

INFORMAL REPORT AND INDEX OF
NAVIGATION, DEPTH, MAGNETIC AND SUBBOTTOM PROFILER DATA
(Issued February 1988)

ATOM EXPEDITION

LEG 1

San Diego, California (18 May 1986)
to
San Diego, California (13 June 1986)

R/V Melville

Chief Scientist - K. L. Smith (SIO)

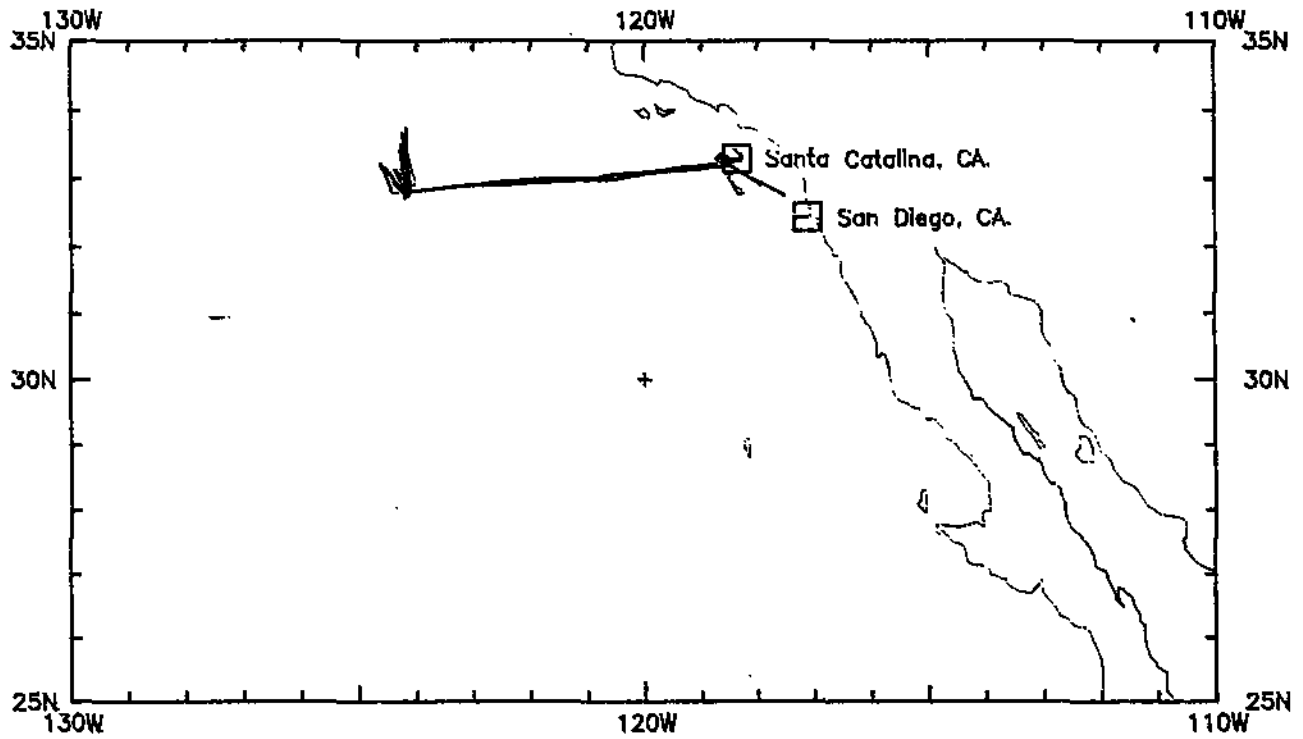
Resident Marine Technician - R. Wilson

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

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

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.# 224



ATOM Leg 1 Melville (ATOM01MV)

✕

**** PORTS ****

1520	180586	LGPT B SAN DIEGO, CA.	32-43 N 117-11 W	fATOM01MV
1500	130686	LGPT E SAN DIEGO, CA.	32-43 N 117-11 W	fATOM01MV
1849	210586	LGSS B AVALON, CATALINA IS., CA.	33-29 N 118-36 W	fATOM01MV
1949	210586	LGSS E AVALON, CATALINA IS., CA.	33-29 N 118-36 W	fATOM01MV

****PERSONNEL****

	NAME	***TITLE***	***AFFILIATION***	**CRID**
PECS MBR	SMITH, K.L.	CHIEF SCIENTIST	SCRIPPS INSTITUTION	ATOM01MV
PERT STS	WILSON, R.	RESIDENT TECH	SCRIPPS INSTITUTION	ATOM01MV
PECT STS	MOE, R.	COMPUTER TECH	SCRIPPS INSTITUTION	ATOM01MV
PEET PCF	SCHMITT, J.	ELECTRONIC TECH	SCRIPPS INSTITUTION	ATOM01MV
PEET MBR	EDELMAN, J.	ELECTRONIC TECH	SCRIPPS INSTITUTION	ATOM01MV
PESP MBR	BALDWIN, R.	RESEARCH ASSOC	SCRIPPS INSTITUTION	ATOM01MV
PESP MBR	LAVER, M.	RESEARCH ASSOC	SCRIPPS INSTITUTION	ATOM01MV
PEST MBR	WAKEFIELD, W.	STUDENT	SCRIPPS INSTITUTION	ATOM01MV
PESP SIX	SULLIVAN, K.	SCIENTIST	UNIV. OF MIAMI, FLA.	ATOM01MV
PEST SIO	ZILKO, T.	STUDENT	SCRIPPS INSTITUTION	ATOM01MV
PEST SIO	ARMSTRONG, J.	STUDENT	SCRIPPS INSTITUTION	ATOM01MV
PEST SIO	TIEN, R.	STUDENT	SCRIPPS INSTITUTION	ATOM01MV
PEST SIO	STRECKWALD, B.	STUDENT	SCRIPPS INSTITUTION	ATOM01MV
ST SIO	DELGADO, J.	STUDENT	SCRIPPS INSTITUTION	ATOM01MV

****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. 41898

**** ECHOSOUNDER RECORDS - 12 KHZ ****

1520	180568	DPRT B	EDO	12KHZ	R-01	GDC	32-541N	117-579W	sATOM01MV
0220	280586	DPRT E	EDO	12KHZ	R-01	GDC	32-526N	124-074W	sATOM01MV
0236	280586	DPRT B	EDO	12KHZ	R-02	GDC	32-527N	124-075W	sATOM01MV
1046	310586	DPRT E	EDO	12KHZ	R-02	GDC	32-569N	124-101W	sATOM01MV
1450	310586	DPRT B	EDO	12KHZ	R-03	GDC	32-549N	124-094W	sATOM01MV
43	090686	DPRT E	EDO	12KHZ	R-03	GDC	32-557N	124-069W	sATOM01MV
47	090686	DPRT B	EDO	12KHZ	R-04	GDC	32-559N	124-070W	sATOM01MV
0411	130686	DPRT E	EDO	12KHZ	R-04	GDC	33-119N	118-315W	sATOM01MV

#GMT #TIME #	DDMMYY DATE	LOC TIME Z	T	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
*** BIOLOGICAL SAMPLES IN CHRONOLOGICAL ORDER ***									
1725	190586			GBFF B	GRAB FREE FALL 1220M	MBR	33-183N	118-390W	sATOMO1MV
2136	200586			GBFF E	RESPIROMETER	MBR	33-180N	118-394W	sATOMO1MV
1841	190586			HCNI	1BTL 1220M	MBR	33-187N	118-417W	sATOMO1MV
2248	190586			CN B	MOCNESS NET	KLS	33-125N	118-347W	sATOMO1MV
2348	190586			CN E	MOCNESS NET KLS104	KLS	33-132N	118-390W	sATOMO1MV
1949	210586			SDTR C	SEDIMENT TRAP	KLS	32-43 N	117-11 W	fATOMO1MV
0147	200586			SDTR E	SEDIMENT TRAP	KLS	33-124N	118-371W	sATOMO1MV
0218	200586			HCNI	1BTL 1175M	KLS	33-126N	118-373W	sATOMO1MV
0443	200586			SDTR B	SEDIMENT TRAP	KLS	33-136N	118-387W	sATOMO1MV
0131	130686			SDTR E	KLS106	KLS	33-119N	118-312W	sATOMO1MV
1741	200586			ACXX B	ACOUSTIC ARRAY	KLS	33-152N	118-336W	sATOMO1MV
0131	210586			ACXX E	KLS107	KLS	33-149N	118-324W	sATOMO1MV
1813	200586			TMIK B	0		33-147N	118-329W	sATOMO1MV
1903	200586			TMIK E	0		33-126N	118-313W	sATOMO1MV
0257	210586			TMIK B	0 850 0		33-100N	118-257W	sATOMO1MV
0536	210586			TMIK E	0 850 0		33-139N	118-327W	sATOMO1MV
1849	230586			SDTR B	SEDIMENT TRAP	KLS	32-483N	124-084W	sATOMO1MV
1554	100686			SDTR E	KLS 113 4275M	KLS	32-512N	124-106W	sATOMO1MV
2047	230586			CMAB B	CURRENT METER	KLS	32-481N	124-091W	sATOMO1MV
2202	100686			CMAB E	KLS 114 4350M	KLS	32-505N	124-107W	sATOMO1MV
2319	230586			SDTR B	SEDIMENT TRAP	KLS	32-484N	124-113W	sATOMO1MV
2133	100686			SDTR E	KLS 115 4410M	KLS	32-509N	124-116W	sATOMO1MV
0141	240586			CMAB B	CURRENT METER	KLS	32-483N	124-129W	sATOMO1MV
0121	110686			CMAB E	KLS 116 4405M	KLS	32-491N	124-115W	sATOMO1MV
1719	240586			GBFF B	RESPIROMETER	KLS	32-481N	124-066W	sATOMO1MV
2107	270586			GBFF E	KLS 120 4260M	KLS	32-474N	124-092W	sATOMO1MV
2350	240586			ACXX B	ACCOUSTIC ARRAY	KLS	32-462N	124-104W	sATOMO1MV
1354	250586			ACXX E	KLS 122	KLS	32-451N	124-082W	sATOMO1MV
0043	250586			CMAB B	CURRENT METER	KLS	32-458N	124-112W	sATOMO1MV
1715	270586			CMAB E	KLS 123 4300M	KLS	32-446N	124-099W	sATOMO1MV
1733	250586			TRFV B	TRAPS	KLS	32-451N	124-096W	sATOMO1MV
1608	270586			TRFV E	KLS 127 4295M	KLS	32-443N	124-097W	sATOMO1MV
2127	250586			TRFV B	TRAPS	KLS	32-446N	124-097W	sATOMO1MV
1857	270586			TRFV E	KLS 128 4355M	KLS	32-441N	124-103W	sATOMO1MV
2354	250586			ACXX B	ACCOUSTIC ARRAY	KLS	32-483N	124-089W	sATOMO1MV
0210	280586			ACXX E	KLS 129 4435M	KLS	32-525N	124-073W	sATOMO1MV

#GMT #TIME #	DMMYY DATE	LOC TIME Z	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
0345	260586			CN	B MOCNESS TRAWL	KLS	32-461N	124-130W	sATOMO1MV
0308	270586			CN	E KLS 131	KLS	32-587N	124-237W	sATOMO1MV
1452	280586			BLXX	ROBERTA'S HOOKS	KLS	32-519N	124-071W	sATOMO1MV
2237	280586			CMAB	B CURRENT METER	KLS	32-527N	124-102W	sATOMO1MV
2315	300586			CMAB	E KLS 138 4325M	KLS	32-531N	124-093W	sATOMO1MV
2351	280586			CAFV	B VIDEO	KLS	32-528N	124-086W	sATOMO1MV
2135	300586			CAVF	E KLS 139 4375M	KLS	32-531N	124-087W	sATOMO1MV
0135	290586			TRFV	B TRAPS	KLS	32-544N	124-074W	sATOMO1MV
0135	310586			TRFV	E KLS 140 4315M	KLS	32-544N	124-093W	sATOMO1MV
0320	290586			CN	B MOCNESS TRAWL	KLS	32-543N	124-019W	sATOMO1MV
0712	300586			CN	E KLS 141	KLS	33-403N	124-153W	sATOMO1MV
1706	300586			GBFF	B RESPIROMETER	KLS	32-474N	124-062W	sATOMO1MV
2056	020686			GBFF	E KLS 143 4265M	KLS	32-465N	124-092W	sATOMO1MV
1555	310586			CMAB	B CURRENT METER	KLS	32-512N	124-085W	sATOMO1MV
1522	020686			CMAB	E KLS 147	KLS	32-538N	124-078W	sATOMO1MV
1713	310586			CAFV	B VIDEO CAMERA	KLS	32-503N	124-103W	sATOMO1MV
0415	020686			CAFV	E KLS 148 4345M	KLS	32-535N	124-085W	sATOMO1MV
1745	310586			BLXX	ROBERTA'S HOOKS	KLS	32-517N	124-104W	sATOMO1MV
1906	310586			TRVF	B TRAPS	KLS	32-512N	124-134W	sATOMO1MV
1734	020686			TRVF	E KLS 150 4150M	KLS	32-554N	124-113W	sATOMO1MV
2059	310586			ACXX	B ACOUSTIC ARRAY	KLS	32-476N	124-151W	sATOMO1MV
0254	020686			ACXX	E KLS 151 4370M	KLS	32-491N	124-114W	sATOMO1MV
0013	010686			CN	B MOCNESS TRAWL M	KLS	32-500N	124-270W	sATOMO1MV
2330	010686			CN	E KLS 152	KLS	32-544N	124-198W	sATOMO1MV
1937	020686			ACXX	B ACOUSTIC ARRAY	KLS	32-472N	124-112W	sATOMO1MV
2342	030686			ACXX	E KLS 154	KLS	32-506N	124-104W	sATOMO1MV
0152	030686			CMAB	B CURRENT METER	KLS	32-519N	124-093W	sATOMO1MV
1712	050686			CMAB	E KLS 156 4385M	KLS	32-509N	124-079W	sATOMO1MV
0238	030686			CAFV	B VIDEO CAMERA	KLS	32-539N	124-092W	sATOMO1MV
1916	030686			CAFV	E KLS 157 4310M	KLS	32-534N	124-088W	sATOMO1MV
0324	030686			TRVF	B INSULATED TRAP	KLS	32-544N	124-107W	sATOMO1MV
2036	030686			TRVF	E KLS 158 4270M	KLS	32-535N	124-094W	sATOMO1MV
1709	030686			GBFF	B RESPIROMETER	KLS	32-474N	124-084W	sATOMO1MV
2113	060686			GBFF	E KLS 160	KLS	32-486N	124-092W	sATOMO1MV
0106	040686			CAVF	B VIDEO CAMERA	KLS	32-540N	124-088W	sATOMO1MV
1809	050686			CAVF	E KLS 161 4287M	KLS	32-524N	124-082W	sATOMO1MV
0213	040686			CN	B MOCNESS TRAWL	KLS	32-548N	124-024W	sATOMO1MV
0440	050686			CN	E KLS 162	KLS	33-440N	124-114W	sATOMO1MV

#GMT #TIME #	DDMMYY DATE	LOC TIME Z	T	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
2011	050686			ACXX B	ACCOUSTIC ARRAY	KLS	32-441N	124-107W	sATOMO1MV
2000	070686			ACXX E	KLS 164 4315M	KLS	32-471N	124-135W	sATOMO1MV
2209	050686			TRVF B	FISH TRAP	KLS	32-442N	124-097W	sATOMO1MV
0511	090686			TRVF E	KLS 165 4310M	KLS	32-508N	124-106W	sATOMO1MV
2319	050686			CMAB B	CURRENT METER	KLS	32-508N	124-086W	sATOMO1MV
1337	090686			CMAB E	KLS 166 4365M	KLS	32-548N	124-067W	sATOMO1MV
0140	060686			CAVF B	VIDEO CAMERA	KLS	32-532N	124-088W	sATOMO1MV
0209	070686			CAVF E	KLS 167 4310M	KLS	32-488N	124-085W	sATOMO1MV
1755	060686			HC	GO-FLOW RADIOCARBON	FCR	32-551N	124-082W	sATOMO1MV
0336	070686			TRVF B	TRAPS	KLS	32-499N	124-081W	sATOMO1MV
0900	090686			TRVF E	KLS 172 4390M	KLS	32-520N	124-069W	sATOMO1MV
1523	070686			CAVF B	VIDEO CAMERA	KLS	32-537N	124-084W	sATOMO1MV
0716	090686			CAVF E	KLS 174 4330M	KLS	32-545N	124-075W	sATOMO1MV
1711	070686			GBFF B	RESPIROMETER	KLS	32-484N	124-098W	sATOMO1MV
0333	110686			GBFF E	KLS 175 4295M	KLS	32-480N	124-097W	sATOMO1MV
0123	080686			CN B	MOCNESS TRAWL	KLS	32-497N	124-142W	sATOMO1MV
2355	080686			CN E	KLS 176	KLS	33-297N	124-160W	sATOMO1MV
1540	090686			TRVF B	FISH TRAP	KLS	32-557N	124-069W	sATOMO1MV
0525	110686			TRFV E	KLS 177 4335M	KLS	32-536N	124-061W	sATOMO1MV
1640	090686			CN B	MOCNESS TRAWL	KLS	32-558N	124-070W	sATOMO1MV
1009	100686			CN E	KLS 178	KLS	33-257N	124-184W	sATOMO1MV
1402	100686			CAVF B	VIDEO CAMERA	KLS	32-517N	124-119W	sATOMO1MV
0717	110686			CAVF E	KLS 179 4340M	KLS	32-494N	124-064W	sATOMO1MV
1610	120686			ACXX B	ACOUSTIC ARRAY	KLS	33-118N	118-331W	sATOMO1MV
2223	120686			ACXX E	KLS 180 1260M	KLS	33-108N	118-312W	sATOMO1MV
0410	130686			SDTR B	SEDIMENT TRAP	KLS	33-119N	118-315W	sATOMO1MV
1500	130686			SDTR C	KLS 181 1275M	KLS	32-43 N	117-11 W	fATOMO1MV
2322	180586			ON1M B	V 75 0		33-129N	118-316W	sATOMO1MV
0430	190586			ON1M E	V 75 0		33-173N	118-303W	sATOMO1MV
0301	200586			TM1K B	O 601 0		33-130N	118-377W	sATOMO1MV
0615	200586			TM1K E	O 601 0		33-172N	118-445W	sATOMO1MV
0206	220586			ON1M B	V 600 400		33-084N	119-321W	sATOMO1MV
0300	220586			ON1M E	V 600 400		33-072N	119-421W	sATOMO1MV
0300	220586			ON1M B	V 400 200		33-072N	119-421W	sATOMO1MV
0345	220586			ON1M E	V 400 200		33-063N	119-502W	sATOMO1MV
0400	220586			ON1M B	V 200 0		33-060N	119-529W	sATOMO1MV
0425	220586			ON1M E	V 200 0		33-057N	119-571W	sATOMO1MV

#GMT #TIME	DDMMYY DATE	LOC TIME	T Z	SAMP CODE	SAMPLE IDENTIFIER		DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
0620	240586			TMIK B	0	700	0	32-489N	124-167W	sATOMO1MV
0933	250586			TMIK E	0	700	0	32-466N	124-120W	sATOMO1MV
1300	300586			ONIM B	V	200	0	32-592N	124-088W	sATOMO1MV
1322	300586			ONIM E	V	200	0	32-590N	124-085W	sATOMO1MV
1400	300586			ONIM B	V	600	200	32-584N	124-081W	sATOMO1MV
1446	300586			ONIM E	V	600	200	32-578N	124-075W	sATOMO1MV
0605	310586			ONIM B	V	4152	2652	32-560N	124-105W	sATOMO1MV
1100	010686			ONIM E	V	4152	2652	33-089N	124-360W	sATOMO1MV
0529	010686			ONIM B	V	4400	1350	32-592N	124-307W	sATOMO1MV
1110	020686			ONIM E	V	4400	1350	32-591N	124-090W	sATOMO1MV
1200	020686			ONIM B	V	200	0	32-591N	124-087W	sATOMO1MV
1227	020686			ONIM E	V	200	0	32-591N	124-087W	sATOMO1MV
1227	020686			ONIM B	V	200	0	32-591N	124-087W	sATOMO1MV
1245	020686			ONIM E	V	200	0	32-591N	124-087W	sATOMO1MV
0400	020686			TMIK B	0	1650	0	32-534N	124-082W	sATOMO1MV
0930	030686			TMIK E	0	1650	0	33-086N	124-223W	sATOMO1MV
0550	040686			TMIK B	0	2000	0	33-005N	124-075W	sATOMO1MV
1215	050686			TMIK E	0	2000	0	33-123N	124-091W	sATOMO1MV
0210	050686			TMIK B	0	800	0	33-413N	124-107W	sATOMO1MV
0550	050686			TMIK E	0	800	0	33-344N	124-106W	sATOMO1MV
0610	050686			TMIK B	0	600	0	33-335N	124-105W	sATOMO1MV
0915	060686			TMIK E	0	600	0	32-561N	124-090W	sATOMO1MV
0500	060686			ONIM B	V	600	0	33-028N	124-117W	sATOMO1MV
0600	060686			ONIM E	V	600	0	33-051N	124-126W	sATOMO1MV
0600	060686			ONIM B	V	400	0	33-051N	124-126W	sATOMO1MV
0707	070686			ONIM E	V	400	0	32-515N	124-064W	sATOMO1MV
0730	070686			ONIM B	V	1350	600	32-517N	124-063W	sATOMO1MV
0936	070686			ONIM E	V	1350	600	32-525N	124-055W	sATOMO1MV
1211	230586			TDCT B		2140M		PCF 32-473N	124-077W	sATOMO1MV
1314	230586			TDCT E		2140M		PCF 32-472N	124-078W	sATOMO1MV
0217	240586			TDCT B		4518M		PCF 32-487N	124-135W	sATOMO1MV
0540	240586			TDCT E		4518M		PCF 32-488N	124-159W	sATOMO1MV
1831	240586	2156/2405		TDCT B		4225M		PCF 32-489N	124-077W	sATOMO1MV
0115	250586			TDCT B		M		PCF 32-460N	124-114W	sATOMO1MV
0515	250586			TDCT E		M		PCF 32-460N	124-111W	sATOMO1MV
0215	280586			TDCT B		4485M		PCF 32-526N	124-073W	sATOMO1MV
0625	280586			TDCT E		4485M		PCF 32-526N	124-081W	sATOMO1MV
2132	020686			TDCT B		4241M		PCF 32-461N	124-088W	sATOMO1MV
0103	030686			TDCT E		4241M		PCF 32-506N	124-093W	sATOMO1MV
2137	070686			TDCT B		4260M		PCF 32-462N	124-115W	sATOMO1MV
0135	080686			TDCT E		4260M		PCF 32-501N	124-143W	sATOMO1MV

END SAMPLE INDEX