

INFORMAL REPORT AND INDEX OF
NAVIGATION, DEPTH, MAGNETIC AND SUBBOTTOM PROFILER DATA
(Issued November 1984)

PROTEA EXPEDITION

LEG 9

Manzanillo, Mexico (28 April 1984)
to
San Diego, Calif. (21 May 1984)

R/V Melville

Chief Scientist - R. D. Ballard (Woods Hole Oceanographic Inst.)

Resident Marine Tech - E. G. Pillard

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

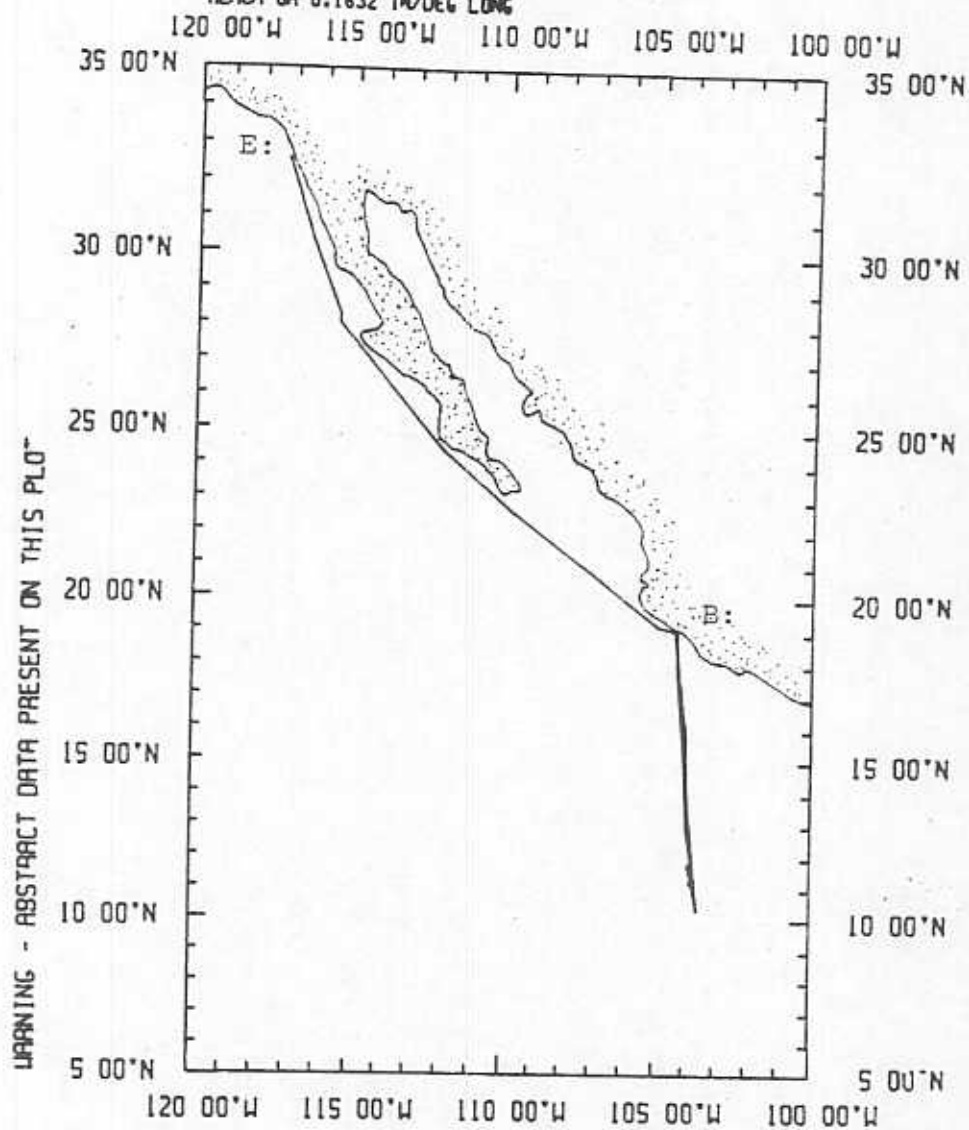
Data Collection Funded by NSF
Grant Number NSF OCE83-17741
Data Processing Funded by SIA and NSF

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 NINE TRACK

MERCATOR 0.1632 IN/DEG LONG



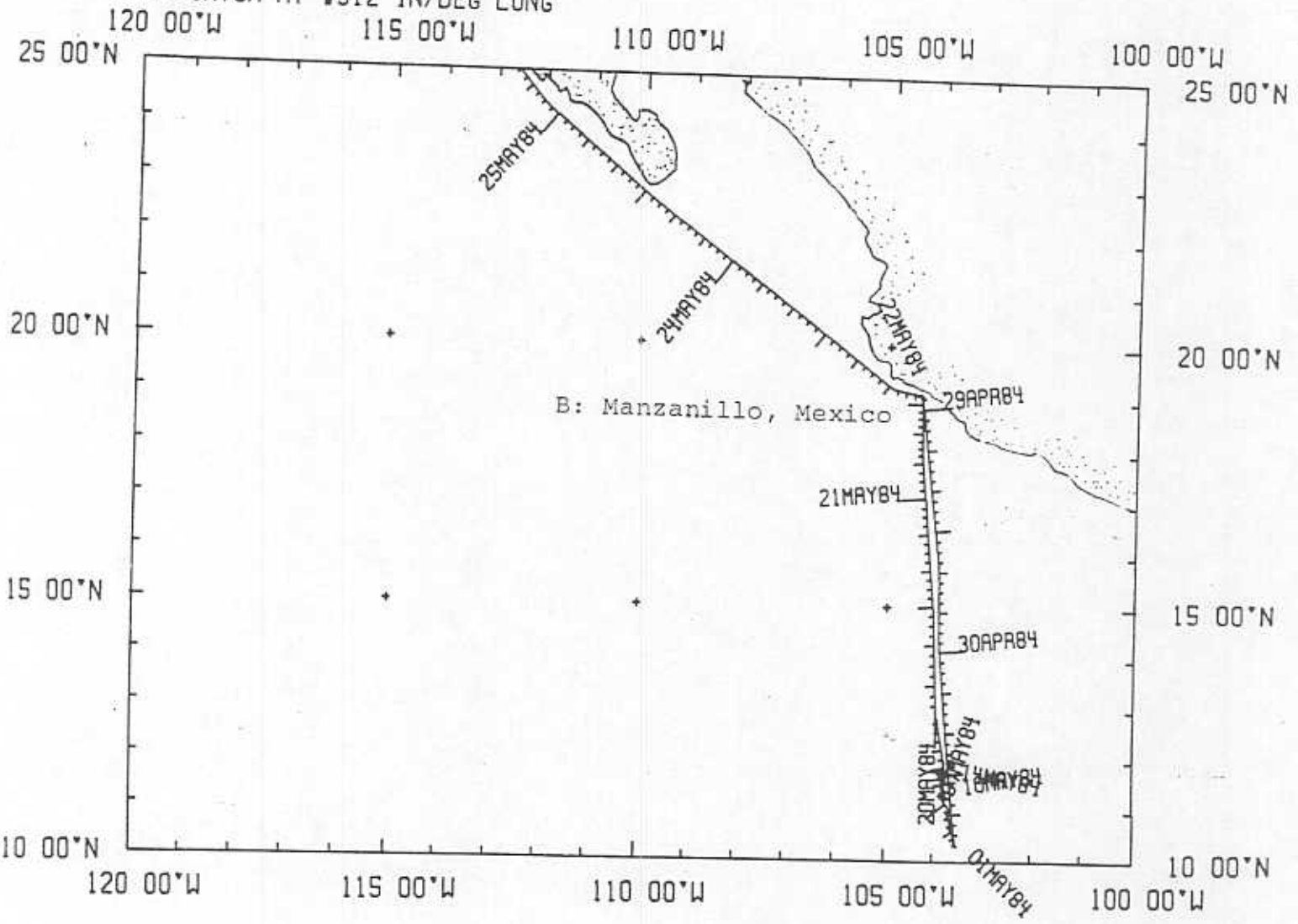
PROTEA EXPEDITION
LEG 9

CHIEF SCIENTIST: R. D. Ballard
PORTS: Manzanillo, Mexico - San Diego, California
DATES: 28 April - 21 May 1984
SHIP: R/V Melville

TOTAL MILEAGE OF UNDERWAY DATA COLLECTED

- 1) Cruise - 2677 miles
- 2) Bathymetry - collected but not processed
- 3) Magnetics - collected but not processed
- 4) Seismic Reflection - none collected
- 5) Gravity - none collected
- 6) SeaBeam - (on R/V Thomas Washington only)

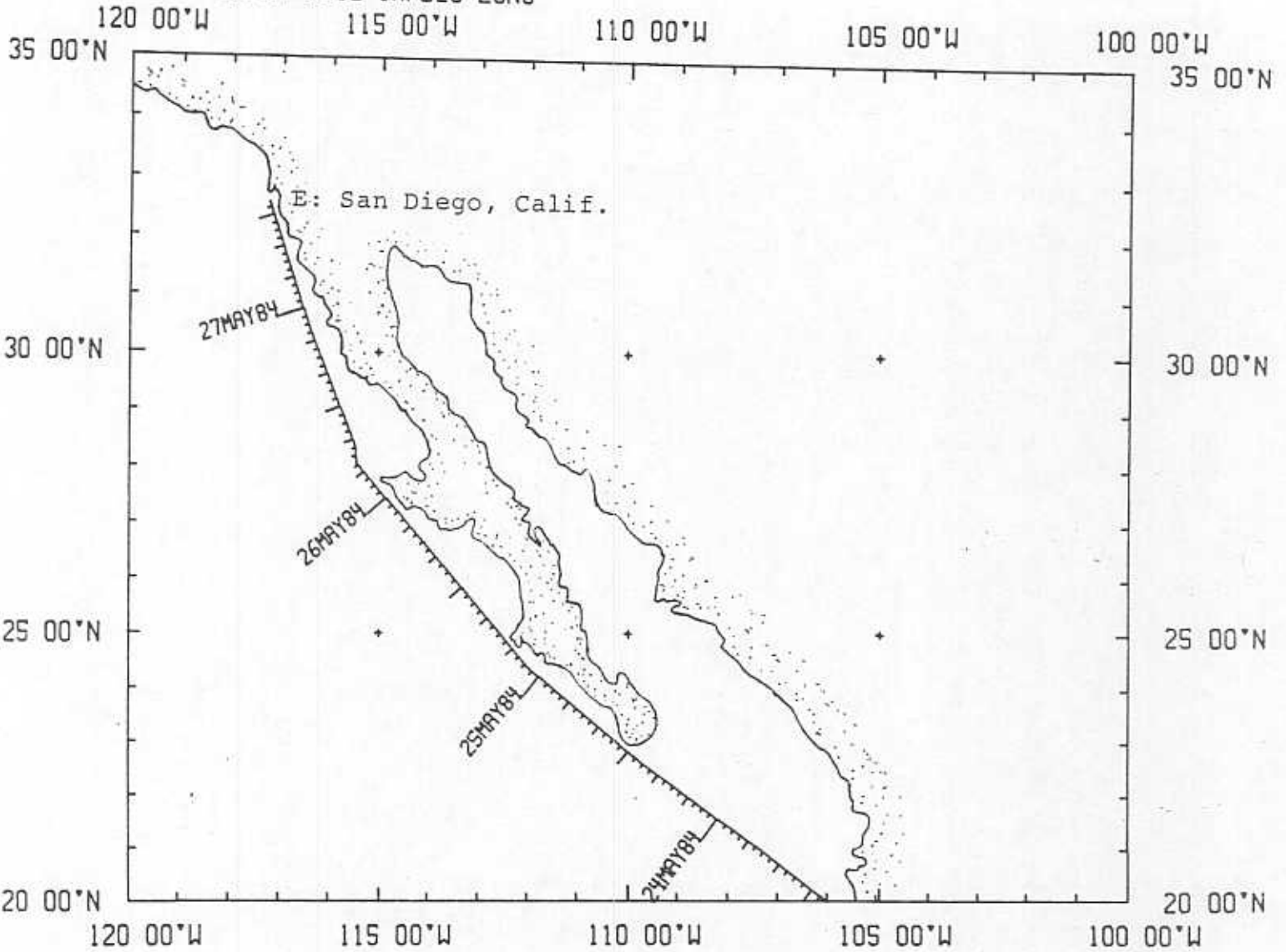
PROT09MV
TRACK PLOT 1 OF 2
MERCATOR AT .312 IN/DEG LONG



PROT09MV

TRACK PLOT 2 OF 2

MERCATOR AT .312 IN/DEG LONG



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

PROTEA EXPEDITION

Leg 9

Manzanillo, Mexico (28 April 1984)
to
San Diego, Calif. (21 May 1984)

R/V Melville

Chief Scientist - R. D. Ballard (WHOI)

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 9 SAMPLE INDEX

PROTO9MV

PORTS

2208 28 484	LGPT B Manzanillo, Mexico	19 03 N 104 20 W F	PROTO9MV
1300 21 584	LGPT E San Diego, Calif.	32 43 N 117 11 W F	PROTO9MV

PERSONNEL

*** NAME ***	*** TITLE ***	*** AFFILIATION ***	*CRUISE*
PECS WHO BALLARD, R.D.	CHIEF SCIENTIST	WOODS HOLE OCEAN. IN.	PROTO9MV
PESP WHO BOWEN, M.F.	RESEARCH ASST.	WOODS HOLE OCEAN. IN.	PROTO9MV
PESP WHO BRYAN, W.B.	SCIENTIST	WOODS HOLE OCEAN. IN.	PROTO9MV
PECT MTG CHARTERS, J.S.	COMPUTER TECH.	SCRIPPS INSTITUTION	PROTO9MV
PESP WHO CROOK, T.	RESEARCH ASST.	WOODS HOLE OCEAN. IN.	PROTO9MV
PEVL SIX GARY, J.N.	VOLUNTEER	SCRIPPS NON-EMPLOYEE	PROTO9MV
PESP WHO HAMURO, K.	GUEST SCIENTIST	WOODS HOLE OCEAN. IN.	PROTO9MV
PESP WHO HANDY, R.E.	RESEARCH ASST.	WOODS HOLE OCEAN. IN.	PROTO9MV
PESP WHO MARQUET, W.M.	SR. RESC. ASSOC.	WOODS HOLE OCEAN. IN.	PROTO9MV
PEVL SIX PELZ, E.A.	VOLUNTEER	SCRIPPS NON-EMPLOYEE	PROTO9MV
PERT MTG PILLARD, E.G.	RESIDENT TECH.	SCRIPPS INSTITUTION	PROTO9MV
PESP WHO SULANOWSKI, M.M.	RESEARCH ASSOC.	WOODS HOLE OCEAN. IN.	PROTO9MV
PESP WHO THOMPSON, G.	SCIENTIST	WOODS HOLE OCEAN. IN.	PROTO9MV
PESP WHO YOUNG, E.M.	SR. RESC. ASSOC.	WOODS HOLE OCEAN. IN.	PROTO9MV
PESP GSU ZIERENBERG, R.A.	SCIENTIST	GEOLOGICAL SURVEY	PROTO9MV

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 SAMPLES, 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 CODE	LAT.	LONG.	CRUISE LEG-SHIP
-------------	----------------	--------------	----------------------	--------------	------	-------	--------------------

*** UNDERWAY DATA CURATOR - STUART M. SMITH EXT. 2752 ***

FATHOGRAMS

2255	28	484	DPRT B 12KHZ U/WAY R-01	GDC 19	33N	104 196W	S PROTO9MV
1600	1	584	DPRT E 12KHZ U/WAY R-01	GDC 10	185N	103 350W	S PROTO9MV
1620	1	584	DPRT B 12KHZ ANGUS/DREDGE	WHO 10	186N	103 350W	S PROTO9MV
1318	19	584	DPRT E 12KHZ ANGUS/DREDGE	WHO 11	476N	103 470W	S PROTO9MV

CAMERA

2127	1	584	CATB B ANGUS T-205 EPR	WHO 10	187N	103 353W	S PROTO9MV
241	2	584	CATB E ANGUS T-205 EPR	WHO 10	208N	103 352W	S PROTO9MV
1519	2	584	CATB B ANGUS T-206 EPR	WHO 10	189N	103 351W	S PROTO9MV
16	3	584	CATB E ANGUS T-206 EPR	WHO 10	201N	103 349W	S PROTO9MV
930	4	584	CATB B ANGUS T-207 EPR	WHO 10	371N	103 379W	S PROTO9MV
1800	4	584	CATB E ANGUS T-207 EPR	WHO 10	370N	103 372W	S PROTO9MV
910	5	584	CATB B ANGUS T-208 EPR	WHO 10	371N	103 376W	S PROTO9MV
1605	5	584	CATB E ANGUS T-208 EPR	WHO 10	417N	103 388W	S PROTO9MV
2348	6	584	CATB B ANGUS T-209 EPR	WHO 10	536N	103 408W	S PROTO9MV
1229	7	584	CATB E ANGUS T-209 EPR	WHO 10	596N	103 424W	S PROTO9MV
121	8	584	CATB B ANGUS T-210 EPR	WHO 10	581N	103 418W	S PROTO9MV
1427	8	584	CATB E ANGUS T-210 EPR	WHO 10	544N	103 400W	S PROTO9MV
2013	9	584	CATB B ANGUS T-211 EPR	WHO 11	187N	103 460W	S PROTO9MV
1034	10	584	CATB E ANGUS T-211 EPR	WHO 11	131N	103 452W	S PROTO9MV
2232	10	584	CATB B ANGUS T-212 EPR	WHO 11	162N	103 458W	S PROTO9MV
931	11	584	CATB E ANGUS T-212 EPR	WHO 11	159N	103 451W	S PROTO9MV
401	12	584	CATB B ANGUS T-213 EPR	WHO 11	282N	103 481W	S PROTO9MV
1556	12	584	CATB E ANGUS T-213 EPR	WHO 11	265N	103 477W	S PROTO9MV
628	13	584	CATB B ANGUS T-214 EPR	WHO 11	281N	103 479W	S PROTO9MV
1125	13	584	CATB E ANGUS T-214 EPR	WHO 11	260N	103 477W	S PROTO9MV
1148	14	584	CATB B ANGUS T-215 EPR	WHO 11	418N	103 508W	S PROTO9MV
149	15	584	CATB E ANGUS T-215 EPR	WHO 11	476N	103 510W	S PROTO9MV
1706	15	584	CATB B ANGUS T-216 EPR	WHO 11	428N	103 488W	S PROTO9MV
905	16	584	CATB E ANGUS T-216 EPR	WHO 11	440N	103 510W	S PROTO9MV
2030	16	584	CATB B ANGUS T-217 EPR	WHO 11	419N	103 510W	S PROTO9MV
1106	17	584	CATB E ANGUS T-217 EPR	WHO 11	414N	103 505W	S PROTO9MV
1603	18	584	CATB B ANGUS T-218 EPR	WHO 11	493N	103 477W	S PROTO9MV
200	19	584	CATB E ANGUS T-218 EPR	WHO 11	459N	103 460W	S PROTO9MV

GHT TIME	DDMMYY DATE	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
DREDGES							
635	1 584	DRRO B	EPR ROCK DREDGE D-47	WHO 10	202N	103 338W	S PROTO9MV
1723	1 584	DRRO E	EPR ROCK DREDGE D-47	WHO 10	193N	103 350W	S PROTO9MV
632	2 584	DRRO B	EPR ROCK DREDGE D-48	WHO 10	208N	103 349W	S PROTO9MV
810	2 584	DRRO E	EPR ROCK DREDGE D-48	WHO 10	216N	103 355W	S PROTO9MV
336	3 584	DRRO B	EPR ROCK DREDGE D-49	WHO 10	212N	103 358W	S PROTO9MV
457	3 584	DRRO E	EPR ROCK DREDGE D-49	WHO 10	208N	103 354W	S PROTO9MV
937	3 584	DRRO B	EPR ROCK DREDGE D-50	WHO 10	194N	103 346W	S PROTO9MV
1040	3 584	DRRO E	EPR ROCK DREDGE D-50	WHO 10	193N	103 350W	S PROTO9MV
2230	3 584	DRRO B	EPR ROCK DREDGE D-51	WHO 10	364N	103 369W	S PROTO9MV
15	4 584	DRRO E	EPR ROCK DREDGE D-51	WHO 10	379N	103 379W	S PROTO9MV
334	4 584	DRRO B	EPR ROCK DREDGE D-52	WHO 10	384N	103 383W	S PROTO9MV
520	4 584	DRRO E	EPR ROCK DREDGE D-52	WHO 10	354N	103 371W	S PROTO9MV
29	6 584	DRRO B	EPR ROCK DREDGE D-53	WHO 10	387N	103 379W	S PROTO9MV
132	6 584	DRRO E	EPR ROCK DREDGE --53	WHO 10	389N	103 383W	S PROTO9MV
537	6 584	DRRO B	EPR ROCK DREDGE D-54	WHO 10	498N	103 403W	S PROTO9MV
715	6 584	DRRO E	EPR ROCK DREDGE D-54	WHO 10	492N	103 405W	S PROTO9MV
1541	7 584	DRRO B	EPR ROCK DREDGE D-55	WHO 10	595N	103 421W	S PROTO9MV
1705	7 584	DRRO E	EPR ROCK DREDGE D-55	WHO 10	589N	103 422W	S PROTO9MV
1950	7 584	DRRO B	EPR ROCK DREDGE D-56	WHO 10	573N	103 417W	S PROTO9MV
2117	7 584	DRRO E	EPR ROCK DREDGE D-56	WHO 10	569N	103 418W	S PROTO9MV
1735	8 584	DRRO B	EPR ROCK DREDGE D-57	WHO 10	559N	103 413W	S PROTO9MV
1900	8 584	DRRO E	EPR ROCK DREDGE D-57	WHO 10	554N	103 408W	S PROTO9MV
1507	9 584	DRRO B	EPR ROCK DREDGE D-58	WHO 11	158N	103 459W	S PROTO9MV
1630	9 584	DRRO E	EPR ROCK DREDGE D-58	WHO 11	158N	103 456W	S PROTO9MV
1413	10 584	DRRO B	EPR ROCK DREDGE D-59	WHO 11	147N	103 451W	S PROTO9MV
1550	10 584	DRRO E	EPR ROCK DREDGE D-59	WHO 11	148N	103 455W	S PROTO9MV
1836	10 584	DRRO B	EPR ROCK DREDGE D-60	WHO 11	176N	103 461W	S PROTO9MV
1938	10 584	DRRO E	EPR ROCK DREDGE D-60	WHO 11	170N	103 460W	S PROTO9MV
1627	11 584	DRRO B	EPR ROCK DREDGE D-61	WHO 11	274N	103 480W	S PROTO9MV
1829	11 584	DRRO E	EPR ROCK DREDGE D-61	WHO 11	265N	103 481W	S PROTO9MV
1924	12 584	DRRO B	EPR ROCK DREDGE D-62	WHO 11	258N	103 475W	S PROTO9MV
2152	12 584	DRRO E	EPR ROCK DREDGE D-62	WHO 11	256N	103 478W	S PROTO9MV
145	13 584	DRRO B	EPR ROCK DREDGE D-63	WHO 11	280N	103 481W	S PROTO9MV
322	13 584	DRRO E	EPR ROCK DREDGE D-63	WHO 11	274N	103 480W	S PROTO9MV
712	14 584	DRRO B	EPR ROCK DREDGE D-64	WHO 11	427N	103 506W	S PROTO9MV
818	14 584	DRRO E	EPR ROCK DREDGE D-64	WHO 11	422N	103 510W	S PROTO9MV
532	15 584	DRRO B	EPR ROCK DREDGE D-65	WHO 11	466N	103 510W	S PROTO9MV
628	15 584	DRRO E	EPR ROCK DREDGE D-65	WHO 11	470N	103 510W	S PROTO9MV
1032	15 584	DRRO B	EPR ROCK DREDGE D-66	WHO 11	506N	103 510W	S PROTO9MV
1156	15 584	DRRO E	EPR ROCK DREDGE D-66	WHO 11	506N	103 506W	S PROTO9MV

GMT TIME	DDMMYY DATE	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1410	16 584	DRRO B	EPR ROCK DREDGE D-67	WHO 11	344N	103 493W	S PROTO9MV
1540	16 584	DRRO E	EPR ROCK DREDGE D-67	WHO 11	351N	103 499W	S PROTO9MV
1625	17 584	DRRO B	EPR ROCK DREDGE D-68	WHO 11	511N	103 510W	S PROTO9MV
1830	17 584	DRRO E	EPR ROCK DREDGE D-68	WHO 11	500N	103 505W	S PROTO9MV
559	19 584	DRRO B	EPR ROCK DREDGE D-69	WHO 11	451N	103 473W	S PROTO9MV
711	19 584	DRRO E	EPR ROCK DREDGE D-69	WHO 11	445N	103 471W	S PROTO9MV
1109	19 584	DRRO B	EPR ROCK DREDGE D-70	WHO 11	486N	103 472W	S PROTO9MV
1318	19 584	DRRO E	EPR ROCK DREDGE D-70	WHO 11	476N	103 470W	S PROTO9MV

HEAT FLOW

910	5 584	HFXX B	ANDREA HEAT PROBE	WHO 10	371N	103 376W	S PROTO9MV
1605	5 584	HFXX E	ANGUS T-208	WHO 10	417N	103 388W	S PROTO9MV
2348	6 584	HFXX B	ANDREA HEAT PROBE	WHO 10	536N	103 408W	S PROTO9MV
1229	7 584	HFXX E	ANGUS T-209	WHO 10	596N	103 424W	S PROTO9MV
121	8 584	HFXX B	ANDREA HEAT PROBE	WHO 10	581N	103 418W	S PROTO9MV
1427	8 584	HFXX E	ANGUS T-210	WHO 10	544N	103 400W	S PROTO9MV
2013	9 584	HFXX B	ANDREA HEAT PROBE	WHO 11	187N	103 460W	S PROTO9MV
1034	10 584	HFXX E	ANGUS T-211	WHO 11	131N	103 452W	S PROTO9MV
2232	10 584	HFXX B	ANDREA HEAT PROBE	WHO 11	162N	103 458W	S PROTO9MV
931	11 584	HFXX E	ANGUS T-212	WHO 11	159N	103 451W	S PROTO9MV
401	12 584	HFXX B	ANDREA HEAT PROBE	WHO 11	282N	103 481W	S PROTO9MV
1556	12 584	HFXX E	ANGUS T-213	WHO 11	265N	103 477W	S PROTO9MV
628	13 584	HFXX B	ANDREA HEAT PROBE	WHO 11	281N	103 479W	S PROTO9MV
1125	13 584	HFXX E	ANGUS T-214	WHO 11	260N	103 477W	S PROTO9MV
1148	14 584	HFXX B	ANDREA HEAT PROBE	WHO 11	418N	103 508W	S PROTO9MV
149	15 584	HFXX E	ANGUS T-215	WHO 11	476N	103 510W	S PROTO9MV
1706	15 584	HFXX B	ANDREA HEAT PROBE	WHO 11	428N	103 488W	S PROTO9MV
905	16 584	HFXX E	ANGUS T-216	WHO 11	440N	103 510W	S PROTO9MV
2030	16 584	HFXX B	ANDREA HEAT PROBE	WHO 11	419N	103 510W	S PROTO9MV
1106	17 584	HFXX E	ANGUS T-217	WHO 11	414N	103 505W	S PROTO9MV
1603	18 584	HFXX B	ANDREA HEAT PROBE	WHO 11	493N	103 477W	S PROTO9MV
200	19 584	HFXX E	ANGUS T-218	WHO 11	459N	103 460W	S PROTO9MV
9900			END SAMPLE INDEX				PROTO9MV