

INFORMAL REPORT AND INDEX OF
NAVIGATION AND DEPTH
(Issued April 1989)

HYDROS EXPEDITION

LEG 1

=====

R/V Melville

San Diego, California (26 October 1988)
to
Punta Arenas, Chile (30 November 1988)

Chief Scientist - H. Craig (SIO)

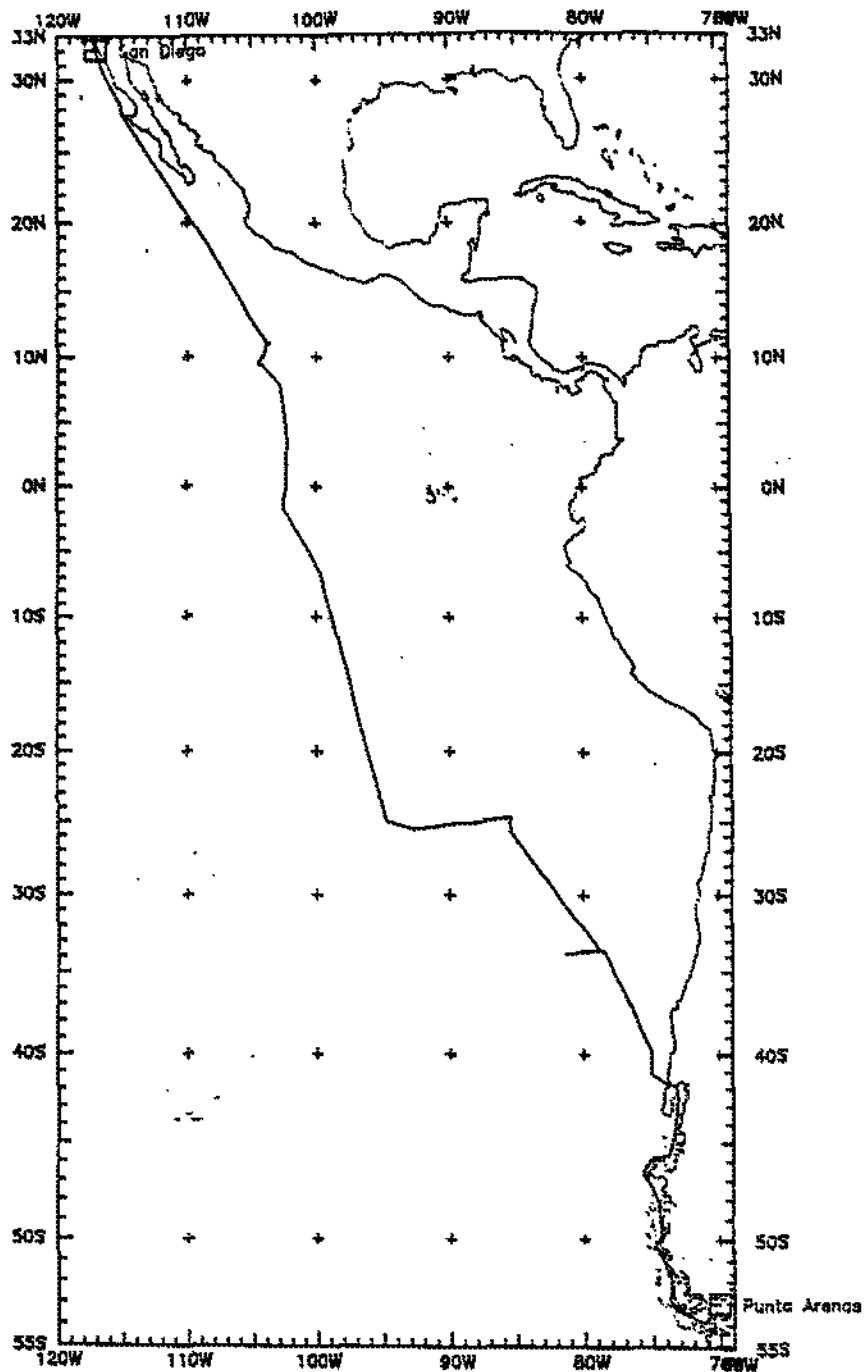
Resident Marine Technician - R. Comer

Post-Cruise Processing and Report Preparation
by Geological Data Center, Scripps Institution of Oceanography

Data Collection and Processing Funded by NSF
Grant Number OCE86-16368
and University of California General Funds

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.# 244

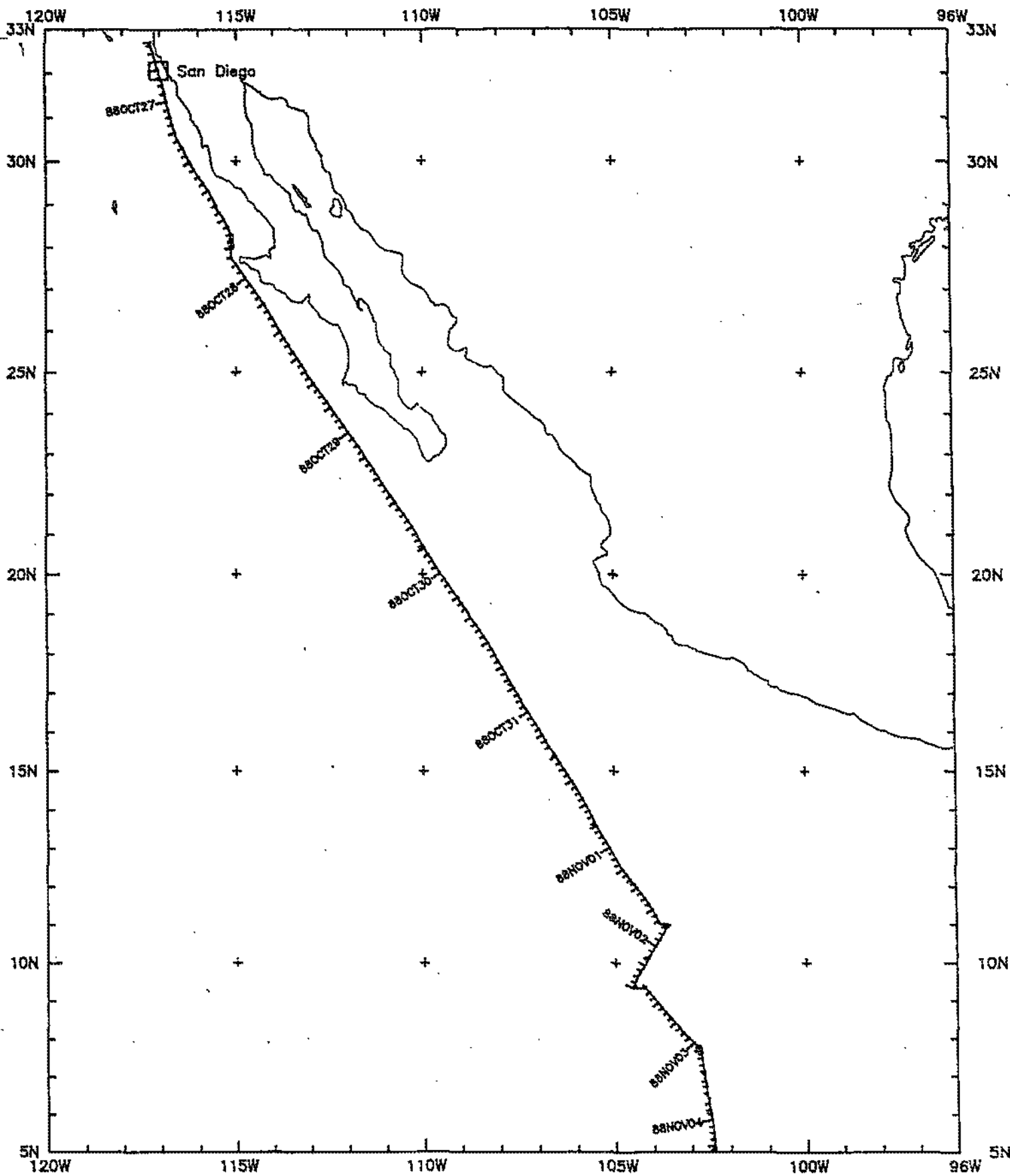


HYDROS EXPEDITION LEG 1

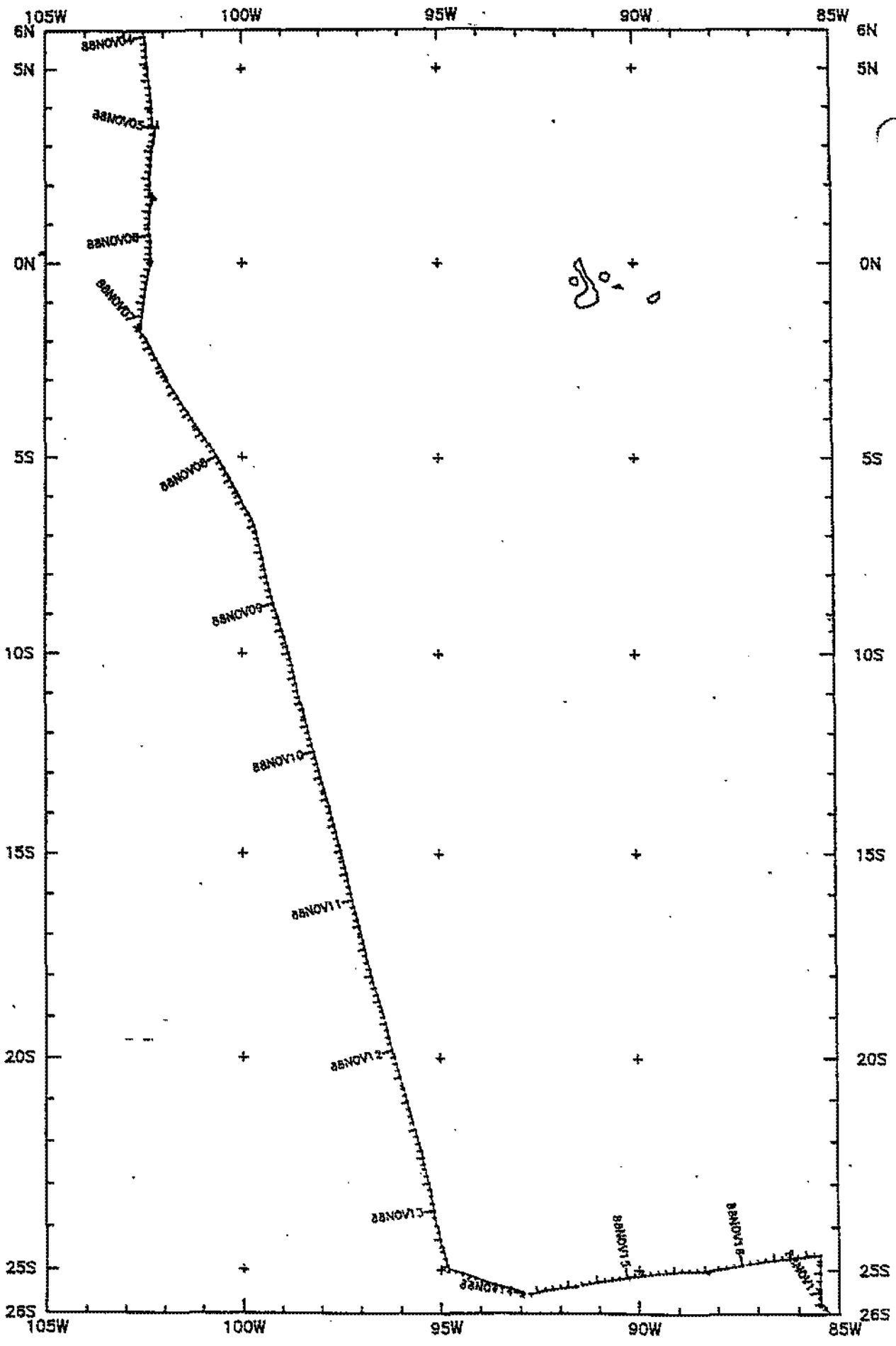
CHIEF SCIENTIST: H. Craig (SIO)
 PORTS: San Diego, Calif. - Punta Arenas, Chile
 DATES: 26 October - 30 November 1988
 SHIP: R/V Melville

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

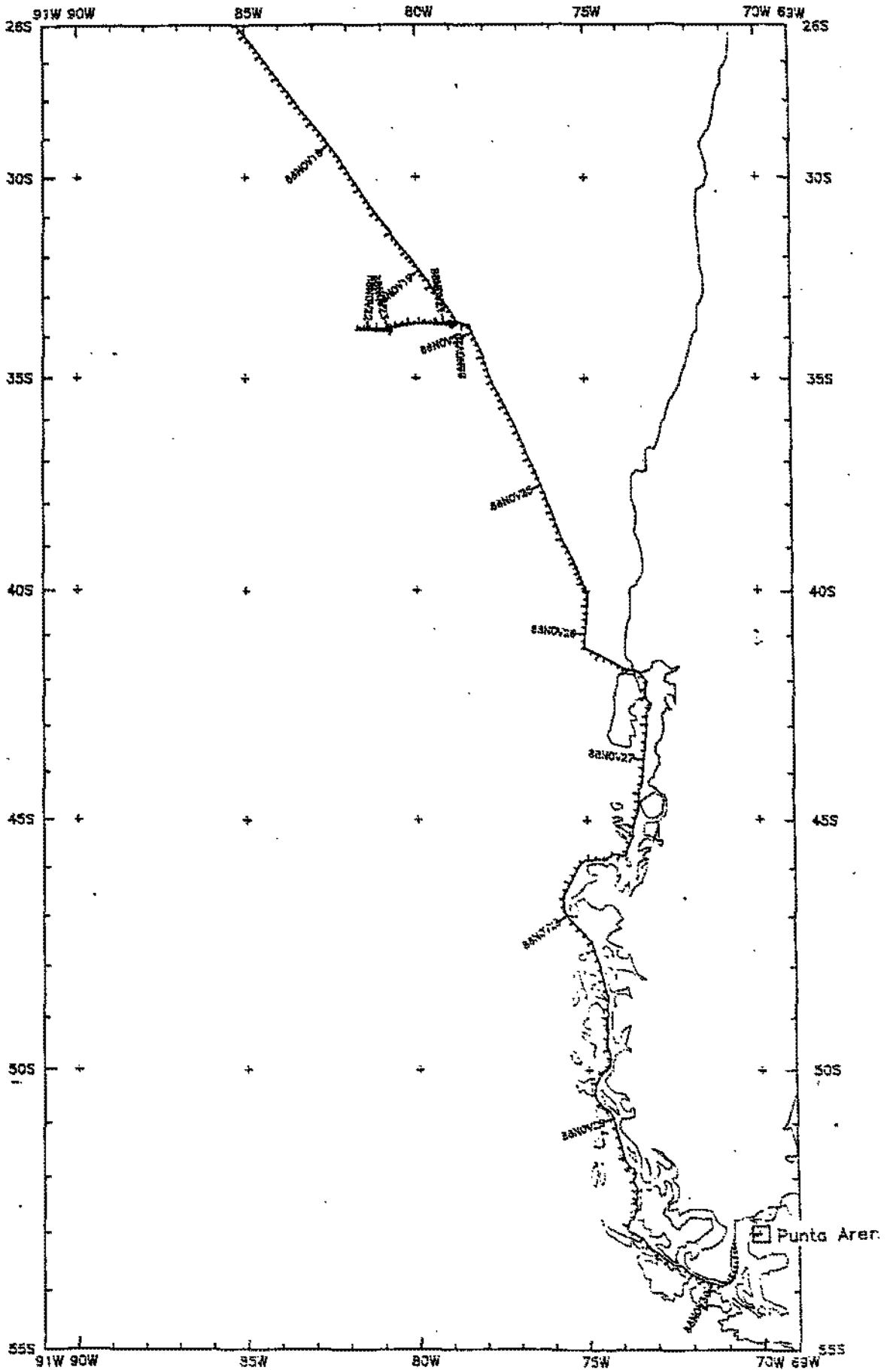
- 1) Cruise - 7137 miles
- 2) Bathymetry - 4890 miles
- 3) Magnetics - none collected
- 4) Seismic Reflection - none collected
- 5) Gravity - none collected



HYDROS LEG 1 (HYDR01MV)
TRACK (1 of 3)

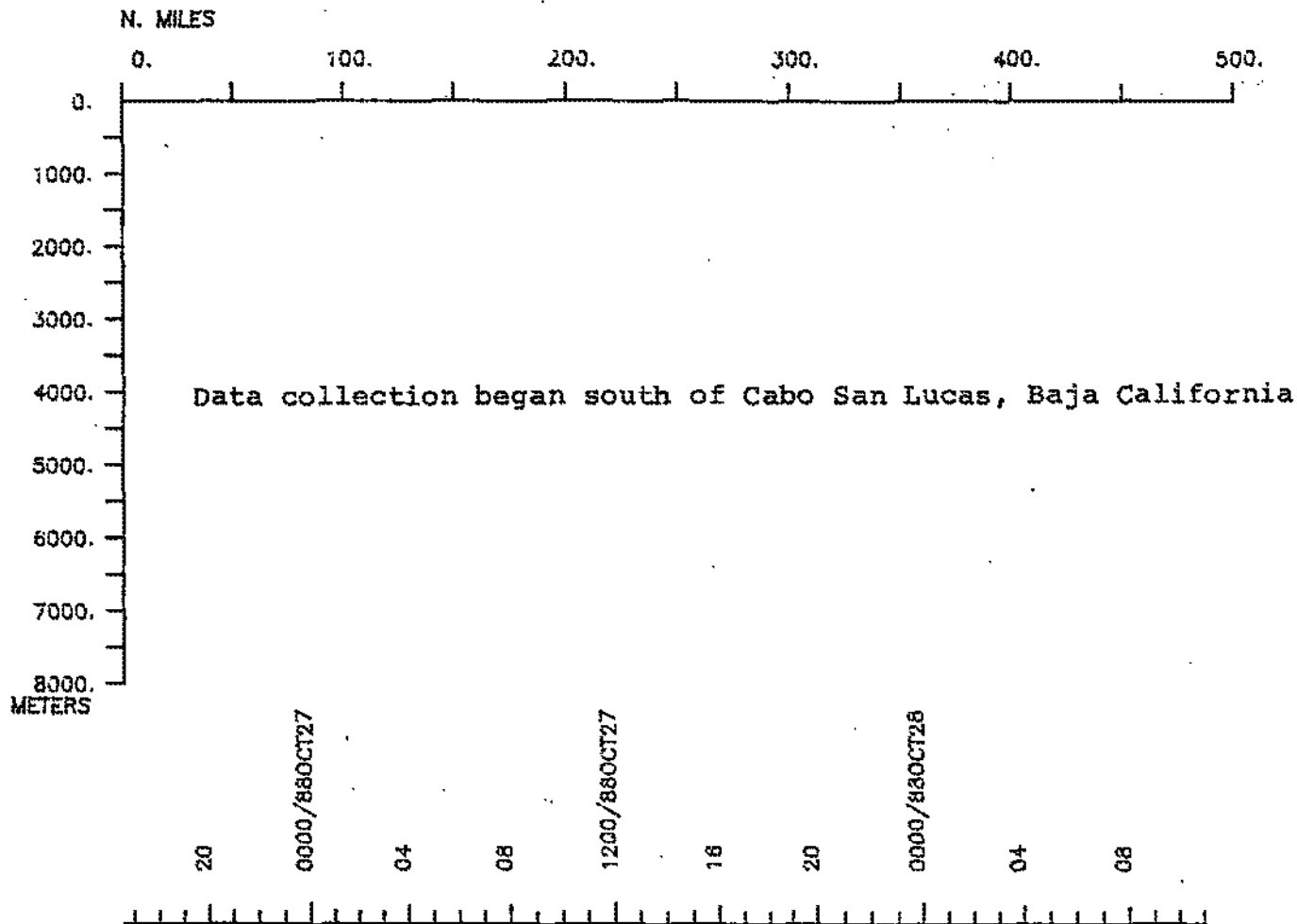


HYDROS LEG 1 (HYDRO1MV)
 TRACK (2 of 3)

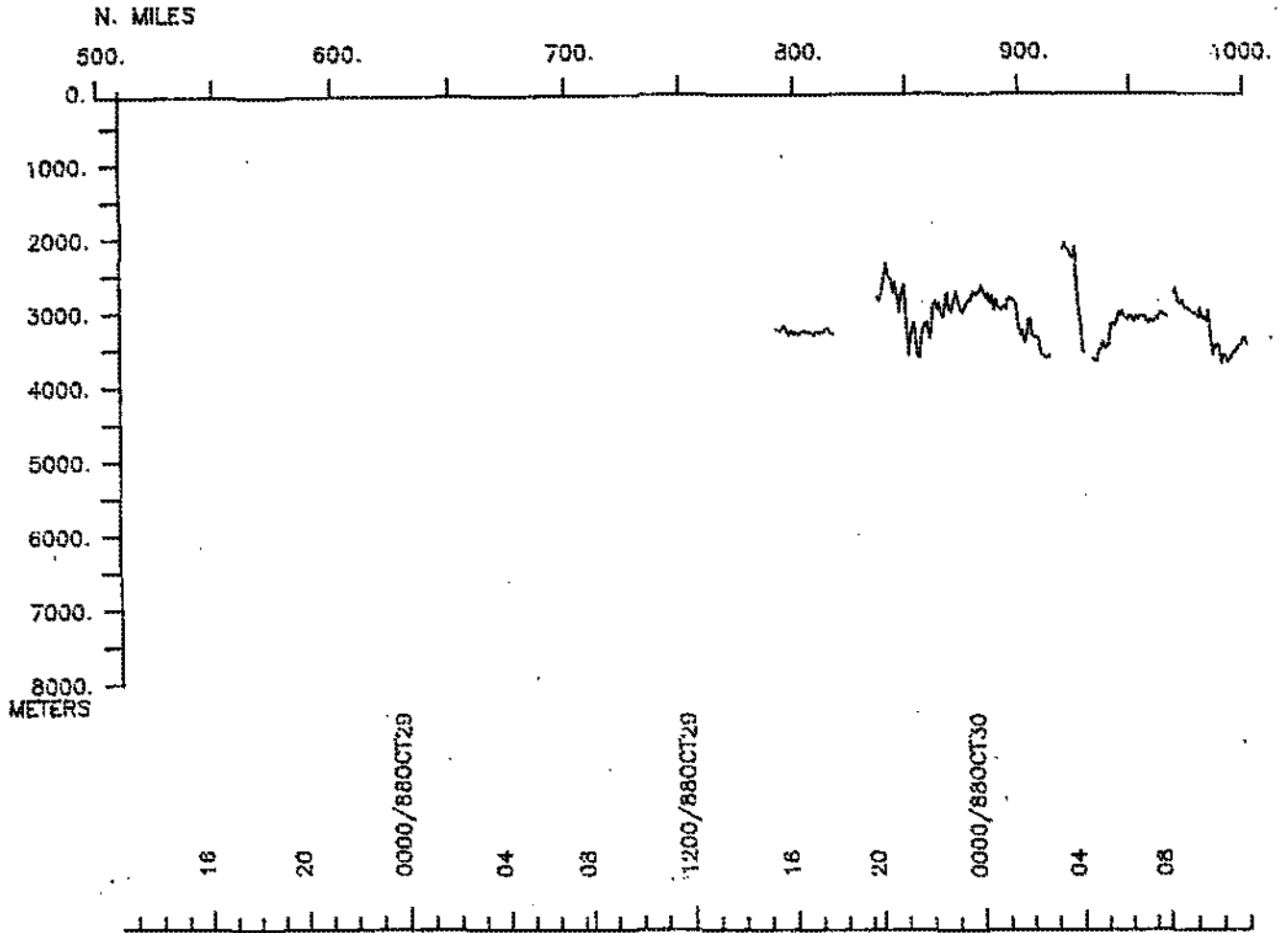


HYDROS LEG 1 (HYDRO1MV)
 TRACK (3 of 3)

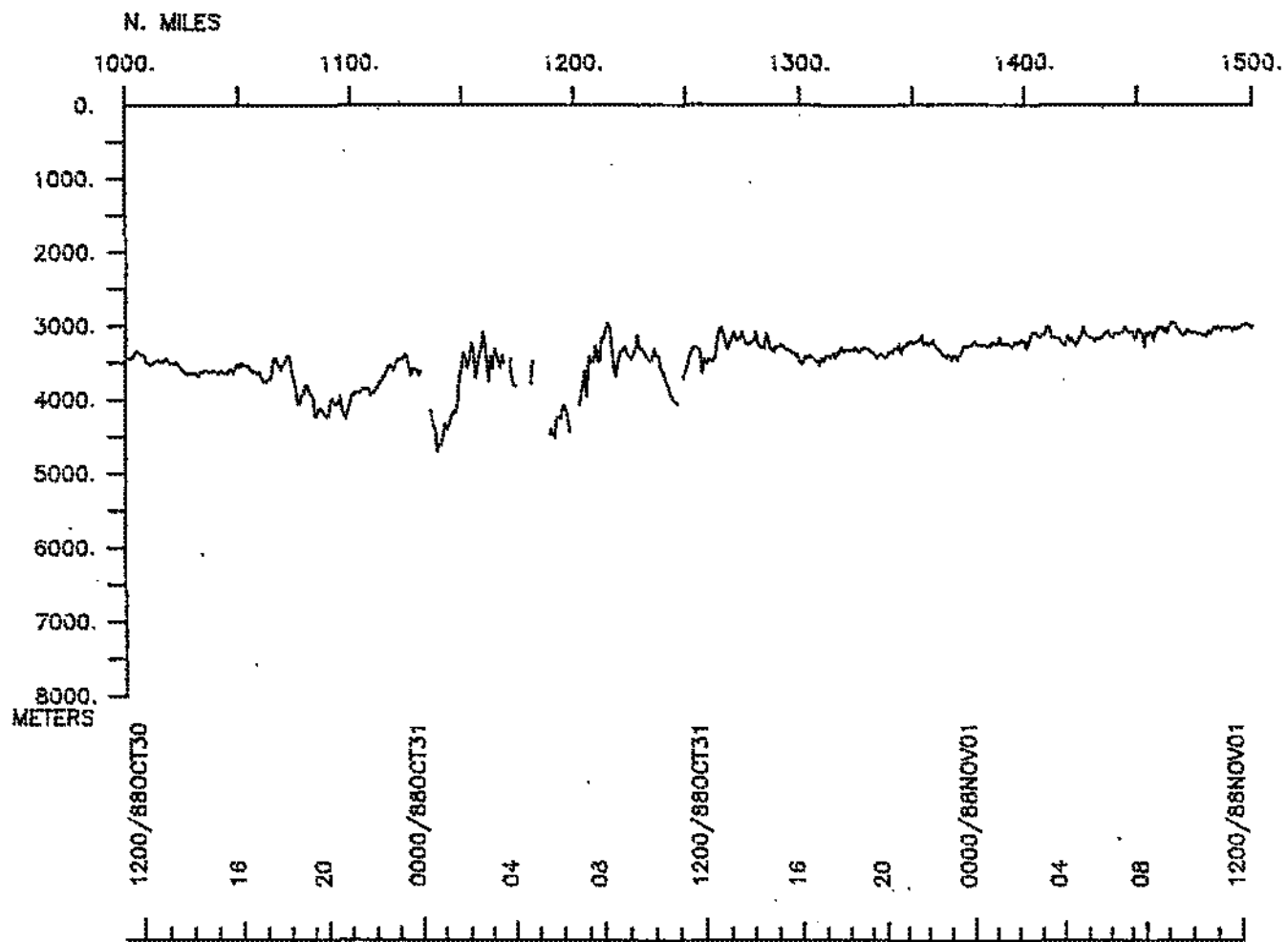
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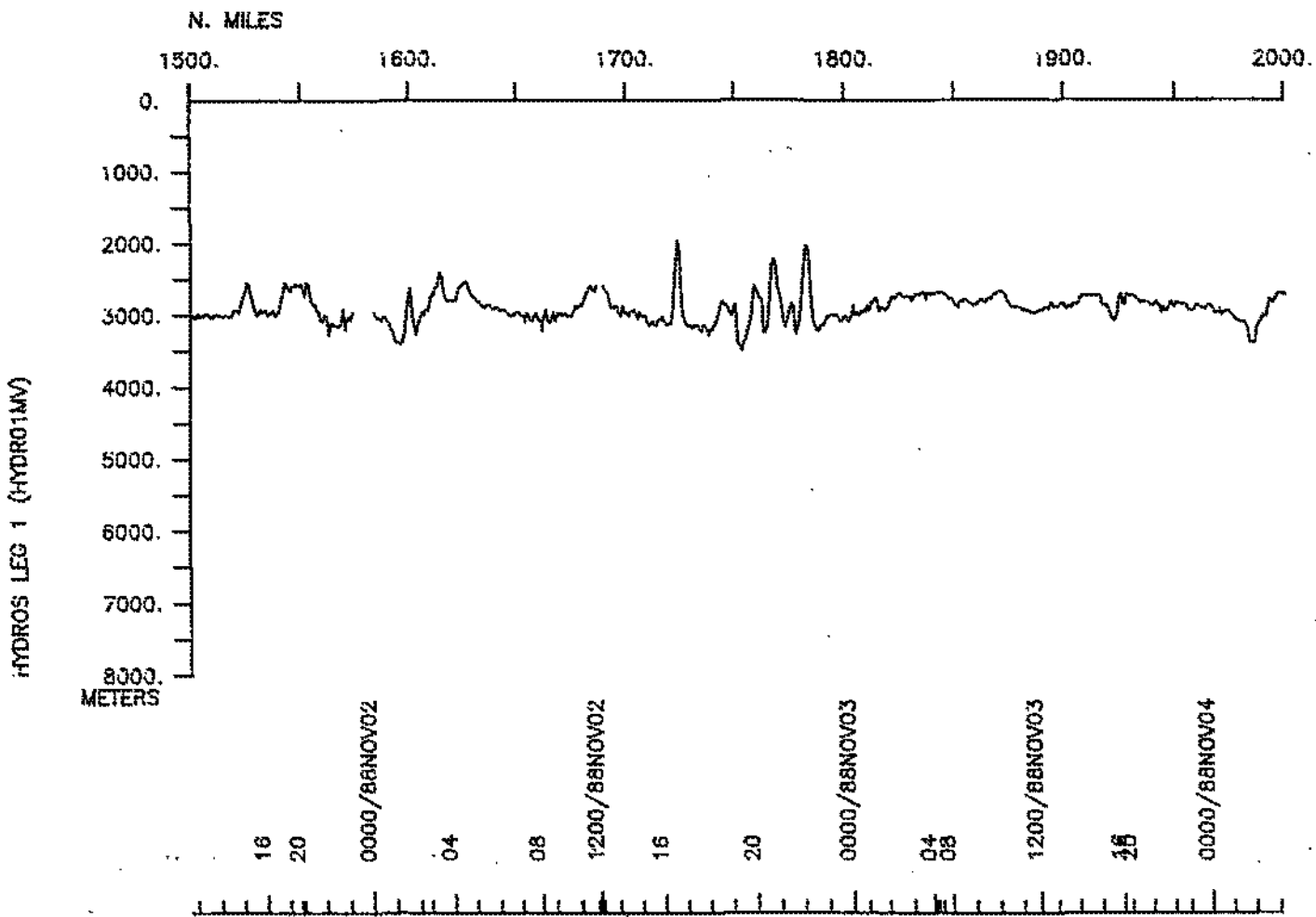


HYDROS LEG 1 (HYDRO1MW)

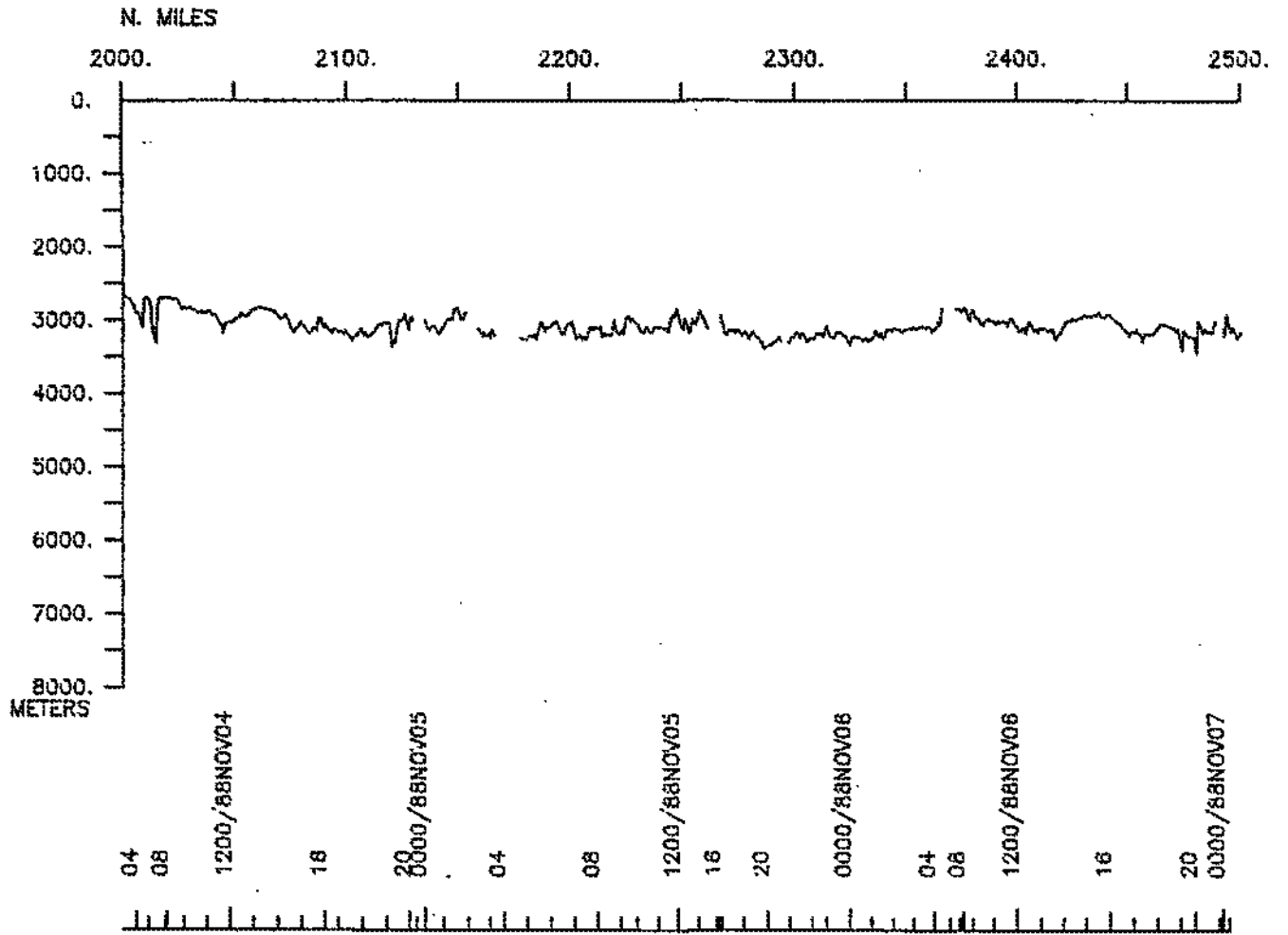


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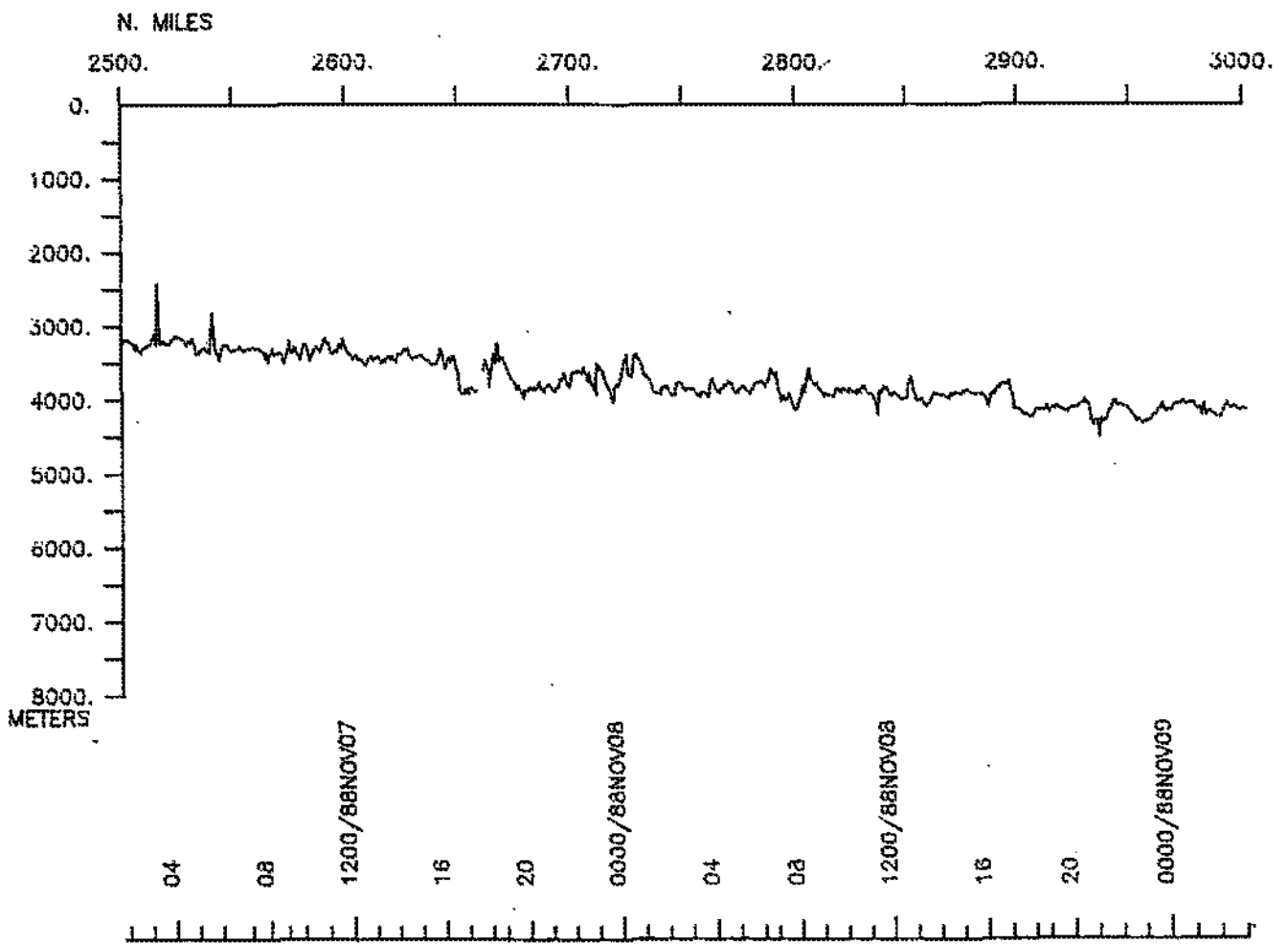


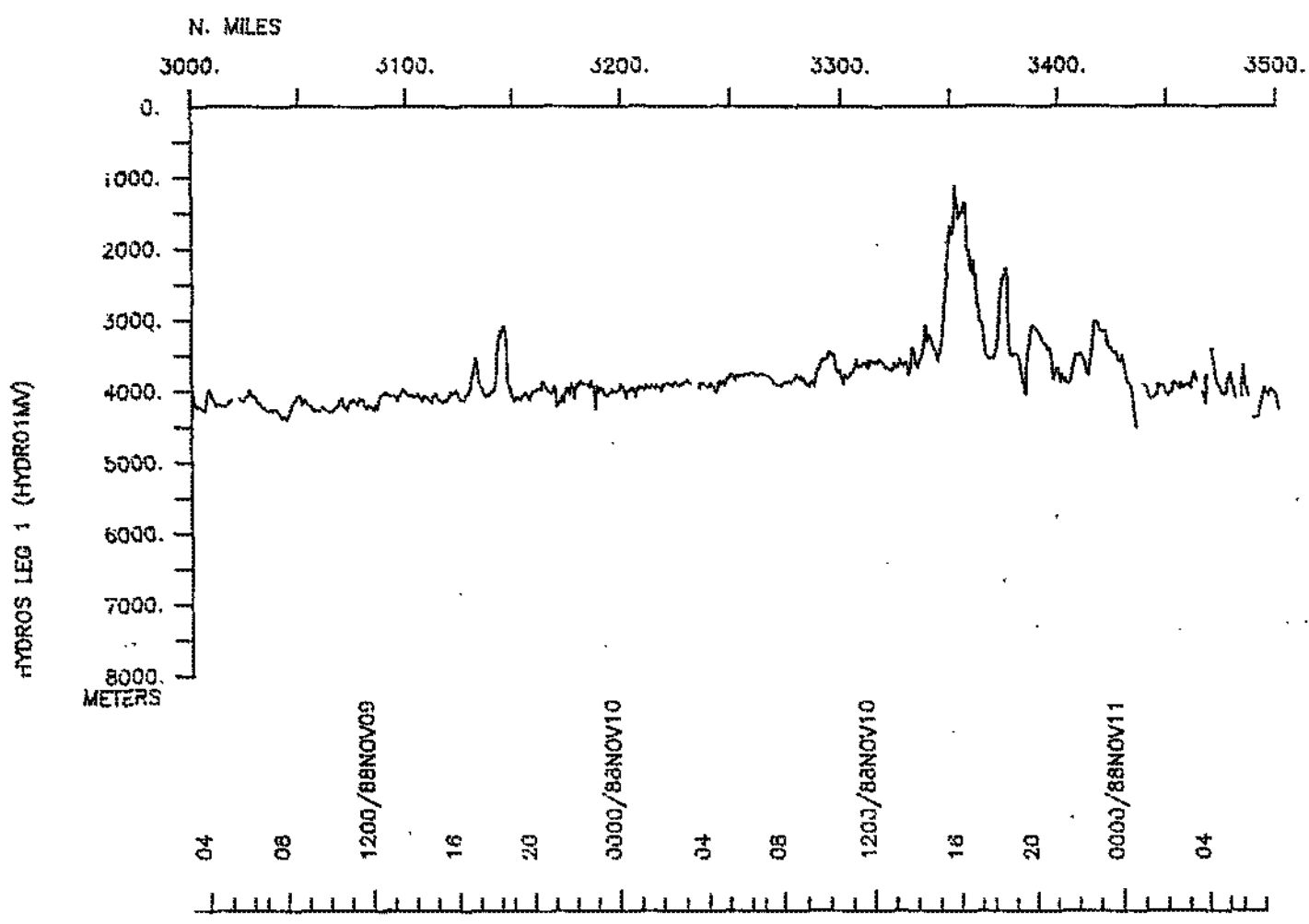


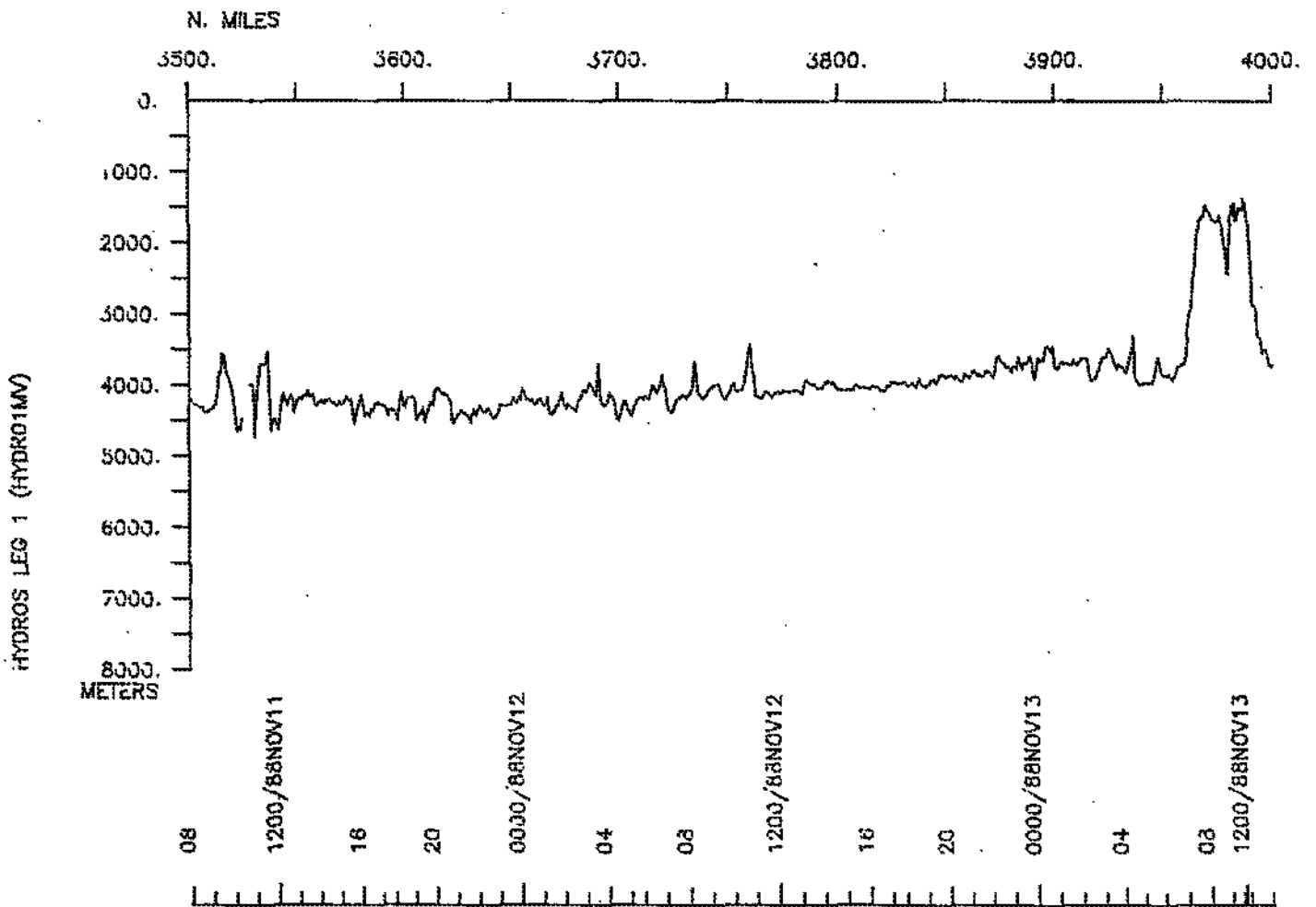
HYDROS LEG 1 (HYDRO1MV)



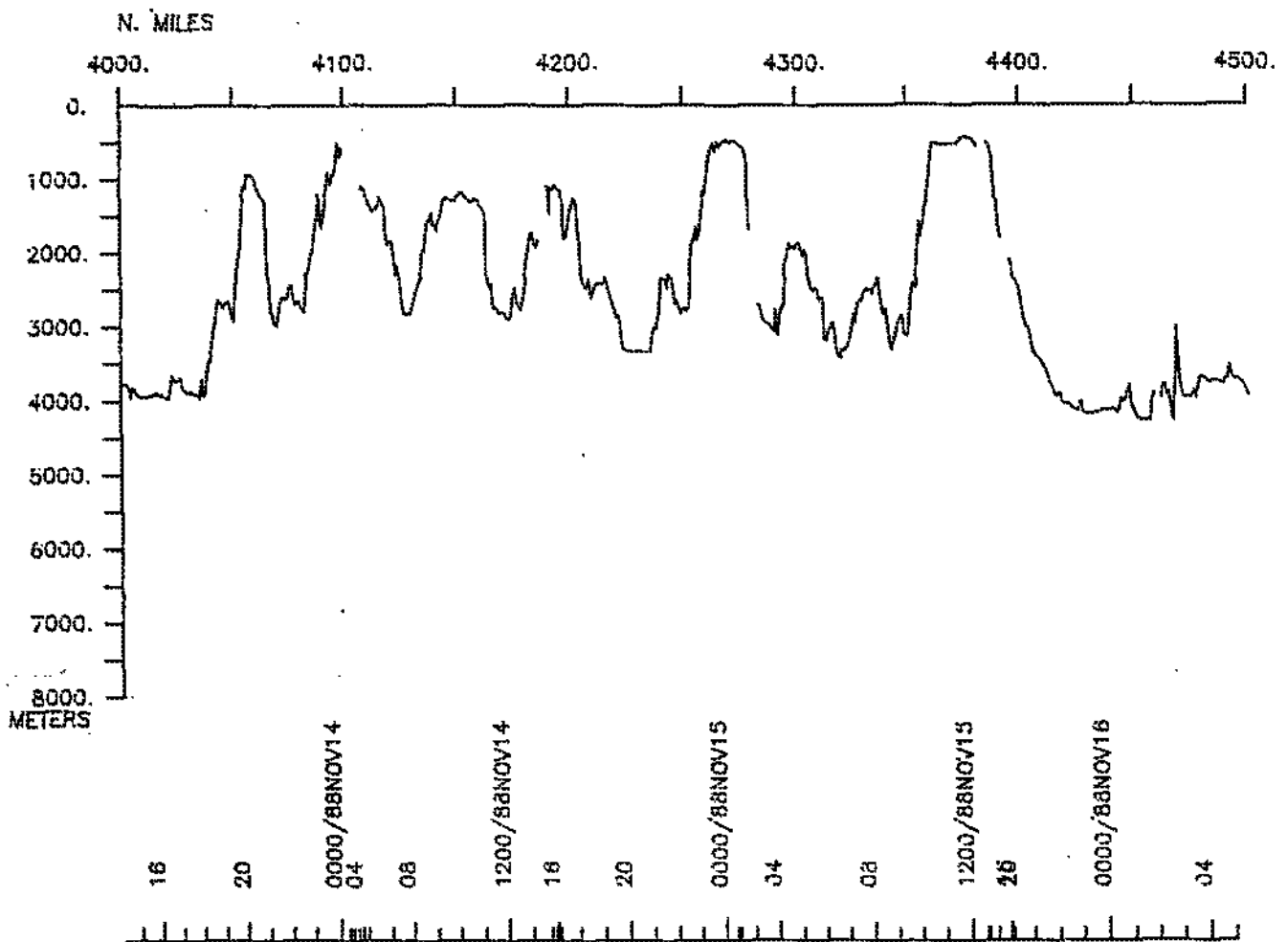
HYDROS LEG 1 (HYDRO11M)

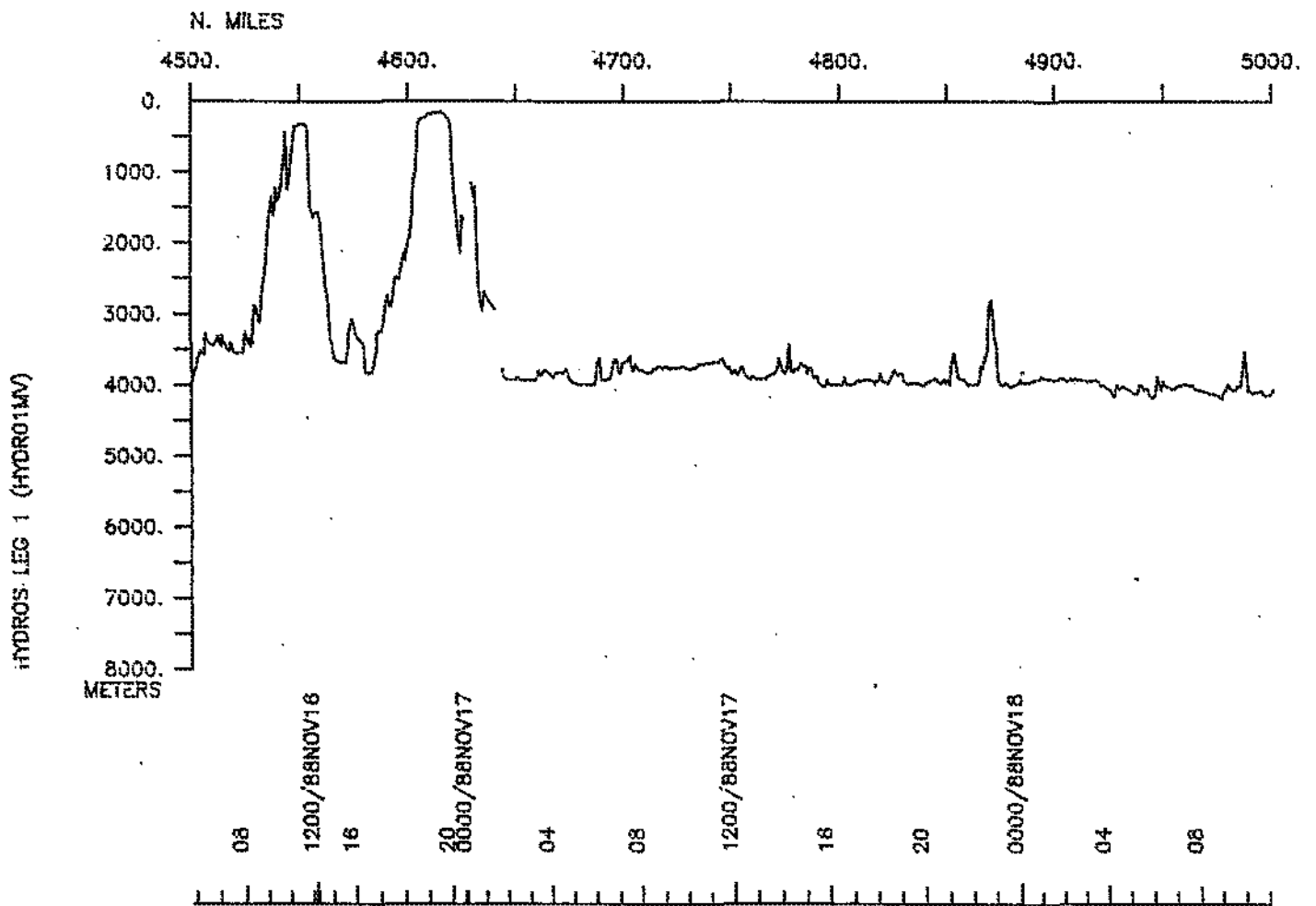


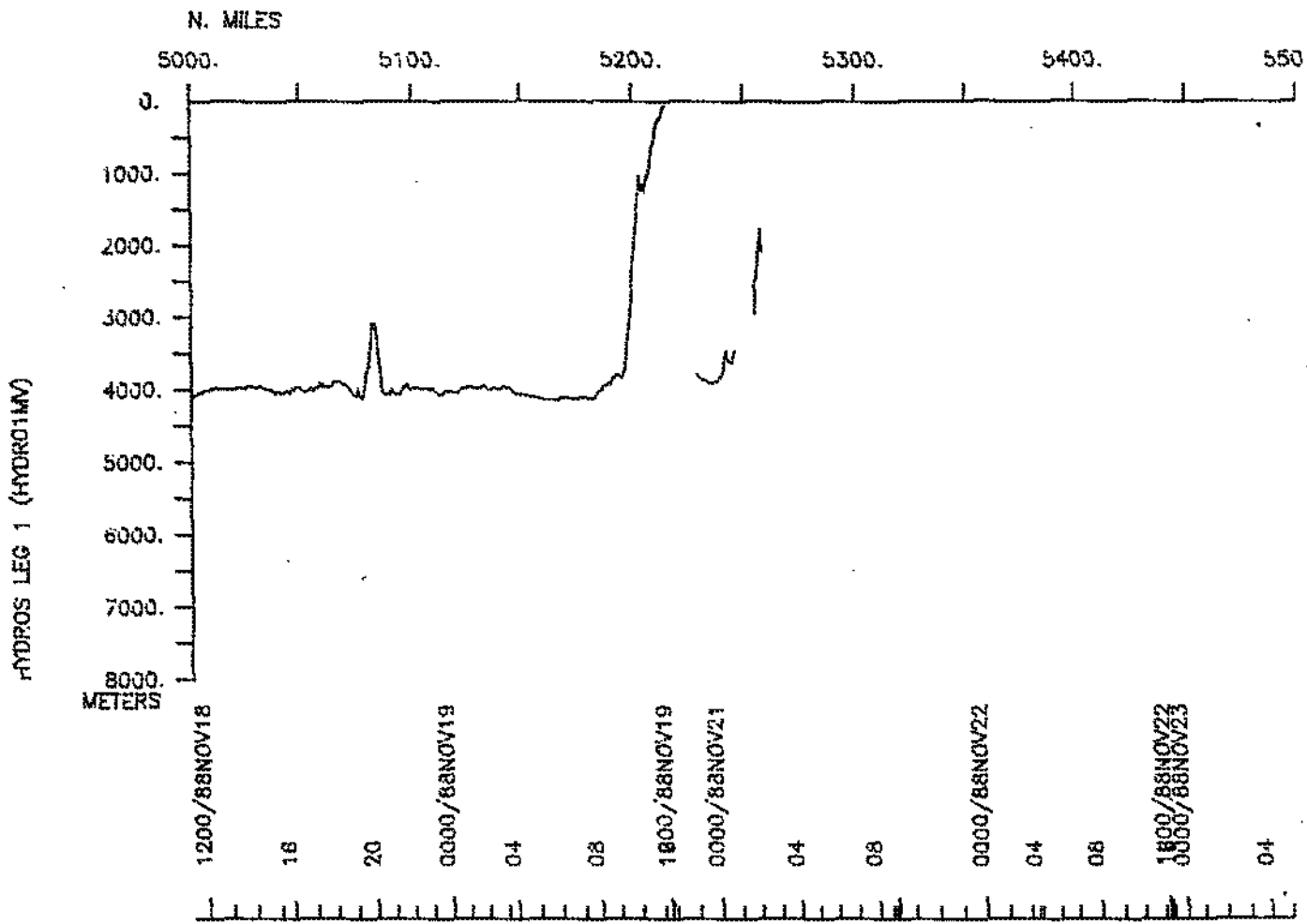




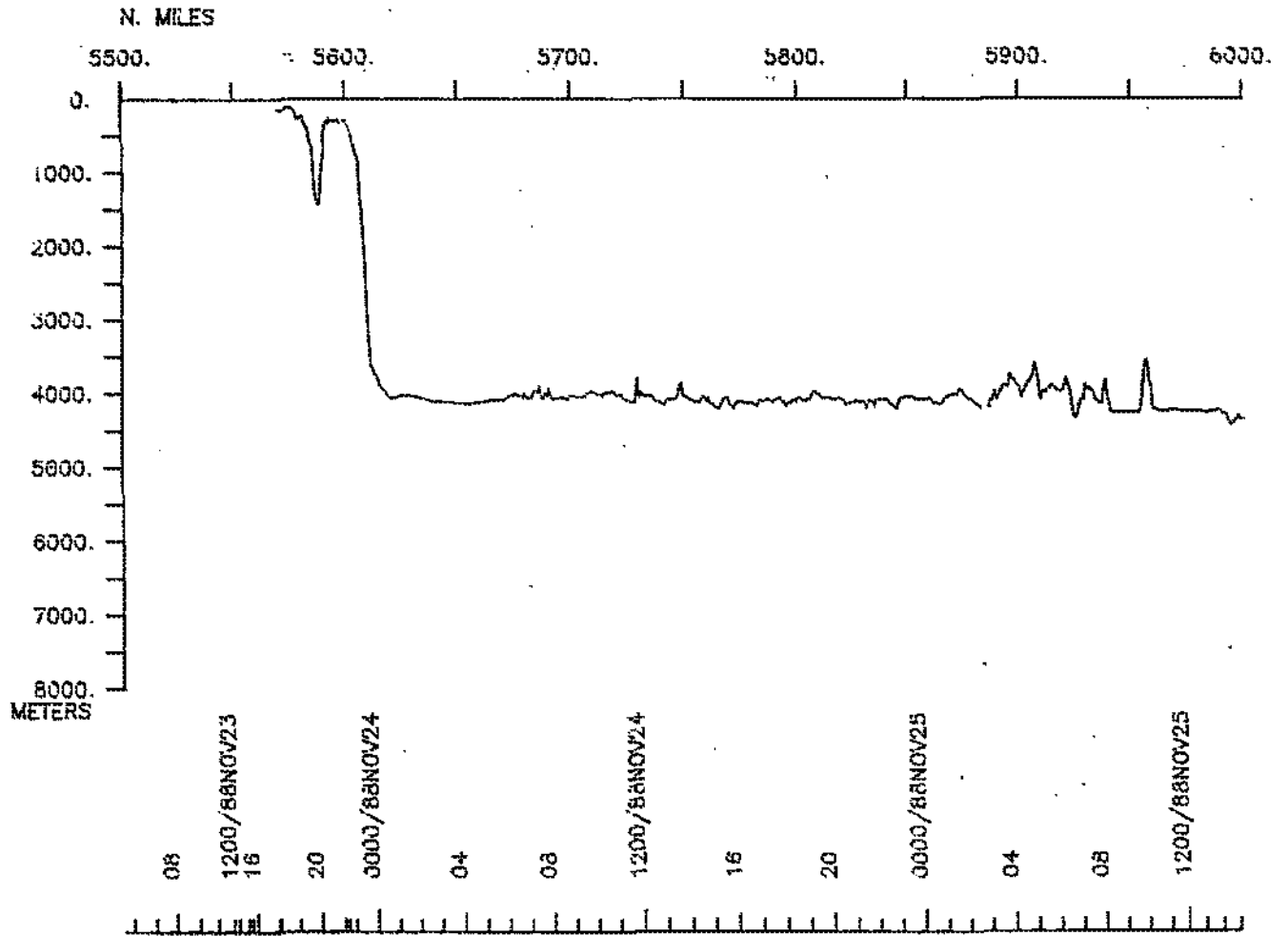
HYDROS LEG 1 (HYDRO1MV)



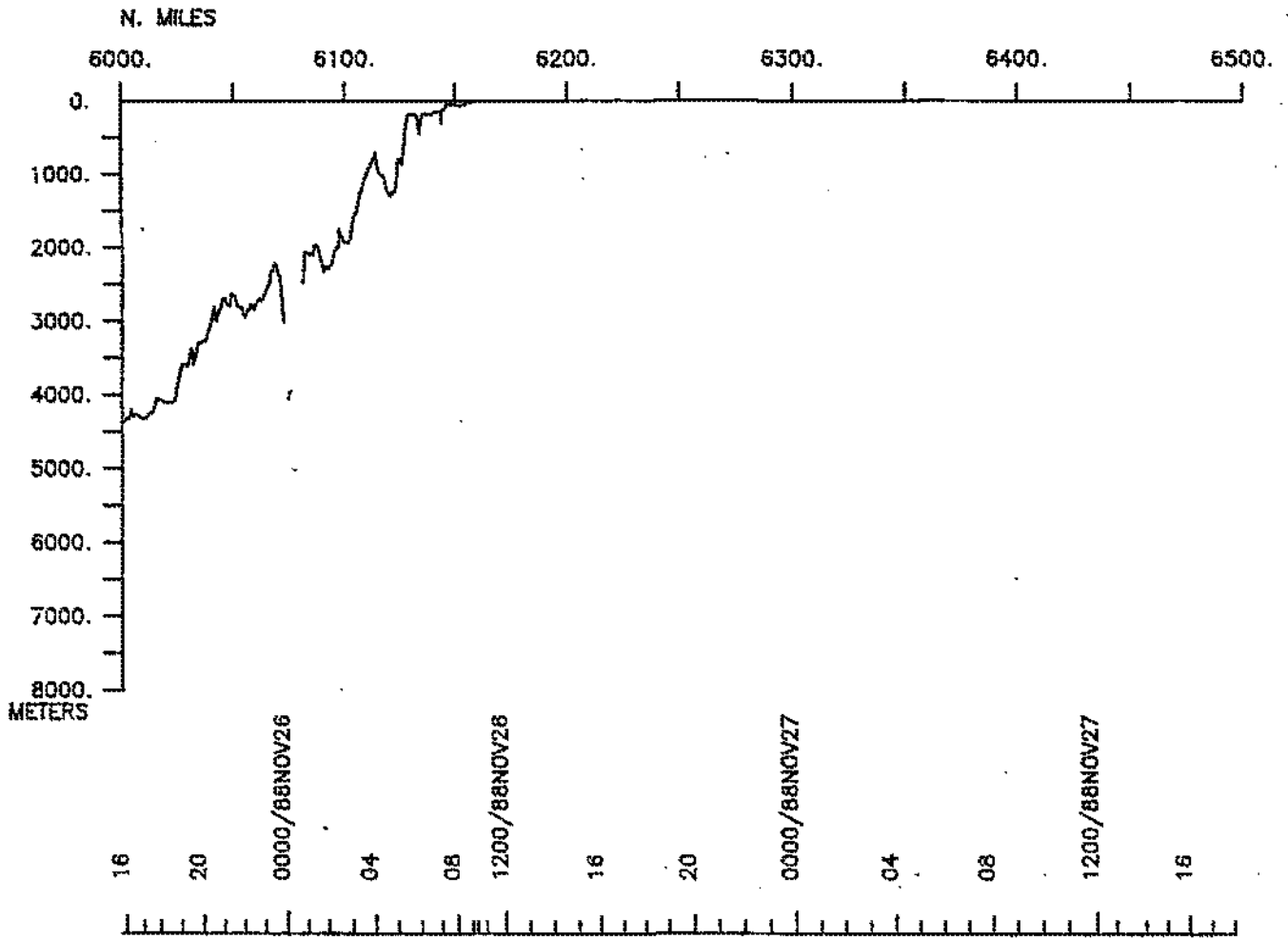


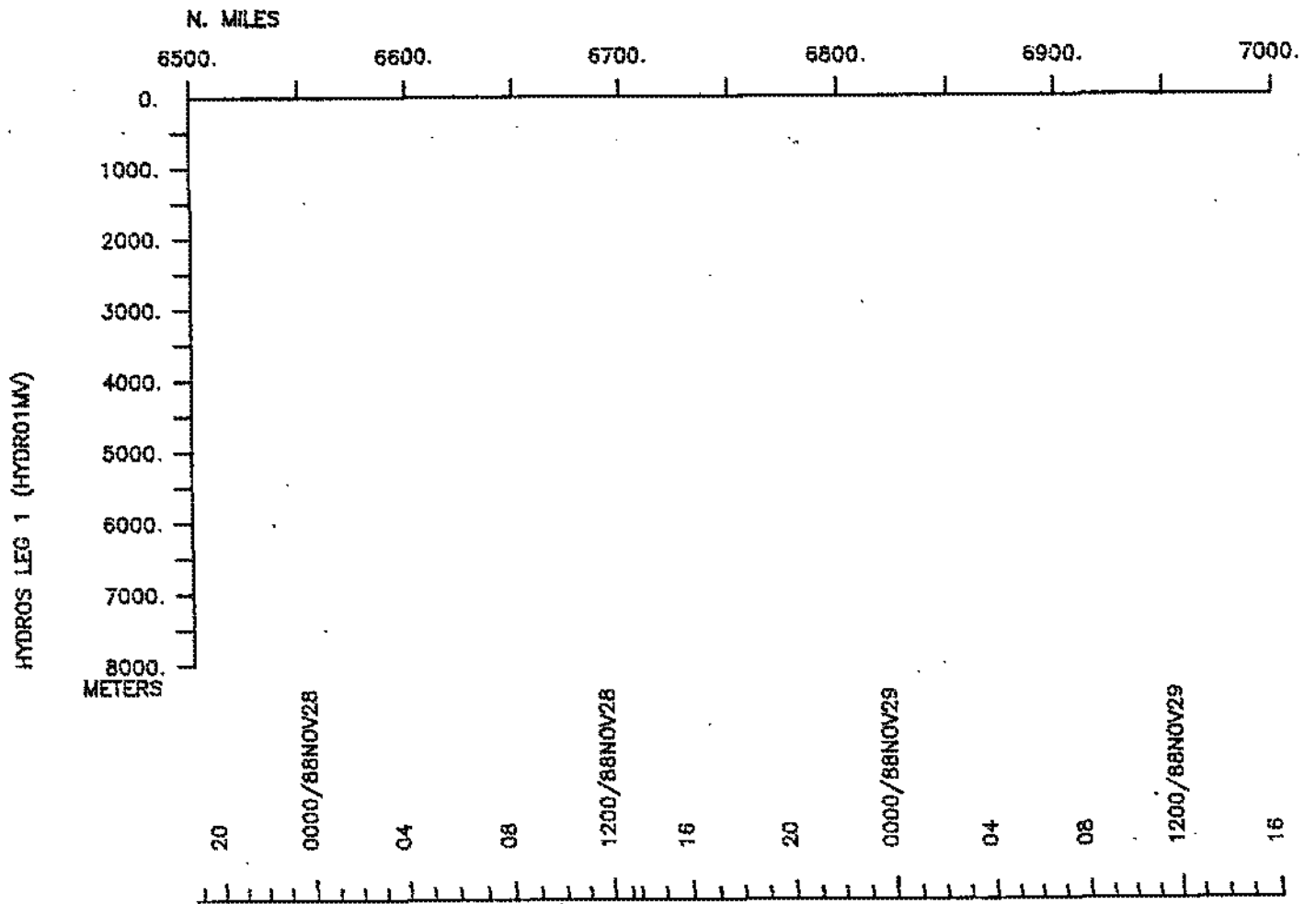


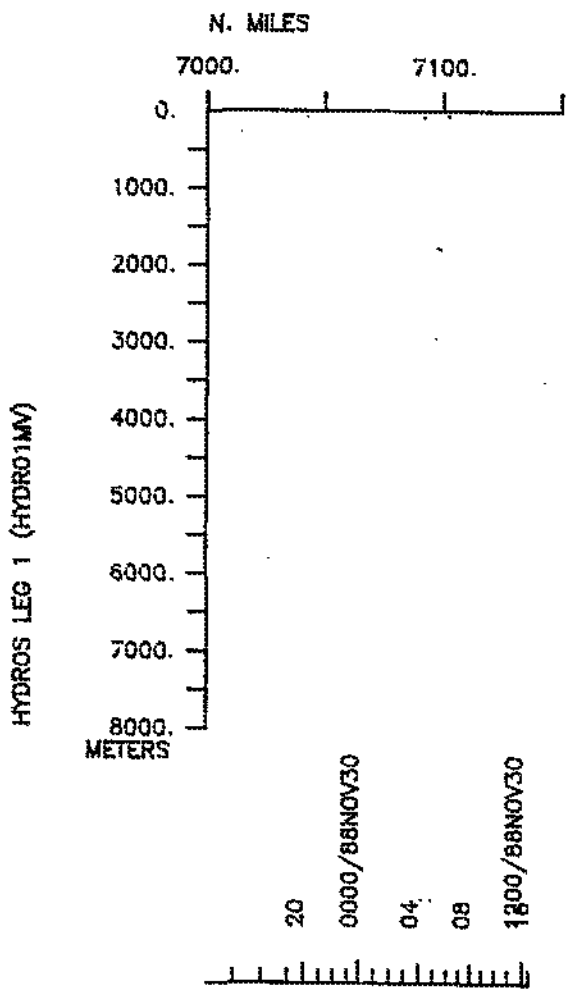
HYDROS LEG 1 (HYDRO11M)



HYDROS LEG 1 (HYDRO1MV)







S.I.O. SAMPLE INDEX

(Issued April 1989)

HYDROS EXPEDITION

Leg 1

=====

R/V Melville

San Diego, Calif. (26 October 1988)
to
Punta Arenas, Chile (30 November 1988)

Chief Scientist - H. Craig

Scripps Institution of Oceanography

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.# 244

****PORTS****

1615	261088	LGPT B	San Diego, Cal.	32-43 N	117-11 W	fHYDRO1MV
1100	301188	LGPT E	Punta Arenas, Chile	53-10 S	70-54 W	fHYDRO1MV
0829	191188	LGSS B	Robinson Crusoe Isl.	33-163S	79-048W	sHYDRO1MV
1841	201188	LGSS E	Robinson Crusoe Isl.	33-382S	78-496W	sHYDRO1MV
0715	211188	LGSS B	Mas Afuera Isl.	33-425S	80-284W	sHYDRO1MV
1712	211188	LGSS E	Mas Afuera Isl.	33-456S	80-453W	sHYDRO1MV
0749	221188	LGSS B	Mas Afuera Isl.	33-468S	81-122W	sHYDRO1MV
2009	221188	LGSS E	Mas Afuera Isl.	33-455S	80-453W	sHYDRO1MV
0750	231188	LGSS B	Robinson Crusoe Isl.	33-394S	79-291W	sHYDRO1MV
1510	231188	LGSS E	Robinson Crusoe Isl.	33-376S	78-490W	sHYDRO1MV
0855	261188	LGSS B	Ancud, Chile	41-473S	73-494W	sHYDRO1MV
1018	261188	LGSS E	Ancud, Chile	41-463S	73-501W	sHYDRO1MV

**** PERSONNEL ***

	NAME	***TITLE***	***AFFILIATION***	**CRID**
PECS GRD	CRAIG, Dr. H.	Chief Scientist	SCRIPPS INSTITUTION	HYDRO1MV
PERT STS	COMER, R. L.	Resident Tech.	SCRIPPS INSTITUTION	HYDRO1MV
PECT STS	BOUCHARD, G.	Computer Tech.	SCRIPPS INSTITUTION	HYDRO1MV
PEST GRD	FARLEY, K.	Grad. Stud.	SCRIPPS INSTITUTION	HYDRO1MV
PEVL GRD	CRAIG, V.	Volunteer	SCRIPPS INSTITUTION	HYDRO1MV
PEVL SIX	CRAIG, Dr. J.	Volunteer	SCRIPPS NON-EMPLOYEE	HYDRO1MV
PEST SIX	CLARK, J.	Undergrad Stud.	SCRIPPS NON-EMPLOYEE	HYDRO1MV
PESP WHO	SHELTEMA, Dr. R.	Senior Scient.	WOODS HOLE OCEAN. INST.	HYDRO1MV
PESP WHO	WILLIAMS, I.	Research Assoc.	WOODS HOLE OCEAN. INST.	HYDRO1MV
PEXN CHL	VERGARA, H.	Geologist	CHILE	HYDRO1MV
PESP STS	LOPEZ, L.	Technician	SCRIPPS INSTITUTION	HYDRO1MV

*****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

*** UNDERWAY DATA CURATOR - S. M. SMITH EXT. 42752

*** LOG BOOKS ***

1525	291088			LBWU	B Underway Watch Log	GDC	21-166N	110-215W	sHYDRO1MV
0943	261188			LBWU	E Underway Watch Log	GDC	41-465S	73-491W	sHYDRO1MV

*** ECHOSOUNDER RECORDS ***

1523	291088			DPRT	B 12Khz 1 Sec Swp R-01	GDC	21-169N	110-217W	sHYDRO1MV
2330	011188			DPRT	E 12Khz 1 Sec Swp R-01	GDC	10-306N	103-544W	sHYDRO1MV
2344	011188			DPRT	B 12Khz 1 Sec Swp R-02	GDC	10-284N	103-558W	sHYDRO1MV
0415	051188			DPRT	E 12Khz 1 Sec Swp R-02	GDC	2-507N	102-180W	sHYDRO1MV
0431	051188			DPRT	B 12Khz 1 Sec Swp R-03	GDC	2-479N	102-183W	sHYDRO1MV
0553	141188			DPRT	E 12Khz 1 Sec Swp R-03	GDC	25-342S	92-582W	sHYDRO1MV
0604	141188			DPRT	B 12Khz 1 Sec Swp R-04	GDC	25-340S	92-566W	sHYDRO1MV
0943	261188			DPRT	E 12Khz 1 Sec Swp R-04	GDC	41-465S	73-491W	sHYDRO1MV

*** HYDROCASTS ***

1901	011188			HCNI	TS S1 16 Bt1 2540M	GRD	10-534N	103-406W	sHYDRO1MV
1210	021188			HCNI	TS S2 16 Bt1 2560M	GRD	9-189N	104-138W	sHYDRO1MV
0549	031188			HCNI	TS S3 16 Bt1 2670M	GRD	7-430N	102-454W	sHYDRO1MV
1827	031188			HCNI	TS S4 16 Bt1 2698M	GRD	6-255N	102-345W	sHYDRO1MV
0728	041188			HCNI	TS S5 16 Bt1 2673M	GRD	5-104N	102-249W	sHYDRO1MV
2205	041188			HCNI	TS S6 16 Bt1 2985M	GRD	3-306N	102-109W	sHYDRO1MV
1621	051188			HCNI	TS S7 16 Bt1 2890M	GRD	1-404N	102-180W	sHYDRO1MV
0726	061188			HCNI	TS S8 16 Bt1 2984M	GRD	0-031N	102-193W	sHYDRO1MV
2252	061188			HCNI	TS S9 16 Bt1 3120M	GRD	1-402S	102-363W	sHYDRO1MV

*** ROCK DREDGES ***

1039	131188			DRRO	Rock Dredge 1 1505M	GRD	24-588S	94-498W	sHYDRO1MV
0102	141188			DRRO	X Rock Dredge 2 550M	GRD	25-338S	92-560W	sHYDRO1MV
0343	141188			DRRO	Rock Dredge 3 935M	GRD	25-338S	92-594W	sHYDRO1MV
1539	141188			DRRO	Rock Dredge 4 1195M	GRD	25-225S	91-372W	sHYDRO1MV
0057	151188			DRRO	Rock Dredge 5 480M	GRD	25-095S	90-150W	sHYDRO1MV
1409	151188			DRRO	Rock Dredge 6 525M	GRD	25-001S	88-163W	sHYDRO1MV
1631	151188			DRRO	Rock Dredge 7 2015M	GRD	24-593S	88-089W	sHYDRO1MV
1158	161188			DRRO	Rock Dredge 8 1550M	GRD	24-466S	85-272W	sHYDRO1MV
2135	161188			DRRO	Rock Dredge 9 1620M	GRD	25-487S	85-262W	sHYDRO1MV
0324	221188			DRRO	Rock Dredge 10 2285M	GRD	33-467S	81-427W	sHYDRO1MV
2130	231188			DRRO	Rock Dredge 11 321M	GRD	33-403S	78-278W	sHYDRO1MV

#GMT #TIME	DDMMYY DATE	LOC TIME	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
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*** GRAB ROCK SAMPLES ON LAND ***

0829	191188			GBRS B	Land Rock Samples	GRD			HYDRO1MV
1841	201188			GBRS E	Robinson Crusoe	GRD			HYDRO1MV
0715	211188			GBRS B	Land Rock Samples	GRD			HYDRO1MV
1712	211188			GBRS E	Mas Afuera	GRD			HYDRO1MV
0749	221188			GBRS B	Land Rock Samples	GRD			HYDRO1MV
2009	221188			GBRS E	Mas Afuera	GRD			HYDRO1MV
0750	231188			GBRS B	Land Rock Samples	GRD			HYDRO1MV
1510	231188			GBRS E	Robinson Crusoe	GRD			HYDRO1MV

*** OBLIQUE NETS ***

0709	291088			ON70	Oblique Net	1 200M	WHO 22-279N	111-131W	sHYDRO1MV
1906	291088			ON70	Oblique Net	2 200M	WHO 20-430N	109-598W	sHYDRO1MV
0705	301088			ON70	Oblique Net	3 200M	WHO 18-592N	108-469W	sHYDRO1MV
1903	301088			ON70	Oblique Net	4 200M	WHO 17-119N	107-401W	sHYDRO1MV
0703	311088			ON70	Oblique Net	5 200M	WHO 15-281N	106-347W	sHYDRO1MV
1903	311088			ON70	Oblique Net	6 200M	WHO 13-402N	105-311W	sHYDRO1MV
0703	011188			ON70	Oblique Net	7 200M	WHO 12-039N	104-293W	sHYDRO1MV
2034	011188			ON70	Oblique Net	8 200M	WHO 10-535N	103-405W	sHYDRO1MV
0217	021188			ON70	Oblique Net	9 200M	WHO 10-071N	104-084W	sHYDRO1MV
0757	021188			ON70	Oblique Net	10 200M	WHO 9-200N	104-351W	sHYDRO1MV
0033	031188			ON70	Oblique Net	11 200M	WHO 7-501N	102-529W	sHYDRO1MV
1150	031188			ON70	Oblique Net	12 200M	WHO 7-010N	102-401W	sHYDRO1MV
2242	031188			ON70	Oblique Net	13 200M	WHO 6-003N	102-307W	sHYDRO1MV
0440	041188			ON70	Oblique Net	14 200M	WHO 5-059N	102-245W	sHYDRO1MV
1606	041188			ON70	Oblique Net	15 200M	WHO 4-002N	102-175W	sHYDRO1MV
0255	051188			ON70	Oblique Net	16 200M	WHO 2-595N	102-171W	sHYDRO1MV
0905	051188			ON70	Oblique Net	17 200M	WHO 2-006N	102-217W	sHYDRO1MV
2204	051188			ON70	Oblique Net	18 200M	WHO 1-004N	102-227W	sHYDRO1MV
0912	061188			ON70	Oblique Net	19 200M	WHO 0-024N	102-198W	sHYDRO1MV
1904	061188			ON70	Oblique Net	20 200M	WHO 1-322S	102-341W	sHYDRO1MV
0603	071188			ON70	Oblique Net	21 200M	WHO 2-276S	102-106W	sHYDRO1MV
1802	071188			ON70	Oblique Net	22 200M	WHO 4-100S	101-099W	sHYDRO1MV
0606	081188			ON70	Oblique Net	23 200M	WHO 5-538S	100-084W	sHYDRO1MV
1803	081188			ON70	Oblique Net	24 200M	WHO 7-459S	99-265W	sHYDRO1MV
0601	091188			ON70	Oblique Net	25 200M	WHO 9-439S	98-539W	sHYDRO1MV
1803	091188			ON70	Oblique Net	26 200M	WHO 11-350S	98-258W	sHYDRO1MV
0502	101188			ON70	Oblique Net	27 200M	WHO 13-162S	97-578W	sHYDRO1MV
1702	101188			ON70	Oblique Net	28 200M	WHO 15-061S	97-267W	sHYDRO1MV
0501	111188			ON70	Oblique Net	29 200M	WHO 16-563S	96-589W	sHYDRO1MV
1702	111188			ON70	Oblique Net	30 200M	WHO 18-460S	96-297W	sHYDRO1MV
0501	121188			ON70	Oblique Net	31 200M	WHO 20-372S	95-586W	sHYDRO1MV
1703	121188			ON70	Oblique Net	32 200M	WHO 22-321S	95-250W	sHYDRO1MV
0501	131188			ON70	Oblique Net	33 200M	WHO 24-263S	95-002W	sHYDRO1MV
1502	181188			ON70	Oblique Net	34 200M	WHO 31-192S	80-490W	sHYDRO1MV
0302	191188			ON70	Oblique Net	35 200M	WHO 32-400S	79-374W	sHYDRO1MV

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

0046	271088			BTXP	xbt 0001 Probe T-4	GDC	31-129N	116-465W	sHYDRO1MV
2156	271088			BTXP	xbt 0002 Probe T-4	GDC	27-350N	115-000W	sHYDRO1MV
1856	281088			BTXP	xbt 0003 Probe T-4	GDC	24-174N	112-332W	sHYDRO1MV
1847	291088			BTXP	xbt 0004 Probe T-4	GDC	20-444N	110-008W	sHYDRO1MV
1838	301088			BTXP	xbt 0005 Probe T-4	GDC	17-147N	107-419W	sHYDRO1MV
1843	311088			BTXP	xbt 0006 Probe T-4	GDC	13-427N	105-324W	sHYDRO1MV
1918	011188			BTXP	xbt 0007 Probe T-4	GDC	10-534N	103-405W	sHYDRO1MV
2337	021188			BTXP	xbt 0008 Probe T-4	GDC	7-567N	102-597W	sHYDRO1MV
2223	031188			BTXP	xbt 0009 Probe T-4	GDC	6-029N	102-310W	sHYDRO1MV
1548	041188			BTXP	xbt 0010 Probe T-4	GDC	4-029N	102-177W	sHYDRO1MV
2128	051188			BTXP	xbt 0011 Probe T-4	GDC	1-057N	102-227W	sHYDRO1MV
1841	061188			BTXP	xbt 0012 Probe T-4	GDC	1-289S	102-338W	sHYDRO1MV
1744	071188			BTXP	xbt 0013 Probe T-4	GDC	4-077S	101-113W	sHYDRO1MV
1740	081188			BTXP	xbt 0014 Probe T-4	GDC	7-424S	99-272W	sHYDRO1MV
1751	081188			BTXP	xbt 0015 Probe T-4	GDC	7-443S	99-268W	sHYDRO1MV
1746	091188			BTXP	xbt 0016 Probe T-4	GDC	11-331S	98-264W	sHYDRO1MV
1643	101188			BTXP	xbt 0017 Probe T-4	GDC	15-034S	97-272W	sHYDRO1MV
1644	111188			BTXP	xbt 0018 Probe T-4	GDC	18-438S	96-305W	sHYDRO1MV
1638	121188			BTXP	xbt 0019 Probe T-4	GDC	22-286S	95-260W	sHYDRO1MV
1643	131188			BTXP	xbt 0020 Probe T-4	GDC	25-099S	94-108W	sHYDRO1MV
1635	141188			BTXP	xbt 0021 Probe T-4	GDC	25-225S	91-378W	sHYDRO1MV
1915	151188			BTXP	xbt 0022 Probe T-4	GDC	24-597S	88-096W	sHYDRO1MV
1549	161188			BTXP	xbt 0023 Probe T-4	GDC	25-012S	85-280W	sHYDRO1MV
1539	171188			BTXP	xbt 0024 Probe T-4	GDC	27-580S	83-371W	sHYDRO1MV
1443	181188			BTXP	xbt 0025 Probe T-4	GDC	31-167S	80-509W	sHYDRO1MV
2008	231188			BTXP	xbt 0027 Probe T-4	GDC	33-386S	78-371W	sHYDRO1MV
1439	241188			BTXP	xbt 0028 Probe T-4	GDC	36-037S	77-085W	sHYDRO1MV
1439	251188			BTXP	xbt 0030 Probe T-4	GDC	39-387S	75-101W	sHYDRO1MV
2045	271188			BTXP	xbt 0031 Probe T-4	GDC	46-259S	75-373W	sHYDRO1MV
2057	271188			BTXP	xbt 0032 Probe T-4	GDC	46-276S	75-387W	sHYDRO1MV

*** END SAMPLE INDEX