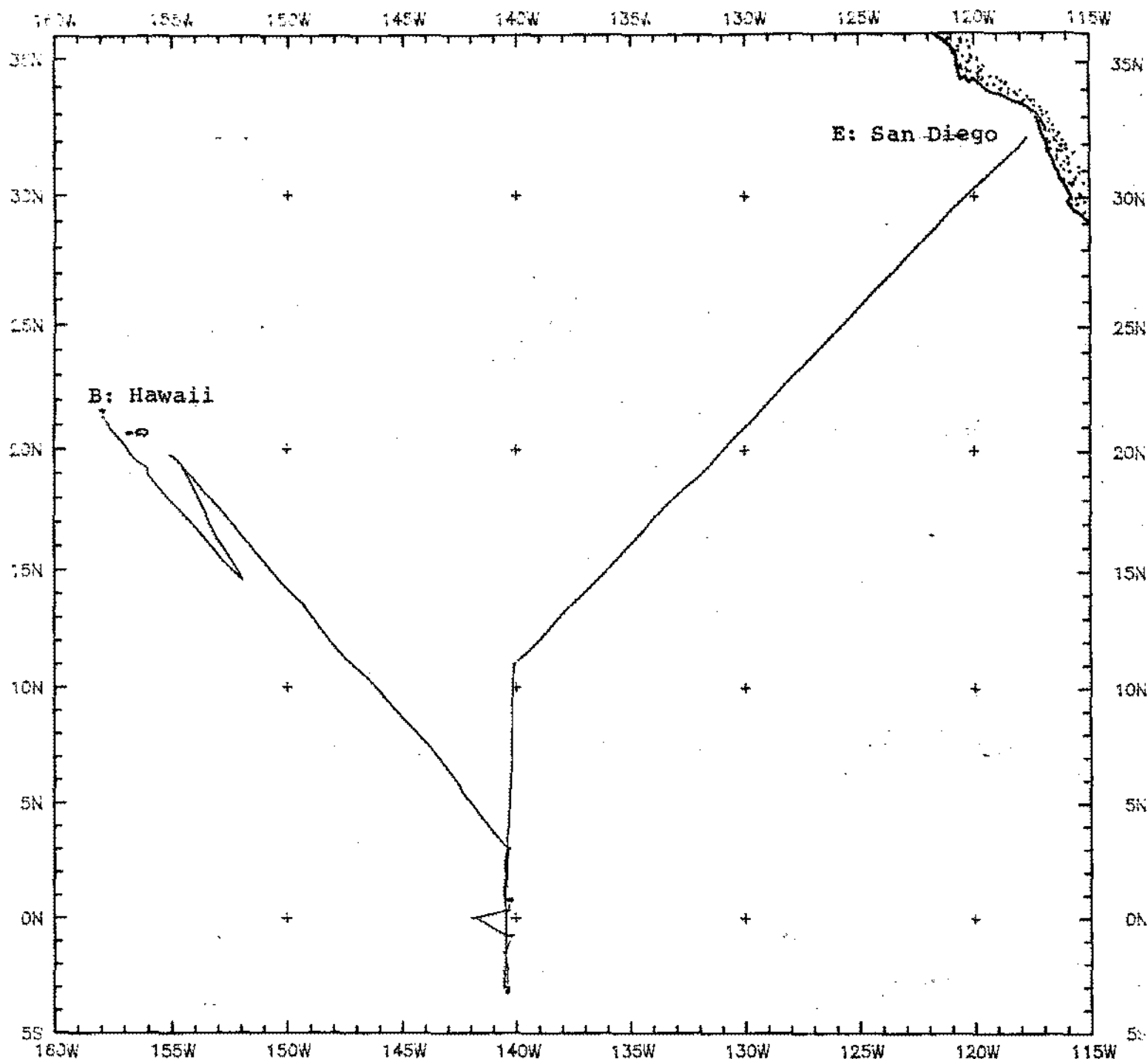
GDC Cruise I.D.# 216

## SIO Sea Beam Data

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

- 1) Archive contour copy of contour swath books generated in real time on board ship available for inspection at the Data Center.
- 2) Microfilm (35mm flowfilm) containing swath books plus, for some cruises, the UGR monitor record and navigation listings.
- 3) Sea Beam merged tapes - Sea Beam data merged with navigation. (Navigation is edited to the extent that poor fixes are removed after inspection of drift vectors between fix pairs. No editing is done on the basis of adjusting to overlapping Sea Beam swaths.)
- 4) 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).

S. M. Smith - June 1985



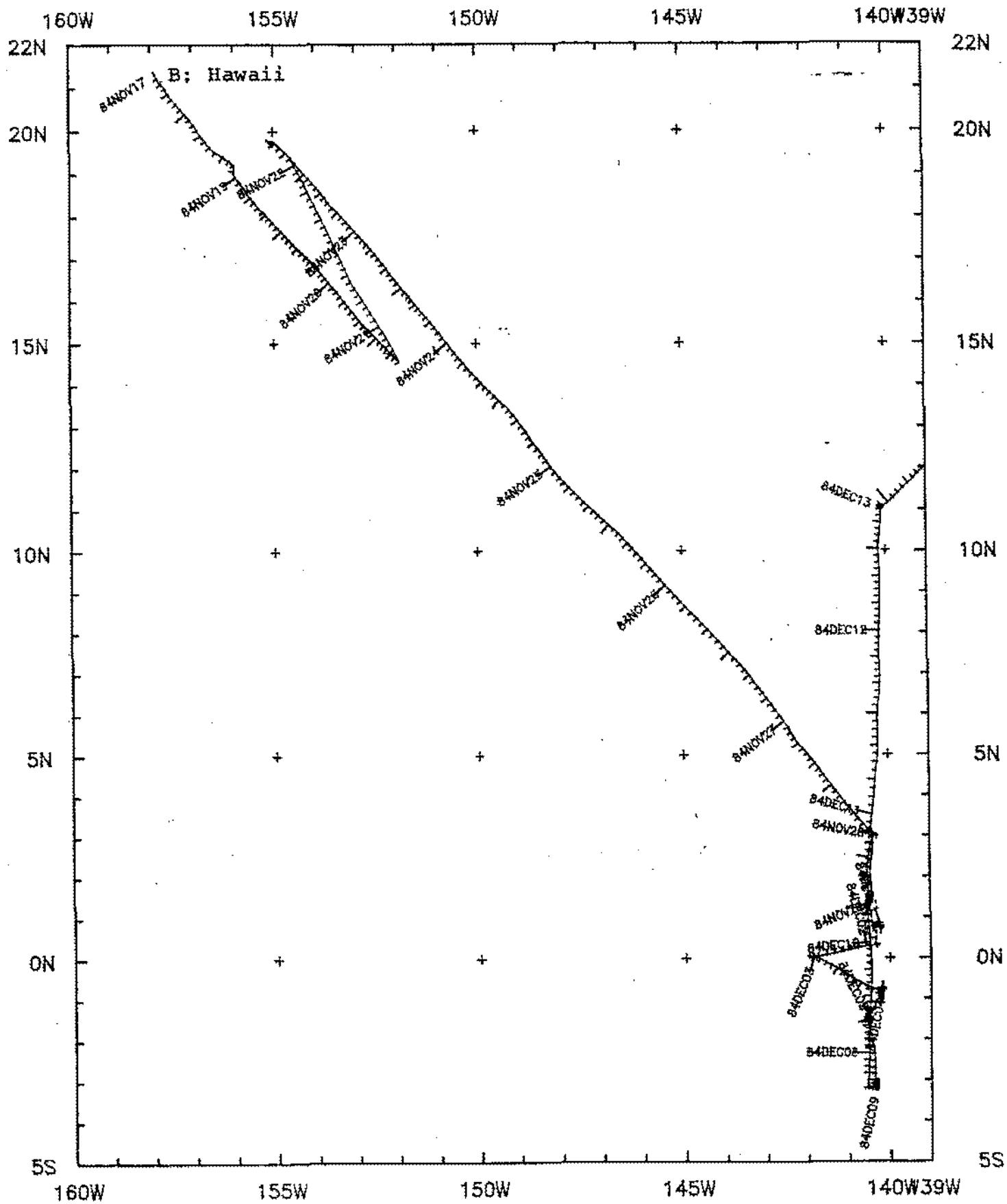
ATLAS LEG 02 Track at .1632in/degree

ATLAS EXPEDITION  
LEG 2

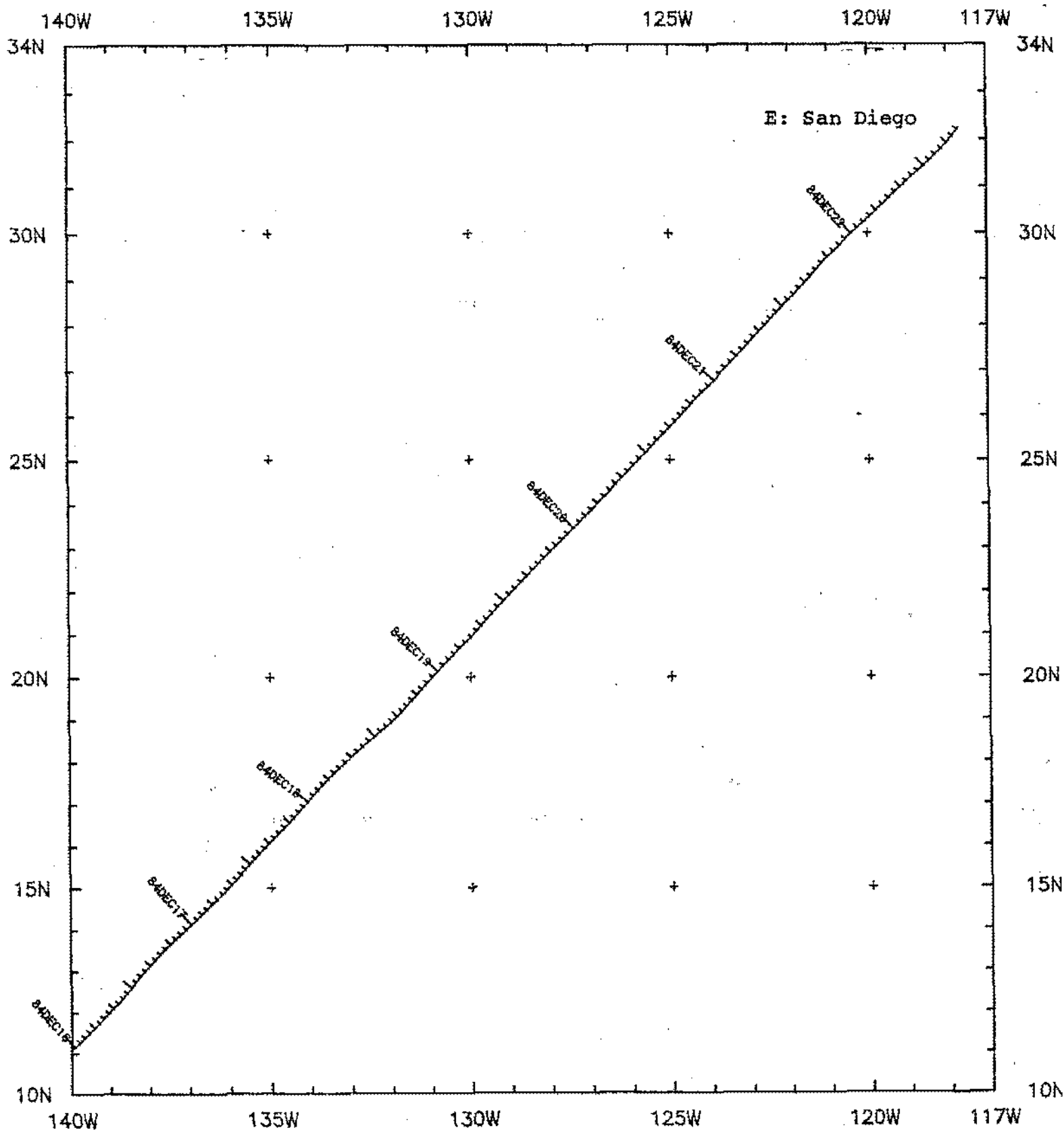
CHIEF SCIENTIST: R. Knox  
PORTS: Honolulu, Hawaii - San Diego, Calif.  
DATES: 16 November - 22 December 1984  
SHIP: R/V Melville

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

- 1) Cruise - 5992 miles
- 2) Bathymetry - 3442 miles
- 3) Magnetics - collected but not processed
- 4) Seismic Reflection - none collected
- 5) Gravity - none collected

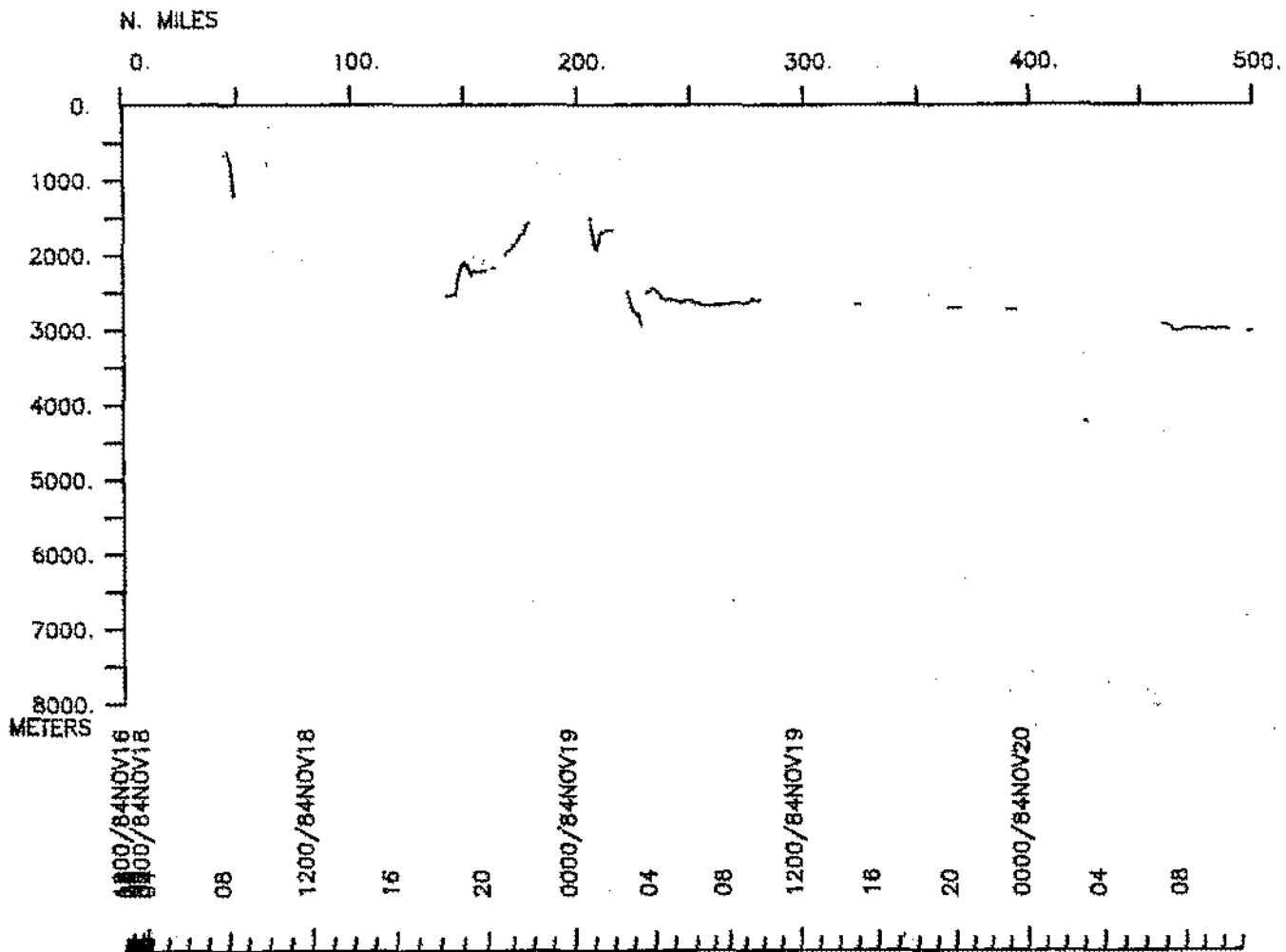


ATLAS LEG 02 Track 1 at .312in/degree

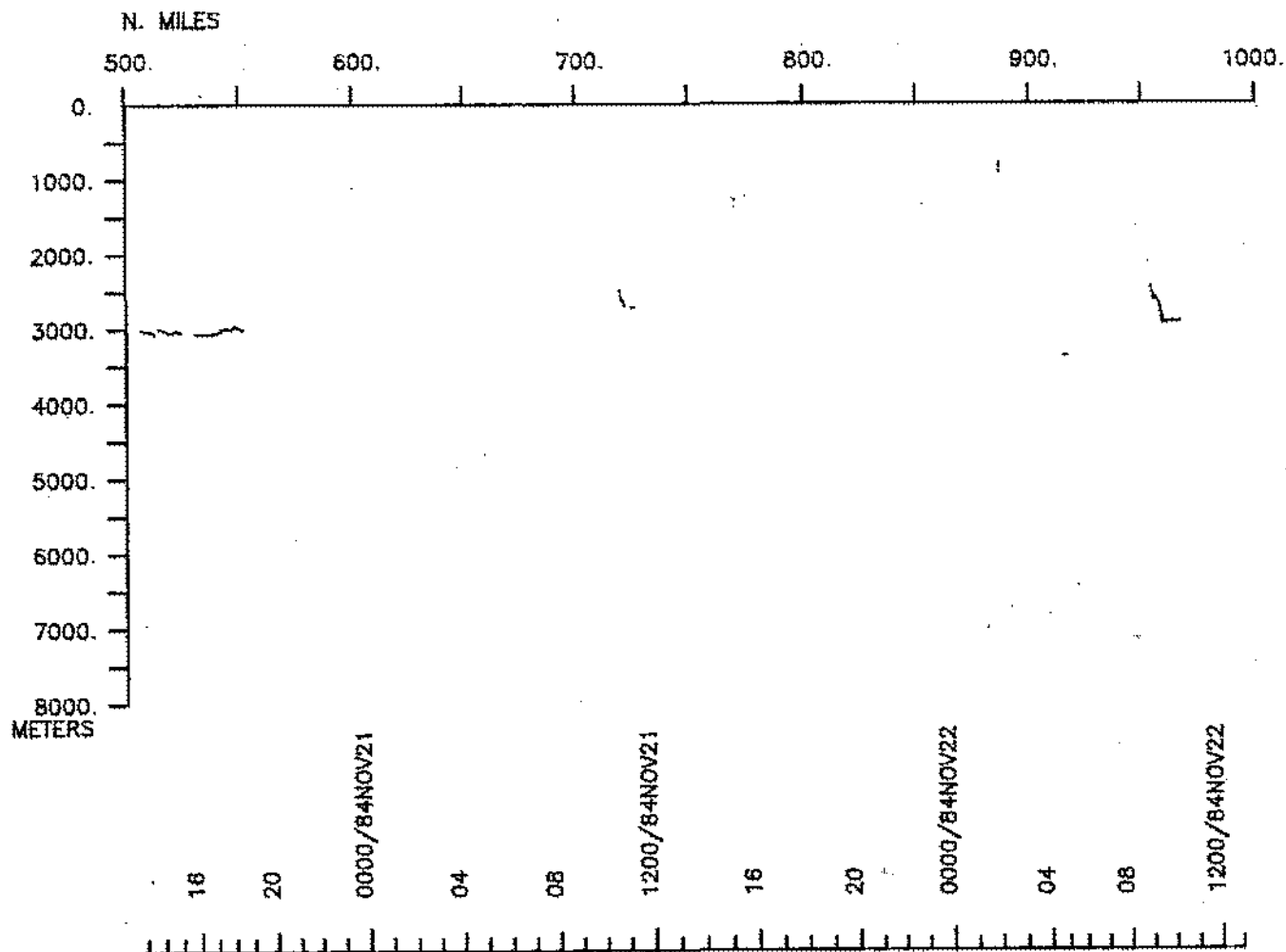


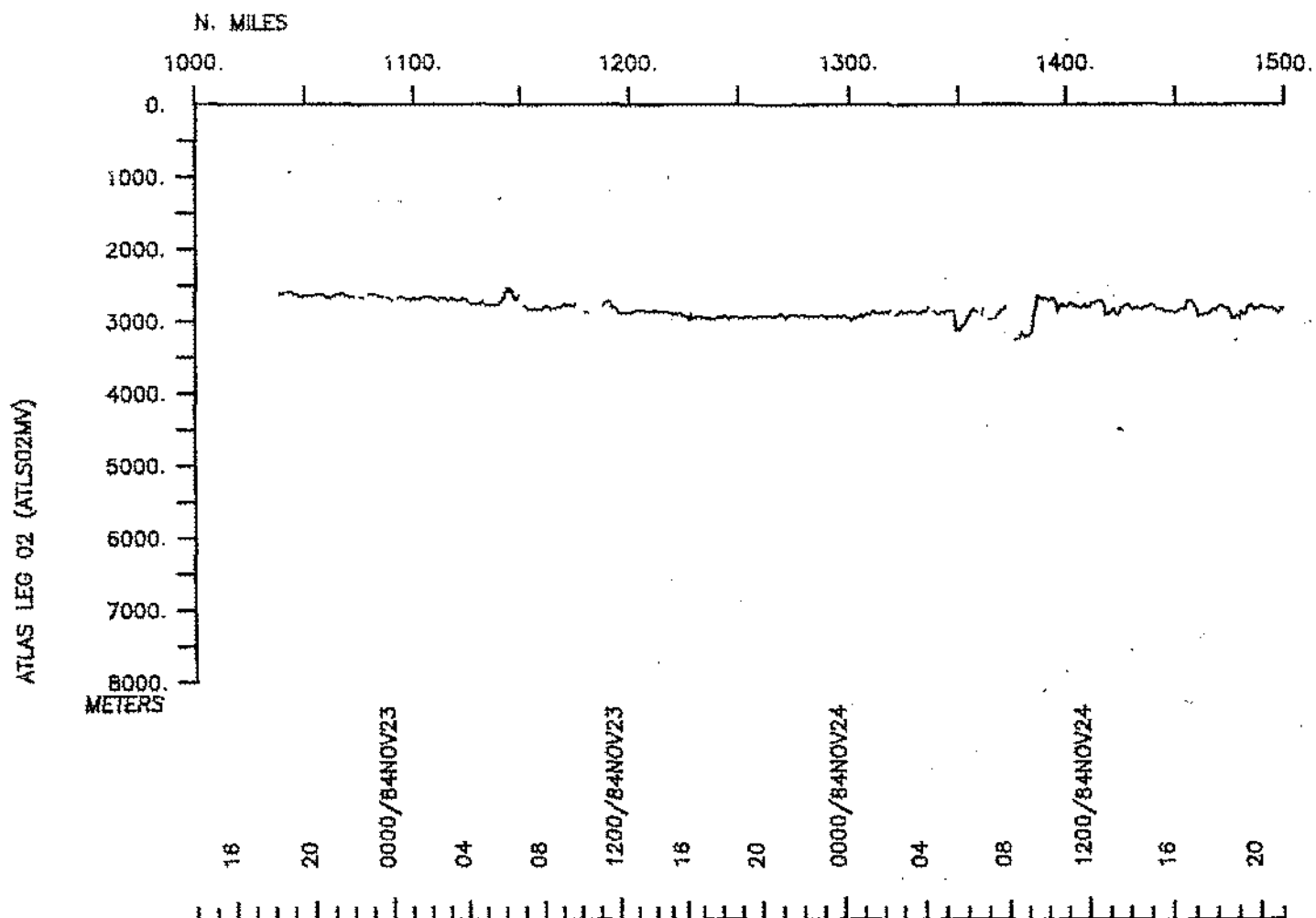
ATLAS LEG 02 Track 2 at .312in/degree

ATLAS LEG 02 (ATLS02MV)

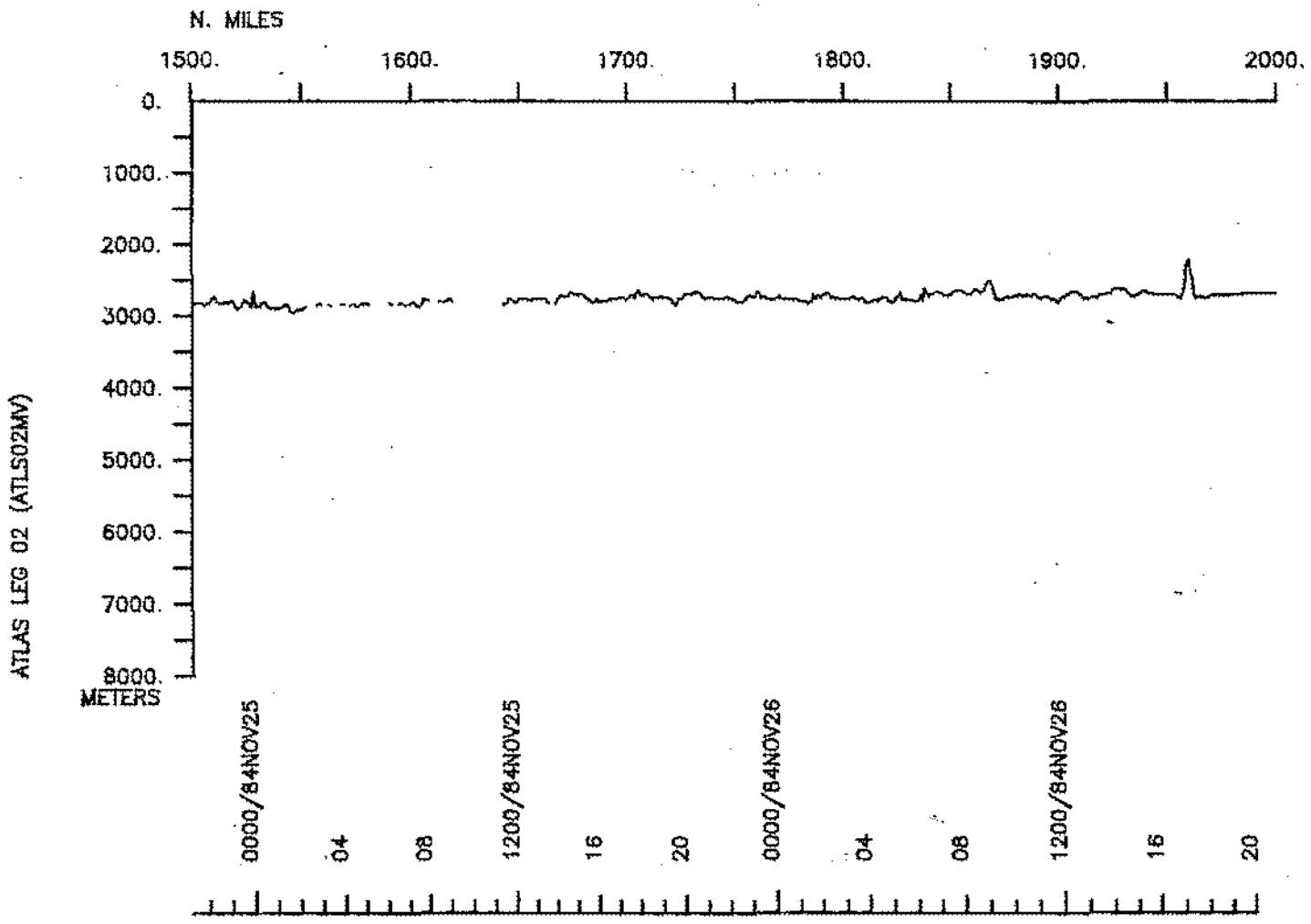


ATLAS LEG 02 (ATLS02MV)

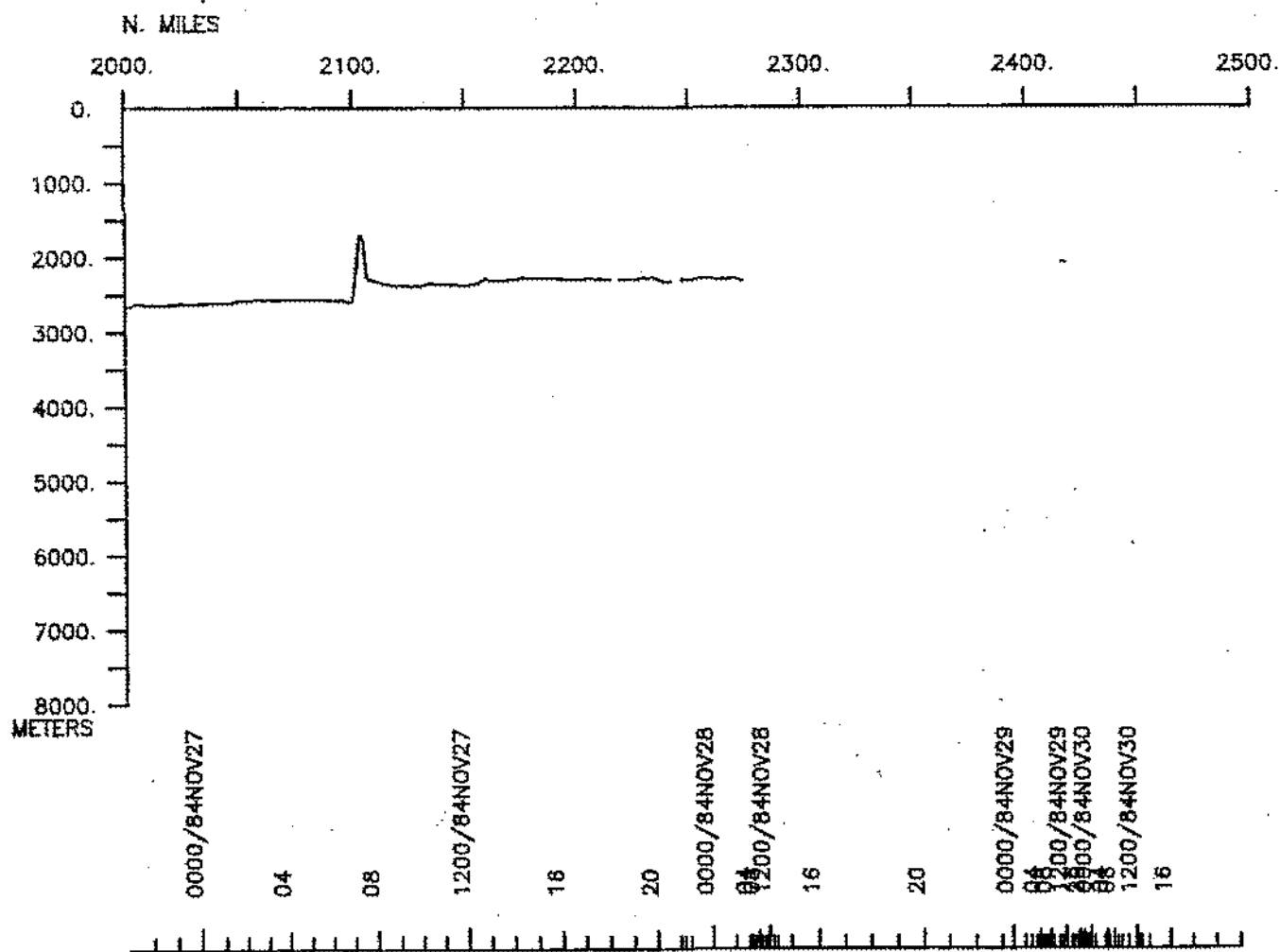




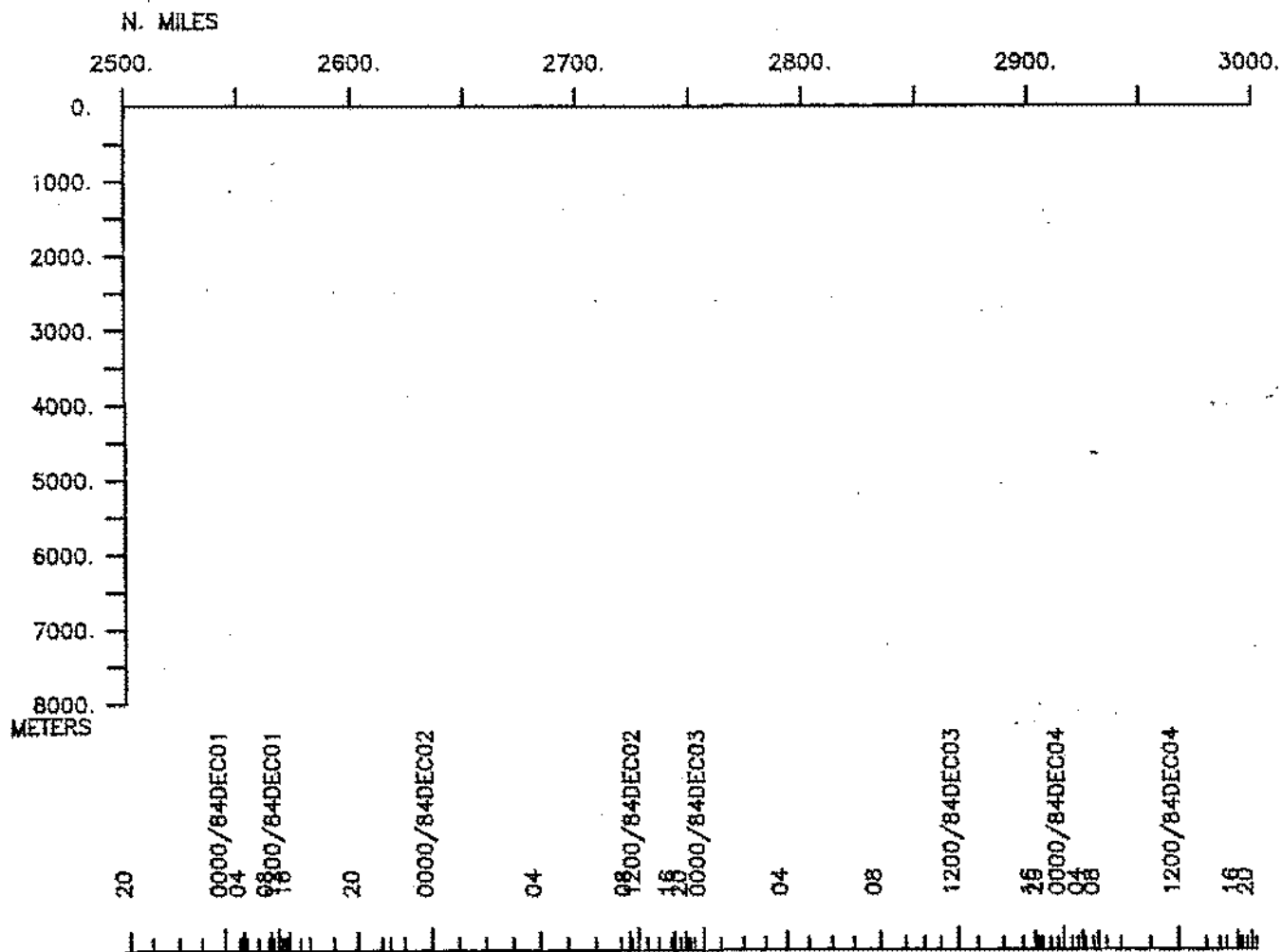




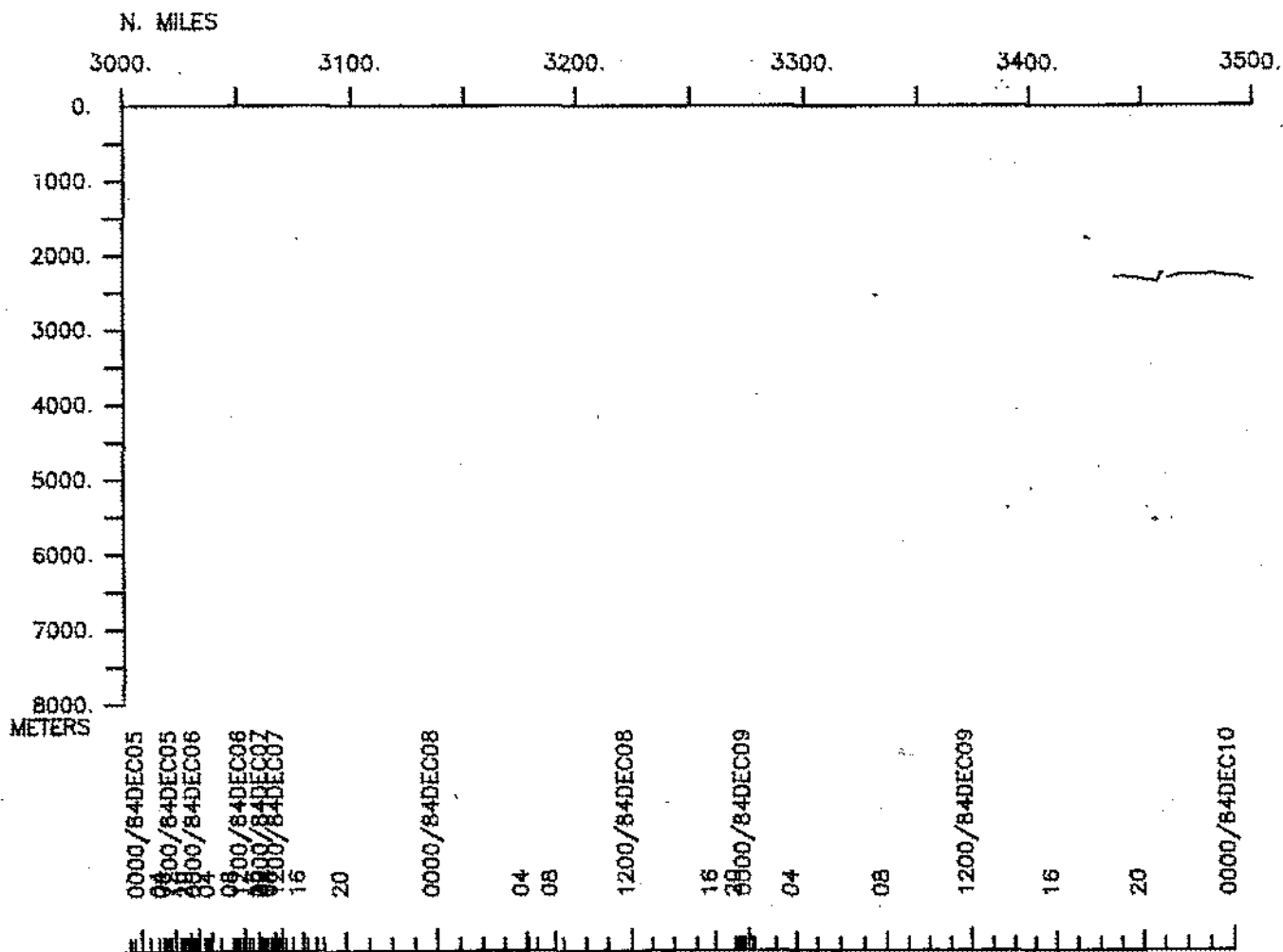
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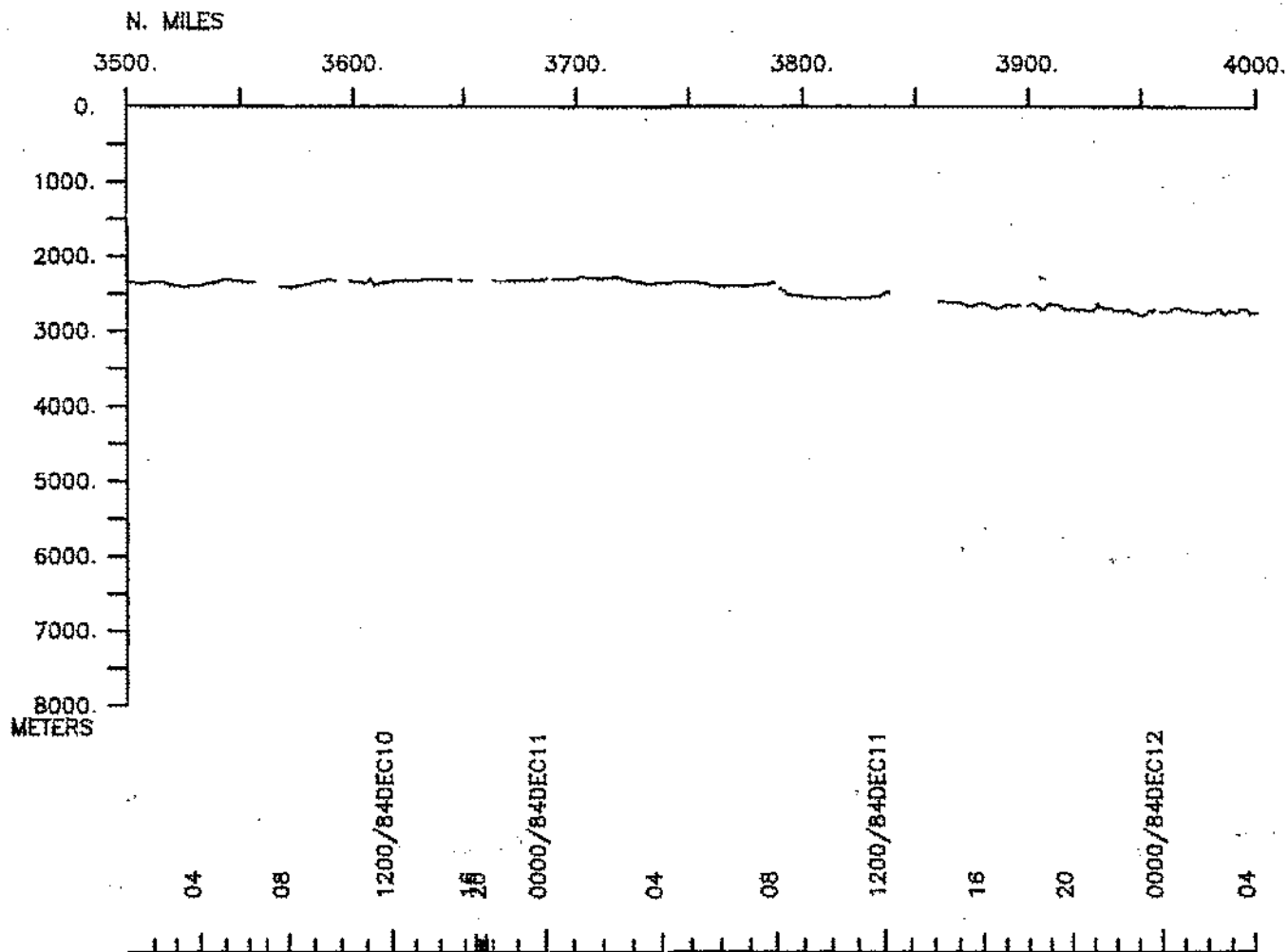
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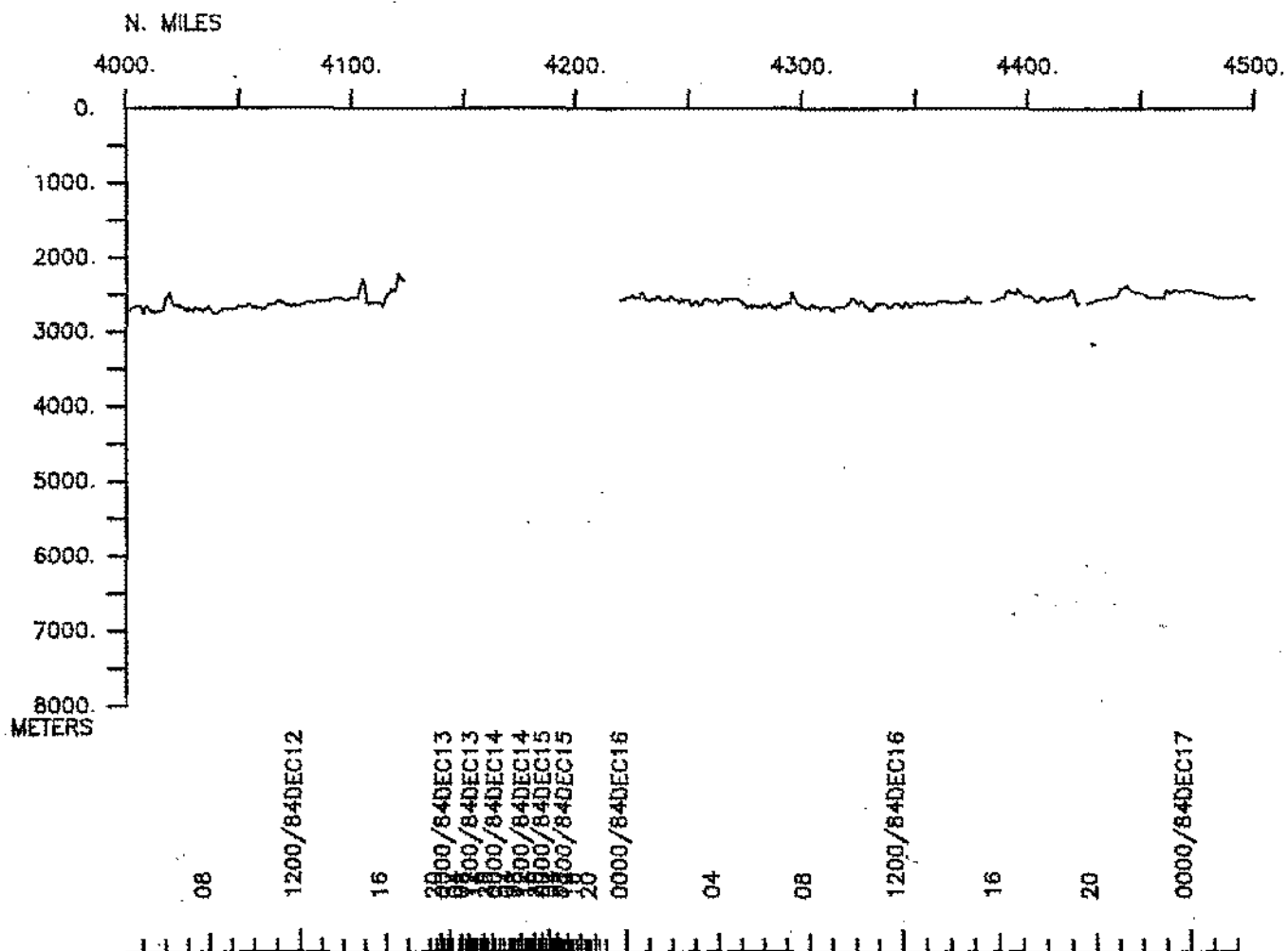
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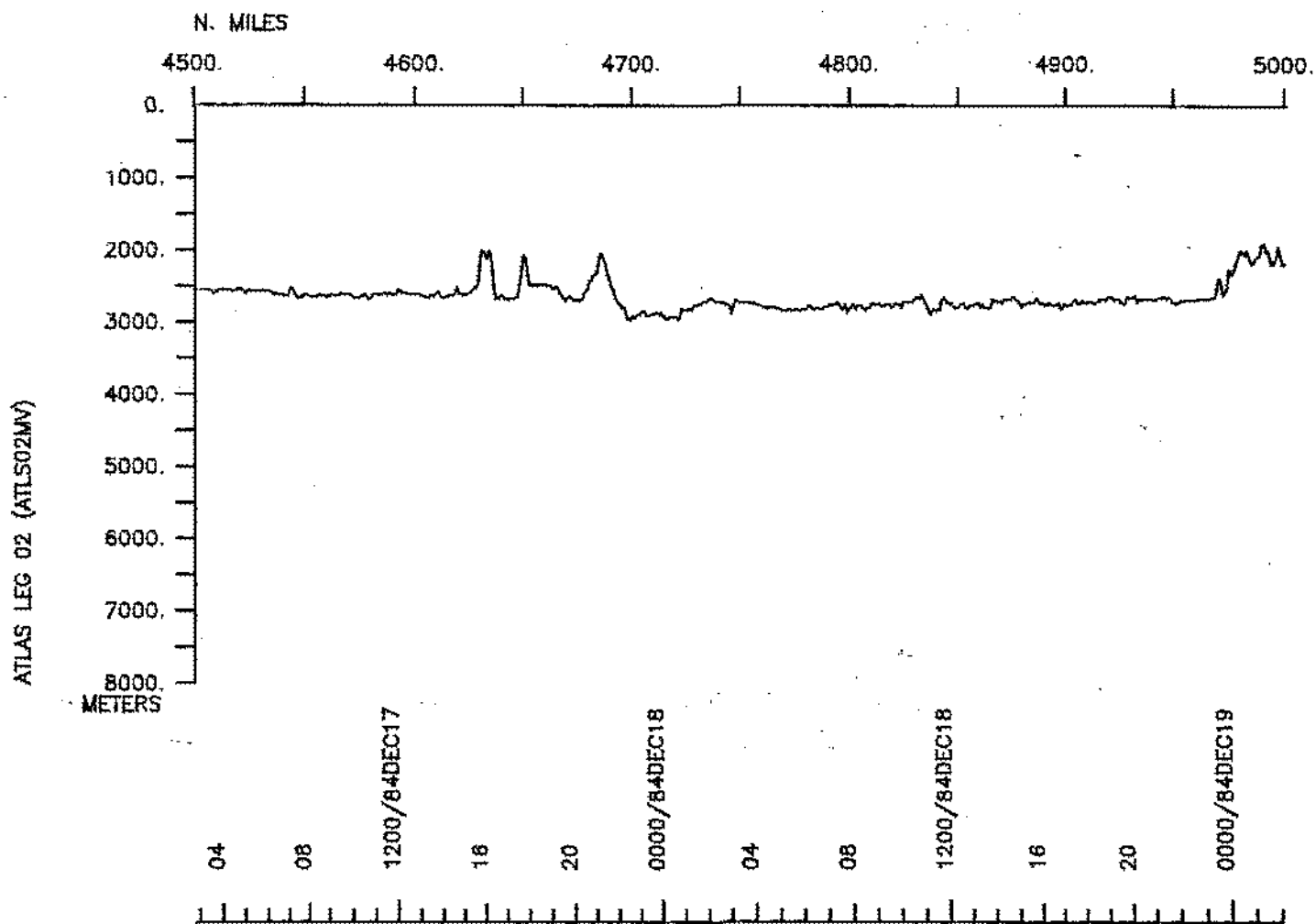


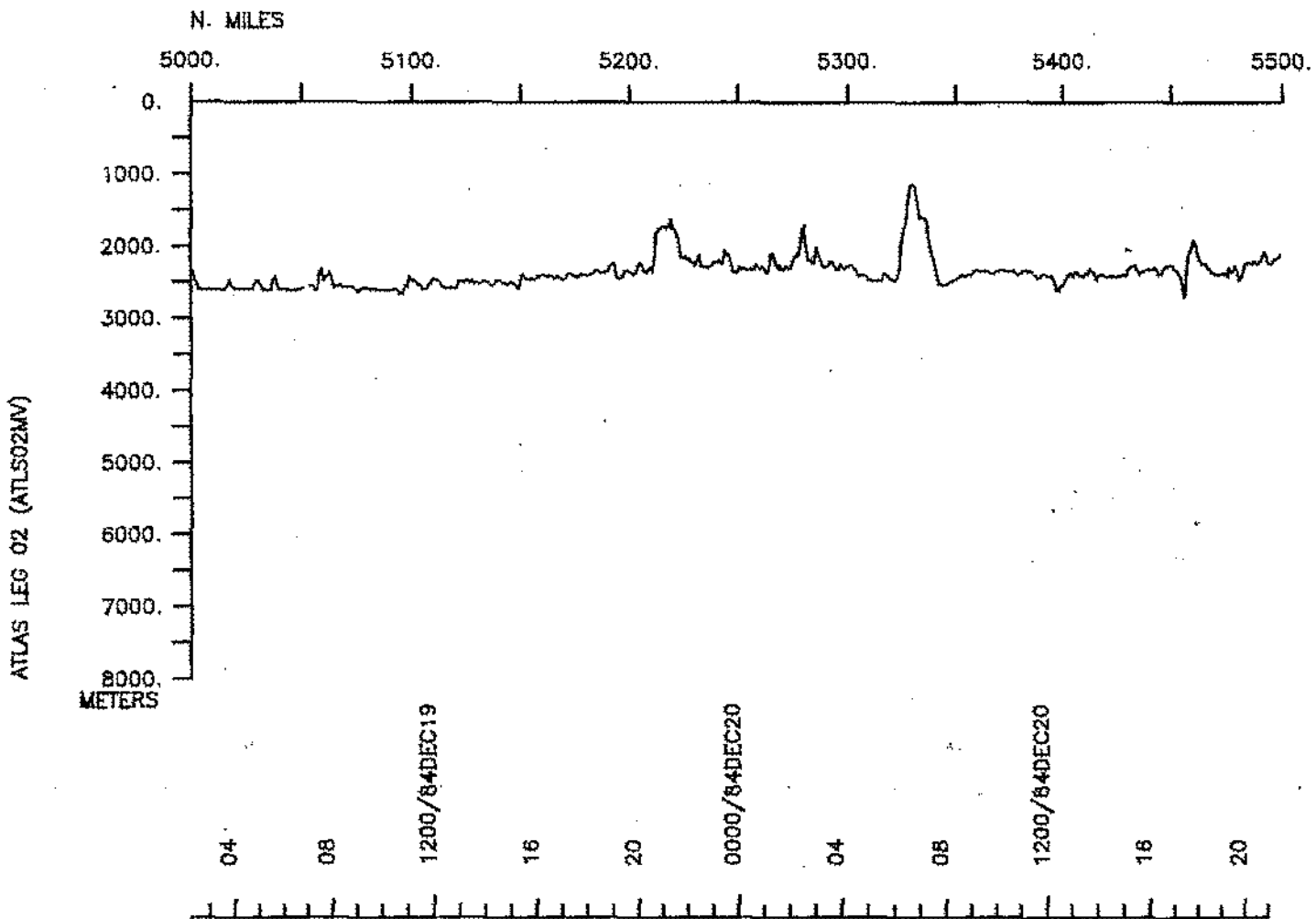
ATLAS LEG 02 (ATLS02MM)



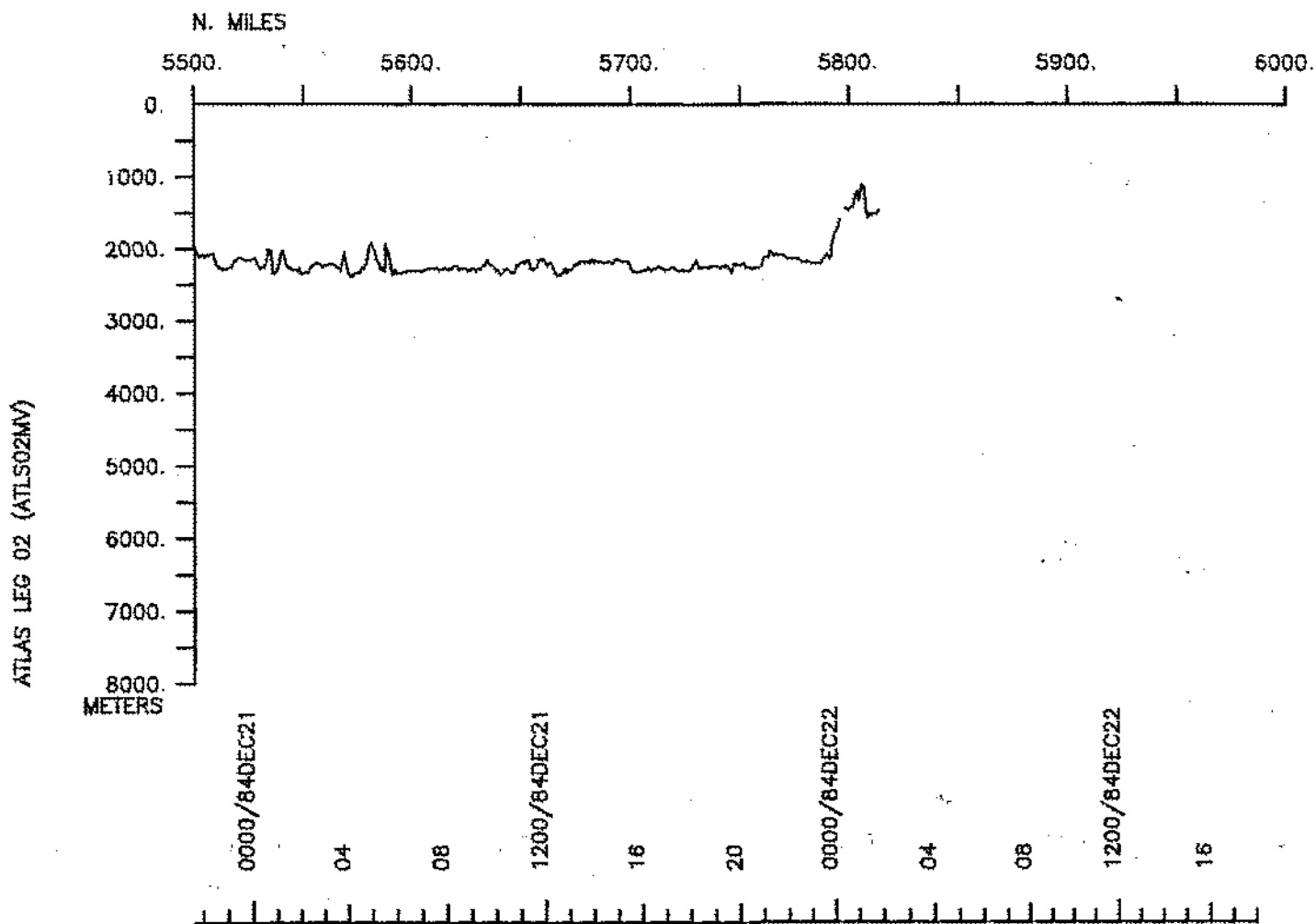
ATLAS LEG 02 (ATLS02MW)











# S.I.O. SAMPLE INDEX

(Issued June 1986)

## ATLAS EXPEDITION

### Leg 2

Honolulu, Hawaii (16 November 1984)  
to  
San Diego, Calif. (22 December 1984)

R/V Melville

Chief Scientist - R. Knox

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. #216

\*\*\*PORTS\*\*\*

0648 161184	LGPT B HONOLULU, HAWAII	21 18 N 157 52 W	fATLS02MV
1848 221284	LGPT E SAN DIEGO,CALIF	32-43 N 117-11 W	fATLS02MV

\*\*\*PERSONNEL\*\*\*

PECS IGP	KNOX,R.	CHIEF SCIENTIST	SCRIPPS INSTITUTE	ATLS02MV
PESP MIT	ERIKSEN,C.	SCIENTIST	MASS.INST.OF TECH.	ATLS02MV
PESP WHO	PAYNE,R.	SCIENTIST	WOODS HOLE OCEAN.INS.	ATLS02MV
PESP ORD	LUTHER,D.	SCIENTIST	SCRIPPS INSTITUTE	ATLS02MV
PESP MPL	BOEGEMAN,D.	ENGINEER	SCRIPPS INSTITUTE	ATLS02MV
PECT MTG	MOORE,M.	COMPUTER TECH	SCRIPPS INSTITUTE	ATLS02MV
PERT MTG	HARGREAVES,G.	RESIDENT TECH	SCRIPPS INSTITUTE	ATLS02MV
PESP MPL	LAWHEAD,R.	PROGRAMER	SCRIPPS INSTITUTE	ATLS02MV
PESP ORD	PARKS,G.	DVLMT TECH	SCRIPPS INSTITUTE	ATLS02MV
PESP SIX	REID,R.	ENGINEER	DRAPER LABS,MASS.	ATLS02MV
PESP OSU	BROOKSFORCE,K.	MARINE TECH	OREGON STATE UNIV.	ATLS02MV
PESP OSU	MOSER,C.	MARINE TECH	OREGON STATE UNIV.	ATLS02MV
PEST MIT	FUKUMORI,D.	STUDENT	MASS.INST.OF TECH.	ATLS02MV
PEST SIO	RUDNICK,D.	STUDENT	SCRIPPS INSTITUTE	ATLS02MV
PEST SIO	BOYD,T.	STUDENT	SCRIPPS INSTITUTE	ATLS02MV
PEST SIO	MUNASINGHE,T.	STUDENT	SCRIPPS INSTITUTE	ATLS02MV
PEST SIO	JOHNSON,E.	STUDENT	SCRIPPS INSTITUTE	ATLS02MV

\*\*\*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	SAMP	SAMPLE	DISP		CRUISE
#TIME DATE	CODE	IDENTIFIER	CODE LAT.	LONG.	LEG-SHIP
#					

\*\*\*UNDERWAY DATA CURATOR - S. M. SMITH EXT.2752

\*\*\*DEPTH RECORDERS\*\*\*

0800 181184	DPRT B UGR 12 KHZ R-01	GDC 20-516N 157-336W	sATLS02MV
0203 221184	DPRT E UGR 12 KHZ R-01	GDC 19-308N 154-428W	sATLS02MV
0817 221184	DPRT B UGR 12 KHZ R-02	GDC 19-282N 154-407W	sATLS02MV
1611 261184	DPRT E UGR 12 KHZ R-02	GDC 6-560N 143-225W	sATLS02MV
1618 261184	DPRT B UGR 12 KHZ R-03	GDC 6-551N 143-217W	sATLS02MV
2245 031284	DPRT E UGR 12 KHZ R-03	GDC 0-450S 140-130W	sATLS02MV
2250 031284	DPRT B UGR 12 KHZ R-04	GDC 0-451S 140-129W	sATLS02MV
1010 101184	DPRT E UGR 12 KHZ R-04	GDC 21-191N 157-530W	sATLS02MV

#GMT DDMYY #TIME DATE #	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1016 101284	DPRT B	UGR 12 KHZ R-05	GDC	2-082N	140-312W	sATLS02MV
1630 121284	DPRT E	UGR 12 KHZ R-05	GDC	10-449N	140-064W	sATLS02MV
2326 151284	DPRT B	UGR 12 KHZ R-06	GDC	11-054N	139-599W	sATLS02MV
0210 221184	DPRT E	UGR 12 KHZ R-06	GDC	19-317N	154-437W	sATLS02MV

## \*\*\*CURRENT METERS\*\*\*

1111 281184	CMAB B	CUR.MOORING TH7	IGP	3-032N	140-222W	sATLS02MV
1848 221284	CMAB C	TH7(next TROPIC HEAT)	IGP	32-189N	117-384W	sATLS02MV
2100 291184	CMAB X	LINE PARTED,LOST	IGP	1-239N	140-266W	sATLS02MV
1110 301184	CMAB B	CUR.MOORING TH8	IGP	1-239N	140-282W	sATLS02MV
1848 221284	CMAB C	TH8(next TROPIC HEAT)	IGP	32-189N	117-384W	sATLS02MV
1446 011284	CMXX B	PROFILING C.M.(PCM)01	IGP	0-480N	140-149W	sATLS02MV
1848 221284	CMXX C	PCM01(next TROPIC HT)	IGP	32-189N	117-384W	sATLS02MV
2021 021284	CMXX B	PROFILING C.M.(PCM)02	IGP	0-003N	141-536W	sATLS02MV
1848 221284	CMXX C	PCM02(next TROPIC HT)	IGP	32-189N	117-384W	sATLS02MV
0517 041284	CMXX B	PROFILING C.M.(PCM)03	IGP	0-466S	140-116W	sATLS02MV
1848 221284	CMXX C	PCM03(next TROPIC HT)	IGP	32-189N	117-384W	sATLS02MV
1211 061284	CMXX B	CUR.MOORING TH10	IGP	1-302S	140-298W	sATLS02MV
1848 221284	CMXX C	TH10(next TROPIC HT)	IGP	32-189N	117-384W	sATLS02MV
0015 091284	CMXX B	CUR.MOORING TH11	IGP	3-099S	140-205W	sATLS02MV
1848 221284	CMXX C	TH11(next TROPIC HT)	IGP	32-189N	117-384W	sATLS02MV

## \*\*\*ACOUSTIC NAVIGATION\*\*\*

0036 011284	ACXX B	ACOUSTIC NAVIGATION	IGP	0-491N	140-189W	sATLS02MV
1721 011284	ACXX E	TRANSPONDER(ANTX)	IGP	0-494N	140-190W	sATLS02MV
0112 011284	ACXX B	AC.NAV.TRANSP.(ANTX)	IGP	0-517N	140-192W	sATLS02MV
1744 011284	ACXX E	AC.NAV.TRANSP.(ANTX)	IGP	0-504N	140-191W	sATLS02MV
0728 021284	ACXX B	AC.NAV.TRANSP.(ANTX)	IGP	0-015N	141-508W	sATLS02MV
0000 031284	ACXX E	AC.NAV.TRANSP.(ANTX)	IGP	0-011N	141-497W	sATLS02MV
0816 021284	ACXX B	AC.NAV.TRANSP.(ANTX)	IGP	0-001N	141-513W	sATLS02MV
0000 031284	ACXX E	AC.NAV.TRANSP.(ANTX)	IGP	0-011N	141-497W	sATLS02MV
1526 031284	ACXX B	AC.NAV.TRANSP.(ANTX)	IGP	0-473S	140-108W	sATLS02MV
0744 041284	ACXX E	AC.NAV.TRANSP.(ANTX)	IGP	0-455S	140-111W	sATLS02MV
1606 031284	ACXX B	AC.NAV.TRANSP.(ANTX)	IGP	0-454S	140-108W	sATLS02MV
0903 041284	ACXX E	AC.NAV.TRANSP.(ANTX)	IGP	0-497S	140-125W	sATLS02MV
2202 041284	ACXX B	AC.NAV.TRANSP.(ANTX)	IGP	1-322S	140-305W	sATLS02MV
1717 071284	ACXX E	AC.NAV.TRANSP.(ANTX)	IGP	1-344S	140-294W	sATLS02MV
2250 041284	ACXX B	AC.NAV.TRANSP.(ANTX)	IGP	1-339S	140-304W	sATLS02MV
1749 071284	ACXX E	AC.NAV.TRANSP.(ANTX)	IGP	1-322S	140-291W	sATLS02MV

## \*\*\*ROCK SCAN SONAR\*\*\*

0400 051284	SOSS B	ROCK SCAN SONAR TO	IGP	1-337S	140-305W	sATLS02MV
0113 061284	SOSS E	RECV.SUNKEN MOORINGS	IGP	1-339S	140-302W	sATLS02MV
1825 061284	SOSS B	ROCK SCAN SONAR	IGP	1-334S	140-297W	sATLS02MV
0739 071284	SOSS E	ROCK SCAN SONAR	IGP	1-336S	140-288W	sATLS02MV
#		END SAMPLE INDEX				