

CRUISE EW 9101 LINE SAP- 1A / 1067 NUMBER OF SHIPS 1 THIS SHIP EWING
 CDP ✓ COP _____ AIRGUNS 20 (8385 in³) EXPLOSIVES _____

RECEIVING SHIPS EWING _____
 NUMBER OF TRACES 120 _____
 GROUP SPACING 25m _____
 SHOOTING SHIPS EWING _____
 SHOT INTERVAL 50m _____
 APPROXIMATE SHOT TIME (SEC) 205 _____

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>0545</u> <u>28 Feb 1991</u>	<u>0706:59</u>	<u>62° 28.395' S</u>	<u>62° 43.862' W</u>	<u>1046</u>	<u>/</u>
END LINE	<u>28 Feb 1991</u>	<u>1157:21</u>	<u>62° 48.6147 S</u>	<u>63° 09.222' W</u>	<u>1058</u>	<u>/</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>Ewing</u>	<u>~250m</u>	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

SAP-1A/1067

CAL DAY/50	TAPE	ON / OFF	TIME	FILE #	SP	COMMENTS
1046	ON C	070659	1	1	TE 001	SOL SOUTHERN ANT. PEN SURVEY
						guns 5 & 6 being worked on. @0727Z BACK ON.
						0728Z gun #4 OFF
1046	OFF C	0729:19	68	68		
1047	ON E	0729:39	69	69	TE 002	
		~0733	~81	~81		gun #5 back up
		0747:20	122	122	TE 001	SR 001
1047	OFF E	0752:00	136	136	IF 099	
1048	ON C	0752:20	137	137	TE 001	
1048	OFF C	0814:20	203	203		
1049	ON E	0814:40	204	204	TE 001	
1049	OFF E	0836:40	270	270		
1050	ON C	0837:00	271	271	TE 001	
			319	319	TE 001	
1050	OFF C	0859:00	337	337		
1051	ON E	0859:20	338	338	TE 001	
			389	389	TE 001	SR 001
			389	398	TE 001	SR 001
			405	405	TE 001	
1051	OFF E	0943:40	471	471		
1052	ON C	0944:00	472	472	TE 001	
1052	OFF C	1006:00	538	538		

SAP 1A/1067

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CAL DAY/JO

TAPE

ON / OFF

TIME

FILE

SP

COMMENTS

059 28 Feb 91	1054	ON C	1006:20	0539	0539	TE001
	1054	OFF C	1008:21	605	605	
	1055	ON E	1028:41	606	606	TE001
	1055	OFF E	1050:41	672	672	
	1056	ON C	1051:01	673	673	TE001
				685	685	TE001
				0693	0693	TE003
	1056	OFF C	1113:01	739	739	
	1057	ON E	1113:21	740	740	TE001
	1057	OFF E	1135:21	806	806	TE002 IF010 SR002
	1058	ON C	1135:41	807	807	TE001
	1058	OFF C	1157:21	872	872	FDL

CRUISE EW9101LINE SAP 13/1068NUMBER OF SHIPS 1THIS SHIP EWINGCDP ✓

COP _____

AIRGUNS 20 (8385 in³)

EXPLOSIVES _____

RECEIVING SHIPS

EWING

NUMBER OF TRACES

120

GROUP SPACING

25m

SHOOTING SHIPS

EWING

SHOT INTERVAL

50mAPPROXIMATE SHOT
TIME (SEC)20s

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>059J</u> <u>28 Feb 1991</u>	<u>1444:40</u>	<u>63°00.94'S</u>	<u>63°25.44'W</u>	<u>1059</u>	<u>/</u>
END LINE	<u>061J</u> <u>02 FEB 1991</u> <u>March</u>	<u>2203:27</u>	<u>66°44.93'S</u>	<u>69°19.19'W</u>	<u>1214</u>	<u>/</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>EWING</u>	<u>~250m</u>				

CAL DAY/JO	TAPE	ON / OFF	TIME	FILE	SP	COMMENTS
128 Feb 1991	1059	On C	1444:40	1	0	TE001
059J				4	0	NAV BLOCK IN COMPLETE on first 4 shots
						Program in lower window restarted
			1446:00	5	5	OK!
			1453:01	26	26	TE001 SR001
				58	58	TE001 SR001
1059	OFF C	1507:01	68	68		IF 046
1060	ON E	1507:21	69	69		TE001
1060	OFF E	1529:21	135	135		
1061	ON C	1529:41	136	136		TE001
1061	OFF C	1551:41	202	202		
1062	ON E	1552:01	203	203		TE001
			216	216		TE001
1062	OFF E	1614:01	269	269		
1063	ON C	1614:21	270	270		TE001
1063	OFF C	1636:21	336	336		
1064	ON E	1636:41	337	337		TE001
1064	OFF E	1658:41	403	403		
1065	ON C	1659:01	404	404		TE001
			463	463		TE001
1065	OFF C	1721:01	470	470		
1066	ON E	1721:21	471	471		TE001
1066	OFF E	1743:21	537	537		

CAL DATE/JO	TAPE	ON / OFF	TIME	FILE	SP	COMMENTS
Feb 28 1991	1067	ON C	1743:41	538	538	TE 001
	1067	OFF C	1805:41	604	604	
059	1068	ON E	1806:01	605	605	TE 001
			610	610	TE 001	SR 001
			627	627	TE 001	SR 001
			646	646	TE 001	SR 001
	1068	OFF E	1828:01	671	671	TE 006 SR 006 *
	1069	ON C	1828:21	672	672	TE 001
	1069	OFF C	1850:21	738	738	TE 002 SR 001
	1070	ON E	1850:41	739	739	TE 001
	1070	OFF E	1912:41	805	805	
	1071	ON C	1913:01	806	806	TE 001
			865	865	TE 001	SR 001
	1071	OFF C	1935:02	872	872	
	1072	ON E	1935:22	873	873	TE 002 SR 001
	1072		877	877	TE 001	
	1072	OFF E	1957:22	939	939	
	1073	ON C	1957:42	940	940	TE 001
	1073	OFF C	2019:42	1006	1006	
	1074	ON E	2020:02	1007	1007	TE 001
	1074	OFF E	2042:02	1073	1073	
	1075	ON C	2042:22	1074	1074	TE 001

CAL DATE/SD	TAPE	ON / OFF	TIME	FILE	SP	COMMENTS
059 28 Feb	1075			1090 1097	1090 1097	AS0010
91	1075	OFF C	2104:22	1140	1140	
	1076	ON E	2104:42	1141	1141	TE001
				1146	1146	TE001
	1076	OFF E	2126:42	1207	1207	
	1077	ON C	2127:02	1208	1208	TE001
				1213	1213	TE001
	1077	OFF C	2149:02	1274	1274	
	1078	ON E	2149:22	1275	1275	TE001
				1321	1321	TE001 SR001
				1327	1327	TE001 SR001
	1078	OFF E	2211:22	1341	1341	
	1079	ON C	2211:42	1342	1342	TE001
	1079	OFF C	2233:42	1408	1408	
	1080	ON E	2234:02	1409	1409	TE001
				1414	1414	TE001 SR001
	1080	OFF E	2256:02	1475	1475	
	1081	ON C	2256:22	1476	1476	TE001
				1530	1530	TE001 SR001
	1081	OFF C	2318:22	1542	1542	
	1082	ON E	2318:42	1543	1543	TE001
			2320:22	1548	1548	TE001 SR001

CAL DAY/JO	TAPE	ON / OFF	TIME	FILE	SP	COMMENTS
059 28 Feb 91	1082	Off E	2340:42	1609	1609	
	1083	On C	2341:02	1610	1610	TE 001
060	1083	off C	000302	1676	1676	
1 March	1084	on E	000322	1677	1677	TE 001
1991	1084	off E	0025:22	1743	1743	
	1085	On C	0025:42	1744	1744	TE 001
	1085	off C	004742	1810	1810	
	1086	on E	004802	1811	1811	TE 001
	1086	off E	0110:02	1877	1877	
	1087	On C	0110:22	1878	1878	TE 002
			013222	1919	1919	TE 001, SP 001
	1087	off C	013222	1944	1944	
	1088	on E	013242	1945	1945	TE 001
			1949-1952	1949-1952		AS 0010
	1088	off E	015442	2011	2011	
	1089	on C	015502	2012	2012	TE 001
	1089	off C	021702	2078	2078	
	1090	on E	021722	2079	2079	TE 001
	1090	off E	023922	2145	2145	
	1091	on C	023942	2146	2146	TE 001
060	1091	off C	030142	2212	2212	
1 March	1092	on E	030202	2213	2213	

1991

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CAL DAY/50	TAPE	ON / OFF	TIME	FILE	SP	COMMENTS
066	1092	E	030722	2229	2229	TE001
1 March	1092	OFF	032322	2277	2277	TE001 SR001
1991	1092	OFFE	032402	2279	2279	
	1093	ONC	032422	2280	2280	TE001
	1093	OFFE	034622	2286	2286	TE001
	1093	OFFC	034622	2346	2346	
	1094	ONE	034642	2347	2347	TE001
	1094	OFFE	040842	2413	2413	
	1095	ONC	040902	2414	2414	TE001
				2479	2479	TE001
	1095	OFFC	043102	2480	2480	
	1096	ONE	043122	2481	2481	TE001
	1096	OFFE	045323	2547	2547	
	1097	ONC	045343	2548	2548	TE001
		0500				Guns 1-2 at 10 min angle
	1097	OFFC	051543	2614	2614	
	1098	ONE	051603	2615	2615	TE001 Guns 1 & 2 back-up
			053803	2677	2677	TE001 SR001
	1098	OFFE	053803	2681	2681	
	1099	ONC	053823	2682	2682	TE001
060	1099	OFFC	060023	2748	2748	TE001 SR001
1 March	1100	ONE	060043	2749	2749	TE001

1991

CAL DAY/JO	TAPE	ON / OFF	TIME	FILE	SP	COMMENTS
060J	1100	ONE	060043	2749	2749	TE001
2 March			2791	2791	AS0010	→ ^{TD} SP 2795
1991	1100	OFF E	062243	2815	2815	
	1101	ON C	062303	2816	2816	TE001
			2817	2817	TE001	SR001
	1101	OFF C	064503	2882	2882	
	1102	ON E	064523	2883	2883	TE001
	1102	OFF E	070723	2949	2949	TE001 SR001
	1103	ON C	070743	2950	2950	TE001
	1103	OFF C	072943	3016	3016	
	1104	ON E	073002	3017	3017	TE001
	1104	OFF E	075203	3083	3083	
	1105	ON C	075223	3084	3084	TE001
			3113	3113	TE001	
	1105	OFF C	081423	3150	3150	
	1106	ON E	081443	3151	3151	TE001
			3154	3154	TE001	SR001
	1106	OFF E	083643	3217	3217	
	1107	ON C	083703	3218	3218	TE001
			3253	3253	TE001	SR001
	1107	OFF C	085903	3284	3284	
	1108	ON E	085923	3285	3285	TE001

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CAL DATE/JO	TAPE	ON / OFF	TIME	FILE	SP	COMMENTS
0605	1108	OFF E	0921:23	3351	3351	
MARCH 19/1	1109	ON C	0921:43	3352	3352	TE001
	1109	OFF C	0943:43	3418	3418	
	1110	ON E	0944:03	3419	3419	TE001
	1110	OFF E	1006:03	3485	3485	
	1111	ON C	1006:23	3486	3486	TE001
	1111	OFF C	1028:23	3552	3552	
	1112	ON E	1028:43	3553	3552	TE001
			3557 - 3559	3557 - 3559	AS0010	
	1112	OFF E	1050:43	3619	3619	TE001 SROO1
	1113	ON C	1051:03	3620	3620	TE001
	1113	OFF E	1051:03	3620	3620	TE001
	1113	OFF C	1113:03	3686	3686	
	1114	ON E	1113:23	3687	3687	
	1114	OFF E	1135:23	3753	3753	
	1115	ON C	1135:43	3754	3754	TE002 SROO1
				3755	3755	TE002 SROO2
				3757	3757	TE001 SROO1
				3759	3759	TE003 SROO2
				3763/64/67	3763/64/67	TE001 SROO1
	1115	OFF C	1142:03	3772/3773	3772/3773	TE001 SROO1 3773 last on tape
	1116	ON E	1142:23	3774	3774	

 enough bad records,
A tapes.

CAL DATE/JS	TAPE	ON / OFF	TIME	FILE	SP	COMMENTS
11 March 1991 060	1116	off E	1204:23	3840	3840	
	1117	On C	1204:43	3841	3841	TE001 Sonobuoy ³⁴ launched
	1117	off C	122643	3907	3907	File 3867
	1118	on E	122703	3908	3908	TE001
	1118	off E	124903	3974	3974	
				—	3975	Tape not ready, shot missed
	1119	on C	124943	3975	3976	TE001
				3977/78/79	3978/79/80	TE001/TE001/TE002
				3981/3987	3982/3988	TE001/TE001 SR001
				3991	3992	TE057 SR001
				3992	3993	TE010
				3994	3995	TE002
				3995	3996	TE001
				3996	3997	TE003 SR003
	1119	off C	125703	3998	3998	Tape D'd. too many errors
	1120	on E	125723	3998	3999	TE001
	1120	off E	131923	4064	4065	
	1121	on C	131943	4065	4066	TE001
	1121	off C	1342:03	4131	4132	
	1122	on E	1342:03	4132	4133	TE001
			134944	4155	4156	Guns 1,2 offline
			135744	4179	4180	Guns 1,2 online
	1122	off E	140404	4198	4199	

CAL DAY/JO	TAPE	ON / OFF	TIME	FILE #	SP	COMMENTS
1 Mar 91 060	1123	on C	140424	4199	4200	TE001
			140824	4211	4212	AS0010 ↓
	1123	off C	1426:24	4265	4266	
	1124	on E	1426:44	4266	4267	TE001 AS0010
	1124	off E	1448:44	4332	4333	
	1125	on C	1449:04	4333	4334	TE001
				4334	4335	TE001 SR001
	1125	OFF C	1511 04	4399	4400	
	1126	ON E	151124	4400	4401	TE 001
	1126	OFF E	153324	4466	4467	
	1127	ON C	153344	4467	4468	TE 001
	1127	OFF C	155544	4533	4534	
	1128	ON E	155604	4534	4535	TE 001
	1128	OFF E	161804	4600	4601	
	1129	ON C	161824	4601	4602	TE 001
	1129	OFF C	164024	4667	4668	
	1130	ON E	164044	4668	4669	TE 001
				4721	4722	TE 001 SR 001
	1130	OFF E	170244	4735	4736	IF01
	1131	ON C	170304	4736	4735	TE001
	1131	OFF C	172444	4800	4801	

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WEST ANTARCTIC PENINSULA

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CAL DAY/50	TAPE	ON / OFF	TIME	FILE #	SP	COMMENTS
060J, 1 Mar	1132	ON E	172504	4801	4802	TE 001
	1132	OFF E	174644	4866	4867	
	1133	ON C	174704	4867	4868	TE 001
	1133	OFF C	180844	4932	4933	
	1134	ON E	180904	4933	4934	TE 001
	1134	OFF E	183044	4998	4999	
	1135	ON C	183104	4999	5000	TE 001
				5017	5018	TE 002 SR 002
	1135	OFF C	185244	5064	5065	
	1136	ON E	185304	5065	5066	TE 001
	1136	OFF E	191444	5130	5131	
	1137	ON C	191504	5131	5132	TE 001
	1137	OFF C	193644	5196	5197	
	1138	ON E	193704	5197	5198	TE 001
	1138	OFF E	195844	5262	5263	
	1139	ON C	195904	5263	5264	TE 001
				5276	5277	TE 001 SR 001
	1139	OFF C	202044	5328	5329	
	1140	ON E	202104	5329	5330	TE 002 SR 001
	1140	OFF E	2042:44	5394	5395	
	1141	ON C	2043:04	5395	5396	TE 001
	1141	OFF C	2104:44	5460	5461	

CAL DATE/SD	TAPE	ON / OFF	TIME	FILE	SP	COMMENTS
060/01 MAR 91	1142	ON E	2105:04	5461	5462	TE 001
	1142	OFF E	2126:44	5526	5527	
	1143	ON C	2127:04	5527	5528	TE 001
	1143	OFF C	2148:44	5592	5593	
	1144	ON E	2149:04	5593	5594	TE 001
	1144	OFF E	2210:44	5658	5659	
	1145	ON C	2211:04	5659	5690	TE 001
	1145	OFF C	2232:44	5724	5725	
	1146	ON E	2233:04	5725	5726	
	1146	OFF E	2254:44	5790	5791	TE 001
	1147	ON C	2255:04	5791	5792	TE 001
	1147	OFF C	2316:45	5840 5856	5841 5857	TE 002 SP 002
	1148	ON E	2317:05	5857	5858	TE 001
	1148	OFF E	2338:45	5922	5923	
	1149	ON C	2339:05	5923	5924	} TAPE WRITTEN @ 1600 BPI
	1149	OFF C	2341:45	5931	5932	
	1150	ON E	2342:05	5932	5933	
061 2 March 91	1150	OFF E	0003:45	5997	5998	
	1151	ON C	0004:05	5998	5999	TE 001
	1151	OFF C	0005:45	6063	6064	
	1152	ON E	0026:05	6064	6065	TE 001
	1152	OFF E	0047:45	6129	6130	

CAL DAY/JO	TAPE	ON / OFF	TIME	FILE #	SP	COMMENTS
061/2 March 91	1153	On C	0048:05	6130	6131	TE001
	1153	off C	010945	6195	6196	
	1154	on E	011005	6196	6197	
	1154	off E	0131:45	6261	6262	
	1155	On C	0132:05	6262	6263	} Tape written at 1600bp TE002 SR002
	1155	off C	0133:25	6266	6267	
	1156	On E	0133:45	6267	6268	} Tapes re-cycled - so no tape 1155
			013845	6282	6283	
						TE001 SR001
	1156	off E	0155:25	6332	6333	
	1157	on C	015545	6333	6334	} one shot @ wrong density
	1157	off C	015545	6333	6334	
	1158	on C	015625	6334	6335	} lost
	1158	off C	015745	6338	6340	
						still @ wrong dens. same
						physical reel as 1157 & 1155
	1159	on E	015805	6339	6341	TE001
				6353	6355	TE001
	1159	off E	0219:45	6404	6406	
	1160	On C	0220:05	6405	6407	TE001
			022425	6418	6420	guns 3,4 offline
			023005	6435	6437	guns 3,4 online
	1160	off C	024145	6470	6472	TE001
	1161	on E	024205	6471	6473	TE001
	1161	off E	030345	6536	6538	

CAL DAY/DO	TAPE	ON / OFF	TIME	FILE	SP	COMMENTS
0615, 2M	1162	ONC	030405	6537	6539	TE 001
		OFFC	032545	6602	6604	
	1163	ONE	033605	6603	6605	TE 001
	1163	OFFE	034745	6668	6670	
	1164	ONC	034805	6669	6671	TE 001
				6672	6674	TE 001
				6700	6702	AS 0010
				6701	6703	AS 0010
				6711	6713	AS 0010 ⇒ SP 6715
	1164	OFFC	040945	6734	6736	
	1165	ONE	041005	6735	6737	TE 002 SR 001
	1165	OFFE	043145	6800	6802	
	1166	ONC	043205	6801	6803	TE 001
	1166	OFFC	045345	6866	6868	
	1167	ONE	045405	6867	6869	TE 001
	1167	OFFE	051545	6932	6934	
	1168	ONC	051605	6933	6935	TE 001
	1168	OFFC	053745	6998	7000	
	1169	ONE	053805	6999	7001	TE 001
0615				7015	7017	TE 001 SR 001
2 March	1169	OFFE	055945	7064	7066	
1991						

CAL DAY/50	TAPE	ON / OFF	TIME	FILE #	SP	COMMENTS
0615	1170	ONC	060005	7065	7067	TE001
			061204			Quandary boxes failed
						to respond. Reset men
			7125	7127	TE001	
	1170	OFFC	062145	7130	7132	
	1171	ONE	062205	7131	7133	TE001
			7139	7141	TE001	
	1171	OFF E	064345	7196	7198	
	1172	ONC	064405	7197	7199	TE001
			7248	7250	TE001	← 7260 7262 ^{TE001} SR001
	1172	OFFC	070545	7262	7264	
	1173	ONE	070605	7263	7265	TE001
	1173	OFF E	072745	7328	7330	
	1174	ONC	072805	7329	7331	TE001
	1174	OFFC	074945	7394	7396	
	1175	ON E	075005	7395	7397	TE001
	1175	OFF E	081146	7460	7462	
	1176	ONC	081206	7461	7463	TE002 SR001
	1176	OFF E	083346	7526	7528	
	1177	ON E	083406	7527	7529	TE001
	1177	OFF E	085546	7592	7594	
	1178	ONC	085606	7593	7595	TE001

CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
061 ^{MARCH} 291	1178	OFF C	0917:46	7658	7660	
	1179	ON E	0918:06	7659	7661	TE001
	1179	OFF E	0930:46	7724	7726	
	1180	ON C	0940:06	7725	7727	TE001
	1180	OFF C	1001:46	7790	7792	
	1181	ON E	1002:06	7791	7793	TE002 SR001
	1181	OFF E	1023:46	7856	7858	
	1182	ON C	1024:06	7857	7859	TE001
	1182	OFF C	1045:46	7922	7924	
	1183	ON E	1046:06	7923	7925	TE001
					7930	TE001
				7986	7988	TE001 SR001
	1183	OFF E	1107:46	7988	7990	TE001
	1184	ON C	1108:06	7989	7991	TE001
	1184	OFF C	1129:46	8054	8056	TE001
	1185	ON E	1130:06	8054S	80587	TE001 SR001
				8056	8058	TE001 SR001
	1185	OFF E	1151:46	8120	8122	
	1186	ON C	1152:06	8121	8123	TE001
	1186	OFF C	1213:46	8186	8188	
	1187	ON E	1214:06	8187	8189	TE001
	1187	OFF E	1235:46	8252	8254	

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
061 2 March 1991	1188	On C	1236:06	8253	8255	TE001
	1188	Off C	1257:46 1258:06	8318	8320	
	1189	On E	1258:06	8319	8321	TE001
	1189	off E	1319 46	8384	8386	
	1190	on C	13 20 06	8385	8387	TE001
				8405	8408	TE001 SR001
			13 34 46	8429	8431	TE001 SR001
	1190	off C	13 41 46	8450	8452	
	1191	on E	13 42 06	8451	8453	TE001
			13 49 06	8472	8474	TE001 SR001
	1191	Off E	1403:46	8516	8518	TE001 SR001
	1192	On C	1404:06	8517	8519	TE001
	1192	off C	1425 46	8582	8584	
	1193	on E	142606	8583	8585	TE001
	1193	Off E	1447:26	8648	8650	
	1194	On C	1448:06	8649	8651	TE001
	1194	Off C	1509 46	8714	8716	
	1195	On E	1510 06	8715	8717	TE001
	1195	Off E	1531 46	8780	8782	
	1196	On C	1532 06	8781	8783	TE001
				8788	8790	TE001
	1196	Off C	1553 46	8846	8848	

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EW9101 WEST ANTARCTIC PENINSULA

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
0615 2Mar	1197	ON E	155406	8847	8849	TE 001
				8852	8854	TE 007 SR 006 *
				8854	8856	TE 001 SR 001
	1197	OFF E	161546	8912	8914	
	1198	ON C	161606	8913	8915	TE 004 SR 003 *
				8972	8974	TE 001 SR 001
	1198	OFF C	163726	8978	8980	
	1199	ONE	163806	8981	8981	TE 001
	1199	OFF E	165946	9044	9046	
	1200	ON C	170006	9045	9047	TE 001
	1200	OFF C	172147	9110	9112	
	1201	ON E	172207	9111	9113	
	1201	OFF E	174347	9176	9178	
	1202	ON C	174407	9177	9179	TE 001
				9213	9215	TE 002 SR 002
				9218	9217	TE 001 SR 001
				9231	9233	TE 001 SR 001
	1202	OFF C	180527	9242	9244	TE 001
	1203	ON E	180607	9243	9245	
			181947	9284	9286	AS 0010 ⇒ TO SP 9294
0615			182327	9295	9297	TE 002 SR 002
2 MARCH				9305	9307	TE 001 SR 001
1991						

CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
061	1203	OFF E	182747	9308	9310	
2 March	1204	ON C	182827	9310	9309	TE001
1991	1204	OFF C	184947	9374	9376	
	1205	ON E	185007	9375	9377	
	1205	OFF E	191147	9440	9442	
	1206	ON C	192207	9441	9443	
	1206	OFF C	193349	9506	9508	
NO REEL 1207	1207	ON E	193407	9507	9509	TE 129 SR 126
				9508	9510	TE 095 SR 095
	REEL 1207 ABORTED - SR ON FIRST 4 SHOTS - 5 SHOTS MISSED					
	1208	ON C	193547	9512	9514	TE 001
	1208	OFF C	195747	95767	95789	
	1209	ON E	195	9578	9590	TE001 TE001
	1209	OFF E	2019:27	9643	9645	
	1210	ON C	2019:47	9644	9646	TE001
<hr/>						
	1210	OFF C	204127	9709	9711	AS0010 on shots 9672-9709
	1211	ON E	204147	9710	9712	AS0010 TE003 SR007
				9710-9716	9712-9718	AS0010
				9718-9728	9720-9720	AS0010
	1211	OFF E	210327	9775	9777	

CRUISE EW9101 LINE SAP2/1069 NUMBER OF SHIPS 1 THIS SHIP EWING
 CDP ✓ COP _____ AIRGUNS 20 (8385 in³) EXPLOSIVES _____

RECEIVING SHIPS EWING _____
 NUMBER OF TRACES 120 _____
 GROUP SPACING 25M _____
 SHOOTING SHIPS EWING _____
 SHOT INTERVAL 50 _____
 APPROXIMATE SHOT TIME (SEC) 205 _____

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>0615</u> <u>2 MARCH</u> <u>1991</u>	<u>2357:54</u>	<u>66°44.17'S</u>	<u>69°20.34'W</u>	<u>1215</u>	<u>✓</u>
END LINE	<u>0635</u> <u>3 March</u> <u>1991</u>	<u>1613</u> <u>1613:37</u>	<u>65°49.00'S</u>	<u>71°48.905'W</u>	<u>1259</u>	<u>✓</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>EWING</u>	<u>1250M</u>	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
061 2 MAR 91	1215	on C	235754	1	0	TE001
				2	0	
				3	0	
				4	0	
				5	1	
				16/17/18	12/13/14	TE013 / TE015 / TE050
				19/20/21	15/16/17	TE014 / TR028 / TE022
062 3 MAR 91	1215	off C	000527	22/23	18/19	TE050 / TE062 TAPE d'd ~ ⁺ errors
	1216	on E	000547	24	20	TE001
	1216	off E	0028:07	91	87	IF 090
	1217	on C	0028:27	92	88	TE001
	1217	off C	0050 27	158	154	
	1218	on E	0050 47	159	155	TE001
			010247	195	191	TE001 SR001
	1218	off E	0112 47	225	221	TE002 IF004 SR002
	1219	on C	0113 07	226	222	TE001
				270	266	TE001
	1219	off C	0134 47	291	287	
	1220	on E	0135 07	292	288	TE001
				300	296	TE001 SR001
					325	gun 13 (450 in ³) off possible airborne
	1220	off E	0156 47	357	353	

CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
062 3 Mar 91	1221	on C	015707	358	354	TE001
	1221	off C	021848	423	419	gun 13 online
	1222	on E	021908	424	420	TE001
	1222	off E	024048	489	485	
	1223	on C	024108	490	486	TE001
	1223	OFF C	030248	555	551	
	1224	ON E	030308	556	552	TE001
				620	616	TE002 SR002
	1224	OFF E	032448	621	617	
	1225	ON C	032508	622	618	TE001
	1225	OFF C	034648	687	683	
	1226	ON E	034708	688	684	TE001
			035448	703	699	gun 13 off
			035520	704	700	gun 13 on
	1226	OFF E	040848	753	749	
	1227	ON C	040908	754	750	TE001
	1227	OFF C	043048	819	815	
	1228	ON E	043108	820	816	TE001
	1228	OFF E	045248	885	881	
	1229	ON C	045308	886	882	TE001
			045528	893	889	TE001
				924	920	TE001

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EW9101 WEST ANTARCTIC PENINSULA

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
0625	1229	[OFFC]	051448	951	947	
3 March	1230	ON E	051508	952	948	TE 001
91			053008	997	993	GUN #3 off
			053048	999	995	GUN # on
			053408	1009	10096	PULLING GUN 3
	1230	OFF E	053648	1017	1013	
	1231	ON C	053708	1018	1014	TE 001
	1231	OFF C	053848	1003	1079	
	1232	ON E	055908	1084	1080	
				1091	1087	TE 001 SR 001
	1232	OFF E	062048	1149	1145	
	1233	ON C	062108	1150	1146	TE 001
	1233	OFF C	064248	1215	1211	
	1234	ON E	064308	1216	1212	
	1234	OFF E	070448	1281	1277	
	1235	ON C	070508	1282	1278	TE 001
				1285	1281	TE 001
	1235	OFF C	072648	1347 → 1343 →		
	1236	ON E	07348 → 072708	1344 →		TE 001
				1386	1382	TE 002 SR 001
				1400	1396	TE 001 SR 001
				1412	1408	TE 001 SR 001

CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
062 3 MAR 81	1236	OFF E	0748:48	1413	1409	
	1237	ON C	0749:08	1414	1410	TE001
	1237	OFF C	081048	1479	1475	
	1238	ON E	081108	1480	1476	TE001
	1238	OFF C	083248	1545	1541	
	1239	ON C	083308	1546	1542	TE001
	1239	OFF C	085448	1611	1607	
	1240	ON E	085508	1612	1608	
				1662	1666	TE001 SR001
	1240	OFF E	0916:48	1677	1673	
	1241	ON C	0917:08	1678	1674	TE001
	1241	OFF C	0938:48	16743	1739	
	1242	ON E	0939:08	1744	1740	TE001
	1242	OFF E	100048	1809	1805	
	1243	ON C	100108	1810	1806	TE005 SR004
	1243	OFF C	102248	1875	1871	
	1244	ON E	102308	1876	1872	
	1244	OFF E	1044:48	1941	1937	
	1245	ON C	1045:08	1942	1938	TE001
	1245	OFF C	110648	2007	2003	
	1246	ON E	110708	2008	2004	TE001
				2011	2007	TE001

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EW9101 WEST ANTARCTIC PENINSULA

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
06Z 3 MAR '91	1246	Off E	1128:49	2073	2069	
	1247	On C	1129:09	2074	2070	TE001
	1247	Off C	1150:49	2139	2135	
	1248	On E	1151:09	2140	2136	TE001
	1248	Off E	1212:49	2205	2201	
	1249	On C	1213:09	2206	2202	TE001
				2252		TE001
	1249	off C	1234 49	2271	2267	
	1250	on E	123509	2272	2268	TE001
	1250	off E	125649	2337	2333	
	1251	on C	125709	2338	2334	TE001
	1251	off C	131849	2403	2399	
	1252	on E	131909	2404	2400	TE001
	1252	off E	134049	2469	2465	
	1253	on C	134109	2470	2466	TE001
				2481	2477	TE001
	1253	Off C	1402:49	2535	2531	
	1254	On E	1403:09	2536	2532	TE001
				2565	2561	TE001 SR001
	1254	off E	1424 49	2601	2597	
	1255	on C	142509	2602	2598	TE001
			14 41 09	2650	2646	TE001 SR001
			14 45 09	2662	2658	

MULTICHANNEL LINE LOG

PAGE NO. 4CRUISE EW910LINE SAP-31080NUMBER OF SHIPS 1THIS SHIP EWINGCDP ✓

COP _____

AIRGUNS 20 (385)

EXPLOSIVES _____

RECEIVING SHIPS

EWING

NUMBER OF TRACES

120

GROUP SPACING

25m

SHOOTING SHIPS

EWING

SHOT INTERVAL

50mAPPROXIMATE SHOT
TIME (SEC)20s

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>0627</u> <u>3 March 1991</u>	<u>1828:29</u>	<u>65°46.815'S</u>	<u>71°52.050' W</u>	<u>1260</u>	<u>/</u>
END LINE	<u>064J</u> <u>5 March 91</u>	<u>0045:33</u>	<u>67°46.11'S</u>	<u>76°03.59' W</u>	<u>1326</u>	<u>/</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>EWING</u>	<u>~250m</u>				

SOL

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EW9101

WEST ANTARCTIC PENINSULA

PAGE

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
0625	1260	ON C	182829	1	1	TE 001
3 March	1260	OFF C	185709	87	87	IF 027
	1261	ON E	185729	88	88	TE 001
	1261	OFF E	192549	173	173	TE 002 IF 009 SR 001
	1262	ON C	192609	174	174	TE 001
	1262	OFF C	1954:09	258	258	
	1263	ON E	1954:29	259	259	TE 001
				302	302	TE 001
				303	303	TE 001
	1263	OFF E	202229	343	343	
	1264	ON C	202249	344	344	TE 001
	1264	OFF C	2050:50	428	428	
	1265	ON E	2051:10	429	429	TE 001
	1265	OFF E	2019:10	513	513	
	1266	ON C	2019:30	514	514	TE 001
				541	541	TE 001 SR 001
	1266	OFF C	2147:30	598	598	
	1267	ON E	2147:50	599	599	TE 001
	1267	OFF E	2215:50	683	683	
	1268	ON C	2216:10	684	684	TE 001
	1268	OFF C	224410	768	768	
	1269	ON E	224430	769	769	TE 001

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
062J 3 MARCH 91	1269	off E	2312:30	853	853	
	1270	On C	2312:50	854	854	TE 001
			233010	906	906	TE 001
	1270	off C	234050	938	938	TE 001
	1271	on E	234110	939	939	TE 001
	1272	off E	000910	1023	1023	
	1272	on C	000930	1024	1024	TE 001
	1272	off C	0037:30	1108	1108	
	1273	On E	0037:50	1109	1109	TE 001
	1273	off E	010550	1193	1193	
	1274	on C	010610	1194	1194	TE 001
			012410	1248	1248	Guns 1, 2 offline; Tangled.
	1274	off C	013410	1278	1278	
	1275	on E	013430	1279	1279	TE 001
			014350	1307	1307	Guns 1, 2 back on, Gun 20 off
	1275	off E	0202:30	1363	1363	
	1276	On C	0203:10	1364	1364	TE 001
	1276	off C	0230:50	1448	1448	
	1277	On E	0231:10	1449	1449	TE 001
	1277	off E	0259:10	1533	1533	
	1278	On C	0259:30	1534	1534	TE 001
	1278	off C	032730	1618	1618	

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
063 3 March	1279	ON E	032750	1619	1619	
1491			033630	1645	1645	Gun 19 back on
	1279	OFF E	035550	1703	1703	
	1280	UNC	035610	1704	1704	TE 001
				1713	1713	TE001 SR001
				1734	1734	TE001 SR001
				1757	1757	TE001 SR001
				1768	1768	TE001 SR001
	1280	OFF C	042410	1788	1788	
	1281	ON E	042430	1789	1789	(NO TE)
	1281	OFF E	045230	1873	1873	
	1282	ON C	045250	1874	1874	TE001 Sonobuoy 37 deployed
				1909	1909	AS0010 ⇒ SP 1914
				1920	1920	AS0010 ⇒ 1931
				1933	1933	AS0010
			0513--	—	—	Sonobuoy 37a aborted
				1935	1935	AS0010
			051810	1950	1950	Sonobuoy 37 deployed
	1282	OFF C	052050	1958	1958	
	1283	ONE	052110	1959	1959	TE 001
				1966	1966	AS0010
063 3 March 1961				1968	1968	AS0010 ⇒ 1973

CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
063	1283	ONE	—	—	—	
3 March				1986	1986	AS 0010
1991				2017	2017	AS 0010 → TO SP 2027
				2035	2035	AS 0010 → TO SP 2036
				2038	2038	AS 0010 → TO SP 2043
	1283	OFF E	054911	2043	2043	11
	1284	ON E	054931	2044	2044	TE 001 AS 0010 ⇒ SP 2055
				2060	2060	AS 0010 ⇒ SP 2072
				2067	2067	TE 001 SR 001
				2075	2075	AS 0010 ⇒ 2080
				2083	2083	AS 0010
				2089	2089	AS 0010 ⇒ SP 2092
				2099	2099	AS 0010 ⇒ ^{SP} 2100
				2106	2104	AS 0010 ⇒ ^{SP} 2111
				2117	2117	AS 0010 ⇒ ^{SP} 2120
	1284	OFF E	061731	2128	2128	
	1285	ON E	061751	2129	2129	TE 001 AS 0010 ⇒ 2133
	1285	OFF E	064551	2213	2213	
	1286	ON E	064611	2214	2214	TE 001
				2237	2237	AS 0010 ⇒ SP 2240
				2250	2250	AS 0010 ⇒ SP 2254
	1286	OFF E	071411	2298	2298	

CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
003	1287	ON E	071431	2299	2299	.
4 MARCH 91	1287	OFF E	074231	2383	2383	
	1288	ON C	074251	2384	2384	TE 001
	1288	OFF C	081051	2468	2468	
	1289	ON E	081111	2469	2469	TE 001
	1289	OFF E	083911	2553	2553	
	1290	ON C	083931	2554	2554	TE 001
	1290	OFF C	090731	2638	2638	
	1291	ON E	090751	2639	2639	TE 001
	1291	OFF E	093551	2723	2723	
	1292	ON C	093611	2724	2724	TE 001
	1292	OFF C	100411	2800	2800	TE 001
	1293	ON E	100431	2804	2804	TE 001
				2805	2805	TE 001
				2806	2806	TE 001
	1292	OFF C	100411	2808	2808	
	1293	ON E	100431	2809	2809	TE 001
				2815-2822	2815-2822	AS 0010
	1293	OFF E	103231	2893	2893	
	1294	ON C	103251	2894	2894	TE 001
				2919		TE 001 SR 001
				2923		TE 001 SR 001

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EW9101

WEST ANTARCTIC PENINSULA

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
063 4 March 1991	1294	— C		2932	2932	TE001 SRO01
				2952	2952	TE001 SRO01
				2960	2960	TE001 SRO01
	1294	off C	110051	2978	2978	
	1295	on E	110111	2979	2979	TE001
	1295	off E	112911	3063	3063	
	1296	on C	1129:31	3064	3064	TE001
	1296	off C	115731	3148	3148	
	1297	on E	115751	3149	3149	
	1297	off E	1225:51	3233	3233	
	1298	on C	1226:11	3234	3234	TE001
	1298	off C	125411	3318	3318	
	1299	on E	125431	3319	3319	TE001
				3326/27/28	3326/27/28	TE001 SRO01 / TE011 SRO11 / TE001 SRO01
				3359	3359	TE018 SRO18
	1299	off E	1322:31	3403	3403	
	1300	on C	1322:51	3404	3404	TE001
	1300	off C	135051	3488	3488	
	1301	on E	135111	3489	3489	
			135351	3497	3497	Guns 13,14 offline Tangled
			140411	3528	3528	Guns 13,14 online momentarily off again right away
			141131	3550	3550	Guns 13,14 online for real

 on 4
shots
or so

CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
063						
4 Mar 91	1301	cont'd				
		off E	141911	3573	3573	
	1302	on C	141931	3574	3574	TE001
	1302	off C	144731	3658	3658	
	1303	on E	144751	3659	3659	
			150311	3705	3705	gun depth reading > box capacity of (#1 @ 306, 6 wire d box off)
	1			3741	3741	TE001 SR001
	1303	OFF E	151552	3743	3743	
	1304	ON C	151612	3744	3744	TE001
				3754	3754	TE001
	1304	OFF C	154412	3828	3828	
	1305	ON E	161232	3913	3913	
		o	161252	3914	3914	
	1305	ON E	154432	3829	3829	
	1305	OFF E	161232	3913	3913	
	1306	ON C	161252	3914	3914	
	1306	OFF C	164052	3998	3998	
	1307	ON E	164112	3999	3999	
	1307	OFF E	170912	4083	4083	
	1308	ON C	170932	4084	4084	TE001
063	171		171332	4099	4099	Gun #8 Not firing
4 March 1991			171652	4106	4106	-Gun 8 firing again

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
063	1308	ONC	—	—	—	
4 March 1971	1308	OFFC	173732	4168	4168	
	1309	ONE	173753	4169	4169	TE001
	1309	OFFE	180552	4253	4253	
	1310	ONC	180622	4254	4254	TE001
	1310	OFFC	183412	4338	4338	
	1311	ONE	183432	4339	4339	TE001
	1311	OFFE	190232	4423	4423	
	1312	ONC	190252	4424	4424	TE001
				4428	4428	TE001
					4465	TE SR001
					4481	TE SR001
	1312	OFFC	193052	4508	4508	
	1313	ONE	193112	4509	4509	TE001
	1313	OFFE	1959:12	4593	4593	
	1314	ONC	1959:32	4594	4594	TE001
	1314	OFFC	202732	4678	4678	
	1315	ONE	202752	4679	4679	
	1315	OFFE	205552	4763	4763	
	1316	ONC	205612	4764	4764	TE001
	1316	OFFC	212412	4848	4848	
	1317	ONE	212432	4849	4849	TE001

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
063 4 MAR	1317	OFF E	215232	4933	4933	
1991	1318	ON E	215252	4934	4934	TE001
	1318	OFF C	222052	5018	5018	
	1319	ON E	222112	5019	5019	TE001
	1319	OFF E	224912	5103	5103	
	1320	ON C	224932	5104	5104	TE001
	1320	OFF C	231732	5188	5188	
	1321	ON E	231752	5189	5189	
	1321	OFF E	234552	5273	5273	
	1322	ON C	234612	5274	5274	TE001
064 5 MAR 91	1322	OFF C	001413	5358	5358	
	1323	ON E	001433	5359	5359	} Tape drive probs ~ } Δ'd going to } All TELXX SR1XX } Tapes reuse reel
	1323	OFF E	001533	5362	5362	
				5363		
						shot lost (that's lost).
	1324	ON & OFF C	001613	5363	5364	Tape AUTO rewind } 1 shot bad recording
	1325	ON E	001633	5364	5365	} same prob as reel 1323 same reel actually } scrapped it.
	1325	OFF E	001713	5366	5367	
	1326	ON C	001733	5367	5368	TE001 sit. normal
	1326	OFF C	004533	5387	5388	TE001 SR001
	1326	OFF C	004533	5451	5452	
						EOL

CRUISE EW9101LINE SAP 4/1071NUMBER OF SHIPS 1THIS SHIP EWINGCDP ✓

COP _____

AIRGUNS 20 (8385 in³)

EXPLOSIVES _____

RECEIVING SHIPS

Ewing

NUMBER OF TRACES

120

GROUP SPACING

250m

SHOOTING SHIPS

Ewing

SHOT INTERVAL

50mAPPROXIMATE SHOT
TIME (SEC)20sec

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>5 Mar 91 (064)</u>	<u>0320.32</u>	<u>67°45:20'S</u>	<u>16°01:39.8'W</u>	<u>1327</u>	<u>/</u>
END LINE	<u>5 March 91 (064)</u>	<u>1842.35</u>	<u>68°40:32'S</u>	<u>73°33:59'W</u>	<u>1376</u>	<u>/</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>Ewing</u>	<u>~ 250m</u>				

CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
064/5 Feb 1991	1327	On C	031953	1	5915	TE001
March				2	5916	
				3	1	
				34	32	TE002
				38	36	TE002 ⇒ TO SP 37
				47	45	TE005 → SR001
				48	46	TE002
				51	49	TE001 SR001
				52	50	TE008
				53	51	TE023 CHANGED
	1327	OFF C	033733	54	52	TE020 CHANGED TAPE. TOO MANY ERRORS!
	1328	ON E	033753	55	53	
	1328	OFF E	040013	122	120	IF80 @ SP 120
	1328	OFF E	035733	122	120	
	1329	ON C	040033	123	121	TE001
				140	138	TE001
				160	158	TE001
				177	175	TE009
				178	176	TE012
				179	177	TE001
				180	178	TE001
	1329	OFF C	042233	189	187	

CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
0645	1330	ON E	042253	190	188	TE 002 SR 001
5 March	/			242	240	TE 001 SR 001
				246	244	TE 001 SR 001
	1330	OFF E	044453	256	254	
	1331	ON C	044513	257	255	TE 001
	1331	OFF C	050713	323	321	
	1332	ON E	050733	324	322	TE 001
	1332	OFF E	052933	390	388	TE 001 SR 001
	1333	ON C	052953	391	389	TE 001
	1333	OFF C	055153	457	455	
	1334	ON E	055213	458	456	
	1334	OFF E	061413	524	522	
	1335	ON C	061433	525	523	TE 001
				529	527	TE 001
				532	530	TE 001
				533	531	TE 001 SR 001
				550	548	TE 005
				551	549	TE 003 SR 001
				552	550	TE 003
				554	552	TE 001
				555	553	TE 004 SR 001
	1335	OFF C	062453	556	554	TE 003

TWO MANY
ERRORS / Δ TAPE

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
0645	1336	ON E	062513	557	555	
	1336	OFF E	064713	623	621	
	1337	ON C	064733	624	622	TE 001
	1337	OFF C	070933	688 696	688	TE 002 SR002
	1338	ON E	070953	691	689	TE 002 SR001
				697	695	TE 001
	1338	OFF E	073153	757	755	
	1339	ON C	073213	758	756	TE 001
				761	758	TE 001 SR001
				764	762	TE 001 SR001
				776	774	TE 001 SR001
				781	779	TE 001 SR001
				782	780	TE 002 SR002
				822	820	TE 001 SR001
	1339	OFF C	075413	822	822	
	1340	ON E	075433	825	823	
	1340	OFF E	081633	891	889	
	1341	ON C	081653	892	890	TE 001
				928	926	TE 001 SR001
				940	938	TE 001
	1341	OFF C	083853	958	956	
	1342	ON E	083923	959	957	TE 001

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
064	1342	OFF E	0901:13	1025	1023	
5 MARCH	1343	ON C	0901:33	1026	1024	TE 001
1991	1343	OFF C	0923:34	1092	1090	
	1344	ON E	0923:54	1093	1091	TE 001
	1344	OFF E	0945:54	1159	1157	
	1345	ON C	0946:14	1160	1158	TE 001
				1164	1162	TE 001 SR 001
	1345	OFF C	1008:14	1226	1224	
	1346	ON E	1008:34	1227	1225	TE 001
				1273	1271	TE 001 SR 001
	1346	OFF E	1030:34	1293	1291	
	1347	ON C	1030:54	1294	1292	TE 001
				1303	1301	TE 003 SR 003
				1359	1357	TE 001
	1347	OFF C	1052:54	1360	1358	
	1348	ON E	1053:14	1361	1359	TE 001
				1365	1363	TE 001
	1348	OFF E	1115:14	1427	1425	
	1349	ON C	1115:34	1428	1426	TE 001
	1349	OFF C	1137:34	1494	1492	
	1350	ON E	1137:54	1495	1493	TE 001
	1350	OFF E	1159:54	1561	1559	

CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
064 5 MAR 91	1351	On C	1200:14	1562	1560	TE003 SR001
				1567	1565	TE001
				1574	1572	TE001 SR001
				1581	1579	TE012
	1351	off C	1209:14	1589	1587	TE004
						All files have parities from 1581 → 1589 A'd tapes
	1352	On E	1209:34	1590	1588	
	1352	Off E	1231:34	1656	1654	
	1353	On C	1231:54	1657	1655	TE003 SR001
				1658	1656	TE001 SR001
				1661	1659	TE001
				1663	1661	TE001
				1677	1675	TE001
				1678	1676	TE002 SR001
	1353	Off C	1253:54	1723	1721	
	1354	On E	1254:14	1724	1722	TE001
	1354	Off E	1316:14	1790	1788	
	1355	On C	1316:34	1791	1789	TE001
				1796	1794	TE001
			1334	1842	1840	Guns #s 15, 16 switched off for checking. 17 also not firing
				1847	1845	Guns #15 firing again. #16 and 17 still off
	1355	Off C	1338:34	1857	1855	
	1356	On E	1338:54	1858	1856	TE001

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EW9101 WEST ANTARCTIC PENINSULA

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
064 / 5 MARCH 91	1356		1359:54	1921	1919	Gun # 16 firing again. 17 still off.
	1356	Off E		1924	1922	
	1357	On C		1925	1923	TE 001
				1945	1943	TE 001 SR 001
	1357	Off C	1423:14	1991	1989	
	1358	On E	1423:34	1992	1990	TE 145 SR 144
				1993	1991	TE 141 SR 141
				1994	1992	TE 127 SR 127
				1995	1993	TE 075 SR 074
				1996	1994	TE 031 SR 031
				1997	1995	TE 007 SR 007
				1998 1999	1996 1997	TE 005 SR 005 / TE 009 SR 008
	1358	Off E	1426:14	2000	1998	TE 002 SR 002
	1359	On C	1426:34	2001	1999	TE 001
				2018	2016	TE 001
	1359	Off C	1448:34	2067	2065	
	1360	On E	1448:34	2068	2066	TE 001
			1507	—	—	Gun 17 still off (since 1336)
			1508	—	—	17 back on
	1360	Off E	1510:54	2134	2132	
	1361	On C	1511:14	2135	2133	TE 001
	1361	Off C	1533:14	2201	2199	

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
064/	1362	ON E	153334	2202	2200	TE 001 SR 001
5 March				2220	2218	TE 001 SR 001
				2234	2232	TE 001 SR 001
	1362	OFF E	155534	2268	2266	
	1363	ON C	155534	2269	2267	TE 001
				2287	2285	TE 001 SR 001
				2301	2299	TE 001 SR 001
				2320	2318	TE 001 SR 001
	1363	OFF C	161754	2335	2333	
	1364	ON E	161814	2336	2334	TE 001
	1364	OFF E	164044	2408	2400	
	1365	ON C	164034	2463	2468	TE 001
	1365	OFF C	170234	2469	2467	
	1366	ON E	170254	2480	2468	TE 001
				2477	2475	TE 001
				2486	2484	TE 001
				2508	2506	TE 001 SR 001
	1366	OFF E	172451	2536	2534	
	1367	ON C	172514	2537	2535	TE 001
				2563	2561	TE 001
				2571	2589	TE 001
				2594	2592	TE 001 SR 001

CRUISE EW9101LINE JAP-5/1072NUMBER OF SHIPS 1THIS SHIP EwingCDP ✓

COP _____

AIRGUNS 20 (8385.13)

EXPLOSIVES _____

RECEIVING SHIPS

Ewing

NUMBER OF TRACES

120

GROUP SPACING

25m

SHOOTING SHIPS

Ewing

SHOT INTERVAL

60mAPPROXIMATE SHOT
TIME (SEC)20sec

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	(064) <u>5 March 1991</u>	<u>18 51:55Z</u>	<u>68° 40.8' S</u>	<u>73° 32.5' W</u>	<u>1371</u>	<u>/</u>
END LINE	<u>5 March 1991</u> (064 J)	<u>23 40:15Z</u>	<u>68° 39.70' S</u>	<u>72° 22.76' W</u>	<u>1383</u>	<u>/</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>Ewing</u>	<u>2250m</u>				

SAP-5/1072

CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
0645	1371	ON C	185755	1	1	TE 001
5 March					40	001 SR 001
					41	001 00 1
					43	002 00 2
					44	001 00 1
					45	001 00 1
					47	003 00 1
					50	002 00 1
					54	002 00 1
					55	001 00 1
					56	001 00 1
					57	005 00 2
					58	004 00 1
					59	009 00 1
					60	010 00 1
	1371	OFF C	191215		62	016 00 1
	1372	ON E	191235		63	TE 001
	1372	OFF E	193455		130	IF 084
	1373	ON C	193515	131	131	TE 001
	1373	OFF C	195715	197	197	
	1374	ON E	195735	198	198	TE 001
	1374	OFF E	201935	264	264	20022-20062 Port guns hit by ice

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2

CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
19045	1375	ON C	201955	265	265	TE 001
5 March 91					271	TE 001
					316	TE 001 SR 001
	1375	OFF C	204155	331	331	
	1376	ON E	204215	332	332	
					344	TE 001 SR 001
	1376	OFF E	210415	398	398	
	1377	ON C	210435	399	399	TE 001
				400	402	TE 001 SR 001
					443	TE 001 SR 001
	1377	OFF C	212635	465	465	
	1378	ON E	212655	466	466	
	1378	OFF E	214855	532	532	
	1379	ON C	214915	533	533	TE 008 SR 005
					536	TE 001
					542	TE 001 SR 001
					550	TE 001
					551	TE 001
					563	TE 001
	1379	OFF C	2211:15	599	599	
	1380	ON E	2211:35	600	600	TE 001
	1380	OFF E	2233:35	666	666	

[illegible]

CRUISE EW9101LINE SAP6/1073NUMBER OF SHIPS 1THIS SHIP EWINGCDP ✓

COP _____

AIRGUNS 20 (8385 in³)

EXPLOSIVES _____

RECEIVING SHIPS

EWING

NUMBER OF TRACES

120

GROUP SPACING

25m

SHOOTING SHIPS

EWING

SHOT INTERVAL

50m

APPROXIMATE SHOT

20sec

TIME (SEC)

DATE

TIME
GMT

LATITUDE

LONGITUDE

DATATAPE
NO.LOGTAPE
NO.START LINE 064J 5 March '91 2349:1568°39.41'S72°21.17'W1384END LINE 066J 7 March '91 0056:1867°06.29'S76°08.14'W1452

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>EWING</u>	<u>250m</u>	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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EW9101 WEST ANTARCTIC PENINSULA

PAGE

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
064 5 MAR 91	1384	on C	2349:15	01	01	TE001
065 6 MAR 91	1384	off C	0011:35	68	68	IF054
	1385	on E	0011:55	69	69	TE007 SR006
	1385	off E	0033:55	135	135	In heavy ice so maneuvering a lot. Intended heading ~ 325° achieved roughly AT 0025Z
	1386	on C	0034:15	136	136	TE001
	1386	off C	0056:15	202	202	
				—	203	
				—	204	
				—	205	LOST, tape not ready
				—	206	
				—	207/208/209	
	1387	on E	0058:35	203	209	TE001
			0102:35	215	221	TE001 SR001
			0113:35	248	254	TE001 SR001
	1387	off E	0120:35	269	275	
	1388	on C	0120:55	270	276	TE001
	1388	off C	0142:55	336	342	
						Several shots missed because tape on E had been mounted without write-ring (oops!)
	1389	On E	0144:35	337	347	TE001
			0202:55	392	402	TE001 SR001
	1389	off E	0206:35	403	413	
	1390	on C	0206:55	404	414	TE001

SAP 6/1073

EW9101

WEST ANTARCTIC PENINSULA

PAGE 2

CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
65 6 Mar 91	1390	cont'd	off C	022855	470	480
	1391	ON E	022915	471	481	TE001
	1391	off E	025115	537	547	
	1392	ON C	025135	538	548	TE002 SR001
	1392	OFF C	031335	604	604	
	1393	ON E	031355	605	615	TE003 SR001
	12			626	636	TE005 SR005
	1393	OFF E	033556	671	681	
	1394	ON C	033616	672	682	TE001
				677	687	TE003 SR001
				739	739	TE001 SR001
	1394	OFF C	035816	738	748	
	1395	ON E	035836	739	749	TE001 SR001
	1395	OFF E	042036	805	815	TE001
	1396	ON C	042056	806	816	TE001
				811	821	TE002 SR002
				857	867	TE001
	1396	OFF C	044256	872	882	
	1397	ON E	044316	873	883	TE001
	1397	OFF C	050516	890	900	TE001 SR001
	1397	OFF E	050516	939	949	
	1398	ON C	050536	946	950	TE001

CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
065	1398	ONC	—	—	—	
6 MARCH	1398	OFFC	052736	1006	1016	
1991	1399	ONE	052756	1007	1017	TE001
	1399	OFFC	054956	1016	1026	TE001
	1399	OFFE	054956	1073	1083	
	1400	ONC	055016	1074	1084	TE001
	1400	OFFC	061216	1140	1150	
	1401	ONE	061236	1141	1151	TE001
	1401	OFFE	063436	1207	1217	
	1402	ONC	063456	1208	1218	TE001
	1402	OFFC	065656	1274	1284	
	1403	ONE	065716	1275	1285	TE001
	1403	OFFE	071916	1341	1351	
	1404	ONC	071936	1342	1352	TE001
				1386	1396	TE001
	1404	OFFC	074136	1408	1418	—
	1405	ONE	074156	1409	1419	TE004 SR003
	1405	OFFE	080356	1475	1485	
	1406	ONC	080416	1476	1486	TE003 SR001
	1406	OFFC	082816	1542	1552	
	1407	ONE	082636	1543	1553	
				1573	1583	TE001 SR001

CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
065	1407	OFF E	084836	1609	1619	
6 MAR. 91	1408	ON C	084856	1610	1620	TE001
				1624	1634	TE001 SR001
	1408	OFF C	091056	1676	1686	
	1409	ONE	091116	1677	1687	TE001
	1409	OFF E	091336	1743	1753	
	1410	ON C	093336	1744	1754	TE001
				1780-84	1790-94	AS0010
				1786-88	1796-99	AS0010
				1860	1810	AS0010 TE001
	1410	OFF C	095536	1801-10	1811-20	AS0010
	1411	ON E	095556	1811	1821	TE001 AS0010
	1411	OFF E	101756	1877	1887	AS0010 on every shot
	1412	ON C	101816	1878	1888	AS0010 TE001
				1937	1947	TE001 TE001 SR001 AS0010
	1412	OFF C	1040:16	1944	1954	
	1413	ON E	1040:36	1945	1955	TE 001
	1413	OFF E	1102:36	2011	2021	
	1414	ON C	1102:56	2012	2022	TE 001
				2028	2038	TE 001
	1414	OFF C	1124:56	2078	2088	
	1415	ON E	1125:16	2079	2089	TE 001

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EW9101 WEST ANTARCTIC PENINSULA

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
065 / 6 March 91	1415	Off E	1147:16	2145	2155	As 0010 continues
	1416	On C	1147:36	2146	2156	TE 001
	1416	Off C	1209:36	2212	2222	
	1417	On E	1209:56	2213	2223	TE 001
	1417	Off E	1231:56	2279	2289	
	1418	On C	1232:16	2280	2290	TE 001
				2312	2322	TE 001 SR 001
				2325	2335	TE 001 SR 001
	1418	Off C	1254:17	2346	2356	
	1419	On E	1254:37	2347	2357	TE 001
	1419	Off E	1316:37	2413	2423	
	1420	On C	1316:57	2414	2424	TE 001
	1420	Off C	1338:57	2480	2490	
	1421	On E	1339:17	2481	2491	
	1421	Off E	1401:17	2547	2557	
	1422	On C	1401:37	2548	2558	TE 001
	1422	Off C	1423:37	2614	2624	
	1423	On E	1423:57	2615	2625	TE 001
				2627	2637	TE 001 SR 001
	1423	Off E	1445:57	2681	2691	✓
	1424	On C	1446:57	2682	2694	TE 088 2 shots missed - tape not loaded correctly
				2683- 2687	2695- 2699	Tape errors on every shot

CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
065 6 March '91	1424 1424	Off C	1448:57	2688	2700	TE 098 AS0010 continues
	1425 1425	On E	1449:17	2689	2701	TE 001
	1425	OFF E	1511:17	2755	2767	
	1426	ON E	1511:37	2756	2768	TE 001
	1426	OFF E		2788 2787	2794	TE 001 SR 001
	1426	OFF E	1533:37	2822	2834	
	1427	ON C	1533:57	2823	2835	TE 001
				2859	2871	TE 001 SR 001
	1427	OFF E	1555:57	2889	2901	
	1428	ON C	1556:17	2890	2902	TE 001 STREAMER BEGINNING TO ACT UP
			1612:17	2838	2950	Gun 16 down
	1428	OFF C	1618:17	2968	2956	
	1429	ON E	1618:37	2969	2957	TE 001
	1429			2962	2974	TE 001 SR 001
	1429	OFF E	1640:37	3023	3035	
	1430	ON C	1640:57	3024	3036	TE 001
			1649:17	—	—	GPS NAV back
	1430	OFF C	1702:57	3090	3102	
	1431	ON E	1703:17	3091	3103	TE 001
				3092	3104	TE 002 SR 002
				3094	3106	TE 002 SR 002
				3097	3109	TE 003 SR 003

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EW9101 WEST ANTARCTIC PENINSULA

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
0655	1431	OFF E	170617	3100	3112	A TAPE / TOO MANY ERRORS AS0010
5 March	1432	ON C	170637	3101	3113	TE 001
91	1432	OFF C	172837	3167	3179	↓
	1433	ON E	172857	3168	3180	TE 001
	1433	OFF E	175057	3234	3246	↓
	1434	ON C	175117	3235	3247	TE 001
		~ 1800				Gun 13 having probs (N, L, E, on) Brought down
	1434	OFF C	181317	3301	3313	↓
	1435	ON E	181337	3302	3314	TE 001
			0325 0337			→ between next shot, had
			3338			a "MISSED NC" error message
			3338	3351	TE 001	SR 001
	1435	OFF E	183557	3368	3381	↓
	1436	ON C	183617	3369	3382	TE 001
	1436	OFF C	185817	3435	3448	↓
	1437	ON E	185817	3436	3449	TE 001
			3441	3454	TE 001	SR 001
	1437	OFF E	1920:37	3502	3515	↓
	1438	ON C	1920:57	3503	3516	TE 001
			193617	3549	3562	Gun #13 in H2O again
	1438	OFF C	194257	3569	3582	AS0010 on every shot
	1439	ON E	1943	3570	3583	AS0010 TE 001

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WEST ANTARCTIC PENINSULA

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
065J	1439	— E		3633	3646	TE001 SR001 AS0010
5 March	1439	OFF E	2005:17	3636	3649	AS0010 oneven shot
1991	1440	ON C	2005:37	3637	3656	TE001 AS0010
	1440	OFF C	2027:37	3703	3716	
	1441	ON E	2027:57	3704	3717	TE 001
	1441	OFF E	2049:57	3770	3783	SP 3773 F 3760 TE 001
	1442	ON C	2050:17	3771	3784	TE 001
	1442	OFF C	2112:17	3837	3850	
	1443	ON E	2112:37	3838	3851	
	1443	OFF E	2134:37	3914	3917	
	1444	ON C	2134:57	3905	3918	TE001
	1444	OFF C	2156:58	3971	3984	
	1445	ON E	2157:18	3972	3985	TE001
	1445	OFF E	2229:18	4038	4051	
	1446	ON C	2219:38	4039	4052	TE001
	1446	OFF C	2241:38	4105	4118	
	1447	ON E	2241:58	4106	4119	TE001
	1447	OFF E	2303:58	4172	4185	
	1448	ON C	2304:18	4173	4186	TE001
			2310:18	4191	4204	TE001 SR001
			2316:38	4210	4223	TE001 SR001
	1448	OFF C	2326:18	4239	4252	

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WEST ANTARCTIC PENINSULA

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[illegible]

CRUISE BN9101LINE SAB7/1074NUMBER OF SHIPS 1THIS SHIP EWINGCDP ✓

COP _____

AIRGUNS 20 (8385 in³)

EXPLOSIVES _____

RECEIVING SHIPS

EWING

NUMBER OF TRACES

120

GROUP SPACING

25m

SHOOTING SHIPS

EWING

SHOT INTERVAL

50m

APPROXIMATE SHOT

TIME (SEC)

20sec

DATE

TIME
GMT

LATITUDE

LONGITUDE

DATATAPE
NO.LOGTAPE
NO.START LINE 066J 7 Mar 91 0106:5867° 05.48'S76° 08.56' W1453END LINE 066J 145766° 19.985'S74° 02.395' W 14857 MAR 91DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>EWING</u>	<u>250m</u>				

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EW9101 WEST ANTARCTIC PENINSULA

PAGE

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
066 / 7 March 91	1453	ON C	010658	01	01	TE001 Starting line while AS0010 Still turning, will ANNOTATE when streamer straight on course
			012538	57	57	boat steady on course 068 ~ give streamer 20 more min.
	1453	OFF C	013538	87	87	EF028 AS0010
	1454	ON E	013558	88	88	TE001
	1454	OFF E	0204:18	173	173	
	1455	ON C	0204:38	174	174	TE001
	1455	OFF C	023258	259	259	
	1456	ON E	023318	260	260	TE001
	1456	OFF E	030138	345	345	
	1457	ON C	030158	346	346	TE002 SR001
				347	347	TE001 SR001
				362	362	TE001
				390	390	TE001
				395	395	SR002
	1457	OFF C	033018	431	431	
	1458	ON E	033038	432	432	TE001
	1458	OFF E	035858	517	517	
	1459	ON C	035918	518	518	TE001
	1459	OFF C	042738	603	603	
	1460	ON E	042758	604	604	TE001
	1460	OFF E	045618	689	689	AS0010

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EW9101 WEST ANTARCTIC PENINSULA

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
D66J	1461	ON C	045638	690	690	TE001 ASC010
27 March			0500			STREAMER Becoming unstable (35 kts wind)
1991				728	728	TE001
				774	774	TE001 SROO1
	1461	OFF C	052458	775	775	
	1462	ONE	052518	776	776	TE001
			0543			Gun 12 1/2 down due to entanglement
	1462	OFF E	055338	861	861	
	1463	ON C	055358	862	862	TE001
				865	865	TE002 Gun 13 down
				870	870	TE001
				871	871	TE001
				878	878	TE001
				884	884	TE001
				891	891	TE005
				893	893	TE001
				894	894	TE003
				896	896	TE001
				902	902	TE001
D66J				903	903	TE002
7 March	1463	OFF C	061218	917 917	917 917	TE003 ABORT TAPE
1991	1464	ON E	061238	918	918	TE001

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~~SAP 01/1075~~

AS0010

CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
066J	1464	ON E	—	—	—	
7 March	1464	OFF E	064058	1003	1003	
1991	1465	ON C	064118	1004	1004	TE001
			064138			Guns 11, 12, 13 Back On
				1005	1005	TE001
				1007	1007	TE003 SR001
				1013	1013	TE001
				1014	1014	TE007
				1015	1015	TE006
	1465	OFF C	064518	1016	1016	TE005 ABORT
	1466	ON E	064538	1017	1017	TE001
	1466	OFF E	071359	1102	1102	
	1467	ON C	071419	1103	1103	TE001
				1134	1134	TE002 SR001
				1143	1143	TE001 SR001
				1144	1144	TE004
				1164	1164	TE001 SR001
				1169	1169	TE001
				1171	1171	TE001
				1172	1172	TE001
	1467	OFF C	073739	1173	1173	
	1468	ON E	073759	1174	1174	TE001

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EW9101 WEST ANTARCTIC PENINSULA

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
066 7 March 1991	1468	E			1234	TE001
					1256	TE001
	1468	OFF E	080619	1259	1259	TE001
	1469	ON C	080639	1260	1260	TE003 SR002
				1261	1261	TE001 SR001
					1266	TE001
					1269	TE001
					1317	TE003
				1337	1337	TE001
	1469	OFF C	0834:59	1345	1345	
	1470	ON E	0835:19	1346	1346	TE001
					1389	TE001
					1404	TE001
					1409	TE001
					1411	TE001
					1415	TE001
					1422	TE001
	1470	OFF E	090339	1431	1431	
	1471	ON C	090359	1432	1432	TE001
					1432-1433	TE001
					14335-37, 41	TE001
151					1443	TE001 SR001

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EW9101 WEST ANTARCTIC PENINSULA

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
066	1471	— C		1447-8	1447-8	TE001
7 Mar. 91				1449	1449	TE003
					1450	TE001
					1451	TE003
					1456	TE001
					1461, 63	TE001
					1466, 69	TE001
					1470	TE002
					1472, 84	TE001
					1482	TE008
					1485	TE002
					1486	TE006
	1471	OFF C	092219	1487	1487	
	1472	ON E	092239	1488	1488	SR001 TE002
					1558	TE001
	1472	OFF E	095059	1573	1573	
	1473	ON C	095119	1574	1574	TE001
					1602	TE005
					1605	TE002 SR001
					1656	TE001
	1473	OFF C	101939	1659 1659	1659	
	1474	ON C	102139	1660	1665	TE001

← lost 5 shots

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
066 7 March	1474	OFF C	104959	1745	1750	AS0010
1991	1475	ON E	105019	1746	1751	TE001
				1757	1762	TE001
	1475	off E	111839	1831	1836	
	1476	on C	111859	1832	1837	TE001
				1913	1918	TE002
	1476	off C	1147:19	1917	1922	TE001 SR001
	1477	on E	1147:39	1918	1923	TE001
	1477	off E	121559	2003	2008	
	1478	on C	121619	2004	2009	TE001
				2006	2011	TE002 SR002
				2008	2013	TE001 SR001
				2010/2011	2015/2016	TE001 SR001 / TE002 SR001
				2014/2015	2019/2020	TE003 SR003 / TE002 SR001
				2016/2017	2021/2022	TE001 / TE002 SR001
	1478	off C	122119	2019	2024	TE001 SR001
	1479	on E	122139	2020	2025	TE014 SR012 } All shots in between
	1479	off E	122339	2026	2031	TE003 SR003 } Also had TE004 & SR004's
	1480	on C	122359	2027	2032	TE002
				2033/2034	2038/2039	TE001 / TE006
				2037/2038	2042/2043	TE001 / TE001
				2040/41/42	2045/46/47	TE004 / TE004 / TE001

TAPE got better

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
066 7 MAR 91	1480 cont'd			2076	2081	TE002 AS0010
				2089	2094	TE001
	1480	off C	125219	2112	2117	
	1481	on E	125239	2113	2118	TE001
			130139	2140	2145	TE001 SR001 Gun 11 offline ~ not firing
	1481	off E	132059	2198	2203	
	1482	on C	132119	2199	2204	TE001
			133139	2230	2235	TE001
			133339	2236	2241	TE005
			133639	2245	2250	TE001 SR001
			134039	2257	2262	TE001 SR001
			134219	2262	2267	TE001 SR001
			134459	2270	2275	TE001
			134559	2273	2278	TE005 SR002
			134759	2279	2284	TE001
			134859	2282	2287	TE001
			134919	2283	2288	TE001
	1492	off C	134939	2284	2289	
	1493	on E	134959	2285	2290	TE001
	1483	off E	1418:19	2370	2375	missed 2 shots, Tape not loaded.
	1484	on C	1419:19	2371	2378	TE001
				2379/80	2386/87	TE008 / TE001 SR001

CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
066 7 MAR 91	1484	cont'd	142519	2389	2396	Gun 11 back online
			143139	2408	2415	TE001 SR001
	1484	off C	1447.39	2456	2463	TE 001
	1485	On E	1447.59	2457	2464	TE 001
			1457	2485	2492	- started turn
			↑			- did not EOL going thru
	All shots are on turn					thru turn with SINS on
			↓			tape hanging left running
						& correcting data
	1485	OFF E	1517	2539	2546	← tape end

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<i>Ewing</i>	<i>250m</i>				

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
066	1486	ONC	153059	1	1	TE 001 AS 0010
7 March				44	44	TE 001
1991	1486	OFFC	155319	68	68	TE 001 IF 052 SR 001
	1487	ON E	155339	69	69	TE 001 AS 0010
	1.			74	74	TE 001
	1487	OFFG	161540	135	135	
	1488	ONC	161600	136	136	TE 001
				152	152	TE 001 SR 001
				167	167	TE 001 SR 001
				169	169	TE 001 SR 001
				170	170	TE 001 SR 001
				172	172	TE 001 SR 001
				186	186	TE 001 SR 001
				194	194	TE 001 SR 001
	1488	OFFC	163540	195	195	ABORT
	1489	ON E	163600	196	196	TE 001 AS 0010
	1489	OFF E	165800	262	262	
	1490	ONC	165820	263	263	TE 001
	1490	OFFC	172020	329	329	
7 MARCH	1491	ON E	172040	330	330	TE 001 AS 0010 ↓
1991	1491	OFF E	174240	396	396	
066J	1492	174300	397	—	—	
	1492	ONC	174306	397	397	TE 001 :

CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
066J	1492	ON C	—	—	—	AS0010 AS0010
7 March				418	418	TE001 ↓ SR001
1991				432	432	TE001
				436	436	TE001
				438	438	TE001 SR001
				439	439	TE003
				442	442	TE001
				450	450	TE003 SR001
	1492	OFFC	180100	451	451	TE001 ABORTED ↓
	1493	ON E	180220	452	452	TE001 AS0010
				465	465	TE007
	1493	OFFC	182320	518	518	
	1494	ON E	182340	519	519	AS AS0010
				553	553	TE001
				553	553	TE001
				554	554	TE002
				555	555	TE003
				563	563	TE001
				564	564	TE002
				565	565	TE001
066J	1494	OFFC	183940	567	567	Aborted
7 March 1991	1495	ON E	184000	568	568	TE001

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
0665	1495	ONE	—	—	—	From previous page AS0010
7 March	1495	OFF E	190200	634	634	
1991	1496	ON C	190220	635	635	TE 001
				668	668	TE001 SR001
				680	680	TE001
				683	683	TE001 SR001
				686	686	TE001
				689	689	TE002 SR001
				691	691	TE001
				696	696	TE002 SR001
				699	699	TE001
	1496	OFF C	192400	700	700	
	1497	ON E	192420	701	701	TE 001
	1497	OFF E	194620	767	767	
	1498	ON C	194640	768	768	TE001
	1498	OFF C	200840	834	834	
	1499	ON E	200900	835	835	TE001
	1499	OFF E	2031:00	901	901	
	1500	ON C	2031:20	902	902	TE 001
				957	957	TE 001
				959	959	TE 001
				960	960	TE 001

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EW9101 WEST ANTARCTIC PENINSULA

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
066 7 March	1500	— C		8	962	TE001 SR001 AS001 0
1991	1500	OFFC	205200		963	TE002
	1501	ON E	205220	964	964	TE001
					971	TE001 SR001
					1017	TE001
	1501	OFFE	211420	1031	1031	TE001 ← Drive not online, lost 12 shot points
	1502	ON C	211520	1032	1034	TE002 SR001
					1043	TE002
					1052	TE002
					1055	TE001 SR001
					1056	TE010
					1057	TE001
					1058	TE001
					1056	TE004
					1061	TE004
	1502	OFFC	212520	1064	1062	
	1503	ON E	212540	1065	1063	
				1124	1126	TE001 SR001
	1503	OFFE	214740	1129	1131	
	1504	ONC	214800	1130-32	1132	TE001
				1133		TE001 020
				1134		TE008

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
06b = March 1991	1504	— C		1135	1137	TE 010 AS 0010
				1136	1138	009
				1137	1139	006
				1138	1140	004
				1140	1142	002 SR001
				1141	1143	013
				1142	1144	022
	1504	OFF C	215220	1143	1145	✓ 017
	1505	ON E	215240	1144	1146	TE 001
	1505	OFF E	211440	1210	1212	
	1506	ON C	211500	1211	1213	TE 002 SR001
				1239	1241	TE 002 SR002
	1506	OFF C	223700	1277	1279	
	1507	ON E	223720	1278	1280	TE 001
	1507	OFF E	225920	1344	1346	
	1508	ON C	225940	1345	1347	TE 001
			232100	1409	1411	TE 001
	1508	off C	232140	1411	1413	
	1509	on E	232200	1412	1414	TE 001
	1509	off E	234400	1478	1480	
	1510	on C	234420	1479	1481	TE 001
	1510	off C	0006:40	1545	1547	✓

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
067/8 March 91	1511	On E	0006:40	1546	1548	TE 001 AS0010
				1565	1567	TE 018 SR 017
			002200	1592	1594	TE 001 SR 001
	1511	Off E	0028:40	1612	1614	
	1512	On C	0029:00	1613	1615	TE 001
	1512	Off C	0051:00	1679	1681	AS 11 001
	1513	On E	0051:20	1680	1682	TE 001
	1513	Off E	0113:21	1746	1748	
	1514	On C	0113:41	1748	1750	TE 001
	1514	Off C	013541	1819	1815	
	1515	On E	013601	1814	1816	TE 001
			014001	1826	1828	TE 001 SR 001
			014920	1854	1856	TE 001 SR 001
	1515	Off E	015801	1880	1882	
	1516	On C	015821	1881	1883	TE 001
	1516	Off C	0220:21	1947	1949	
	1517	On E	0220:41	1948	1950	TE 001
	1517	Off E	0242:41	2014	2016	
	1518	On C	0243:01	2015	2017	TE 001
	1518	Off C	030501	2081	2083	
	1519	On E	030521	2082	2084	TE 001
	1519	Off E	032741	2148	2150	TE 001
	1520	On C	032741	2149	2151	AS 0010: TE 001

CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
8 March	1520	ON C	033741	2149	2151	TE001 AS0010 (from previous page)
1991				2150	2152	TE001 SR001
067J	1520	OFF C	034941	2215	2217	
	1521	ON E	035001	2216	2218	TE001
	1521	OFF E	041201	2282	2284	
	1522	ON C	041221	2283	2285	TE001
	1522	OFF C	043421	2347	2351	
	1523	ON E	043441	2350	2352	TE001 AS0010
	1523	OFF E	045641	2416	2418	
	1524	ON C	045701	2417	2419	TE001 AS0010
				2421	2423	TE001 SR001
				2445	2447	TE002 SR002
				2452	2454	TE001 SR001
				2466	2468	TE001 SR001
				2467	2469	TE001 SR001
				2482	2482	TE001 SR001
	1524	OFF C	051901	2483	2485	TE001 SR001
	1525	ON E	051921	2484	2486	TE001
				2497	2499	TE001 SR001
	1525	OFF E	054121	2550	2552	
	1526	ON C	054141	2551	2553	TE001
	1526	OFF C	060341	2617	2619	
	1527	ON E	060401	2618	2620	TE001

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
067 8 March 91	1527	ON E	0604:01	2618	2620	TE001
			0618:01			Gun 14 not firing - possibly
	1527	OFF E	0626:01	2686	2686	pulling, ∴ → low pressure
	1528	ON C	0629:21	2685	2687	on other guns on hi it is pulled
				2697	2699	TE001 SR001
				2718	2720	TE001 SR001
	1528	OFF C	0648:21	2751	2753	
	1529	ON E	0648:41	2752	2754	TE001
	1529	OFF E	0710:41	2818	2820	TE001 SR001
	1530	ON C	0711:01	2819	2821	TE001
				2873	2875	TE001
				2876	2878	TE001
	1530	OFF C	0733:01	2885	2887	
	1531	ON E	0733:21	2886	2888	0750Z Gun 14 back in H ₂ O & firing
	1531	OFF E	0755:21	2952	2954	
	1532	ON C	0755:41	2953	2955	TE001
	1532	OFF C	0817:41	3019	3021	
	1533	ON E	0818:01	3020	3022	TE001
	1534	OFF E		3031	3033	TE001 SR001
	15343	OFF E	0840:01	3086	3088	
	15344	ON C	0840:21	3087	3089	TE001
				3089	3091	TE001 SR001

SAP 8 / 1075

9

CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
067	1534	OFF C	0902:21	3153	3155	AS0010
8 March 91	1535	ON E	0902:41	3154	3156	TE001
	1535	OFF E	0924:41	3222	3220	
	1536	ON C	0925:01	3223	3221	TE001
				3273	3275	TE001 SR001
	1536	OFF C	0947:01	3287	3289	
	1537	ON E	0947:21	3288	3290	TE001
	1537	OFF E	1009:21	3354	3356	
	1538	ON C	1009:41	3355	3357	TE001
	1538	OFF C	1031:42	3421	3423	
	1539	ON E	1032:02	3422	3424	TE001
	1539	OFF E	1054:02	3488	3490	TE001 IF 030 SR001
	1540	ON C	1054:22	3489	3491	TE001
	1540	OFF C	1116:02	3554	3556	
	1541	ON E	1116:22	3555	3557	TE001
	1541	OFF E	1138:02	3620	3622	
	1542	ON C	1138:22	3621	3623	
	1542	OFF C	1200:02	3686	3688	
	1543	ON E	1200:22	3687	3689	
	1543	OFF E	1222:02	3752	3754	
	1544	ON C	1222:22	3753	3755	TE001
				3756	3757	TE001 SR001

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EW9101 WEST ANTARCTIC PENINSULA

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[illegible]

CRUISE EW 9101 LINE SAP-9/1076 NUMBER OF SHIPS 1 THIS SHIP EWING
 CDP ✓ COP _____ AIRGUNS 20 (8385 in³) EXPLOSIVES _____

RECEIVING SHIPS EWING _____
 NUMBER OF TRACES 120 _____
 GROUP SPACING 25m _____

SHOOTING SHIPS EWING _____
 SHOT INTERVAL 50m _____
 APPROXIMATE SHOT TIME (SEC) 20sec _____

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>8 March '91 (067J)</u>	<u>1845:02</u>	<u>67°36'00" S</u>	<u>70°54'47" W</u>	<u>1548</u>	<u>/</u>
END LINE	<u>9 March '91 (068J)</u>	<u>1108:44</u>	<u>68°25'20" S</u>	<u>74°48'78" W</u>	<u>1606</u>	<u>/</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>EWING</u>	<u>~250m</u>	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

SAP 9 / 1076

CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
067 8 March 91	1548	ON C	154502	1	1	TE 001 Starting line with all guns on
				30	30 ^{TE} 002	Beginning of line during turn AS 0010 ↓
				53	53	TE 001
				56	56	TE 001
				66	66	TE 001 → TV SP 67
	1548	OFF C	160722	68	68	
	1549	ON E	160742	69	69	TE 001
	1549	OFF E	163001	136	136	IF 024
	1550	ON C	163021	137	137	TE 001
				140	140	TE 001 SR 001
				192	192	TE 001
	1550	OFF C	165222	203	203	AS 0010
	1551	ON E	165242	204	204	AS 0010
	1551			226	226	TE 001 SR 001
	1551	OFF E	171442	270	270	
	1552	ON E	171502	271	271	TE 001
	1552	OFF C	173702	337	337	
	1553	ON E	173722	338	338	TE 001
				363	363	TE 001 SR 001
				365	365	TE 001 SR 001
				405	405	TE 001

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
067	1553	ONE	—	—	—	↓
B March	1553	OFF E	175922	404	404	AS0010
1991	1554	ON C	175942	405	405	TE001 AS0010
	1554	OFF C	182142	471	471	
	1555	ON E	182202	472	472	TE004 SR002
	1555	OFF E	184402	538	538	
	1556	ON C	184422	539	539	TE001
				540	540	TE001 SR001
				562	562	TE001 SR001
	1556	OFF C	190622	605	605	
	1557	ON E	190642	606	606	
				668	668	TE002 SR002
	1557	OFF E	192843	672	672	
	1558	ON C	192903	673	673	TE001
	1558	OFF C	195103	739	739	
	1559	ON E	195123	740	740	TE001
	1559	OFF E	201323	806	806	
	1560	ON C	201343	807	807	TE001
				849/872	849/872	TE001 SR001 TE001
	1560	OFF C	203543	873	873	—
	1561	ON E	203603	874	874	TE014 SR013
				875	875	TE007 SR006

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
067 8 March 1991	1561	— E		876	876	TE002 SR002 874-876 (Loss end of tape)
	1561	OFF E	205803	940	940	
	1562	ONC	205823	941	941	TE001
	1562	OFF E	212023	1007	1007	
	1563	ON E	212043	1008	1008	TE001
	1563	OFF E	214243	1074	1074	
	1564	ONC	214303	1075	1075	TE 146 SR 146
				1076	145	145
				1077	145	145
				1078	144	144
				1079	145	145
	1564	OFFC	214443	1080	1080	145 ABORTED
	1565	ONE	214503	1081	1081	TE001
	1565	OFF E	220703	1147	1147	TE002 SR001
	1566	ONC	220723	1148	1148	TE001
	1566			1169	1169	TE001 SR001
	1566	OFFC	222923	1214	1214	
	1567	ONE	222943	1215	1215	TE001
				1271	1271	TE001
	1567	OFF E	225143	1281	1281	
	1568	ONC	225203	1282	1282	← Lots of TE's
	1568	OFFC	225423	1289	1289	Aborted tape - too many TE's

1564
Aborted -
unreadable
→ No # 1564

THIS PAGE - AS 0010 on every shot

SAP 9/1076

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
067 8 MAR 91	1569	on E	225443	1290	1290	TE001 AS0010
	1569	off E	231643	1356	1356	
	1570	on C	231703	1357	1357	TE001
			232843	1392	1392	TE001 SR001
			232923	1394	1394	TE001
	1570	on C ^{still}	233123	1400	1400	TE001 SR001
	1570	off C	2339:03	1423	1423	
	1571	on E	2339:23	1424	1424	TE 001
	1571	off E	0001:23	1490	1490	
	1572	on C	0001:43	1491	1491	TE 001
	1572	off C	0023:43	1557	1557	
	1573	on E	0024:03	1558	1558	TE 001
	1573	off E	0046 03	1624	1624	
	1574	on C	0046 23	1625	1625	TE001
	1574	off C	0108:23	1691	1691	
	1575	on E	0108:43	1692	1692	TE001
	1575	off E	0130 43	1758	1758	
	1576	on C	0131 03	1759	1759	TE001
	1576	off C	015303	1825	1825	
	1577	on E	015323	1826	1826	
			015443	1830	1830	TE001 SR001
			015623	1835	1835	TE001 SR001

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
068 9 Mar 91			020103	1849	1849	TE003 SR002 AS0010
			020123	1850	1850	TE001 SR001
			020143	1851	1851	TE001 SR001
			020223	1853	1853	TE002 SR001
	1577	Off E	0215:23	1892	1892	
	1578	On C	0215:43	1893	1893	TE001
				1912	1912	TE001
				1916	1916	TE002
				1918	1918	TE001
				1922	1922	TE001
				1926	1926	TE001
			023603	1954	1954	TE001 SR001
	1578	Off C	0237:43	1959	1959	
	1579	On E	0238:03	1960	1960	
	1579	off E	030003	2026	2026	
		off E			2027	missed
	1580	On C	030043	2027	2028	TE001
	1580	OFF C	032243	2093	2094	
	1580	On E	032303	2094	2095	TE001
	1581	OFF E	034503	2160	2161	
	1582	On C	034523	2161	2162	TE002 SR001

CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
068	1582 1583	CNC	—	—	—	From previous page
9 March	1582	OFFC	040723	2227	2228	
1991	1583	ON E	040743	2228	2229	AS 0010
	1583	OFFB	⁰⁴ 040943	2274	2295	✓
	1584	CNC	0430 03	2295	2296	TE001
				2301	2302	— after start TBR 0008 0027(?)
	1584	OFFC	045204	2361	2362	
	1585	ON E	045224	2362	2363	TE001
	1585	OFFE	051424	2428	2429	
	1586	CNC	051444	2429	2430	TE001
				2431	2432	TE001 SR001
				2436	2437	TE001 SR001
				2438	2439	TE001 SADR
	1586	OFFC	05181901	2442	2443	TE001 SR001 ABORTED
	1587	ON E	051924	2443	2444	TE001
	1587	OFFE	054124	2509	2510	
	1588	CNC	054224	250	2513	TE001 (2 pages lost, tape not on line)
	1588	OFFC	060424	2576	2579	
	1589	CNC	060444	2577	2580	TE001
	1589	OFFC	062644	2643	2646	
	1590	ON E	062704	2644	2647	TE010

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EW9101 WEST ANTARCTIC PENINSULA

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
068J	1590			2645	2648	TE 058 AS0010
9 March				2646	2649	TE 103
9				2647	2650	TE 114 SR 001
				2648	2651	TE 002 SR 001
	1590	OFFC	064904	2710	2713	
	1591	ONE	064924	2711	2714	AS0010
				2716	2719	TE002 SR002
				2717	2720	TE001 SR001
				2719	2722	TE001
				2731	2734	TE001 SR001
	1591	OFF E	071124	2777	2780	
	1592	ABORTED AND REUSED - TOO MANY TE'S & SR'S - DRIVE C				
	1593	ON E	071324	2783	2786	TE 001 AS0010
	1594	OFF E	073524	2849	2852	
	1595	ONC	073544	2850	2853	TE 132 SR 001
				2857	54	135 SR 002
				2852	55	090
				2853	56	050 SR 001
				2854	57	092
				2855	58	089 SR 001
	1594	OFFC	073744	2856	59	097 SR 001
	1595	ON E	073804	2857	2860	TE 001

NEW TAPE

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EW9101 WEST ANTARCTIC PENINSULA

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
068J	1595	OFF E	080004	2923	2926	
9 March 91	1596	ON C	080024	2924	2927	TE 141
				2931	2934	TE 131 SROO1
				2943	2946	TE 128 SROO1
				2955	2958	TE 090 SROO1
				2958	2961	TE 130 SROO1
	1596	OFF C	081224	2960	2963	TE 143
	1597	ON E	081244	2961	2964	TE 001
				2997	3000	TE 001 SROO1
	1597	OFF E	083444	3027	3030	
No 1598 1598 tape	1598	ON C	083504	3028	3031	TE 116 SROO1 - TOO MANY TES
	# 1598 REL ABORTED AND REUSED. NO TAPE # 1598					
	1599	ON E	083704	3034	3037	TE 001
	1599	OFF E	083804			
	1599	OFF E	085904	3100	3103	
	1600	ON C	085924	3101	3104	TE 001
				3104	3107	TE 001 SROO1
				3105	3108	TE 001 SROO1
				3108	3111	TE 001 SROO1
	OFF			3112	3115	TE 002 SROO2
	1600	OFF C	090324	3113	3116	
	1601	ON E	090344	3114	3117	TE 001

THIS TAPE - AS DO 10 ON EVERY SHOT

This page - AS0010 on every shotpoint SAP9/1076

EW9101 WEST ANTARCTIC PENINSULA

PAGE 9

CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
068J	1601	— E		3163	3166	TE 001
9 March 91	1601	OFF E	092544	3180	3183	
	1602	ON C	092604	3181	3184	TE 001
				3204	3207	TE 001
				3216	3218	TE 001
	1602 OFF E			3244	3247	TE 001 SR 001
				3246	3249	TE 001 SR 001
	1602	OFF C	094804	3247	3250	TE 001 SR 001
	1603	ON E	094824	3248	3251	TE 001
	1603	OFF E	101024	3314	3317	
	1604	ON C	101044	3315	3318	TE 001
	1604	OFF C	103244	3381	3384	
	1605	ON E	103304	3382	3385	TE 001
	1605	OFF E	105504	3448	3451	
	1606	ON C	105524	3449	3452	TE 001
				3459	3462	TE 001 SR 001
				3468	3471	TE 001 SR 001
	1606	off C	110844	3489	3492	EOL

First time drive
C has acted
recently in
242 hours!

CRUISE EW9101LINE SAP-10/1077NUMBER OF SHIPS 1THIS SHIP EWINGCDP ✓

COP _____

AIRGUNS 20 (8385 m³)

EXPLOSIVES _____

RECEIVING SHIPS

EWING

NUMBER OF TRACES

120

GROUP SPACING

25m

SHOOTING SHIPS

EWING

SHOT INTERVAL

50mAPPROXIMATE SHOT
TIME (SEC)20sec

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>068J (9 March 91)</u>	<u>1114:24</u>	<u>68° 25.44' S</u>	<u>74° 49.78' W</u>	<u>1607</u>	<u>/</u>
END LINE	<u>081J (10 March 91)</u>	<u>0737:06</u>	<u>69° 26.1231' S</u>	<u>78° 34.4639' W</u>	<u>1665</u>	<u>/</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>EWING</u>	<u>~250m</u>				

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
068 9 Mar 91	1607	ON C	11 24 24	1	0	TE001
			11 34 44	2	0	TE002 SRO02
			11 16 24	7	0	All shots OK, so SP #'s
			11 16 44	8	8	everything straightened out
			11 17 44	11	11	TE001 SRO01
1607	Off C	11 36 44	68	68		
1608	On E	11 37 04	69	69	TE 001	
1608	Off E	11 59:04	135	135		
1609	On C	11 59:24	136	136	TE 001	
		12 03 24	148	148	TE001 SRO01	
		12 04 04	150	150	TE001 SRO01	
		12 08 04	162	162	TE001 SRO01	
		12 18 24	193	193	TE001 SRO01	
1609	Off C	12 21:24	202	202		
1610	Off On E	12 21:44	203	203	TE 001	
1610	Off E	12 43:44	269	269	TE 001 IF 001 SRO01	
1611	On C	12 44:04	270	270	TE 001	
			287	287	TE 005	
			288	288	TE 001	
			290	290	TE 009	
			292	292	TE 001	
			302	302	TE 026	

Tape label
Amount
Line #

AS0010

not complete

Tried SAP 101077

& noticed I had 1 more
character so I back
spaced & result was
SAP 10107✓
✓
✓
✓
✓
✓
✓

SAR-10 / 1077

PAGE 2

CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
0685 9 Mar 91	1611			303 303	TE 008	AS0010 on every shot on this page
				305	305	
				306	306	
				307	307	
				308	308	TE 007
				309	309	TE 003
				311	311	TE 006
				313	313	TE 001
				316	316	TE 017
				321	321	TE 025
				322	322	TE 010
				325	325	TE 012
				326	326	TE 013
				327	327	TE 004
				328 328	328	TE 001
				329	329	TE 009
				330	330	TE 007
	1611	Off C	1304:24	331	331	
	1612	On E	1304:44	332	332	TE 001
	1612	Off E	1326:24	397	397	
	1613	On C	1326:44	398	398	TE 001
			1335 04	423	423	TE 012
			1335 24	424	424	TE 025

CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
068 9MAR91	1613	cont'd		427/428	427/428	TE001/TE006 AS0010 on every shot
			133724	430	430	TE001 SR001
				447/448	447/448	TE035/TE043
				449/450	449/450	TE031/TE034
				451/452	451/452	TE037/TE034 SR001
				453/454	453/454	TE005/TE024
				455/456	455/456	TE009/TE009
				457/458	457/458	TE033/TE073
	1613	off C	134825	463	463	
	1614	on E	134845	464	464	TE001
	1614	off E	1410:25	529	529	
	1615	on C	1411:05	530	530	TE002 SR001
				534	534	TE001
				535	535	TE002
				536	536	TE001
				537	537	TE002
				538	538	TE001
				539	539	TE005
				540	540	TE007
				541	541	TE002
				542	542	TE007
				543	543	TE011

CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
068J 9 March 91				544-548	544- 548	TE errors on every shot. SR001 at SP 547
	1615	OFF C	1417:05	549	549	
	1616	On E	1417:25	550	550	TE 002 SR001
				551	551	TE 002 SR002
			142405	570	570	TE001 SR001
			143645	608	608	TE001 SR001
	1616	Off E	1439:05	615	615	
	1617	On C	1439:25	616	616	TE 002 SR001
			145505	663	663	TE001
	1618	OFF C	150105	681	681	TE001
	1618	On E	150125	682	682	TE001
	1618	OFF E	152305	747	747	
	1619	On C	152325	748	748	TE022
	1619	OFF C	152525	754	754	TE 022, 014, 145, 127, 006, 057 090 → All shots ABORTED
	1620	On G	152545	757	757	
						(TAPE 1620, ABORTED WITH 6 SHOTS full of errors, am going to reuse tape, i.e. NO 1620 exists)
	1620	OFF E	154725	820	820	
	1621	On C	154745	821	821	
	1621	OFF C	155025	829	829	TE 002 SR002, clear shot, TE001, SR001, TED02, TED07 ABORT, will change. NO 1621
* NOT USING DRIVE C anymore, drive D is being worked on will hang on drive E, or read that slot slots are better than 12 shoots full of errors, wasting tape.						

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS	
							AS0010
08J	1622	ONE	155045	830	830	TE001	✓
9 Hard	1622	OFF E	151225	895	895		
1991	1623	ONE	161425	896	901	TE001 (5 shots lost)	
	1623	OFF E	163605	961	966		
	1624	ON C	163625	962	967	TE001 * Jim Smith put a memoryX tape up on C to see if it behaves differently	AS0010
Begin alternating memoryX tapes on C, Gramms on E							✓
	1624	OFF C	165805	1027	1032		
	1625	ON E	165825	1028	1033		
	1709	—	1709	—	—	Gun #3 on "A" = AUTO FIRE (gun pressure)	
	1625	OFF E	172005	1093	1098	(Gun 3 off for repair)	AS0010
* 1626	OND	173025	1094	1099	* testing ONV D *		✓
1626		1730	1125	1130	- Gun 3 off fire		
1626	OFF D	174205	1125 ³⁹	1164	(memoryX)		
1627	ON E	174225	1160	1165	(loaded a Carlsberg (Gramm) on D for test at next tape - 1628)		
		1759			* periodically Gun 13 shows "N's" (2x "N" last 3 hrs)		
1627	OFF E	180405	1225	1230			
1628	ON D	180425	1226	1231			AS0010
1628	OFF D	182605	1291	1296			✓
1629	ON E	182625	1292	1297			
1629	OFF E	184805	1357	1302			

CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
068J	1630	ON D	184825	1358	1365	
9 March	—	—	1855	—	—	Deployed sonobuoys 42
1991			190325	1403	1408	Gun 4 off line
			1910	1423	1428	Guns 3-4 on line
	1630	OFF D	191005	1483	1428	
	1631	ONE	191025	1424	1429	TE001
	1631	OFF E	193205	1489	1494	
	1632	ON D	193225	1490	1495	
	1632	OFF D	195405	1555	1560	
	1633	ONE	195425	1556	1561	TE001
	1633	OFF E	201605	1621	1626	
	1634	ON D	201625	1622	1627	
	1634	OFF D	2038:05	1687	1692	
	1635	ON E	2038:25	1688	1693	TE 001
	1635	OFF E	2100:05	1753	1758	
	1636	ON D	2100:25	1754	1759	TE
	1636	OFF D	2122:05	1819	1824	
	1637	ON E	2122:25	1820	1825	
	1637	OFF E	2144:05	1885	1890	
	1638	ON D	214425	1886	1891	
				1889	1894	TE001
	1638	OFF D	220605	1951	1956	

This PAGE- AS 0010 on every shot point

THIS PAGE - AS0010 on EVERY
SHOT POINT

SAP-10/1077

EW9101 WEST ANTARCTIC PENINSULA

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
068	1639	ON E	2206:25	1952	1957	TE001 AS0010
9 March 91				1956	1951	TE001
	1639	OFF E	2208:05	2017	2022	
	1640	ON D	2228:25	2018	2023	
	1640	OFF D	2250:06	2083	2088	
	1641	ON E	2250:26	2084	2089	TE001 Gun#3 not firing @ 2255Z
				2103	2108	TE001
			2305Z			Gun#3 back on line.
	1641	OFF E	2312:06	2149	2154	AS0010
	1642	ON D	2312:26	2150	2155	
	1642	OFF D	2334:06	2215	2220	
	1643	ON E	2334:26	2216	2221	TE002
	1643	OFF E	2356:06	2281	2286	
	1644	ON D	2356:26	2282	2287	
	1644	OFF D	0018:06	2347	2352	
	1645	ON E	0018:26	2348	2353	TE001
	1645	OFF E	0040:06	2413	2418	
	1646	ON D	0040:26	2414	2419	
	1646	OFF D	0102:06	2479	2484	
	1647	ON E	0102:26	2480	2485	TE001
	1647	OFF E	0124:06	2545	2550	
	1648	ON D	0124:26	2546	2551	
			0126:26	2552	2557	TE001

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
069 10 MAR 91	1648 cont'd			2559	2564	TE001 AS0010
	1648	OFF D	014606	2611	2616	
	1649	ON E	014626	2612	2617	TE001
	1649	OFF E	020806	2677	2682	
	1650	ON D	020826	2678	2683	
			021446	2697	2702	TE001 SP001
	1650	OFF D	023006	2743	2748	
	1651	ON E	023026	2744	2749	
	1651	OFF E	025206	2809	2814	
	1652	ON D	025226	2810	2815	
	1652	OFF D	031426	2876	2880	
	1653	ON E	031426	2876	2881	TE001
				2893	2898	Missed NC
				2894	2899	Missed NC
		0330	—	—	—	-streamer running shallower @ 4.3k
		—	—	—	—	bridge bringing 3rd engine on to 4.5-5.0k
	1653	OFF E	033646	2941	2949	
	1654	ON D	033706	2942	2949	streamer struck @ 3349, running
	1654	OFF D	035846	3008	3015	high because of ↑ speed
	1655	ON E	035906	3009	3016	
069 J	1653	OFF E	042046	3073	3080	
10 MAR 91	1656	ON D	042006	3074	3081	

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
069J	1656	ON D	042106	3074	3081	(from previous page) AS0010
10 March	1656	OFF D	04246	3139	3146	
1991	1657	ON E	044306	3140	3147	TE001
	1657	OFF E	050440	3205	3212	
	1658	ON D	050506	3206	3213	
	1658	OFF D	052646	3271	3278	
	1659	ON E	052706	3272	3279	
			054226	3319	3326	Gun #12, "Auto firing" → possible
						@ 1985 @ pop, possible leak
			054446	3325	3332	Gun 12 showed N's for 1 shot
	1659	OFF E	054846	3337	3344	
	1660	ON D	054906	3338	3345	
	1660	OFF D	055006	3341	3348	→ missed shots 3349; 3346
	4 shots of data recorded to tape, then drive bombed / power went off, 2 shots lost & then drive E picked up					
	1661	ON E	055106	3342	3351	TE001 (1660 does not exist)
			060026	3370	3379	Gun 12 offline for repair
	1661	OFF E	061346	3407	3416	
	1662	ON D	061306	3408	3417	
069J				3411	3420	TE001
10 March				3412	3421	TE002 SR001
1991	1662			3468	3477	TE001 SR001

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A handwritten signature in black ink on lined paper. The signature consists of the letters 'G', 'O', and 'L' written in a cursive, stylized manner. The 'G' and 'O' are connected, and the 'L' is separate. The signature is written on a set of four horizontal lines, with the top line being the most prominent.

CRUISE EW 9101 LINE SAP 11/1078 NUMBER OF SHIPS 1 THIS SHIP EWING
 CDP ✓ COP _____ AIRGUNS 20 (8885 in³) EXPLOSIVES _____

RECEIVING SHIPS EWING _____
 NUMBER OF TRACES 120 _____
 GROUP SPACING 25m _____

SHOOTING SHIPS EWING _____
 SHOT INTERVAL 50m _____
 APPROXIMATE SHOT TIME (SEC) 20 sec _____

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>069 10 March 91</u>	<u>0745:46 Z</u>	<u>69° 25.8904' S</u>	<u>78° 36.1425' W</u>	<u>1666</u>	/
END LINE	<u>069/10 March 91</u>	<u>1004:28 Z</u>	<u>68° 42.3036' S</u>	<u>79° 48.6421' W</u>	<u>1693</u>	

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>EWING</u>	<u>~ 250 m</u>	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

This page AS0010
on every shot point

EW9101

WEST ANTARCTIC PENINSULA

SAP 11/1078

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
069 10 March 1991	1665	ON D	074546	1	0	AS0010
				2	2	
	1666	OFF D	080807	68	68	IF 099
	1667	ON E	080827	69	69	TE 001 Gun#12 5411 down - out for Leg
	1667	OFF E	083027	135	135	
	1668	ON D	083047	136	136	
			0850:07	194	194	MISSED NC (missed 1 shot)
			0850:47	195	196	SP/FILE# now off by 1.
	1668	OFF D	0853:07	202 202	203 203	
	1669	ON E	0853:27	203	204	TE 001
	1669	OFF E	0915:27	269	270	
	1670	ON D	0915:47	270	271	
	1670	OFF D	093747	336	337	
	1671	ON E	093807	337	338	
	1671	OFF E	100007	403	404	
	1672	ON D	100027	404	405	
	1672	OFF D	102227	470	471	
	1673	ON E	102247	471	472	TE 001
	1673	OFF E	104447	537	538	TE 001 IF 021 SP 001
	1674	ON D	104507	538	539	
	1674	OFF D	110647	603	604	
	1675	ON E	110707	604	605	

~~0000~~

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
069 10 March 91				613	614	TE001 AS0010
	1675	off E	112847	669	670	↓
	1676	on D	112907	670	671	↓
	1676	off D	115047	735	736	TE001 SR001 ↓
	1677	on E	115107	736	737	TE001 ↓
	1677	off E	1212:47	801	802	↓
	1678	on D	1213:07	802	803	↓
			1232	859 859	860	Shutting down guns # 16 and 17 (tangled) ↓
	1678	off D	123447	867	868	↓
	1679	on E	123507	868	869	TE001 ↓
			124147	888	889	guns 16, 17 online ↓
	1679	off E	1256:47	933	934	↓
	1680	on D	1257:07	934	935	↓
	1680	off D	1318:47	999	1000	↓
	1681	on E	1319:07	1000	1001	TE001 ↓
	1681	off E	1340 47	1065	1066	
	1682	on D	1341 07	1066	1067	
	1682	off D	140247	1131	1132	
	1683	on E	140307	1132	1133	TE001
	1683	off E	142447	1197	1198	
	1684	on D	142507	1198	1199	
	1684	off D	144647	1263	1264	↓

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EW9101 WEST ANTARCTIC PENINSULA

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
069 10 Mar 91	1685	on E	144707	1264	1265	ASCOIO
	1685	off E	1508:47	1329	1330	
	1686	on D	1509:07	1330	1331	
	1686	off D	153047	1395	1396	
	1687	on E	153107	1396	1397	TE 001
	1687	off E	155247	1461	1462	
	1688	on D	155307	1462	1463	
	1688	off D	161447	1527	1528	
	1689	on E	161507	1528	1529	TE 001
	1689	off E	163647	1593	1594	
	1690	on D	163707	1594	1595	
	1690	off D	165847	1669	1660	
	1691	on E	165907	1660	1661	TE 001
	1691	off E	172048	1725	1726	
	1692	on D	172108	1726	1727	UNSTABLE STREAMER
	1692	off D	174248	1791	1792	
	1693	on E	174308	1792	1793	TE 001
	1693	off E	180428			EDC

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CRUISE EW 9101 LINE SAP/12-1079 NUMBER OF SHIPS 1 THIS SHIP Ewinr
 CDP ✓ COP _____ AIRGUNS 20 (8385 in³) EXPLOSIVES _____

RECEIVING SHIPS	<u>EW 9101</u>	_____	_____	_____
NUMBER OF TRACES	<u>120</u>	_____	_____	_____
GROUP SPACING	<u>25m</u>	_____	_____	_____
SHOOTING SHIPS	<u>Ewinr</u>	_____	_____	_____
SHOT INTERVAL	<u>50m</u>	_____	_____	_____
APPROXIMATE SHOT TIME (SEC)	<u>203</u>	_____	_____	_____

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>060 10 March 91</u>	<u>1808:08Z</u>	<u>60° 42.01'S</u>	<u>79° 48.968' W</u>	<u>1694</u>	<u>/</u>
END LINE	<u>070 11 March 91</u>	<u>2250: Z</u>	<u>67° 02.875' S</u>	<u>75° 08.869' W</u>	<u>1771</u>	<u>/</u>

DISTANCES WHERE APPLICABLE

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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EW9101 WEST ANTARCTIC PENINSULA

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
0695	1694	ON D	180808	1	1	AS0010
10 March		—	182140	—	—	skimmer stabilized
	1694	OFF P	183028	068	068	IF 107
	1695	ON E	183048	069	069	TE001
	1695	OFF E	185248	135	135	
	1696	ON D	185308	136	136	
	1696	OFF D	191508	202	202	
	1697	ON E	191528	203	203	TE001
	1697	OFF E	193728	269	269	
	1698	ON D	193748	270	270	
	1698	OFF D	195928	236	336	
	1699	ON E	200008	337	337	TE001
	1699	OFF E	202208	403	403	
	1700	ON D	202228	404	404	
	1700	OFF D	2044:28	470	470	
	1701	ON E	2044:48	471	471	TE 001
	1701	OFF E	20648	537	537	
	1702	ON D	210708	538	538	
				543	543	TE 001
	1702	OFF D	212908	604	604	
	1703	ON E	212928	605	605	TE001
				627	627	TE 001

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
Day 069 10 March	1703	OFF E	2151:28	671	671	AS0010
1991	1704	ON D	2151:48	672	672	
	1704	OFF D	2213:48	738	738	
	1705	ON E	2214:08	739	739	TE001
	1705	OFF E	2236:08	805	805	
	1706	ON D	2236:28	806	806	
	1706	OFF D	2258:28	872	872	
	1707	ON E	2258:48	873	873	TE001
	1707	OFF E	2320:48	⁹³⁹ 939	939	
	1708	ON D	2321:08	940	940	
	1708	OFF D	2343:08	1006	1006	
	1709	ON E	2343:28	1007	1007	TE001
Day 070 11 March	1709	OFF E	0005:28	1073	1073	
	1710	ON D	0005:48	1074	1074	
		ON D	0013:08	1096	1096	TE001 SROO1
	1710	OFF D	0027:48	1140	1140	
	1711	ON E	0028:08	1141	1141	TE001
	1711	OFF E	0050:08	1207	1207	
	1712	ON D	0050:28	1208	1208	
	1712	OFF D	0112:28	1274	1274	
	1713	ON E	0112:48	1275	1275	TE001
	1713	OFF E	0138:48	1341	1341	

manually
labelledmanually
labelled

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EW9101 WEST ANTARCTIC PENINSULA

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
Day 070 11 March 91	1714	On D	0135:08	1342	1342	AS0010
	1714	Off D	0157:08	1408	1408	↓
	1715	On E	0157:28	1409	1409	← sonobuoy #4/4 deployed
	1715	off E	0219:29	1475	1475	@ 0200
	1716	on D	0219:49	1476	1476	
	1716	off D	0241:49	1542	1542	
	1717	on E	0242:09	1543	1543	TE001
	1717	OFF E	0304:09	1609	1609	
	1718	ON D	0304:29	1610	1610	↓
	1718	OFF D	0326:29	1674	1676	TE001
	1719	ON E	0336:29	1677	1677	c/c 4° bandoid ice (sonobuoy #4)
			0346:09	1735	1735	Gun # 3 OFF line (8500 in)
	1719	OFF E	0348:49	1743	1743	Shot vol @ 7035 AS0010
	1720	ON D	0349:09	1744	1744	AS0010
	1720	OFF D	0410:09	1810	1810	
	1721	ON E	0411:29	1811	1811	TE001 streamer beginning @ SKID
	—	—	0432:09	—	—	c/c 4° to right
	1721	OFF E	0433:29	1877	1877	↓
	1722	ON D	0433:49	1878	1878	AS0010
	1722	OFF D	0455:49	1944	1944	
	1723	ON E	0456:09	1945	1945	TE001
	1723	OFF	0518:09	2011	2011	
	1724	ON D	0518:29	2012	2012	

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WEST ANTARCTIC PENINSULA

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS	AS CD10
070	1734	ON D	051829	2012	2012	from previous page	1
11 March	FF			2014	2014	after SP → "IB 2000B 0527" 12	
1991	1724	OFF D	054029	2078	2078		
	1725	ON E	054049	2079	2079	TECO1	
				2090	2090	TECO1 SRD01	
			0540	—	—	Sonobuoy off record	
	1725	OFF E	060249	2145	2145		
	1726	ON D	060309	2146	2146		ASCD10
	—	—	060749	2160	2160	moving back to course after iceberg avoidance	
						streamer somewhat unstable	
			060909	2164	2164	Gun #2 back on line	
	—	—	0619	—	—	riding cbe @ 43° to get back on line for back row	
	—	—	0624	—	—	streamer stabilize	
	1726	OFF D	062509	2212	2212		
	1727	ON E	062529	2213	2213	TECO1	
	1727	OFF E	064729	2279	2279		
	1728	ON D	064749	2280	2280		
	1728	OFF D	0709:49	2346	2346		
	1729	ON E	0710:09	2347	2347		
	1729	OFF E	073209	2413	2413		
	1730	ON D	073229	2414	2414		
	1730	OFF D	074429	2480	2480		

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EW9101 WEST ANTARCTIC PENINSULA

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
070	1731	ON E	075449	2481	2481	AS0010
11 March 91	1731	OFF E	081649	2547	2547	TE001 SR001
	1732	ON D	081709	2548	2548	
	1732	OFF D	083709	2614	2614	
	1733	ON E	083929	2615	2615	TE001
	1733	OFF E	090129	2681	2681	
	1734	ON D	090149	2682	2682	
	1734	OFF D	092349	2748	2748	
	1735	ON E	092409	2479	2479	TE001
	1735	OFF E	094609	2815	2815	
	1736	ON D	094629	2816	2816	
	1736	OFF D	100829	2882	2882	
	1737	ON E	100849	2883	2883	TE001
	1737	OFF E	103049	2949	2949	
	1738	ON D	103109	2950	2950	↓
	1738	OFF D	105309	3016	3016	
	1739	ON E	105329	3017	3017	↓
	1739	OFF E	1115:29	3083	3083	
	1740	ON D	1115:49	3084	3084	
			111729	3089	3089	TE001 SR001
			112349	3108	3108	Guns 1, 2 offline.
	1740	OFF D	113150	3150	3150	
			1140	3157	3157	Guns 1, 2 repaired, firing again

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EW9101 WEST ANTARCTIC PENINSULA

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
070 11 Mar 91	1741	on E	113810	3150	3150	AS0010 on every shot
				3157	3157	Guns 1, 2 online Gun 8 Acting up, NOT Firing; gunners
			115110	3190	3190	Gun 8 TAKEN OUT, checking. say it is.
	1741	off E	1200:10	3217	3217	AS0010
	1742	on D	1200:30	3218	3218	
	1742	off D	1222:30	3284	3284	
	1743	on E	1222:50	3285	3285	TE 001
	1743	off E	1237:50	3330	3330	Gun 8 back online
	1743	off E	1244:50	3351	3351	
	1744	on D	1245:10	3352	3352	
	1744	off D	1307:10	3418	3418	
	1745	on E	1307:30	3419	3419	
			131150	3432	3432	launched sonobuoy #45
			131230	3434	3434	TE001 SR001
	1745	off E	1329:30	3485	3485	
	1746	on D	1329:50	3486	3486	
	1746	off D	1351:50	3552	3552	
				3553 →		} SP's missed TAPE drive error ~TAPE ready & OK BUT?
				3557		
	1747	on E	135350	3553	3558	TE001
	1747	off E	1415:50	3619	3624	
	1748	on D	1416:10	3620	3625	

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EW9101 WEST ANTARCTIC PENINSULA

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
070 11 March 91	1748	off D	1438:10	3686	3691	AS0010
	1749	on E	1438:30	3687	3692	TE 001
	1749	OFF E	150030	3753 3758	3758 3755	
	1750	ON D	150050	3754	3759	AS0010
	1750	OFF D	152250	3820	3825	
	1751	ON E	152310	3821	3826	TE 001
	1751	OFF E	154510	3887	3892	
	1752	ON D	154530	3889	3893	
				3905	3910	TE 001 SR 001
				3908	3913	TE 001 SR 001
				3909	3914	TE 004 SR 004
				3919	3924	TE 001 SR 001
				3923	3928	TE 001 SR 001
				3928	3933	TE 002 SR 002
				3935	3940	TE 001 SR 001
				3939	3944	TE 001 SR 001
	1752	OFF D	160250	3940	3945	TE 001 SR 001 ADORPED
	1753	ON E	160310	3941	3946	
	1753	OFF E	162510	TE 4001	4012	TE 001 SR 001
	1754	ON D	162530	4008	4013	
	1754	OFF D	164730	4074	4077	
	1755	ON E	164750	4075	4080	TE 001

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
070	1755	ON E	164750	4075	4080	TE001 → From previous page
11 March	1755	OFF E	170950	4141	4146	A-0010
1991	1756	ON D	171010	4142	4147	
	1756	OFF D	173210	4208	4213	
	1757	ON E	173230	4209	4214	TE001
				4216	4216	after SP → "IB2 0003 0027"
				4246	4251	TE001
	1757	OFF E	175430	4275	4280	
	1758	ON D	175450	4276	4281	
	1758	OFF D	181650	44392	04397	
	1759	ON E	181710	04393	04398	TE001
	1759	OFF E	183910	4409	4414	
	1760	ON D	183930	4410	4415	
	1760	OFF D	190130	4476	4481	
	1761	ON E	190150	4427	4482	
	1761	OFF E	192350	4543	4548	
	1762	ON D	192410	4544	4549	
			~1937:10	~4583	~4588	Gun Pressure Low; Firing @ 1850 psi
			~1939:30	~4590	~4595	Gun 15 off; pressure back up.
	1762	OFF D	194610	4610	4615	
	1763	ON E	194630	4611	4616	TE001
	1763	OFF E	2008:30	4677	4682	

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EW9101 WEST ANTARCTIC PENINSULA

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
070 J	1764	ON D	2008:50	4678	4683	AS0010
11 MARCH	1764	OFF D	2030:50	4744	4749	
1991	1765	ON E	2031:10	4745	4750	TE001
	1765	OFF E	2053:11	4811	4816	20492 Gen15 back online
	1766	ON D	2053:31	4812	4817	
	1766	OFF D	2115:31	4879	4883	
	1767	ON E	2115:51	4880	4884	TE001
	1767			4924	4929	TE001
	1767	OFF E	2137:51	4945	4950	
	1768	ON D	2138:11	4946	4951	
	1768	OFF D	2200:11	5012	5017	
	1769	ON E	2200:31	5013	5018	
				5016	5021	TE001
	1769	OFF E	2222:31	5079	5084	
	1770	ON D	2222:51	5080	5085	
	1770	OFF D	2244:51	5146	5151	
	1771	ON E	2245:11	5147	5152	
				5151	5156	
	1770	OFF E		5156	5161	TE001 SR001
	1771	OFF E	2250:11	5162	5167	

CRUISE EW9101LINE SAP-13/1080NUMBER OF SHIPS 1THIS SHIP EWINGCDP ✓

COP _____

AIRGUNS 30 (7885 cu in)
19

EXPLOSIVES _____

RECEIVING SHIPS

Ewing

NUMBER OF TRACES

120

GROUP SPACING

25m

SHOOTING SHIPS

Ewing

SHOT INTERVAL

50mAPPROXIMATE SHOT
TIME (SEC)20sec

	DATE	TIME GMT	LATITUDE	LONGITUDE	DATATAPE NO.	LOGTAPE NO.
START LINE	<u>070J 11 MAR 91</u>	<u>070J 23:05 Z</u>	<u>67°03.025'S</u>	<u>75°05.740'W</u>	<u>1773</u>	<u>/</u>
END LINE	<u>071J 12 MAR 91</u>	<u>071J 0859:52 Z</u>	<u>67°40.218'S</u>	<u>73°30.3924 W</u>	<u>1799</u>	<u>/</u>

DISTANCES WHERE APPLICABLE

135 cse
52.3 96.9

SHIP	AIRGUN TO 1ST RECEIVER	MINIRANGER TO AIRGUNS	ANTENNA TO 1ST RECEIVER	RADIST TO AIRGUNS	ANTENNA TO 1ST RECEIVER
<u>Ewing</u>	<u>~250m</u>				

SAP 13/1080

EW9101 WEST ANTARCTIC PENINSULA

PAGE

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
070 1 March 91	1772	ON D	23 04 51	1	01	NO REEL 1772 AS0010
	1773	off D	23 27:11	68	68	IF 128
	1774	on E	23 27:31	69	69	TE 001
			23 34 51	91	91	TE 001
			23 36 31	96	96	TE 001 SR 001
	1774	off E	23 49 31	135	135	
	1775	on D	23 49 51	136	136	
	1775	off D	00 11:51	202	202	
	1776	on E	00 12:11	203	203	TE 001
			00 24 11	239	239	TE 001 SR 001
	1776	off E	00 34 11	269	269	
	1777	on D	00 34 31	270	270	
	1777	off D	00 56:31	336	336	
	1778	on E	00 56:51	337	337	TE 001
			01 15:31	393	393	TE 002 SR 001
	1778	off E	01 18:51	403	403	
	1779	on D	01 19:11	404	404	
	1779	off D	01 41:11	470	470	
	1780	on E	01 41:31	471	471	TE 001
	1780	off E	02 03:31	537	537	
	1781	on D	02 03:51	538	538	
	1781	off D	02 25:51	604	604	

CAP 13 / 1080

EW9101 WEST ANTARCTIC PENINSULA

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CAL DAY/JD	TAPE #	ON / OFF	TIME	FILE #	SP	COMMENTS
1071 12 March 91	1782	On E	0226:11	605	605	As0010
	1782	off E	0248:11	671	671	
	1783	on D	0248:31	672	672	↓
	1783	OFF D	031031	738	738	
	1784	ON E	0314 ²⁵ 31	739	739	TE001 As0010
	1784	OFF E	033251	805	805	↓
	1785	ON D	033311	806	806	
	1785	OFF D	035511	872	872	↓
	1786	ON E	035521	873	873	TE001
	1786	OFF E	041731	9 ³⁹ 40	9 ³⁹ 42	lost 2 shots tape not on line
	1787	ON D	041831	940	942	As0010
	1787	OFF D	044031	1006	1008	
	1788	ON E	044051	1007	1009	
	1788	OFF E		1046	1048	TE001 SR001
	1788	OFF E	052251	1073	1075	
	1789	ON D	050311	1074	1076	
	1789	OFF D	052511	1140	1142	
	1790	ON E	052531	1141	1143	TE001
			052811	1149	1151	
	1790	OFF E	054731	1207	1209	
	1791	ON D	054851	1208	1210	
				1219	1221	Streamer relatively stable

