

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

(Issued November 1984)

PROTEA EXPEDITION

LEG 4

Punta Arenas, Chile (4 November 1983)
to
Cape Town, South Africa (13 December 1983)

R/V Melville

Chief Scientist - D. Ainley (Pt. Reyes Bird Observatory)

Resident Marine Tech - R. Wilson

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

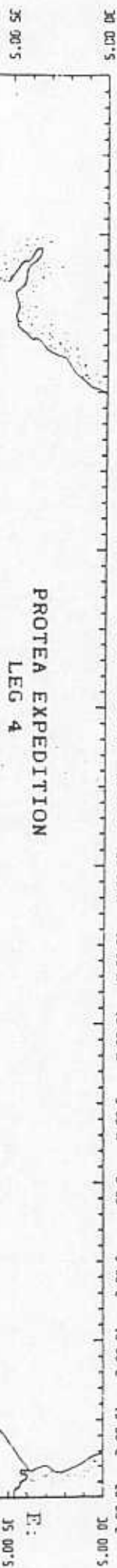
Data Collection Funded by NSF
Grant Number NSF OCE80-24472
Data Processing Funded by SIA and NSF

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.# 212

PROTEA - LEG FOUR TRACK

WGS 84, 0.1432 INCHES LONG



PROTEA EXPEDITION LEG 4

CHIEF SCIENTIST: D. Ainley (Pt. Reyes Bird Observatory)
PORTS: Punta Arenas, Chile - Cape Town, South Africa
DATES: 4 November - 13 December 1983
SHIP: R/V Melville

- TOTAL MILEAGE OF UNDERWAY DATA COLLECTED
- 1) Cruise - 5678 miles
 - 2) Bathymetry - 2518 miles
 - 3) Magnetics - 300 miles
 - 4) Seismic Reflection - none collected
 - 5) Gravity - none collected

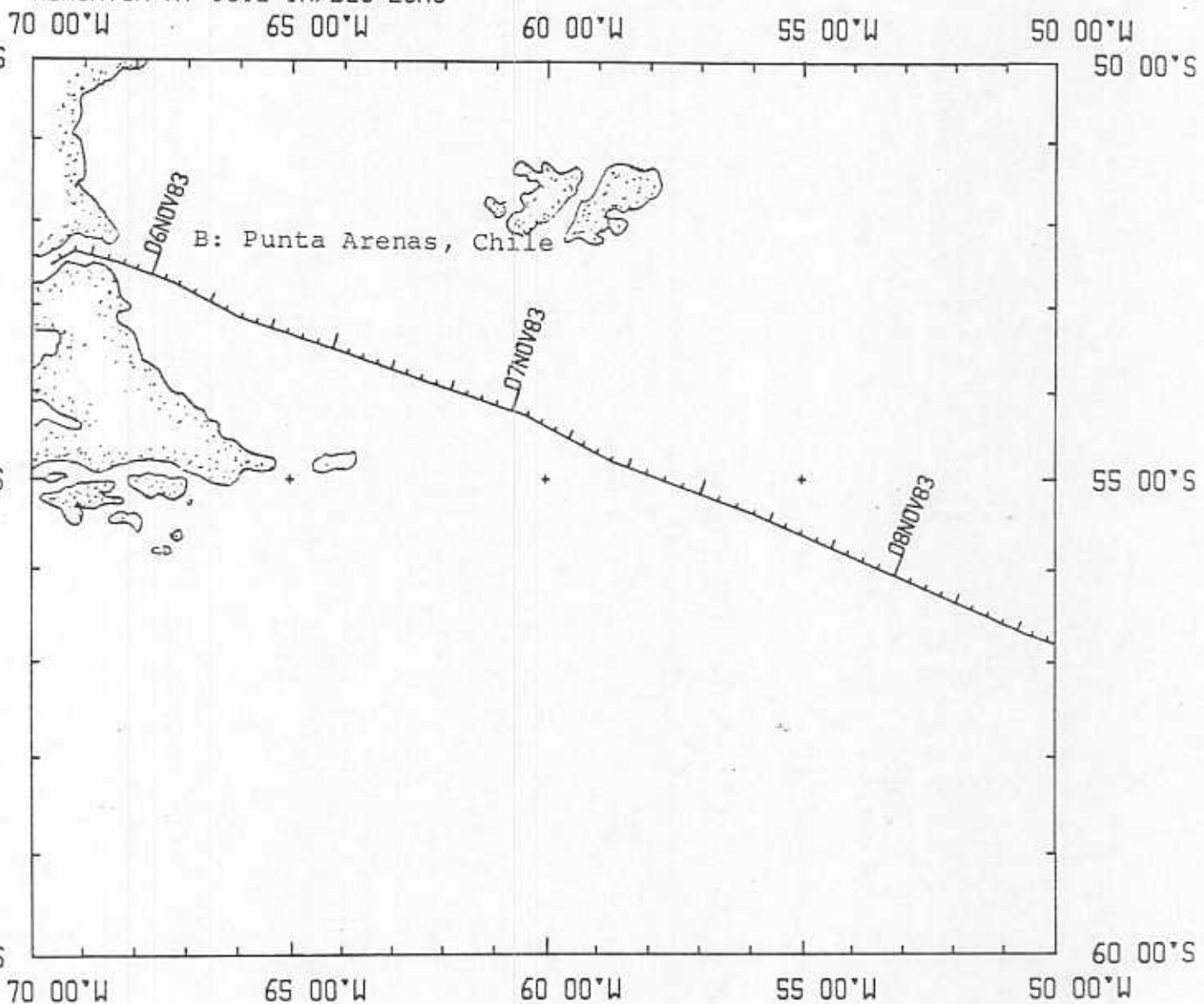
U.S.

WARNING - ABSTRACT DATA PRESENT ON THIS PLOT

PROTO4MV

TRACK PLOT 1 OF 5

MERCATOR AT .312 IN/DEG LONG

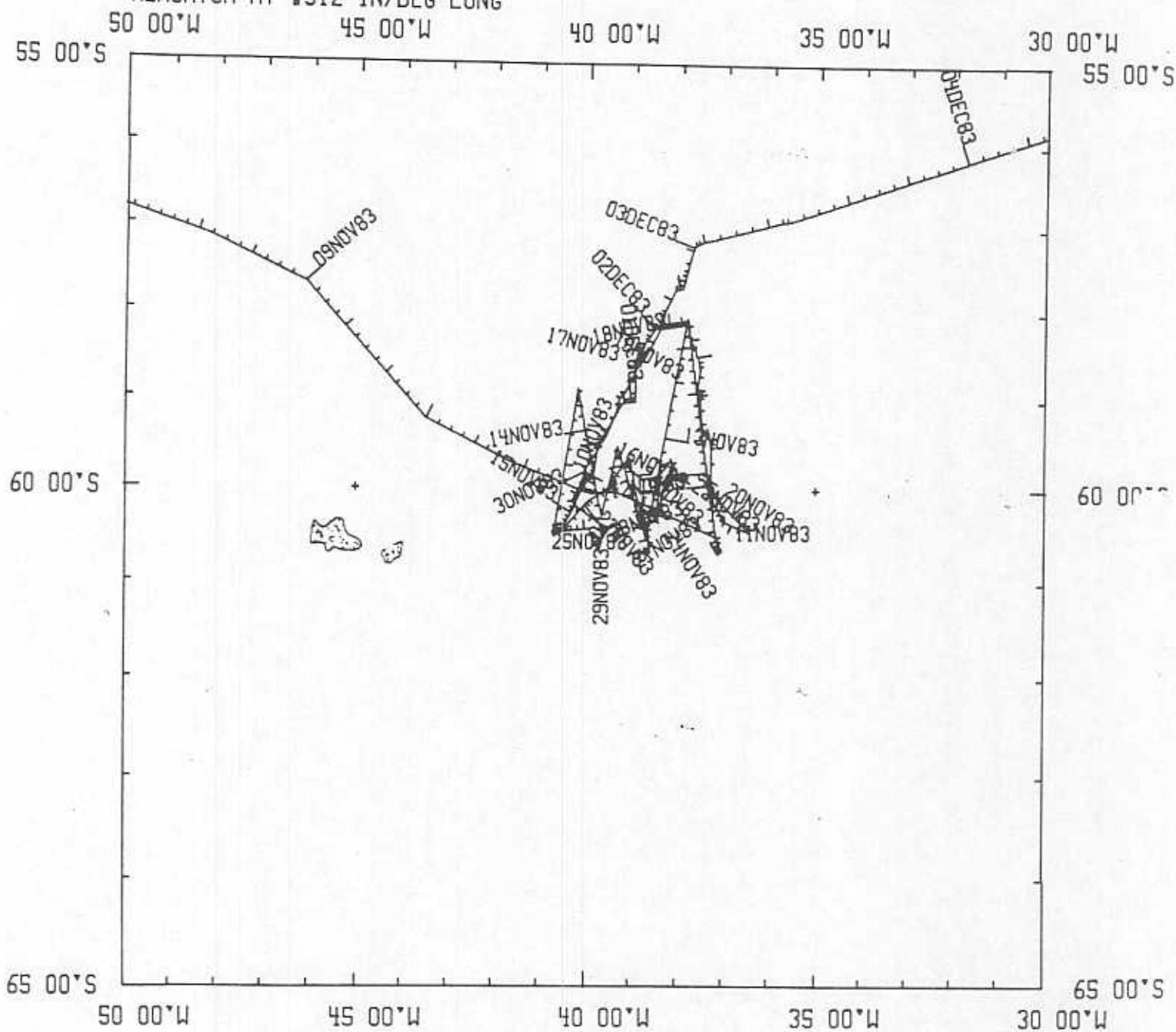


WARNING - ABSTRACT DATA PRESENT ON THIS PLOT

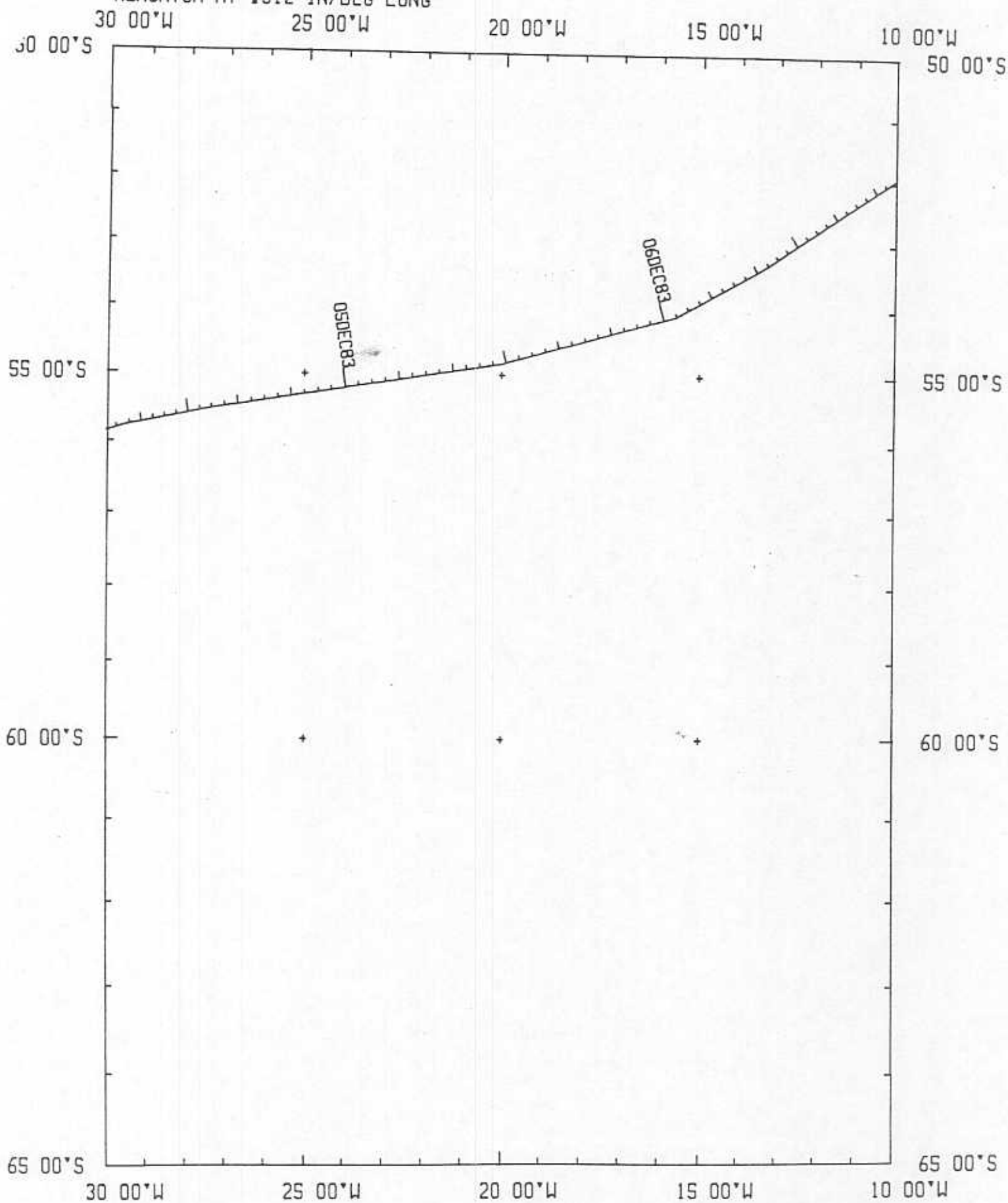
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TRACK PLOT 2 OF 5

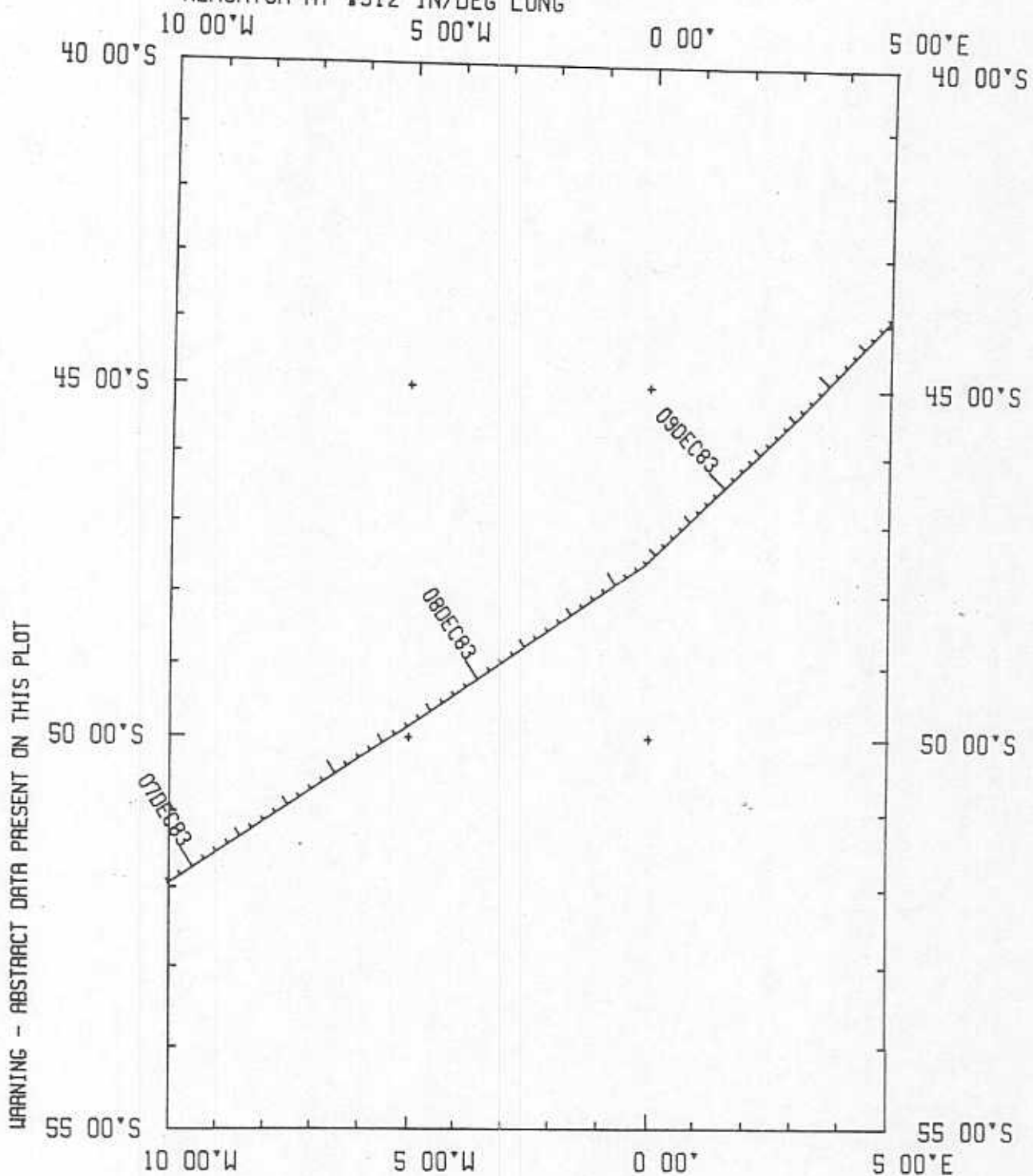
MERCATOR AT .312 IN/DEG LONG



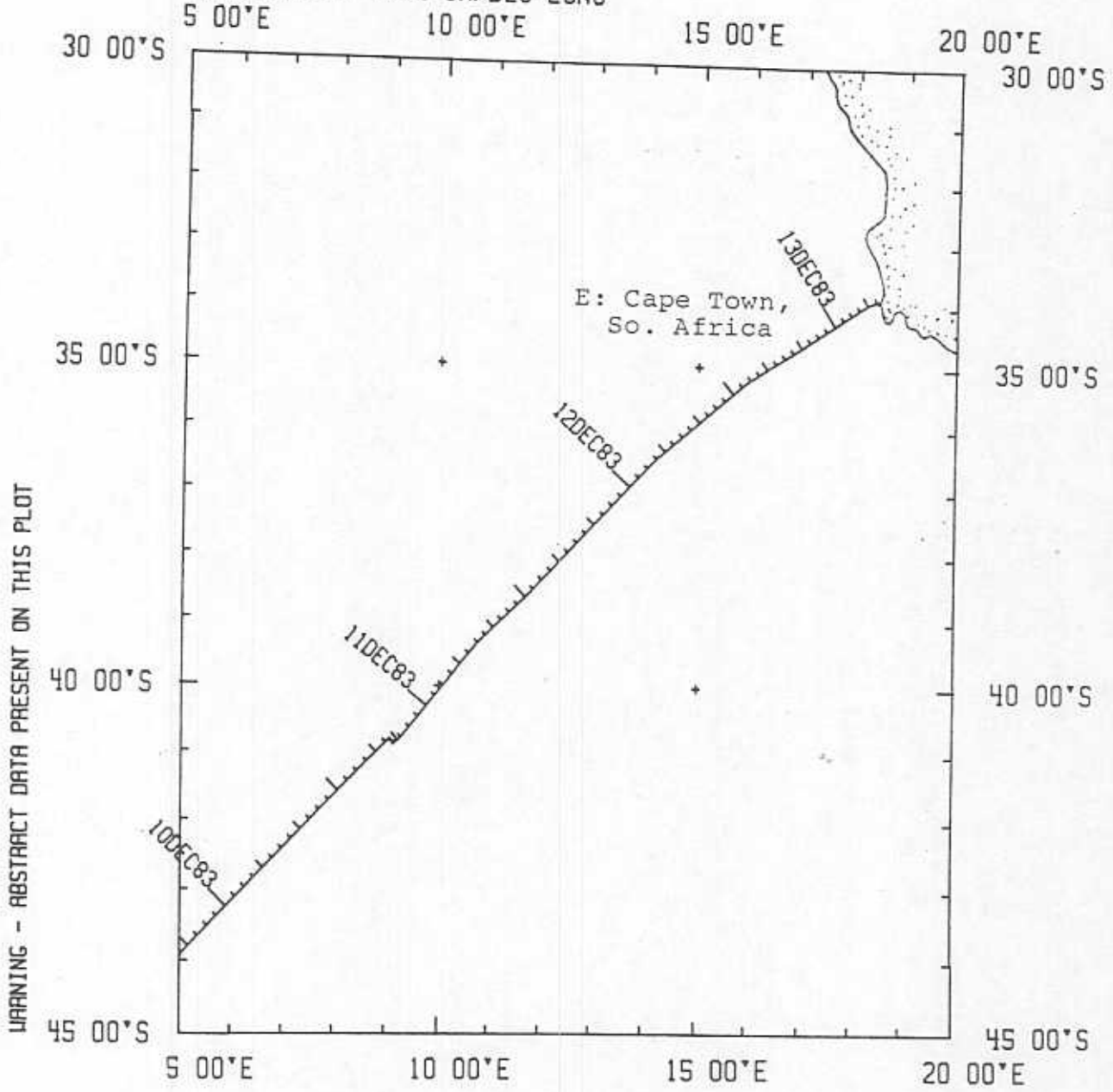
PROTO4MV
TRACK PLOT 3 OF 5
MERCATOR AT .312 IN/DEG LONG



PROTO4MV
TRACK PLOT 4 OF 5
MERCATOR AT .312 IN/DEG LONG

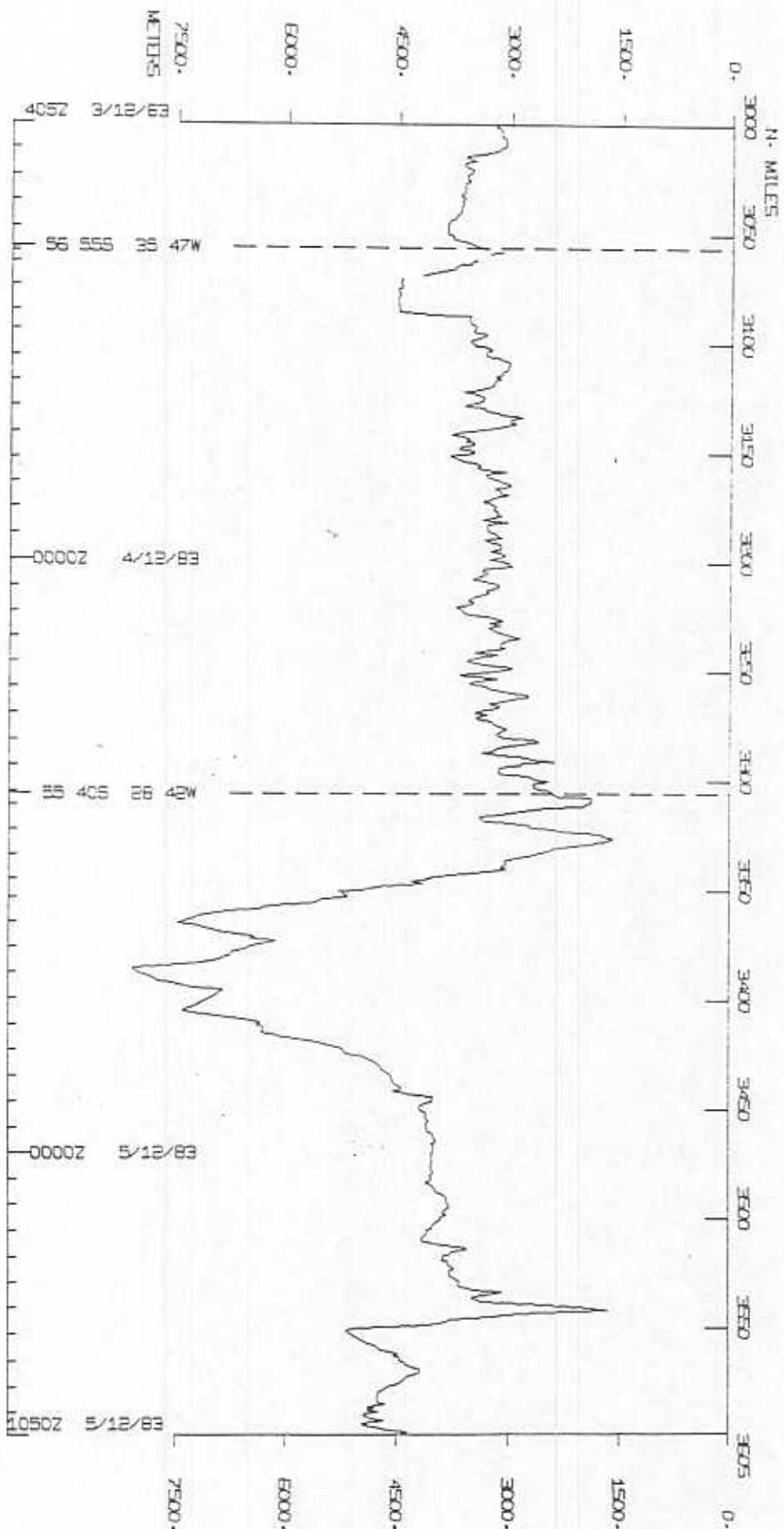


PROTO4MV
TRACK PLOT 5 OF 5
MERCATOR AT .312 IN/DEG LONG

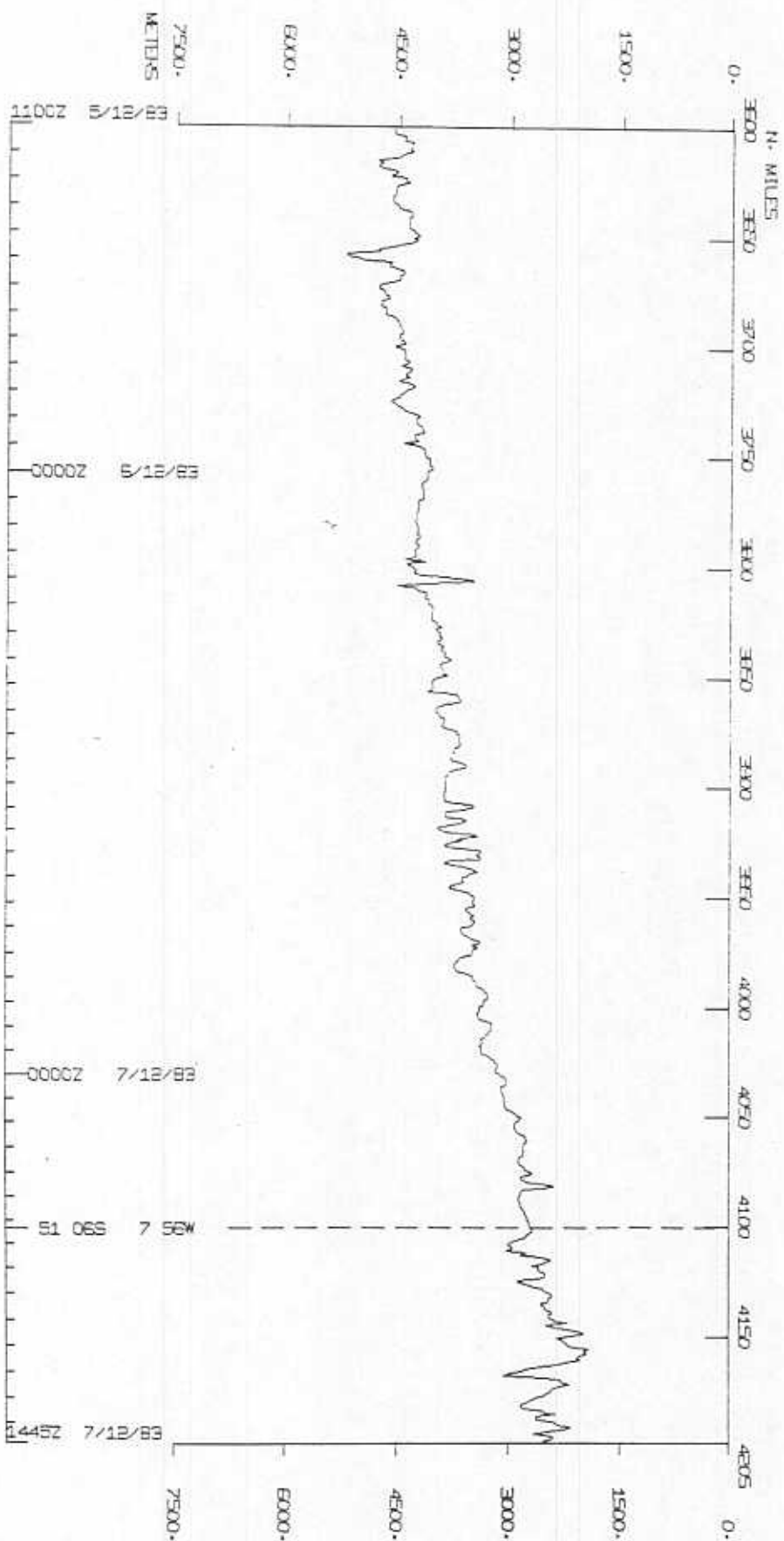


PROTO4MV

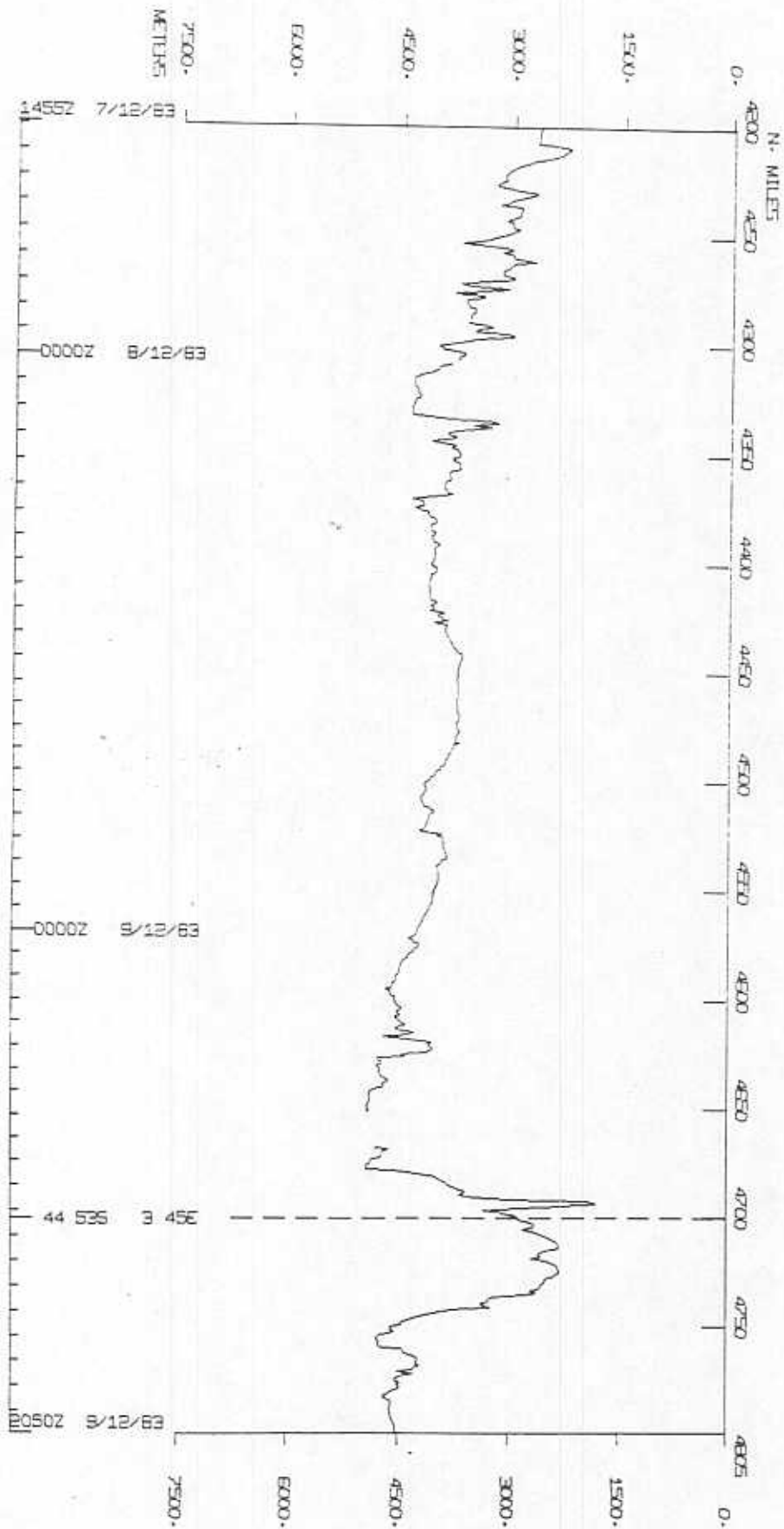
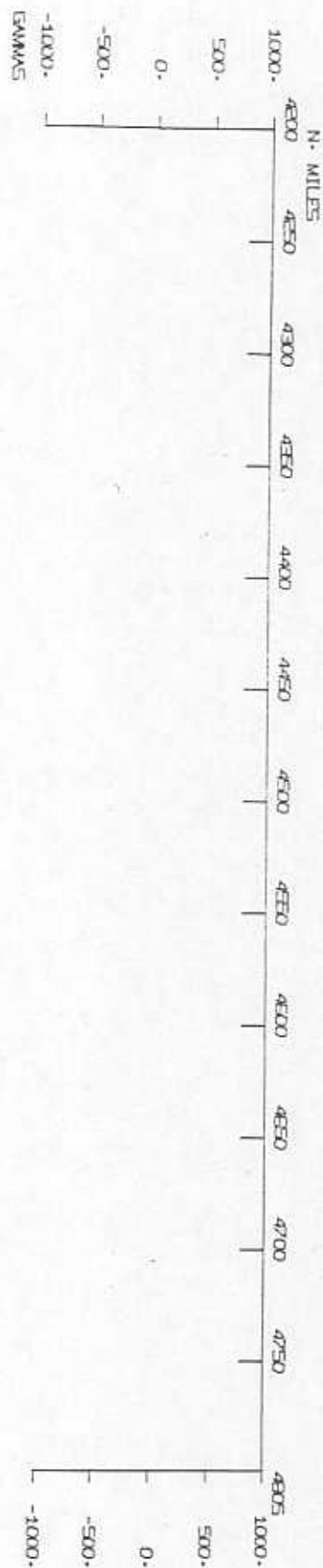
NOTE: NO UNDERWAY DATA COLLECTED BEFORE THIS TIME



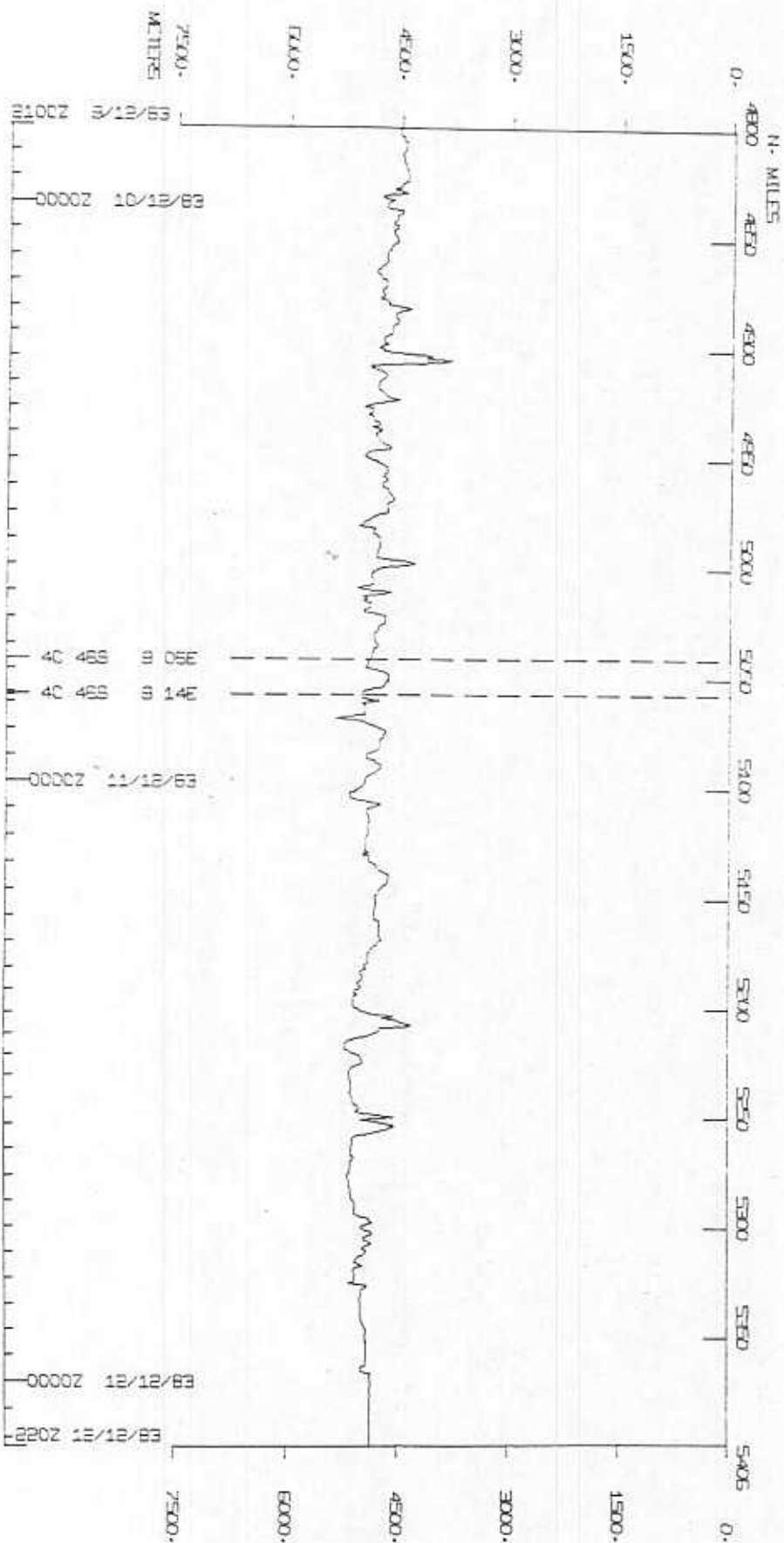
PROTO4MV



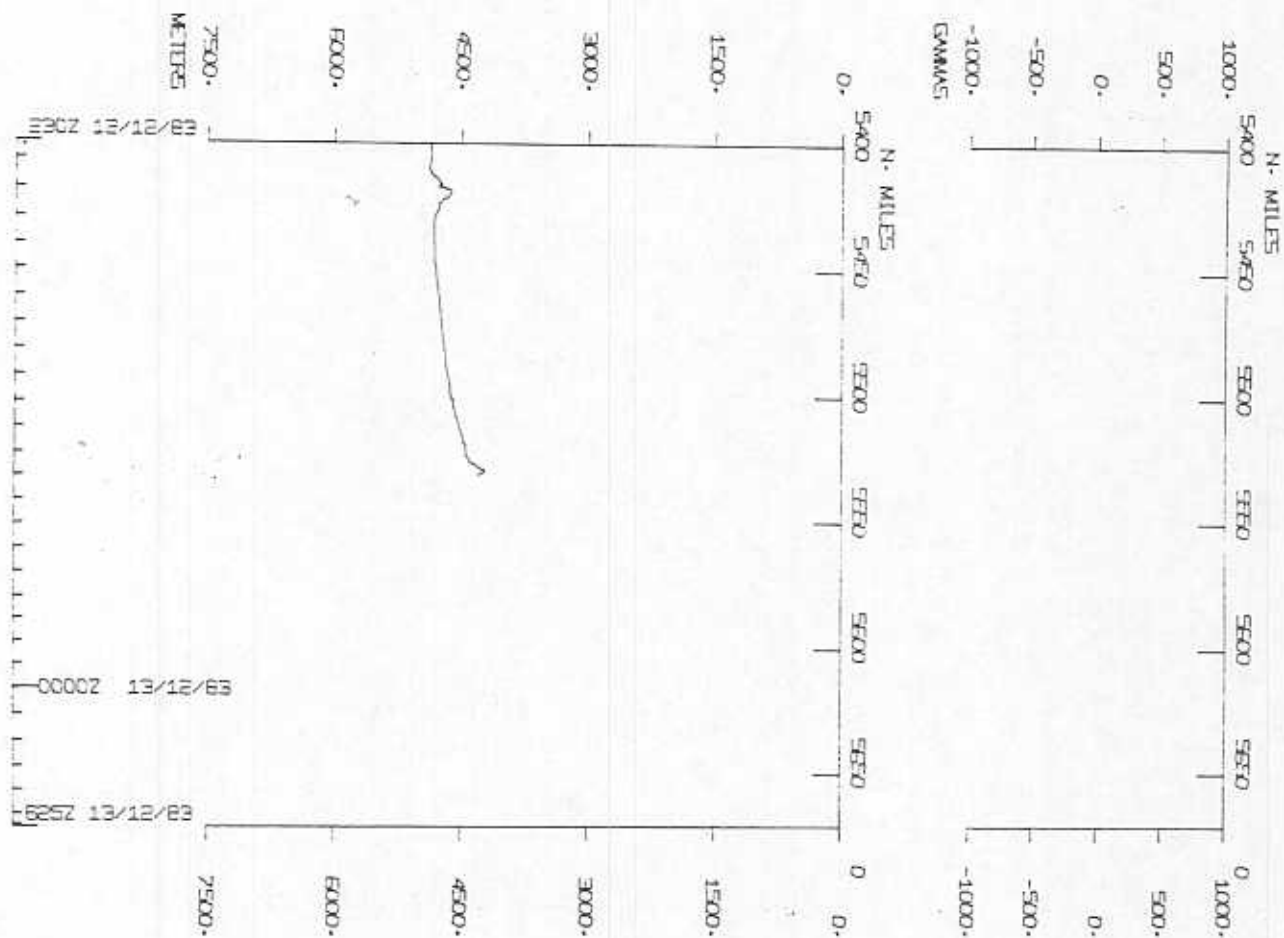
PROTO4MV



PROTO4MV



PROTO4MV



S.I.O. SAMPLE INDEX
(Issued November 1984)

PROTEA EXPEDITION

Leg 4

Punta Arenas, Chile (04 November 1983)
to
Cape Town, South Africa (13 December 1983)
R/V Melville

Chief Scientist - D. Ainley (Pt. Reyes Bird Observatory)

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

Index Encoding Funded by NSF
Grant Number OCE80-22996
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.)

PROTEA LEG 4 SAMPLE INDEX

PROTO4MV

*** PORTS ***

1303	41183	LGPT B PUNTA ARENAS, CHILE	53 10 S	70 54 W	F	PROTO4MV
0518	131283	LGPT E CAPETOWN, SO.AFRICA	33 54 S	18 26 E	F	PROTO4MV
1704	41183	LGSS B CABO NEGRO, CHILE	52 30S	69 363W	S	PROTO4MV
1042	51183	LGSS E CABO NEGRO, CHILE	52 30S	69 363W	S	PROTO4MV

PERSONNEL

***	NAME ***	TITLE ***	AFFILIATION ***	
PECS SIX	AINLEY, D.	CHIEF SCIENTIST	PT.REYES BIRD OBSERV.	PROTO4MV
PERT MTG	WILSON, R.	RESIDENT TECH	SCRIPPS INST.OF OCEAN.	PROTO4MV
PECT SCG	STUBER, D.	COMPUTER TECH	SCRIPPS INST.OF OCEAN.	PROTO4MV
PESP OSU	AHERN, J.	RESEARCH ASST.	OREGON STATE UNIV.	PROTO4MV
PEST UWA	BISHOP, G.	STUDENT	UNIV. OF WASHINGTON	PROTO4MV
PESP MBD	BRINTON, E.	PROFESSOR	SCRIPPS INST.OF OCEAN.	PROTO4MV
PESP LDO	BRUCHHAUSEN, P.	RESEARCH ASST.	LAMONT-DOHERTY GEOL.OBS.	PROTO4MV
PESP SIX	COATS, W.	BIOLOGIST	CHESAPEAKE BAY INST.	PROTO4MV
PESP SIX	FERRIS, L.	NATURALIST	PT. REYES BIRD OBS.	PROTO4MV
PECT SIX	GRAVE, G.	COMPUTER TECH	DIGITAL EQUIP.CORP.	PROTO4MV
PESP SIX	HEINBOKEL, J.	SCIENTIST	CHESAPEAKE BAY INST.	PROTO4MV
PESP LDO	HUBER, B.	OCEANOGRAPHER	LAMONT-DOHERTY GEOL.OBS.	PROTO4MV
PESP OSU	JENNINGS, J.	RESEARCH ASST.	OREGON STATE UNIV.	PROTO4MV
PEST SIX	JOHNSON, T.	STUDENT	UNIV. OF TENNESSEE	PROTO4MV
PEST SIX	KREMPIN, D.	STUDENT	UNIV. OF SO. CALIF.	PROTO4MV
PESP SIX	LANCRAFT, M.	TECHNICIAN	UNIV. OF SO. FLORIDA	PROTO4MV
PESP UWA	MACAULAY, M.	OCEANOGRAPHER	UNIV. OF WASHINGTON	PROTO4MV
PEXN MBD	MARIN, V.	STUDENT	SCRIPPS INST.OF OCEAN.	PROTO4MV
PEST SIX	MILLER, N.	STUDENT	UNIV. OF SO. CALIF.	PROTO4MV
PESP NOA	MOUNTAIN, D.	OCEANOGRAPHER	NAT.OCEAN/ATHOS.ADMIN.	PROTO4MV
PESP SIX	OCONNOR, E.	NATURALIST	PT.REYES BIRD OBSERV.	PROTO4MV
PESP NOA	SCHLITZ, R.	OCEANOGRAPHER	NAT.OCEAN/ATHOS.ADMIN.	PROTO4MV
PESP SIX	SMITH, W.	OCEANOGRAPHER	UNIV. OF TENNESSEE	PROTO4MV
PESP OSU	SPARROW, M.	RESEARCH ASST.	OREGON STATE UNIV.	PROTO4MV
PESP LDO	STAPIEN, J.	OCEANOGRAPHER	LAMONT-DOHERTY GEOL.OBS.	PROTO4MV
PEST MBD	SYKES, P.	STUDENT	SCRIPPS INST.OF OCEAN.	PROTO4MV
PESP SIX	TORRES, J.	PROFESSOR	UNIV. OF SO. FLORIDA	PROTO4MV
PEST SIX	WEIGLE, B.	STUDENT	UNIV. OF SO. FLORIDA	PROTO4MV

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 THIS 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 TIME	DDMMYY DATE	SAMP CODE	SAMPLE IDENTIFIER	DISP LAT. CODE	LONG.	CRUISE LEG-SHIP
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**** UNDERWAY DATA CURATOR - STUART M. SMITH EXT. 2752 ****

*** LOG BOOKS ***

2232	101183	LBSC B	HYDROGRAPHIC LOG	NOA 60 342S	37 55W S	PROTO4MV
2003	21283	LBSC E	HYDROGRAPHIC LOG	NOA 57 174S	37 415W S	PROTO4MV
2232	101183	LBSC B	CTD LOG	NOA 60 342S	37 55W S	PROTO4MV
2006	31283	LBSC E	CTD LOG	NOA 56 250S	33 20W S	PROTO4MV
830	61183	LBSC B	BIRD CENSUS MELV83	SIG 53 176S	65 86W S	PROTO4MV
518	131283	LBSC E	BIRD CENSUS MELV83	SIG 33 529S	18 273E S	PROTO4MV
1200	111183	LBSC B	BIRD SPECIMEN DATA	SIG 60 422S	37 76W S	PROTO4MV
900	31283	LBSC E	BIRD SPECIMEN DATA	SIG 56 559S	35 469W S	PROTO4MV

*** FATHOGRAMS ***

2124	101183	DPRT B	EDO 12KHZ R-01	GDC 60 343S	37 60W S	PROTO4MV
820	91283	DPRT E	EDO 12KHZ R-01	GDC 45 256S	3 26E S	PROTO4MV
845	91283	DPRT B	EDO 12KHZ R-02	GDC 45 223S	3 67E S	PROTO4MV
1500	121283	DPRT E	EDO 12KHZ R-02	GDC 35 72W	16 101E S	PROTO4MV

*** MAGNETOMETER ***

1202	31283	MGRA B	MAGNETICS R-01	GDC 56 553S	35 355W S	PROTO4MV
1230	51283	MGRA E	MAGNETICS R-01	GDC 54 479S	19 434W S	PROTO4MV

*** SPECIAL BIOLOGICAL SAMPLE ***

1200	111183	BLXX B	BIRD COLLECTION	SIG 60 422S	37 76W S	PROTO4MV
1400	111183	BLXX E	BOAT AND SHOTGUN	SIG 60 417S	37 49W S	PROTO4MV
1115	161183	BLXX B	BIRD COLLECTION	SIG 59 22S	39 162W S	PROTO4MV
1259	161183	BLXX E	BOAT AND SHOTGUN	SIG 59 9S	39 174W S	PROTO4MV
959	171183	BLXX B	BIRD COLLECTION	SIG 58 116S	38 232W S	PROTO4MV
1100	171183	BLXX E	BOAT AND SHOTGUN	SIG 58 117S	38 216W S	PROTO4MV
812	181183	BLXX B	BIRD COLLECTION	SIG 58 266S	37 401W S	PROTO4MV
948	181183	BLXX E	BOAT AND SHOTGUN	SIG 58 267S	37 387W S	PROTO4MV
900	191183	BLXX B	BIRD COLLECTION	SIG 59 250S	37 267W S	PROTO4MV
1030	191183	BLXX E	BOAT AND SHOTGUN	SIG 59 241S	37 252W S	PROTO4MV
813	231183	BLXX B	BIRD COLLECTION	SIG 60 18S	38 215W S	PROTO4MV
1015	231183	BLXX E	BOAT AND SHOTGUN	SIG 60 15S	38 216W S	PROTO4MV

GMT TIME	DDMMYY DATE	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1920	231183	BLXX B	PHOTOS AND ICE	SIG 60	215S	38 281W	S PROTO4MV
2100	231183	BLXX E	BOAT AND CAMERA	SIG 60	220S	38 285W	S PROTO4MV
920	241183	BLXX B	BIRD COLLECTION	SIG 60	151S	38 448W	S PROTO4MV
1045	241183	BLXX E	BOAT AND SHOTGUN	SIG 60	145S	38 453W	S PROTO4MV
830	281183	BLXX B	BIRD COLLECTION	SIG 60	334S	39 341W	S PROTO4MV
1035	281183	BLXX E	BOAT AND SHOTGUN	SIG 60	316S	39 327W	S PROTO4MV
900	31283	BLXX B	BIRD COLLECTION	SIG 56	559S	35 469W	S PROTO4MV
1130	31283	BLXX E	BOAT AND SHOTGUN	SIG 56	561S	35 412W	S PROTO4MV
1512	101183	BLXX	BIOLOGY SAMPLE	SIG 60	324S	37 65W	S PROTO4MV
1639	141183	BLXX	BIOLOGY SAMPLE	SIG 60	295S	40 333W	S PROTO4MV
1718	141183	BLXX	BIOLOGY SAMPLE	SIG 60	293S	40 334W	S PROTO4MV
735	151183	BLXX	BIOLOGY SAMPLE	SIG 60	82S	40 112W	S PROTO4MV
1354	151183	BLXX	BIOLOGY SAMPLE	SIG 59	537S	40 1W	S PROTO4MV
2240	151183	BLXX	BIOLOGY SAMPLE	SIG 59	324S	39 444W	S PROTO4MV
1157	161183	BLXX	BIOLOGY SAMPLE	SIG 59	17S	39 165W	S PROTO4MV
2049	161183	BLXX	BIOLOGY SAMPLE	SIG 58	384S	38 515W	S PROTO4MV
1050	171183	BLXX	BIOLOGY SAMPLE	SIG 58	117S	38 221W	S PROTO4MV
2307	171183	BLXX	BIOLOGY SAMPLE	SIG 58	66S	37 478W	S PROTO4MV
625	181183	BLXX	BIOLOGY SAMPLE	SIG 58	266S	37 412W	S PROTO4MV
1615	181183	BLXX	BIOLOGY SAMPLE	SIG 58	551S	37 374W	S PROTO4MV
1230	191183	BLXX	BIOLOGY SAMPLE	SIG 59	225S	37 229W	S PROTO4MV
2001	191183	BLXX	BIOLOGY SAMPLE	SIG 59	537S	37 178W	S PROTO4MV
2324	191183	BLXX	BIOLOGY SAMPLE	SIG 59	549S	37 194W	S PROTO4MV
1759	201183	BLXX	BIOLOGY SAMPLE	SIG 60	196S	37 55W	S PROTO4MV
1205	211183	BLXX	BIOLOGY SAMPLE	SIG 59	514S	38 2W	S PROTO4MV
2025	221183	BLXX	BIOLOGY SAMPLE	SIG 59	419S	38 95W	S PROTO4MV
802	231183	BLXX	BIOLOGY SAMPLE	SIG 60	18S	38 214W	S PROTO4MV
1713	231183	BLXX	BIOLOGY SAMPLE	SIG 60	208S	38 281W	S PROTO4MV
934	241183	BLXX	BIOLOGY SAMPLE	SIG 60	149S	38 443W	S PROTO4MV
1938	241183	BLXX	BIOLOGY SAMPLE	SIG 60	413S	38 364W	S PROTO4MV
718	251183	BLXX	BIOLOGY SAMPLE	SIG 60	12S	38 563W	S PROTO4MV
1614	251183	BLXX	BIOLOGY SAMPLE	SIG 59	414S	39 14W	S PROTO4MV
341	261183	BLXX	BIOLOGY SAMPLE	SIG 59	558S	39 290W	S PROTO4MV
1909	261183	BLXX	BIOLOGY SAMPLE	SIG 60	76S	39 564W	S PROTO4MV
1107	271183	BLXX	BIOLOGY SAMPLE	SIG 60	284S	40 321W	S PROTO4MV

GMT TIME	DDMMYY DATE	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
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*** BATHYTHERMOGRAPH ***

0	61183	BTXP	NO. SAMPLES = 1	NOA 52	390S	67 417W S	PROTO4MV
0	71183	BTXP	NO. SAMPLES = 3	NOA 54	133S	60 390W S	PROTO4MV
0	81183	BTXP	NO. SAMPLES = 6	NOA 56	60S	53 106W S	PROTO4MV
0	91183	BTXP	NO. SAMPLES = 6	NOA 57	406S	46 80W S	PROTO4MV
0	101183	BTXP	NO. SAMPLES = 1	NOA 59	599S	40 95W S	PROTO4MV
0	111183	BTXP	NO. SAMPLES = 5	NOA 60	338S	37 46W S	PROTO4MV
0	121183	BTXP	NO. SAMPLES = 20	NOA 59	585S	37 192W S	PROTO4MV
0	131183	BTXP	NO. SAMPLES = 24	NOA 59	251S	38 235W S	PROTO4MV
0	141183	BTXP	NO. SAMPLES = 14	NOA 59	220S	40 9W S	PROTO4MV
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0	161183	BTXP	NO. SAMPLES = 3	NOA 59	324S	39 451W S	PROTO4MV
0	171183	BTXP	NO. SAMPLES = 5	NOA 58	381S	38 502W S	PROTO4MV
0	181183	BTXP	NO. SAMPLES = 2	NOA 58	61S	37 483W S	PROTO4MV
0	191183	BTXP	NO. SAMPLES = 0	NOA 58	530S	37 360W S	PROTO4MV
0	201183	BTXP	NO. SAMPLES = 3	NOA 59	551S	37 199W S	PROTO4MV
0	211183	BTXP	NO. SAMPLES = 3	NOA 60	145S	37 27W S	PROTO4MV
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0	291183	BTXP	NO. SAMPLES = 1	NOA 60	240S	39 285W S	PROTO4MV
0	301183	BTXP	NO. SAMPLES = 2	NOA 59	490S	39 595W S	PROTO4MV
0	11283	BTXP	NO. SAMPLES = 3	NOA 59	36S	39 14W S	PROTO4MV
0	21283	BTXP	NO. SAMPLES = 2	NOA 58	130S	38 300W S	PROTO4MV

BUCKET WATER SAMPLE SURFACE TEMPERATURE

0	61183	BKST	NO. SAMPLES = 15	NOA 52	390S	67 417W S	PROTO4MV
0	71183	BKST	NO. SAMPLES = 16	NOA 54	133S	60 390W S	PROTO4MV
0	81183	BKST	NO. SAMPLES = 18	NOA 56	60S	53 106W S	PROTO4MV
0	91183	BKST	NO. SAMPLES = 15	NOA 57	406S	46 80W S	PROTO4MV
0	101183	BKST	NO. SAMPLES = 3	NOA 59	599S	40 95W S	PROTO4MV
0	111183	BKST	NO. SAMPLES = 3	NOA 60	338S	37 46W S	PROTO4MV
0	121183	BKST	NO. SAMPLES = 19	NOA 59	585S	37 192W S	PROTO4MV
0	131183	BKST	NO. SAMPLES = 24	NOA 59	251S	38 235W S	PROTO4MV
0	141183	BKST	NO. SAMPLES = 12	NOA 59	220S	40 9W S	PROTO4MV
0	161183	BKST	NO. SAMPLES = 3	NOA 59	324S	39 451W S	PROTO4MV
0	171183	BKST	NO. SAMPLES = 3	NOA 58	381S	38 502W S	PROTO4MV
0	181183	BKST	NO. SAMPLES = 2	NOA 58	61S	37 483W S	PROTO4MV
0	191183	BKST	NO. SAMPLES = 3	NOA 58	530S	37 360W S	PROTO4MV
0	201183	BKST	NO. SAMPLES = 3	NOA 59	551S	37 199W S	PROTO4MV
0	211183	BKST	NO. SAMPLES = 3	NOA 60	145S	37 27W S	PROTO4MV
0	221183	BKST	NO. SAMPLES = 1	NOA 59	527S	38 27W S	PROTO4MV
0	241183	BKST	NO. SAMPLES = 7	NOA 60	217S	38 305W S	PROTO4MV

GMT TIME	DDMMYY DATE	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT. LONG.	CRUISE LEG-SHIP
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0	251183	BKST	NO. SAMPLES = 3	NOA 60 420S	38 357W S	PROTO4MV
0	261183	BKST	NO. SAMPLES = 2	NOA 59 436S	39 101W S	PROTO4MV
0	301183	BKST	NO. SAMPLES = 1	NOA 59 490S	39 595W S	PROTO4MV
0	11283	BKST	NO. SAMPLES = 2	NOA 59 36S	39 14W S	PROTO4MV
0	21283	BKST	NO. SAMPLES = 1	NOA 58 130S	38 300W S	PROTO4MV
0	31283	BKST	NO. SAMPLES = 6	NOA 57 145S	37 409W S	PROTO4MV
0	41283	BKST	NO. SAMPLES = 3	NOA 56 100S	31 442W S	PROTO4MV
0	51283	BKST	NO. SAMPLES = 7	NOA 55 113S	23 591W S	PROTO4MV
0	61283	BKST	NO. SAMPLES = 4	NOA 54 90S	15 545W S	PROTO4MV
0	71283	BKST	NO. SAMPLES = 7	NOA 51 432S	9 317W S	PROTO4MV
0	81283	BKST	NO. SAMPLES = 5	NOA 49 104S	3 327W S	PROTO4MV
0	91283	BKST	NO. SAMPLES = 6	NOA 46 254S	1 306E S	PROTO4MV
0	101283	BKST	NO. SAMPLES = 6	NOA 43 175S	5 559E S	PROTO4MV
0	111283	BKST	NO. SAMPLES = 6	NOA 40 162S	9 442E S	PROTO4MV
0	121283	BKST	NO. SAMPLES = 5	NOA 36 554S	13 387E S	PROTO4MV

CONTINUOUS SURFACE WATER SAMPLE

1921	111183	CSXX B	SURFACE CHLOROPHYLL	SIG 60 323S	37 106W S	PROTO4MV
800	41283	CSXX E	SURFACE CHLOROPHYLL	SIG 55 424S	29 41W S	PROTO4MV
1921	111183	CSXX B	SURFACE CHLOROPHYLL	SIG 60 323S	37 106W S	PROTO4MV
800	41283	CSXX E	SURFACE CHLOROPHYLL	SIG 55 424S	29 41W S	PROTO4MV

ROCK DREDGE CURATOR W. RIEDEL (EXT. 4386)

1115	241183	DRXX	ROCK FROM ICEBURG	GCR 60 142S	38 457W S	PROTO4MV
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SUBMERGED PHOTOMETER

2237	81183	PSXX	SPECTRORADIOMETER	SIG 57 359S	46 329W S	PROTO4MV
2237	91183	PSXX	SPECTRORADIOMETER	SIG 59 548S	40 308W S	PROTO4MV
637	111183	PSXX	SPECTRORADIOMETER	SIG 60 339S	37 43W S	PROTO4MV
700	111183	PSXX	SPECTRORADIOMETER	SIG 60 339S	37 43W S	PROTO4MV
1139	111183	PSXX	SPECTRORADIOMETER	SIG 60 423S	37 84W S	PROTO4MV
1155	111183	PSXX	SPECTRORADIOMETER	SIG 60 423S	37 79W S	PROTO4MV
1743	141183	PSXX	SPECTRORADIOMETER	SIG 60 292S	40 336W S	PROTO4MV
1807	141183	PSXX	SPECTRORADIOMETER	SIG 60 291S	40 338W S	PROTO4MV
746	151183	PSXX	SPECTRORADIOMETER	SIG 60 81S	40 113W S	PROTO4MV
756	151183	PSXX	SPECTRORADIOMETER	SIG 60 81S	40 114W S	PROTO4MV
1428	151183	PSXX	SPECTRORADIOMETER	SIG 59 538S	39 599W S	PROTO4MV
1446	151183	PSXX	SPECTRORADIOMETER	SIG 59 539S	39 595W S	PROTO4MV

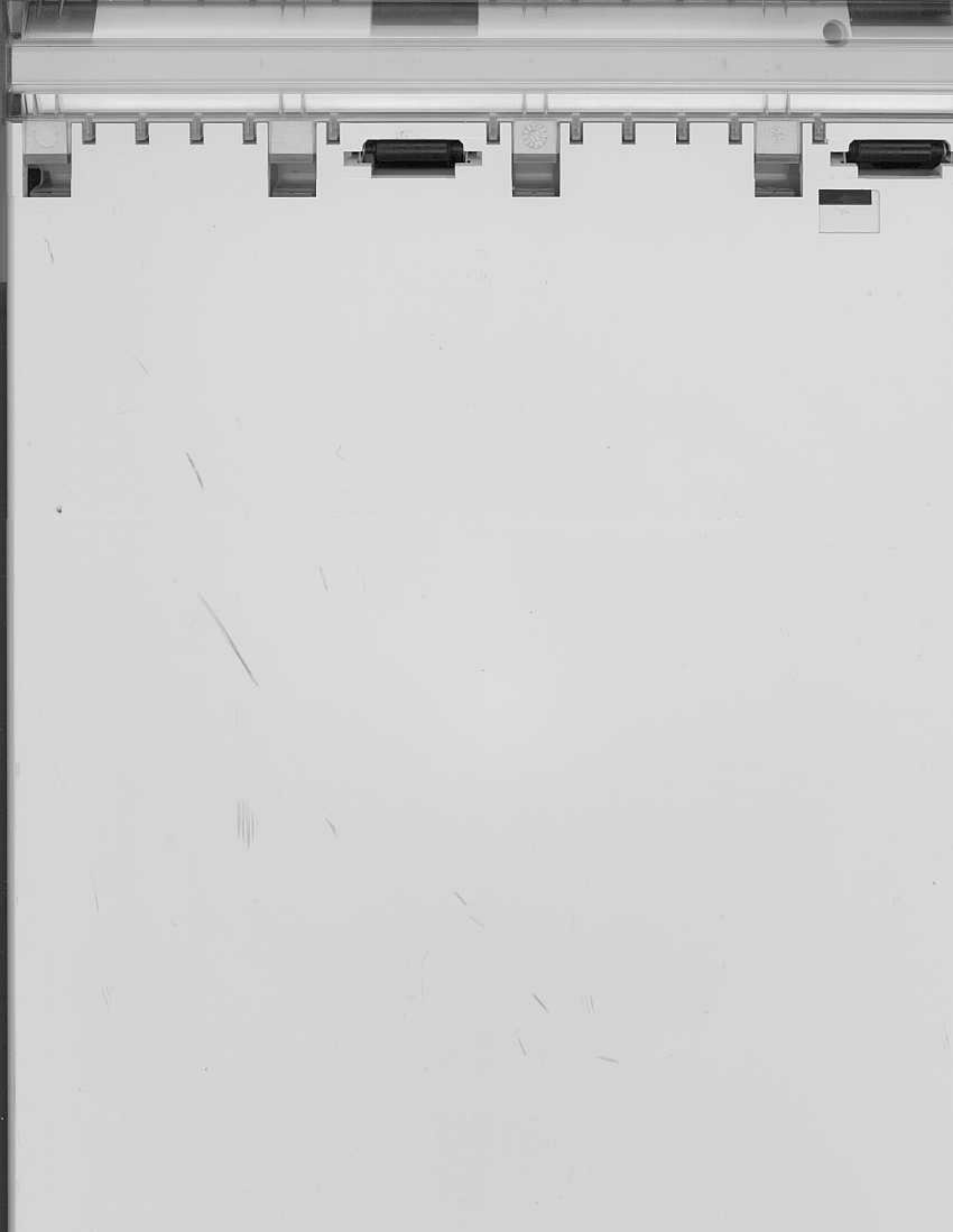
GMT TIME	DDMMYY DATE	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT. LAT.	LONG. LONG.	CRUISE LEG-SHIP
1241	161183	PSXX	SPECTRORADIOMETER	SIG 59	11S	39 173W S	PROTO4MV
1257	161183	PSXX	SPECTRORADIOMETER	SIG 59	9S	39 174W S	PROTO4MV
1104	171183	PSXX	SPECTRORADIOMETER	SIG 58	118S	38 213W S	PROTO4MV
1125	171183	PSXX	SPECTRORADIOMETER	SIG 58	118S	38 202W S	PROTO4MV
741	181183	PSXX	SPECTRORADIOMETER	SIG 58	266S	37 404W S	PROTO4MV
802	181183	PSXX	SPECTRORADIOMETER	SIG 58	266S	37 402W S	PROTO4MV
1932	181183	PSXX	SPECTRORADIOMETER	SIG 58	541S	37 368W S	PROTO4MV
2002	181183	PSXX	SPECTRORADIOMETER	SIG 58	540S	37 367W S	PROTO4MV
1024	191183	PSXX	SPECTRORADIOMETER	SIG 59	242S	37 252W S	PROTO4MV
1058	191183	PSXX	SPECTRORADIOMETER	SIG 59	237S	37 248W S	PROTO4MV
1900	51183	PSQM B	LIGHT SENSOR	SIG 52	217S	69 102W S	PROTO4MV
1500	31283	PSQM E	LIGHT SENSOR	SIG 56	451S	34 437W S	PROTO4MV

ACOUSTIC SURVEY

1020	81183	ACXX B	ACOUSTIC ZOOPLANKTON	SIG 56	487S	50 42W S	PROTO4MV
1330	41283	ACXX E	SENSOR 50 120 200KCS	SIG 55	307S	27 262W S	PROTO4MV

OPEN NET

1423	101183	ON30 B	35V	50	0	SIG 60	318S	37	73W S	PROTO4MV
1435	101183	ON30 E	35V	50	0	SIG 60	319S	37	73W S	PROTO4MV
1752	101183	ON30 B	35V	50	0	SIG 60	335S	37	66W S	PROTO4MV
1803	101183	ON30 E	35V	50	0	SIG 60	335S	37	64W S	PROTO4MV
2213	101183	ON30 B	35V	50	0	SIG 60	342S	37	58W S	PROTO4MV
2225	101183	ON30 E	35V	50	0	SIG 60	342S	37	56W S	PROTO4MV
47	111183	ON30 B	35V	50	0	SIG 60	339S	37	40W S	PROTO4MV
53	111183	ON30 E	35V	50	0	SIG 60	339S	37	40W S	PROTO4MV
430	111183	ON30 B	35V	50	0	SIG 60	338S	37	45W S	PROTO4MV
445	111183	ON30 E	35V	50	0	SIG 60	338S	37	45W S	PROTO4MV
623	111183	ON30 B	35V	50	0	SIG 60	339S	37	44W S	PROTO4MV
630	111183	ON30 E	35V	50	0	SIG 60	339S	37	43W S	PROTO4MV
954	111183	ON30 B	35V	75	0	SIG 60	329S	37	103W S	PROTO4MV
1005	111183	ON30 E	35V	75	0	SIG 60	332S	37	102W S	PROTO4MV
1313	111183	ON30 B	35V	75	0	SIG 60	419S	37	57W S	PROTO4MV
1320	111183	ON30 E	35V	75	0	SIG 60	419S	37	56W S	PROTO4MV
1913	141183	ON30 B	35V	25	0	SIG 60	287S	40	339W S	PROTO4MV
1915	141183	ON30 E	35V	25	0	SIG 60	286S	40	339W S	PROTO4MV
850	151183	ON30 B	35V	30	0	SIG 60	78S	40	117W S	PROTO4MV
853	151183	ON30 E	35V	30	0	SIG 60	78S	40	117W S	PROTO4MV
1549	151183	ON30 B	35V	30	0	SIG 59	545S	39	587W S	PROTO4MV
1552	151183	ON30 E	35V	30	0	SIG 59	545S	39	586W S	PROTO4MV
44	161183	ON30 B	35V	30	0	SIG 59	324S	39	455W S	PROTO4MV
48	161183	ON30 E	35V	30	0	SIG 59	324S	39	456W S	PROTO4MV
1349	161183	ON30 B	35V	30	0	SIG 59	4S	39	175W S	PROTO4MV
1354	161183	ON30 E	35V	30	0	SIG 59	4S	39	175W S	PROTO4MV



GMT TIME	DDMMYY DATE	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
2314	161183	ON30 B	35V 30 0	SIG 58	384S	38 501W S	PROTO4MV
2317	161183	ON30 E	35V 30 0	SIG 58	384S	38 501W S	PROTO4MV
1211	171183	ON30 B	35V 50 0	SIG 58	119S	38 181W S	PROTO4MV
1216	171183	ON30 E	35V 50 0	SIG 58	119S	38 179W S	PROTO4MV
2244	171183	ON30 B	35V 50 0	SIG 58	70S	37 477W S	PROTO4MV
2250	171183	ON30 E	35V 50 0	SIG 58	69S	37 477W S	PROTO4MV
525	181183	ON30 B	35V 30 0	SIG 58	261S	37 431W S	PROTO4MV
530	181183	ON30 E	35V 30 0	SIG 58	261S	37 429W S	PROTO4MV
604	181183	ON30 B	35V 20 0	SIG 58	265S	37 418W S	PROTO4MV
607	181183	ON30 E	35V 20 0	SIG 58	265S	37 417W S	PROTO4MV
1716	181183	ON30 B	35V 30 0	SIG 58	544S	37 376W S	PROTO4MV
1720	181183	ON30 E	35V 30 0	SIG 58	543S	37 375W S	PROTO4MV
2040	181183	ON30 B	35V 30 0	SIG 58	539S	37 367W S	PROTO4MV
2045	181183	ON30 E	35V 30 0	SIG 58	539S	37 366W S	PROTO4MV
2049	181183	ON30 B	35V 20 0	SIG 58	538S	37 366W S	PROTO4MV
2053	181183	ON30 E	35V 20 0	SIG 58	538S	37 365W S	PROTO4MV
17	191183	ON30 B	35V 30 0	SIG 58	529S	37 358W S	PROTO4MV
21	191183	ON30 E	35V 30 0	SIG 58	529S	37 357W S	PROTO4MV
906	191183	ON30 B	35V 50 0	SIG 59	250S	37 264W S	PROTO4MV
920	191183	ON30 E	35V 50 0	SIG 59	249S	37 262W S	PROTO4MV
1156	191183	ON30 B	35V 50 0	SIG 59	229S	37 233W S	PROTO4MV
1204	191183	ON30 E	35V 50 0	SIG 59	228S	37 235W S	PROTO4MV
1214	191183	ON20 B	20V 20 0	SIG 59	227S	37 233W S	PROTO4MV
1218	191183	ON20 E	20V 20 0	SIG 59	226S	37 232W S	PROTO4MV
2006	191183	ON30 B	35V 50 0	SIG 59	538S	37 184W S	PROTO4MV
2012	191183	ON30 E	35V 50 0	SIG 59	538S	37 186W S	PROTO4MV
2243	191183	ON30 B	35V 50 0	SIG 59	549S	37 193W S	PROTO4MV
2248	191183	ON30 E	35V 50 0	SIG 59	550S	37 193W S	PROTO4MV
2250	191183	ON20 B	20V 20 0	SIG 59	550S	37 194W S	PROTO4MV
2254	191183	ON20 E	20V 20 0	SIG 59	550S	37 194W S	PROTO4MV
216	201183	ON30 B	35V 50 0	SIG 59	563S	37 230W S	PROTO4MV
224	201183	ON30 E	35V 50 0	SIG 59	563S	37 233W S	PROTO4MV
1737	201183	ON30 B	35V 50 0	SIG 60	195S	37 54W S	PROTO4MV
1747	201183	ON30 E	35V 50 0	SIG 60	195S	37 55W S	PROTO4MV
2107	201183	ON30 B	35V 50 0	SIG 60	201S	36 596W S	PROTO4MV
2115	201183	ON30 E	35V 50 0	SIG 60	200S	36 594W S	PROTO4MV
2118	201183	ON20 B	20V 20 0	SIG 60	200S	36 593W S	PROTO4MV
2121	201183	ON20 E	20V 20 0	SIG 60	199S	36 593W S	PROTO4MV
1227	211183	ON50 B	35V 50 0	SIG 59	515S	38 5W S	PROTO4MV
1235	211183	ON50 E	35V 50 0	SIG 59	516S	38 6W S	PROTO4MV
1550	211183	ON50 B	35V 50 0	SIG 59	525S	38 14W S	PROTO4MV
1600	211183	ON50 E	35V 50 0	SIG 59	526S	38 14W S	PROTO4MV
1601	211183	ON20 B	20V 20 0	SIG 59	526S	38 15W S	PROTO4MV
1605	211183	ON20 E	20V 20 0	SIG 59	526S	38 15W S	PROTO4MV
1920	211183	ON50 B	35V 50 0	SIG 59	531S	38 29W S	PROTO4MV
1930	211183	ON50 E	35V 50 0	SIG 59	531S	38 29W S	PROTO4MV

GMT TIME	DDMMYY DATE	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1920	211183	ON50 B	35V 50	0	SIG 59 531S	38 29W S	PROTO4MV
1930	211183	ON50 E	35V 50	0	SIG 59 531S	38 29W S	PROTO4MV
2027	211183	ON50 B	35V 50	0	SIG 59 529S	38 31W S	PROTO4MV
2035	211183	ON50 E	35V 50	0	SIG 59 528S	38 30W S	PROTO4MV
2316	211183	ON50 B	35V 50	0	SIG 59 528S	38 33W S	PROTO4MV
2325	211183	ON50 E	35V 50	0	SIG 59 528S	38 32W S	PROTO4MV
131	221183	ON50 B	35V 50	0	SIG 59 528S	38 41W S	PROTO4MV
140	221183	ON50 E	35V 50	0	SIG 59 529S	38 42W S	PROTO4MV
253	221183	ON50 B	35V 50	0	SIG 59 530S	38 45W S	PROTO4MV
305	221183	ON50 E	35V 50	0	SIG 59 530S	38 51W S	PROTO4MV
526	221183	ON50 B	35V 50	0	SIG 59 519S	38 8W S	PROTO4MV
540	221183	ON50 E	35V 50	0	SIG 59 518S	38 9W S	PROTO4MV
659	221183	ON50 B	35V 50	0	SIG 59 516S	38 2W S	PROTO4MV
710	221183	ON50 E	35V 50	0	SIG 59 515S	38 0W S	PROTO4MV
831	221183	ON50 B	35V 50	0	SIG 59 509S	37 588W S	PROTO4MV
840	221183	ON50 E	35V 50	0	SIG 59 509S	37 588W S	PROTO4MV
954	221183	ON50 B	35V 50	0	SIG 59 509S	37 595W S	PROTO4MV
1000	221183	ON50 E	35V 50	0	SIG 59 509S	37 595W S	PROTO4MV
1053	221183	ON50 B	35V 50	0	SIG 59 510S	37 597W S	PROTO4MV
1102	221183	ON50 E	35V 50	0	SIG 59 510S	37 597W S	PROTO4MV
2311	221183	ON50 B	35V 50	0	SIG 59 431S	38 74W S	PROTO4MV
2319	221183	ON50 E	35V 50	0	SIG 59 432S	38 73W S	PROTO4MV
742	231183	ON50 B	35V 50	0	SIG 60 17S	38 213W S	PROTO4MV
754	231183	ON50 E	35V 50	0	SIG 60 17S	38 214W S	PROTO4MV
1025	231183	ON50 B	35V 50	0	SIG 60 15S	38 216W S	PROTO4MV
1035	231183	ON50 E	35V 50	0	SIG 60 14S	38 216W S	PROTO4MV
1645	231183	ON50 B	35V 50	0	SIG 60 202S	38 282W S	PROTO4MV
1655	231183	ON50 E	35V 50	0	SIG 60 206S	38 285W S	PROTO4MV
2004	231183	ON50 B	35V 50	0	SIG 60 216S	38 280W S	PROTO4MV
2014	231183	ON50 E	35V 50	0	SIG 60 217S	38 280W S	PROTO4MV
2333	231183	ON50 B	35V 50	0	SIG 60 218S	38 300W S	PROTO4MV
2343	231183	ON50 E	35V 50	0	SIG 60 218S	38 303W S	PROTO4MV
918	241183	ON50 B	35V 50	0	SIG 60 152S	38 448W S	PROTO4MV
928	241183	ON50 E	35V 50	0	SIG 60 150S	38 445W S	PROTO4MV
1938	241183	ON50 B	35V 50	0	SIG 60 413S	38 364W S	PROTO4MV
1948	241183	ON50 E	35V 50	0	SIG 60 412S	38 375W S	PROTO4MV
815	251183	ON50 B	35V 50	0	SIG 60 21S	38 527W S	PROTO4MV
825	251183	ON50 E	35V 50	0	SIG 60 20S	38 523W S	PROTO4MV
1614	251183	ON30 B	35V 50	0	SIG 59 414S	39 14W S	PROTO4MV
1624	251183	ON30 E	35V 50	0	SIG 59 413S	39 17W S	PROTO4MV
341	261183	ON30 B	35V 50	0	SIG 59 558S	39 290W S	PROTO4MV
352	261183	ON30 E	35V 50	0	SIG 59 558S	39 289W S	PROTO4MV
1909	261183	ON30 B	35V 50	0	SIG 60 76S	39 564W S	PROTO4MV
1919	261183	ON30 E	35V 50	0	SIG 60 75S	39 566W S	PROTO4MV
1133	271183	ON30 B	35V 50	0	SIG 60 283S	40 321W S	PROTO4MV
1143	271183	ON30 E	35V 50	0	SIG 60 283S	40 321W S	PROTO4MV

GMT TIME	DDMMYY DATE	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1700	271183	ON30 B	35V 50 0	SIG 60	270S	39 542W S	PROTO4MV
1710	271183	ON30 E	35V 50 0	SIG 60	271S	39 537W S	PROTO4MV
123	281183	ON30 B	35V 50 0	SIG 60	394S	39 450W S	PROTO4MV
133	281183	ON30 E	35V 50 0	SIG 60	395S	39 447W S	PROTO4MV
303	281183	ON30 B	35V 50 0	SIG 60	384S	39 422W S	PROTO4MV
313	281183	ON30 E	35V 50 0	SIG 60	383S	39 420W S	PROTO4MV
459	281183	ON30 B	35V 50 0	SIG 60	362S	39 399W S	PROTO4MV
519	281183	ON30 E	35V 50 0	SIG 60	362S	39 402W S	PROTO4MV
654	281183	ON30 B	35V 50 0	SIG 60	349S	39 362W S	PROTO4MV
704	281183	ON30 E	35V 50 0	SIG 60	347S	39 359W S	PROTO4MV
905	281183	ON30 B	35V 50 0	SIG 60	330S	39 338W S	PROTO4MV
915	281183	ON30 E	35V 50 0	SIG 60	329S	39 336W S	PROTO4MV
1034	281183	ON30 B	35V 50 0	SIG 60	317S	39 327W S	PROTO4MV
1044	281183	ON30 E	35V 50 0	SIG 60	314S	39 326W S	PROTO4MV
1446	281183	ON30 B	35V 50 0	SIG 60	267S	39 297W S	PROTO4MV
1506	281183	ON30 E	35V 50 0	SIG 60	267S	39 297W S	PROTO4MV
1711	281183	ON30 B	35V 50 0	SIG 60	251S	39 274W S	PROTO4MV
1721	281183	ON30 E	35V 50 0	SIG 60	251S	39 272W S	PROTO4MV
1902	281183	ON30 B	35V 50 0	SIG 60	256S	39 277W S	PROTO4MV
1912	281183	ON30 E	35V 50 0	SIG 60	257S	39 277W S	PROTO4MV
2105	281183	ON30 B	35V 50 0	SIG 60	262S	39 270W S	PROTO4MV
2115	281183	ON30 E	35V 50 0	SIG 60	263S	39 270W S	PROTO4MV
2243	281183	ON30 B	35V 50 0	SIG 60	242S	39 284W S	PROTO4MV
2253	281183	ON30 E	35V 50 0	SIG 60	241S	39 286W S	PROTO4MV
22	291183	ON30 B	35V 50 0	SIG 60	241S	39 285W S	PROTO4MV
32	291183	ON30 E	35V 50 0	SIG 60	241S	39 284W S	PROTO4MV

*** MIDWATER TRAWL ***

834	111183	TMXX B	150 100	SIG 60	335S	37 73W S	PROTO4MV
954	111183	TMXX E	150 100	SIG 60	329S	37 103W S	PROTO4MV
1553	111183	TMXX B	600 0	SIG 60	401S	37 29W S	PROTO4MV
1829	111183	TMXX E	600 0	SIG 60	342S	37 94W S	PROTO4MV
2049	141183	TMXX B	800 0	SIG 60	266S	40 318W S	PROTO4MV
100	151183	TMXX E	800 0	SIG 60	148S	40 200W S	PROTO4MV
1632	151183	TMXX B	300 200	SIG 59	549S	39 581W S	PROTO4MV
1858	151183	TMXX E	300 200	SIG 59	500S	39 497W S	PROTO4MV
546	161183	TMXX B	400 200	SIG 59	291S	39 401W S	PROTO4MV
710	161183	TMXX E	400 200	SIG 59	265S	39 351W S	PROTO4MV
1452	161183	TMXX B	750 600	SIG 58	599S	39 174W S	PROTO4MV
1753	161183	TMXX E	750 600	SIG 58	558S	39 90W S	PROTO4MV
429	171183	TMXX B	200 100	SIG 58	364S	38 514W S	PROTO4MV
648	171183	TMXX E	200 100	SIG 58	326S	38 435W S	PROTO4MV
1250	171183	TMXX B	1000 0	SIG 58	121S	38 163W S	PROTO4MV
1828	171183	TMXX E	1000 0	SIG 58	93S	37 472W S	PROTO4MV
1037	181183	TMXX B	400 300	SIG 58	268S	37 384W S	PROTO4MV
1423	181183	TMXX E	400 300	SIG 58	393S	37 333W S	PROTO4MV
136	191183	TMXX B	400 300	SIG 58	527S	37 353W S	PROTO4MV

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453	191183	TMXX E	400 300	SIG 59	1S	37 332W S	PROTO4MV
1409	191183	TMXX B	500 400	SIG 59	216S	37 205W S	PROTO4MV
1757	191183	TMXX E	500 400	SIG 59	321S	37 181W S	PROTO4MV
346	201183	TMXX B	100 0	SIG 59	569S	37 243W S	PROTO4MV
420	201183	TMXX E	100 0	SIG 59	583S	37 240W S	PROTO4MV
2246	201183	TMXX B	7100 0	SIG 60	171S	36 595W S	PROTO4MV
619	211183	TMXX E	7100 0	SIG 60	84S	37 153W S	PROTO4MV
1228	221183	TMXX B	900 450	SIG 59	507S	38 0W S	PROTO4MV
1601	221183	TMXX E	900 450	SIG 59	420S	38 69W S	PROTO4MV
8	231183	TMXX B	1000 600	SIG 59	439S	38 70W S	PROTO4MV
416	231183	TMXX E	1000 600	SIG 59	530S	38 122W S	PROTO4MV
1146	231183	TMXX B	100 0	SIG 60	16S	38 204W S	PROTO4MV
1238	231183	TMXX E	100 0	SIG 60	30S	38 205W S	PROTO4MV
41	241183	TMXX B	600 0	SIG 60	215S	38 308W S	PROTO4MV
414	241183	TMXX E	600 0	SIG 60	117S	38 263W S	PROTO4MV
1333	241183	TMXX B	170 100	SIG 60	158S	38 484W S	PROTO4MV
1510	241183	TMXX E	170 100	SIG 60	188S	38 441W S	PROTO4MV
147	251183	TMXX B	200 100	SIG 60	405S	38 367W S	PROTO4MV
335	251183	TMXX E	200 100	SIG 60	355S	38 370W S	PROTO4MV
1105	251183	TMXX B	300 200	SIG 60	16S	38 502W S	PROTO4MV
1300	251183	TMXX E	300 200	SIG 59	568S	38 555W S	PROTO4MV
2206	251183	TMXX B	400 300	SIG 59	401S	39 42W S	PROTO4MV
120	261183	TMXX E	400 300	SIG 59	464S	39 136W S	PROTO4MV
1421	261183	TMXX B	550 400	SIG 59	565S	39 190W S	PROTO4MV
1729	261183	TMXX E	550 400	SIG 59	598S	39 325W S	PROTO4MV
2236	261183	TMXX B	400 0	SIG 60	85S	39 571W S	PROTO4MV
40	271183	TMXX E	400 0	SIG 60	131S	40 71W S	PROTO4MV
1219	271183	TMXX B	350 200	SIG 60	283S	40 319W S	PROTO4MV
1530	271183	TMXX E	350 200	SIG 60	251S	40 104W S	PROTO4MV
2028	271183	TMXX B	550 300	SIG 60	284S	39 491W S	PROTO4MV
2355	271183	TMXX E	550 300	SIG 60	360S	39 447W S	PROTO4MV
242	291183	TMXX B	350 200	SIG 60	246S	39 297W S	PROTO4MV
515	291183	TMXX E	350 200	SIG 60	231S	39 402W S	PROTO4MV
1239	291183	TMXX B	1000 0	SIG 60	99S	40 164W S	PROTO4MV
1719	291183	TMXX E	1000 0	SIG 60	22S	40 67W S	PROTO4MV
1243	301183	TMXX B	1000 500	SIG 59	308S	39 442W S	PROTO4MV
1616	301183	TMXX E	1000 500	SIG 59	261S	39 370W S	PROTO4MV
254	11283	TMXX B	600 400	SIG 59	25S	38 551W S	PROTO4MV
704	11283	TMXX E	600 400	SIG 58	540S	38 549W S	PROTO4MV
549	21283	TMXX B	300 200	SIG 58	49S	38 198W S	PROTO4MV
700	21283	TMXX E	300 200	SIG 58	2S	38 173W S	PROTO4MV

GMT TIME	DDMMYY DATE	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
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PUMP

1621	101183	PHXX B	FLUORESCENCE PUMP80M	SIG 60	330S	37 64W S	PROTO4MV
1701	101183	PHXX E	FLUORESCENCE PUMP80M	SIG 60	333S	37 73W S	PROTO4MV
1256	151183	PHXX B	FLUORESCENCE PUMP80M	SIG 59	527S	39 580W S	PROTO4MV
1320	151183	PHXX E	FLUORESCENCE PUMP80M	SIG 59	533S	39 592W S	PROTO4MV
2120	161183	PHXX B	FLUORESCENCE PUMP80M	SIG 58	383S	38 510W S	PROTO4MV
2200	161183	PHXX E	FLUORESCENCE PUMP80M	SIG 58	385S	38 506W S	PROTO4MV
2310	171183	PHXX B	FLUORESCENCE PUMP80M	SIG 58	66S	37 478W S	PROTO4MV
2350	171183	PHXX E	FLUORESCENCE PUMP80M	SIG 58	62S	37 482W S	PROTO4MV
430	181183	PHXX B	FLUORESCENCE PUMP80M	SIG 58	245S	37 437W S	PROTO4MV
510	181183	PHXX E	FLUORESCENCE PUMP80M	SIG 58	257S	37 434W S	PROTO4MV
1730	181183	PHXX B	FLUORESCENCE PUMP80M	SIG 58	543S	37 375W S	PROTO4MV
1818	181183	PHXX E	FLUORESCENCE PUMP80M	SIG 58	543S	37 370W S	PROTO4MV
1240	191183	PHXX B	FLUORESCENCE PUMP80M	SIG 59	224S	37 226W S	PROTO4MV
1320	191183	PHXX E	FLUORESCENCE PUMP80M	SIG 59	220S	37 216W S	PROTO4MV
1800	201183	PHXX B	FLUORESCENCE PUMP80M	SIG 60	196S	37 55W S	PROTO4MV
1840	201183	PHXX E	FLUORESCENCE PUMP80M	SIG 60	197S	37 56W S	PROTO4MV
1450	211183	PHXX B	FLUORESCENCE PUMP80M	SIG 59	520S	38 13W S	PROTO4MV
1530	211183	PHXX E	FLUORESCENCE PUMP80M	SIG 59	524S	38 13W S	PROTO4MV
550	221183	PHXX B	FLUORESCENCE PUMP80M	SIG 59	517S	38 9W S	PROTO4MV
630	221183	PHXX E	FLUORESCENCE PUMP80M	SIG 59	516S	38 5W S	PROTO4MV
1045	231183	PHXX B	FLUORESCENCE PUMP80M	SIG 60	14S	38 214W S	PROTO4MV
1125	231183	PHXX E	FLUORESCENCE PUMP80M	SIG 60	15S	38 207W S	PROTO4MV
1917	231183	PHXX B	FLUORESCENCE PUMP80M	SIG 60	214S	38 281W S	PROTO4MV
2023	231183	PHXX E	FLUORESCENCE PUMP80M	SIG 60	217S	38 280W S	PROTO4MV
1212	241183	PHXX B	FLUORESCENCE PUMP80M	SIG 60	143S	38 475W S	PROTO4MV
1250	241183	PHXX E	FLUORESCENCE PUMP80M	SIG 60	143S	38 485W S	PROTO4MV

CONDUCTIVITY, TEMPERATURE, DEPTH

2232	101183	TDCT	STA01	500M R01	NOA 60	342S	37 55W S	PROTO4MV
459	111183	TDCT	STA02	500M R00	NOA 60	339S	37 46W S	PROTO4MV
1215	111183	TDCT	STA03	500M R00	NOA 60	420S	37 69W S	PROTO4MV
1634	141183	TDCT	STA04	500M R00	NOA 60	295S	40 334W S	PROTO4MV
613	151183	TDCT	STA05	500M R01	NOA 60	89S	40 119W S	PROTO4MV
1331	151183	TDCT	STA06	500M R01	NOA 59	535S	39 598W S	PROTO4MV
2227	151183	TDCT	STA07	500M R11	NOA 59	323S	39 442W S	PROTO4MV
1133	161183	TDCT	STA08	500M R11	NOA 59	21S	39 162W S	PROTO4MV
2011	161183	TDCT	STA09	500M R10	NOA 58	389S	38 524W S	PROTO4MV
955	171183	TDCT	STA10	500M R12	NOA 58	116S	38 233W S	PROTO4MV

GMT TIME	DDMMYY DATE	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT. CODE	LONG.	CRUISE LEG-SHIP
130	181183	TDCT	STA11	500M R12	NOA 58 49S	37 482W S	PROTO4MV
639	181183	TDCT	STA12	500M R11	NOA 58 267S	37 407W S	PROTO4MV
1833	181183	TDCT	STA13	500M R11	NOA 58 543S	37 369W S	PROTO4MV
925	191183	TDCT	STA14	500M R12	NOA 59 248S	37 261W S	PROTO4MV
2048	191183	TDCT	STA15	500M R12	NOA 59 543S	37 185W S	PROTO4MV
1036	201183	TDCT	STA16	500M R12	NOA 60 267S	36 272W S	PROTO4MV
1914	201183	TDCT	STA17	500M R12	NOA 60 197S	37 42W S	PROTO4MV
1254	211183	TDCT	STA18	500M R12	NOA 59 516S	38 8W S	PROTO4MV
1937	211183	TDCT	STA19	500M R12	NOA 59 531S	38 29W S	PROTO4MV
316	221183	TDCT	STA20	500M R12	NOA 59 530S	38 53W S	PROTO4MV
902	221183	TDCT	STA21	500M R12	NOA 59 510S	37 595W S	PROTO4MV
1731	221183	TDCT	STA22	500M R12	NOA 59 411S	38 130W S	PROTO4MV
800	231183	TDCT	STA23	500M R12	NOA 60 18S	38 214W S	PROTO4MV
1717	231183	TDCT	STA24	500M R12	NOA 60 209S	38 280W S	PROTO4MV
934	241183	TDCT	STA25	500M R12	NOA 60 149S	38 443W S	PROTO4MV
1956	241183	TDCT	STA26	500M R12	NOA 60 413S	38 375W S	PROTO4MV
831	251183	TDCT	STA27	500M R12	NOA 60 20S	38 520W S	PROTO4MV
1633	251183	TDCT	STA28	500M R12	NOA 59 413S	39 18W S	PROTO4MV
403	261183	TDCT	STA29	500M R12	NOA 59 559S	39 287W S	PROTO4MV
1929	261183	TDCT	STA30	500M R12	NOA 60 75S	39 562W S	PROTO4MV
629	271183	TDCT	STA31	500M R12	NOA 60 288S	40 324W S	PROTO4MV
1720	271183	TDCT	STA32	500M R12	NOA 60 271S	39 533W S	PROTO4MV
814	281183	TDCT	STA33	500M R12	NOA 60 336S	39 343W S	PROTO4MV
1517	281183	TDCT	STA34	500M R12	NOA 60 267S	39 296W S	PROTO4MV
2129	281183	TDCT	STA35	500M R12	NOA 60 264S	39 268W S	PROTO4MV
814	291183	TDCT	STA36	500M R12	NOA 60 101S	40 163W S	PROTO4MV
1841	291183	TDCT	STA37	500M R12	NOA 59 513S	39 579W S	PROTO4MV
607	301183	TDCT	STA38	1000M R12	NOA 59 317S	39 418W S	PROTO4MV
1924	301183	TDCT	STA39	1000M R12	NOA 59 35S	39 110W S	PROTO4MV
925	11283	TDCT	STA40	1000M R12	NOA 58 403S	38 557W S	PROTO4MV
230	21283	TDCT	STA41	1000M R12	NOA 58 108S	38 231W S	PROTO4MV
949	21283	TDCT	STA42	1000M R12	NOA 57 459S	38 25W S	PROTO4MV
2006	21283	TDCT	STA43	1000M R12	NOA 57 175S	37 417W S	PROTO4MV

GMT TIME	DDMMYY DATE	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT. LAT.	LONG. LONG.	CRUISE LEG-SHIP
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HYDROGRAPHIC CAST

842	181183	HCNI	N C QGH15	150M	OSU 58 266S	37 397W S	PROTO4MV
2021	181183	HCNI	N C QGH15	150M	OSU 58 540S	37 367W S	PROTO4MV
1134	191183	HCNI	N C QGH15	150M	OSU 59 232S	37 235W S	PROTO4MV
2217	191183	HCNI	N C QGH15	150M	OSU 59 548S	37 189W S	PROTO4MV
2044	201183	HCNI	N C QGH15	150M	OSU 60 202S	36 598W S	PROTO4MV
1414	211183	HCNI	N C QGH15	150M	OSU 59 518S	38 13W S	PROTO4MV
2214	211283	HCNI	N C QGH15	150M	OSU 59 528S	38 30W S	PROTO4MV
1050	221183	HCNI	N C QGH15	150M	OSU 59 509S	37 597W S	PROTO4MV
1908	221183	HCNI	N C QGH15	150M	OSU 59 414S	38 112W S	PROTO4MV
910	231183	HCNI	N C QGH15	150M	OSU 60 19S	38 216W S	PROTO4MV
1832	231183	HCNI	N C QGH15	150M	OSU 60 212S	38 274W S	PROTO4MV
1043	241183	HCNI	N C QGH15	150M	OSU 60 145S	38 453W S	PROTO4MV
2145	241183	HCNI	N C QGH15	150M	OSU 60 418S	38 365W S	PROTO4MV
947	251183	HCNI	N C QGH15	150M	OSU 60 18S	38 495W S	PROTO4MV
1747	251183	HCNI	N C QGH15	150M	OSU 59 412S	39 25W S	PROTO4MV
517	261183	HCNI	N C QG	150M	OSU 59 561S	39 278W S	PROTO4MV
1321	261183	HCNI	N C QGH15	150M	OSU 59 562S	39 189W S	PROTO4MV
2035	261183	HCNI	N C QGH15	150M	OSU 60 71S	39 564W S	PROTO4MV
745	271183	HCNI	N C QGH15	150M	OSU 60 286S	40 324W S	PROTO4MV
1835	271183	HCNI	N C QGH15	150M	OSU 60 273S	39 509W S	PROTO4MV
1018	281183	HCNI	N C QGH15	150M	OSU 60 321S	39 328W S	PROTO4MV
930	291183	HCNI	N C QGH15	150M	OSU 60 98S	40 161W S	PROTO4MV
1954	291183	HCNI	N C QGH15	150M	OSU 59 505S	39 577W S	PROTO4MV
750	301183	HCNI	N C QGH15	150M	OSU 59 311S	39 425W S	PROTO4MV
2057	301183	HCNI	N C QG	150M	OSU 59 37S	39 77W S	PROTO4MV
1110	11283	HCNI	N C QGH15	150M	OSU 58 401S	38 547W S	PROTO4MV
409	21283	HCNI	N C QG	150M	OSU 58 94S	38 223W S	PROTO4MV
1129	21283	HCNI	N C QG	150M	OSU 57 446S	38 010W S	PROTO4MV
2144	21283	HCNI	N C QG	150M	OSU 57 161S	37 420W S	PROTO4MV

GMT TIME	DDMMYY DATE	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT. CODE	LONG.	CRUISE LEG-SHIP
CAMERA							
109	111183	CAWS B	35MM SK 01	200M	LDO 60	340S 37 40W S	PROTO4MV
426	111183	CAWS E	35MM SK 01	200M	LDO 60	338S 37 44W S	PROTO4MV
301	151183	CAWS B	35MM SK 02	250M	LDO 60	94S 40 119W S	PROTO4MV
605	151183	CAWS E	35MM SK 02	250M	LDO 60	90S 40 120W S	PROTO4MV
55	161183	CAWS B	35MM SK 03	300M	LDO 59	324S 39 456W S	PROTO4MV
415	161183	CAWS E	35MM SK 03	300M	LDO 59	328S 39 467W S	PROTO4MV
2349	161183	CAWS B	35MM SK 04	250M	LDO 58	382S 38 501W S	PROTO4MV
307	171183	CAWS E	35MM SK 04	250M	LDO 58	366S 38 513W S	PROTO4MV
1915	171183	CAWS B	35MM SK 05	100M	LDO 58	89S 37 465W S	PROTO4MV
2229	171183	CAWS E	35MM SK 05	100M	LDO 58	72S 37 475W S	PROTO4MV
2101	181183	CAWS B	35MM SK 06	200M	LDO 58	537S 37 365W S	PROTO4MV
11	191183	CAWS E	35MM SK 06	200M	LDO 58	529S 37 359W S	PROTO4MV
2310	191183	CAWS B	35MM SK 07	250M	LDO 59	550S 37 195W S	PROTO4MV
210	201183	CAWS E	35MM SK 07	250M	LDO 59	562S 37 228W S	PROTO4MV
1613	211183	CAWS B	35MM SK 08	300M	LDO 59	527S 38 15W S	PROTO4MV
1916	211183	CAWS E	35MM SK 08	300M	LDO 59	531S 38 28W S	PROTO4MV
1946	221183	CAWS B	35MM SK 09	300M	LDO 59	416S 38 102W S	PROTO4MV
2306	221183	CAWS E	35MM SK 09	300M	LDO 59	431S 38 74W S	PROTO4MV
2021	231183	CAWS B	35MM SK 10	200M	LDO 60	217S 38 280W S	PROTO4MV
2326	231183	CAWS E	35MM SK 10	200M	LDO 60	218S 38 297W S	PROTO4MV
1734	241183	CAWS B	35MM SK 11	115M	LDO 60	265S 38 406W S	PROTO4MV
1806	241183	CAWS E	35MM SK 11	115M	LDO 60	275S 38 397W S	PROTO4MV
2208	241183	CAWS B	35MM SK 12	100M	LDO 60	420S 38 363W S	PROTO4MV
2328	241183	CAWS E	35MM SK 12	100M	LDO 60	422S 38 357W S	PROTO4MV
1828	251183	CAWS B	35MM SK 13	300M	LDO 59	411S 39 30W S	PROTO4MV
2136	251183	CAWS E	35MM SK 13	300M	LDO 59	397S 39 37W S	PROTO4MV
556	261183	CAWS B	35MM SK 14	500M	LDO 59	560S 39 279W S	PROTO4MV
1210	261183	CAWS E	35MM SK 14	500M	LDO 59	566S 39 261W S	PROTO4MV
817	271183	CAWS B	35MM SK 15	250M	LDO 60	286S 40 324W S	PROTO4MV
1128	271183	CAWS E	35MM SK 15	250M	LDO 60	283S 40 321W S	PROTO4MV
1129	281183	CAWS B	35MM SK 16	300M	LDO 60	296S 39 324W S	PROTO4MV
1440	281183	CAWS E	35MM SK 16	300M	LDO 60	268S 39 297W S	PROTO4MV
2304	281183	CAWS B	35MM SK 17	35M	LDO 60	240S 39 286W S	PROTO4MV
16	291183	CAWS E	35MM SK 17	35M	LDO 60	241S 39 285W S	PROTO4MV
953	291183	CAWS B	35MM SK 18	270M	LDO 60	97S 40 160W S	PROTO4MV
1158	291183	CAWS E	35MM SK 18	270M	LDO 60	99S 40 171W S	PROTO4MV
2037	291183	CAWS B	35MM SK 19	250M	LDO 59	503S 39 577W S	PROTO4MV
2350	291183	CAWS E	35MM SK 19	250M	LDO 59	491S 39 593W S	PROTO4MV
835	301183	CAWS B	35MM SK 20	400M	LDO 59	310S 39 429W S	PROTO4MV
1148	301183	CAWS E	35MM SK 20	400M	LDO 59	310S 39 442W S	PROTO4MV
2127	301183	CAWS B	35MM SK 21	80M	LDO 59	37S 39 72W S	PROTO4MV
32	11283	CAWS E	35MM SK 21	80M	LDO 59	35S 39 0W S	PROTO4MV

GMT TIME	DDMMYY DATE	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT. CODE	LONG.	CRUISE LEG-SHIP
1134	11283	CAWS B	35MM SK 22	250M	LDO 58	400S	38 546W S PROTO4MV
1445	11283	CAWS E	35MM SK 22	250M	LDO 58	399S	38 547W S PROTO4MV
48	21283	CAWS B	35MM SK 23	60M	LDO 58	126S	38 273W S PROTO4MV
217	21283	CAWS E	35MM SK 23	60M	LDO 58	110S	38 233W S PROTO4MV
1157	21283	CAWS B	35MM SK 24	150M	LDO 57	443S	38 2W S PROTO4MV
1328	21283	CAWS E	35MM SK 24	150M	LDO 57	437S	37 578W S PROTO4MV
2206	21283	CAWS B	35MM SK 25	300M	LDO 57	157S	37 419W S PROTO4MV
113	31283	CAWS E	35MM SK 25	300M	LDO 57	141S	37 401W S PROTO4MV

CLOSING NET - BONGO

2110	101183	CNBG B	0 MSN60	0	MIC 60	346S	37 56W S PROTO4MV
2125	101183	CNBG E	0 MSN60	0	MIC 60	343S	37 61W S PROTO4MV
1314	141183	CNBG B	0 MS200	0	MIC 60	302S	40 442W S PROTO4MV
1450	141183	CNBG E	0 MS200	0	MIC 60	298S	40 472W S PROTO4MV

OPEN NET - BONGO

215	141183	ONBG B	0 MS200	0	MIC 58	580S	40 89W S PROTO4MV
237	141183	ONBG E	0 MS200	0	MIC 58	545S	40 101W S PROTO4MV
1137	151183	ONBG B	0 MS200	0	MIC 59	507S	39 528W S PROTO4MV
1200	151183	ONBG E	0 MS200	0	MIC 59	510S	39 537W S PROTO4MV
2130	151183	ONBG B	0 MS200	0	MIC 59	313S	39 430W S PROTO4MV
2215	151183	ONBG E	0 MS200	0	MIC 59	321S	39 440W S PROTO4MV
1023	161183	ONBG B	0 MS200	0	MIC 59	28S	39 160W S PROTO4MV
1050	161183	ONBG E	0 MS200	0	MIC 59	25S	39 163W S PROTO4MV
320	171183	ONBG B	0 MS200	0	MIC 58	366S	38 514W S PROTO4MV
350	171183	ONBG E	0 MS200	0	MIC 58	368S	38 531W S PROTO4MV
911	171183	ONBG B	0 MS200	0	MIC 58	116S	38 233W S PROTO4MV
945	171183	ONBG E	0 MS200	0	MIC 58	116S	38 235W S PROTO4MV
1725	171183	ONBG B	0 MS 1	0	MIC 58	107S	37 510W S PROTO4MV
1740	171183	ONBG E	0 MS 1	0	MIC 58	104S	37 500W S PROTO4MV
1847	171183	ONBG B	0 MS 50	0	MIC 58	90S	37 468W S PROTO4MV
1900	171183	ONBG E	0 MS 50	0	MIC 58	89S	37 466W S PROTO4MV
444	181183	ONBG B	0 MS200	0	MIC 58	250S	37 438W S PROTO4MV
515	181183	ONBG E	0 MS200	0	MIC 58	258S	37 433W S PROTO4MV
1617	181183	ONBG B	0 MS200	0	MIC 58	551S	37 375W S PROTO4MV
1642	181183	ONBG E	0 MS200	0	MIC 58	554S	37 379W S PROTO4MV
155	191183	ONBG B	0 MS 1	0	MIC 58	534S	37 351W S PROTO4MV
230	191183	ONBG E	0 MS 1	0	MIC 58	548S	37 349W S PROTO4MV
834	191183	ONBG B	0 MS200	0	MIC 59	247S	37 276W S PROTO4MV
904	191183	ONBG E	0 MS200	0	MIC 59	250S	37 265W S PROTO4MV
231	201183	ONBG B	0 MS200	0	MIC 59	564S	37 235W S PROTO4MV
304	201183	ONBG E	0 MS200	0	MIC 59	556S	37 247W S PROTO4MV

GMT TIME	DDMMYY DATE	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT. LAT.	LONG. LONG.	CRUISE LEG-SHIP
359	201183	ONBG B	0 MS 1	0	MIC 59 574S	37 242W S	PROTO4MV
420	201183	ONBG E	0 MS 1	0	MIC 59 583S	37 240W S	PROTO4MV
2137	201183	ONBG B	0 MS200	0	MIC 60 196S	36 590W S	PROTO4MV
2206	201183	ONBG E	0 MS200	0	MIC 60 187S	36 598W S	PROTO4MV
1157	211183	ONBG B	0 MS200	0	MIC 59 513S	38 1W S	PROTO4MV
1223	211183	ONBG E	0 MS200	0	MIC 59 515S	38 4W S	PROTO4MV
420	221183	ONBG B	0 MS200	0	MIC 59 536S	38 41W S	PROTO4MV
450	221183	ONBG E	0 MS200	0	MIC 59 541S	38 38W S	PROTO4MV
1646	221183	ONBG B	0 MS200	0	MIC 59 403S	38 119W S	PROTO4MV
1718	221183	ONBG E	0 MS200	0	MIC 59 408S	38 127W S	PROTO4MV
637	231183	ONBG B	0 MS200	0	MIC 60 11S	38 210W S	PROTO4MV
714	231183	ONBG E	0 MS200	0	MIC 60 20S	38 208W S	PROTO4MV
1547	231183	ONBG B	0 MS200	0	MIC 60 178S	38 268W S	PROTO4MV
1620	231183	ONBG E	0 MS200	0	MIC 60 188S	38 274W S	PROTO4MV
813	241183	ONBG B	0 MS200	0	MIC 60 167S	38 464W S	PROTO4MV
850	241183	ONBG E	0 MS200	0	MIC 60 158S	38 466W S	PROTO4MV
1630	241183	ONBG B	0 MS200	0	MIC 60 270S	38 403W S	PROTO4MV
1718	241183	ONBG E	0 MS200	0	MIC 60 262S	38 409W S	PROTO4MV
2337	241183	ONBG B	0 MS 30	0	MIC 60 422S	38 356W S	PROTO4MV
7	251183	ONBG E	0 MS 30	0	MIC 60 418S	38 358W S	PROTO4MV
15	251183	ONBG B	0 MS200	0	MIC 60 417S	38 359W S	PROTO4MV
50	251183	ONBG E	0 MS200	0	MIC 60 410S	38 363W S	PROTO4MV
657	251183	ONBG B	0 MS200	0	MIC 60 18S	38 556W S	PROTO4MV
732	251183	ONBG E	0 MS200	0	MIC 60 8S	38 567W S	PROTO4MV
1457	251183	ONBG B	0 MS200	0	MIC 59 394S	39 29W S	PROTO4MV
1537	251183	ONBG E	0 MS200	0	MIC 59 393S	39 29W S	PROTO4MV
2230	251183	ONBG B	0 MS 1	0	MIC 59 408S	39 54W S	PROTO4MV
2300	251183	ONBG E	0 MS 1	0	MIC 59 417S	39 72W S	PROTO4MV
252	261183	ONBG B	0 MS200	0	MIC 59 566S	39 292W S	PROTO4MV
335	261183	ONBG E	0 MS200	0	MIC 59 559S	39 290W S	PROTO4MV
2117	261183	ONBG B	0 MS200	0	MIC 60 75S	39 560W S	PROTO4MV
2151	261183	ONBG E	0 MS200	0	MIC 60 79S	39 564W S	PROTO4MV
402	271183	ONBG B	0 MS200	0	MIC 60 297S	40 340W S	PROTO4MV
437	271183	ONBG E	0 MS200	0	MIC 60 296S	40 340W S	PROTO4MV
1924	271183	ONBG B	0 MS200	0	MIC 60 276S	39 502W S	PROTO4MV
2000	271183	ONBG E	0 MS200	0	MIC 60 281S	39 496W S	PROTO4MV
36	281183	ONBG B	0 MS200	0	MIC 60 385S	39 458W S	PROTO4MV
106	281183	ONBG E	0 MS200	0	MIC 60 392S	39 453W S	PROTO4MV

GMT TIME	DDMMYY DATE	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1617	281183	ONBG B	0 MS200	0	MIC 60 263S	39 292S W	PROTO4MV
1700	281183	ONBG E	0 MS200	0	MIC 60 250S	39 275W S	PROTO4MV
720	291183	ONBG B	0 MS200	0	MIC 60 107S	40 145W S	PROTO4MV
801	291183	ONBG E	0 MS200	0	MIC 60 101S	40 158W S	PROTO4MV
6	301183	ONBG B	0 MS200	0	MIC 59 488S	39 597W S	PROTO4MV
38	301183	ONBG E	0 MS200	0	MIC 59 482S	40 9W S	PROTO4MV
417	301183	ONBG B	0 MS200	0	MIC 59 322S	39 402W S	PROTO4MV
457	301183	ONBG E	0 MS200	0	MIC 59 315S	39 422W S	PROTO4MV
243	11283	ONBG B	0 MS200	0	MIC 59 25S	38 554W S	PROTO4MV
313	11283	ONBG E	0 MS200	0	MIC 59 19S	38 544W S	PROTO4MV
836	11283	ONBG B	0 MS200	0	MIC 58 417S	38 550W S	PROTO4MV
912	11283	ONBG E	0 MS200	0	MIC 58 405S	38 558W S	PROTO4MV
5	21283	ONBG B	0 MS200	0	MIC 58 129S	38 299W S	PROTO4MV
38	21283	ONBG E	0 MS200	0	MIC 58 127S	38 279W S	PROTO4MV
857	21283	ONBG B	0 MS200	0	MIC 57 458S	38 36W S	PROTO4MV
937	21283	ONBG E	0 MS200	0	MIC 57 459S	38 27W S	PROTO4MV
126	31283	ONBG B	0 MS200	0	MIC 57 139S	37 398W S	PROTO4MV
203	31283	ONBG E	0 MS200	0	MIC 57 131S	37 383W S	PROTO4MV
250	31283	ONBG B	0 MS 1	0	MIC 57 121S	37 361W S	PROTO4MV
320	31283	ONBG E	0 MS 1	0	MIC 57 115S	37 334W S	PROTO4MV

END SAMPLE INDEX