

SURVEYOR'S LOG

DOF SUBSEA P/L

WEDNESDAY 27TH FEB 2008

0700

BEGIN MOBILISATION OF SURVEY EQUIPMENT

0830

BEGIN QINSY PROJECT SETUP

INTERFACED: GPS (VERIPOS PRI. AND SEC.)

SEAPATH HEADING AND MOTION

ANSHULTZ GYRO

DMIS 335 MOTION SENSOR

EM 300 FIBES

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	12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THURSDAY 28TH FEB 2008

0700

CONTINUE MOBILISATION

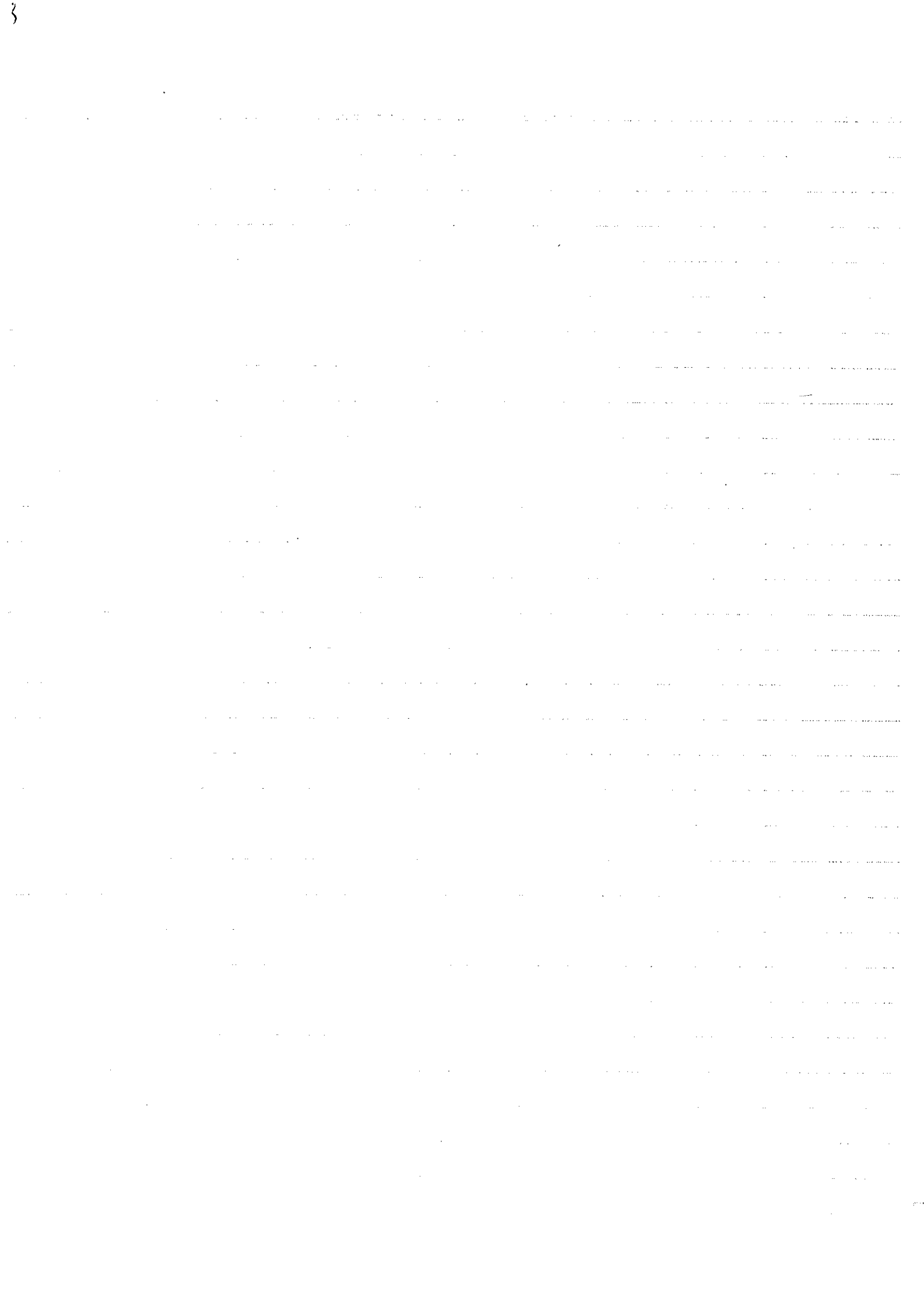
GPS CHECKS AND GYRO CALIBRATION COMPLETED

CABLE COUNTER INTERFACED

6

FRIDAY 29TH FEB 2008

0700	CONTINUE MOBILISATION
1040	SOL CABLE TENSION (TO RECORD CABLE TENSION DURING TESTING)
1047	EOL CABLE TESTING
1600	DEPART GERALDTON
1745	AT ANCHOR FOR MECHANICAL REPAIRS



SATURDAY 01 MAR 08

0001

Vessel Midnite Position LAT  $28^{\circ}42'23.7''S$  LON  $114^{\circ}35'31.5''E$ 

Vessel remains at anchor outside Geraldton port for engine repairs.

1510

ALONGSIDE WHARF GERALDTON for repairs to engine room.





SUNDAY 02 MAR 08

0001

Vessel Midrite Position LAT  $28^{\circ}46'33.7''$ S LON  $114^{\circ}36'00''$ E  
Vessel alongside wharf at Geraldton for repairs to engine room.

0918 EM300 crash.

1330 EM300 online after cleaning of workstation & reseating of RAM

MONDAY 03 MAR 08

	Vessel Midnight Position LAT $28^{\circ}46'33''S$ LON $114^{\circ}36'00''E$ .
	Vessel alongside wharf @ Geraldton for repairs to engine room.
0810	Vessel departs Geraldton wharf
0850	Mustering drill
1400	Tool box talk for sonar deployment.
1647	TOWFISH AND DEPRESSOR DEPLOYED
1709	SOL TESTLINE HOG $156^{\circ}$ KP $-0.1$ 0006-TESTLINE-0001.d5 FIX 1
1730	EOL TESTLINE FIX 18
1755	SOL TESTLINE HOG $336^{\circ}$ KP $-0.2$ 0007-TESTLINE-0001.d5 FIX 19
1809	EOL TESTLINE FIX 33
1837	PREPARING TO RECOVER TOWFISH
1906	DEPRESSOR ON BOARD
1917	TOWFISH ON DECK
1946	PREPARING TO DEPLOY 30 KHz TOWFISH
	TOWFISH DEPLOYED
2107	SOL TESTLINE 2 FIX 34 HOG $336^{\circ}$ KP $-0.1$ 0008-TESTLINE 2-0001.d5
2151	EOL TESTLINE 2 FIX 76
2232	SOL TESTLINE 3 FIX 77 HOG $156^{\circ}$ KP $-0.1$ 0009-TESTLINE 3-0001.d5
2308	EOL TESTLINE 3 FIX 112
2311	PREPARE TO RECOVER TOWFISH



TUESDAY 04 MARCH 08

0001	Midnite Position 28°50'18"S 113°37'55"E.
0209	Vessel in transit to Wallaby Island to obtain calmer water for towfish recovery.
0330	altered PC time from GMT to LOCAL.
0400	Sonar tow fish recovery in progress.
1300	Vessel in-transit to Northern search area.
	LINE DATABASE COMPILED IN SEARCH AREA POLYGON
	POINT 1 S 25°54' E 110°40.5' (SEARCH AREA EXTENTS)
	POINT 2 S 25°54' E 111°17.5'
	POINT 3 S 26°46' E 111°17.5'
	POINT 4 S 26°46' E 110°40.5'
1606	MBES SYSTEM CRASHED
1612	MBES SYSTEM BACK UP AND RUNNING
1616	MBES SYSTEM CRASHED
1624	MBES SYSTEM RESTARTED
17	SYSTEM TIME CHANGED BACK TO GMT DUE TO
	QINSY OUTPUT NOT OUTPUTTING LOCAL TIME TO ISIS
1824	MBES SYSTEM CRASHED
2300	STILL UNABLE TO OPERATE E7300 MBES
2322	PREPARING TO DEPLOY SSS
2343	TOWFISH DEPLOYED
2348	DEPRESSOR DEPLOYED

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Wednesday 05 MAR 08

0001 Vessel Midnite Position Lat  $26^{\circ}53.86'S$  Lon  $111^{\circ}01.21'E$ .

0139 SOL 07. Line 07-0001. db. Cable out = 3630m, SSS depth = 1410m,  
Fix 106. SSS height = 2822m.

0239 fish @ SOL Cable out = 5310m, SSS depth = 2120m. Fix 166.

0321 Vessel @ start of search grid Cable out = 5600m Fix = 207.

0343 Target on port side - waypoint = Target 001.  
Numerous along track small targets & searpo.

0706 fish @ start of search grid Cable out = 6632m Fix = 312. S. Depth = 3262

0655 problems with sonar data Fix 424.

0710 sonar problems resolved Fix 436.

0711 sonar ground fault observed, to be resolved at end of line.

1021 sonar data lost at Fix 627.

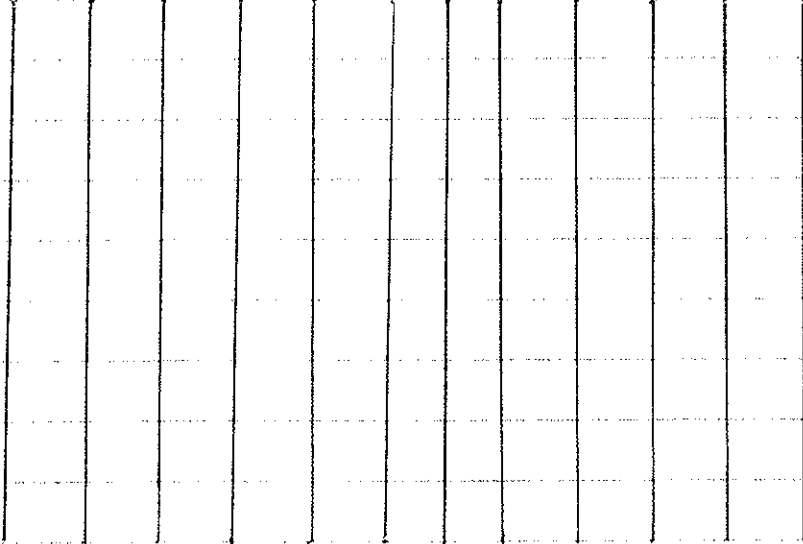
1024 sonar data returns at Fix 630.

'13 SONAR WIZ. CRASHED FIX 1339 ISIS PAUSED MOMENTARILY ~~Y~~

2216 SONAR WIZ. BACK ON LINE.



LINE 1 2 3 4 5 6 7 8 9 10 11 12



SPACING

5000 5000 3500 3500 5000 5000

Thursday 06 MAR 08

00	Vessel Midnite Position LAT: 25° 57.32'S LON: 111° 00.49'E
0219	FIX 1584 fish crosses northern boundary of search grid.
0221	FIX 1587 stop recording of SSS & multibeam data.
0225	commence recovery of tow fish & tuning / testing of SSS system.
0550	depressor on deck, recovering fish.
0600	tow fish onboard for repairs.
1120	side scan repaired & vessel proceeding to end of line, SSS to be assembled.
1251	SURVEY LINE DATABASE CHANGED TO ALTER LINE SPACING
1617	PREPARING TO LAUNCH SSS
1631	SSS DEPLOYED
1634	DEPRESSOR DEPLOYED
1900	RECOVERING CABLE DUE TO POSSIBLE CYCLONE PATH.
1915	PAYING OUT CABLE TO 6000m
2045	SOL LINE 06 FIX 1588 HDG 180° FILE: 0002.LINE06.0001.db
2 0	POWER FAILURE TO SHIPS POWER.
2142	EOL LINE 06 FIX 1644
2156	BEGAN TO RECOVER SSS DUE TO TECHNICAL PROBLEMS.

depth = 667 m

Friday 07 MAR 08

20 <sup>01</sup>	Vessel Midnite Position : Lat 26° 05.3'S LON 110° 56.2'E
0130	Side Scan Tow Fish recovery in progress, cyclone approaching
<del>0010</del>	Side Scan Tow Fish recovery complete, vessel in-transit to Shark Bay.
0600	EM300 online after installation of UPS.
0735	EM300 work station crash.
0742	EM300 online after reboot.
1025	Vessel heading North - continuing to avoid cyclone.
1055	C-NAV 2050 crash - all LEDs ON.
1102	C-NAV & C-NAVIGATOR rebooted OK.
1520	VESSEL ALTERED COURSE DUE WEST TO RETURN TO SEARCH AREA
2338	ARRIVED ON LOCATION BUT WEATHER TOO ROUGH TO DEPLOY SSS

Heading N  $\rightarrow$  S approx  $8\frac{1}{2}$  km to get two fish to depth.

Saturday 08 MAR 08

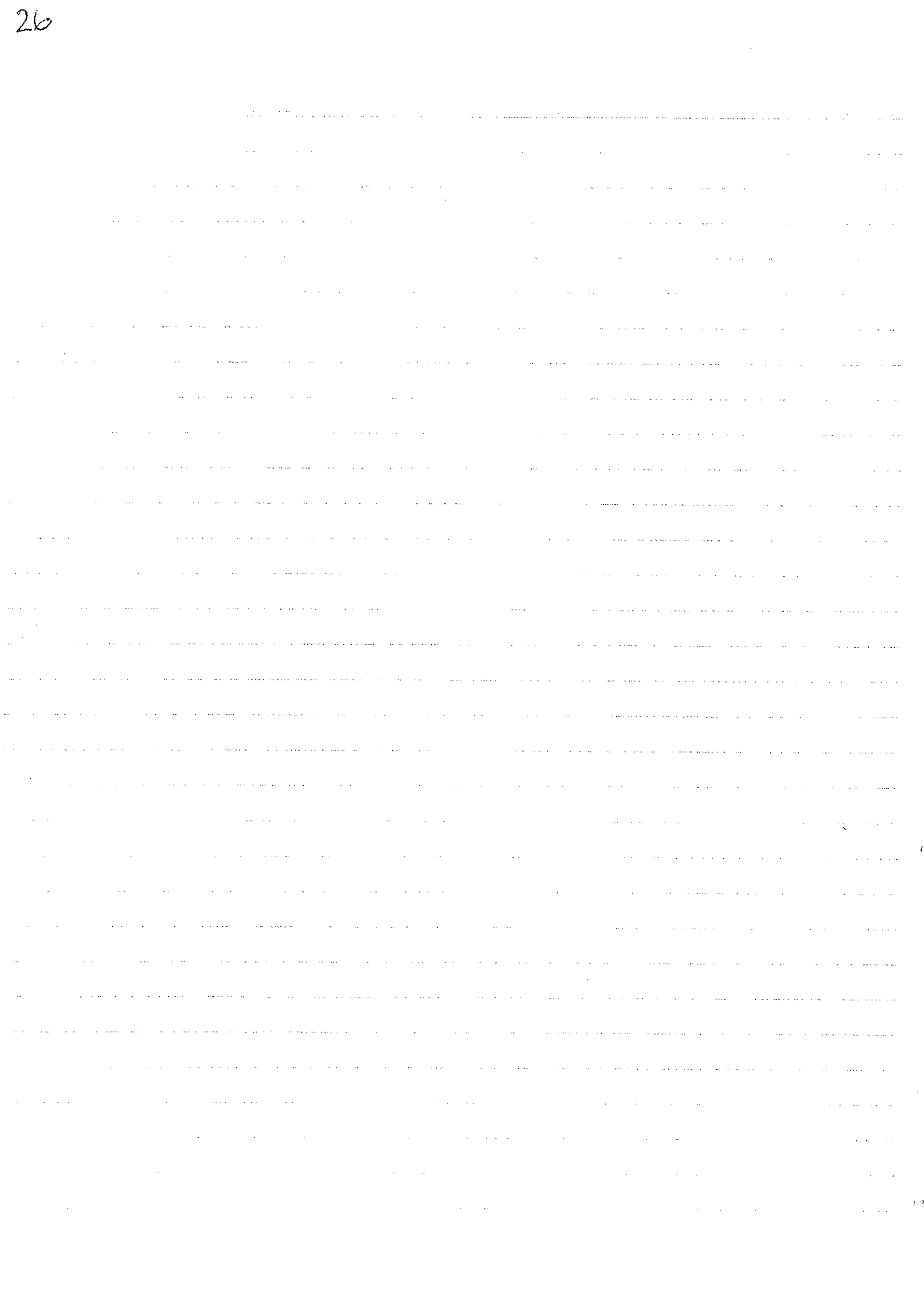
0701 Vessel Midnite Position: LAT 25°44.3'S LON 110°57.9'E.  
 / Vessel Standby for rough seas.  
 0330 begin on deck SSS TOW FISH checks.  
 0415 deploy tow fish/depressor, vessel proceeding toward SOL #6.  
 0809 Vessel SOL, commence recording 0003-Line06-0001.db Fix 1645.  
 / Cable out = 6305 m, Distance SSS-Tow = 5815m, SSS Depth = 2450m.  
 0935 Vessel enters survey grid Fix # 1729  
 / Cable out = 6364 m, Distance SSS-Tow = 5906m, SSS Depth = 2362.  
 1048 Tow Fish enters survey grid Fix # 1802  
 Cable out = 6553 m, Distance SSS-Tow = 6090m, SSS depth = 2417.  
 2130 USAT INTERNET FOUND TO BE NOT WORKING



Sunday 09 MAR 08

0001 Vessel midnite position: LAT 26° 29.9'S LON 110° 58.4'E.  
 ✓ Vessel continues to survey line # 06.  
 0326 SSS ground fault observed.  
 0604 Vessel departs survey grid Fix # 2959  
 0743 Tow fish departs survey grid Fix # 3058  
 Cable Out = 8279, SSS depth = 3252m, Dist Tow Fish - Tow Point = 713m.  
 0755 commence recovering cable prior to turn - also fault finding of sonar system.  
 1216 DEPRESSOR ON DECK  
 1229 TOWFISH ON DECK  
 2200 REPAIRS COMPLETED TO TOWFISH / PREPARE TO DEPLOY SSS  
 2229 SSS DEPLOYED  
 2231 DEPRESSOR DEPLOYED





MONDAY 10 MAR 08

001 Vessel midnite position: LAT 26° 51.4' S LON 111° 02.6' E  
 ✓ Vessel approaching Line #08 & paying out tow fish.

0157 Vessel & tow fish on line, commence recording FIX # 3079 0004-Line08-0001.ctb  
 ✓ Cable out = 5030, SSS depth = 2145, Tow point - Fish = 4552

0238 Vessel enters survey grid FIX # 3099  
 ✓ Cable out = 6565, SSS depth = 2718, Tow point - Fish = 5970

0330 MultiBeam turned off at Williamson request (testing for interference).  
 0332 MultiBeam turned on (Williamson satisfied)

0421 Tow Fish enters survey grid FIX # 3202  
 ✓ Cable out = 8364, SSS depth = 3171, Tow point - Fish = 7738

0649 Tow Fish recovery underway FIX 3351, due to poor starboard channel.  
 ✓ Cable out = 7777, SSS depth = 3027, Tow point - Fish = 7135

0704 RINCY data recording stopped, vessel unable to maintain line corridor at reduced speed  
 ✓ for tow fish recovery. FIX 3364.

10-- Vessel turns toward 180°, Cable out = 200m.

1119 Depressor on deck.

1131 Tow Fish on deck.

1132 Vessel proceeding toward SOL# 08, SSS under repair.

\* target seen on starboard side before start logging  $\approx 5$  mins @ 3 kts.

Tuesday 11 MAR 08.

0701 Vessel midnite position: LAT 26°59.8'S LON 111°04.2'E.  
 / Vessel stand by at southern end of line for SSS repairs.  
 0439 SSS Tow Fish launched.  
 0444 SSS depthor launched, # cable counter zeroed.  
 0445 Vessel heading toward start of line #08.  
 0727 altered Computation Setup / CMG filtering to position from kalman.  
 0844 commence recording line #08 (0005-Line08-0601.db). Fix 3365.  
 / Cable Out 6899, Depth Tow fish = 2170, Distance Tow Point - Fish = 6540.  
 0920 Vessel enters survey grid Fix # 3400  
 0922 Tow fish @ SOL #8 Fix # 3401  
 / Cable Out 7592, Depth Tow fish = 2713, Distance Tow Point - Fish = 7105.  
 1100 Tow fish enters survey grid Fix # 3500  
 / Cable out 8048, Depth Tow fish = 3274, Distance Tow Point - Fish = 7340.  
 1300 FIRE DRILL  
 11 FIRE DRILL COMPLETED

Line #9 edited

E 509 343.90

1600.00

E 507743.90

(5000 m spacing)

(5000 - 1600 = 3400 m spacing)

edited

E 509 329.70

1600.00

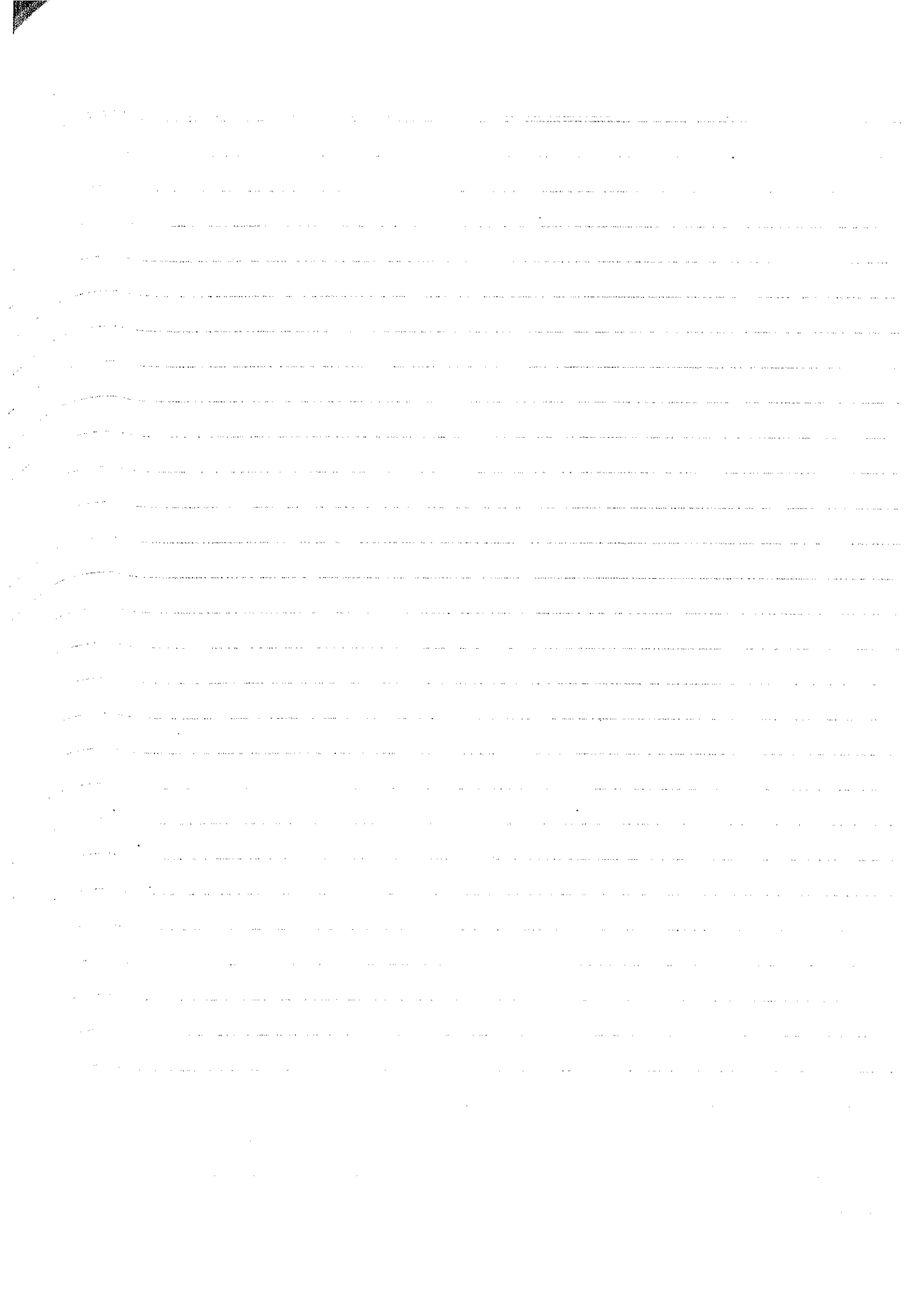
E 507729.70

(5000 m spacing)

(5000 - 1600 = 3400 m spacing)

Wednesday 12 MAR 08

2000 Vessel midnite position: LAT 26° 07.4' S Lon 111° 02.6' E  
 ✓ Vessel continues to survey line # 08.  
 0423 Vessel departs survey grid. FIX #. 4543  
 0423 Cable out: 6989 Fish Depth 2107. Tow point-fish = 6663.  
 0532 Tow fish departs survey grid FIX # 4612, commence cable recovery.  
 ✓ Cable out: 6992 Fish Depth 2140 Tow point-fish = 6694.  
 0739 informed next line to be 3400 m to east of Line #08.  
 0741 stop recording FIX # 4741, to edit line database.  
 0750 turn circle on screen & vessel turning to new line # 09, SonarWhiz software  
 ✓ reinstallation in progress.  
 0906 turn completed, commence run-in line # 09, paying out cable.  
 0907 commence recording FIX # 4742. LINE = 0006-Line 09-0001.db.  
 ✓ Cable out: 2569m Fish Depth = 1299 Tow point-fish = 3205m.  
 1305 VESSEL ENTERING SURVEY POLYGON  
 1405 TOWFISH ENTERING SURVEY POLYGON  
 1740 LARGE TARGET IDENTIFIED ON STBD CHANNEL ~ 2560m deep



Thursday 13 MAR08

11001 Vessel midnite position: LAT 26° 27.9'S LON 111° 04.6'E  
 - Vessel continues to survey line #09.  
 0728 Vessel departs survey grid Fix # 6082.  
 / Cable out = 8401m, Fish Depth = 3186, layback Tow Point - Fish = 7787  
 0911 Tow fish departs survey grid Fix # 6185  
 / Cable out = 9118m, Fish Depth = 3295, layback Tow Point - Fish = 8503.  
 / Vessel continuing on extending line runout to check a target seen yesterday.  
 0945 Hot contact starboard side Fix # 6280. Cable out 9374m.  
 1203 EOL LINE 09 FIX 6356  
 1205 HEAVING IN ON CABLE  
 1419 COMMENCE TURN TO PORT  
 1448 DATABASE BACKED UP TO W&A HARD DISC (BRIAN BUNGEY)  
 1521 MBES LOST COMMUNICATIONS WITH TOPSIDE, UNIT TURNED OFF  
 TO COOL DOWN  
 1645 BEGIN PAYING OUT CABLE  
 1717 TURN COMPLETED VESSEL ON LINE / CONTINUE PAYING OUT CABLE  
 1801 MBES RESTARTED  
 1845 SOL LINE 09-Ext H06 000° FIX 6357 0007-LINE 09-Ext.0001.db  
 2335 EOL LINE 09-Ext FIX 6646  
 2340 SOL LINE 10 H06 000° FIX 6647 0008-LINE 10.0001.db





Friday 14 MAR 08.

1701 Vessel midnite position: LAT 26°44.3'S LON 111°04.3'E.  
 ✓ Vessel moving to starboard 4675 m to run Line # 10, CMG = 030°.  
 0230 Vessel tracking line #10 after very long shallow approach FIX # 6815  
 ✓ Cable out 8524 Fish Depth = 3105. layback Tow-Fish = 7940.  
 0627 Vessel enters survey grid 'B' Fix # 7053  
 ✓ Cable out = 7530 Fish Depth = 2704 layback Tow-Fish = 7025.  
 0750 Tow Fish enters survey grid 'B' Fix # 7135  
 ✓ Cable out = 7589. Fish Depth = 2680 layback Tow-Fish = 7096.  
 1055 Deviation to Line 10 in order to intensify KORMORAN FIX # 7321.  
 ✓ Cable out = 7309. Fish Depth = 2330 layback Tow-Fish = 6928.  
 1106 Complete recording for line #10 Fix 7333 (TARGET = TURN)  
 1109 Commence recording for Kormoran Rece 0009 - Kormoran Rece - 0001.d6  
 ✓ Cable out = 7250 Fish Depth = 2310 layback Tow-Fish = 6867.  
 1520 HEAVING IN CABLE  
 1523 EOL KORMORAN-RECE FIX 7587  
 1709 BEGIN TURNING CABLE @ 3000m OUT  
 1808 COMPLETED TURNING VESSEL ON LINE  
 1824 PAYING OUT CABLE  
 1932 SOL KORMORAN-RECE.1 FIX 7588 HDG 172° 0010 - KORMORAN-RECE.1.0001.d6  
 2244 EOL KORMORAN-RECE.1 FIX 7778  
 2244 SOL BATTLE SITE <sup>RECE</sup> FIX 7779 HDG 180° 0011 - ~~KORMORAN~~ <sup>BATTLE SITE RECE</sup> .0001.d6  
 2309 EOL BATTLE SITE RECE FIX 7803  
 2313 SOL BATTLE SITE RECE HDG 180° 0013 - BATTLE SITE RECE.0001.d6

Fix #8448 N = 7112610.

Line #10 E 511933.50 + 4500 = E 516433.50  
 N 7112858 = N 7112610 + 7 km run out.  
 E 511939.50 + 4500 = E 516439.50.  
 N 7040000 = N 7066514.

LINE #11 E 516433.50 / N 7182610  
 E 516439.50 / N 7066514.

Saturday 15 MAR 08

1 Vessel midnite position: LAT  $26^{\circ}11'S$  LON  $111^{\circ}04'E$ .  
 ✓ Vessel heading south & collecting sonar data of Kermoran wreck site.  
 0219. Tow fish adjacent to turn off point on line #10, begin cable recovery for turn Fix # 7984  
 0230. projected 0700 position for rendezvous  $111^{\circ}07'E$   $26^{\circ}10'S$ .  
 0330. Commence turn to port for line #10, cease logging Fix # 8057  
 ✓ Cable out = 3799, Tow Depth = 1177, Layback Tow-Fish = 3045  
 0500. Vessel on line #10, commence pay-out tow cable, commence logging Fix # 8058  
 ✓ Cable out = 3862, Tow Depth = 1666, Layback Tow-Fish = 2888.  
 0505. Cable out & tow fish on-line @ depth Fix = 8123. (tow fish to turn > 10 km)  
 0845. Fish in virgin territory Fix # 8282  
 ✓ Cable out = 5829, Tow Depth = 2372 Layback Tow-Fish = 4413.  
 0943. Cray fish vessel alongside, about to rough to maintain station.  
 1029. Tow Fish departs survey grid 'B'. Fix # 8386.  
 ✓ Cable out = 5982, Tow Depth = 2462, Layback Tow-Fish = 4515  
 30 instructed to continue surveying for next 30 minutes.  
 1100. Commence recovery of tow fish for turn Fix # ~~8386~~ 8418.  
 1107. next line to be 4500 m to east, & top end of line to be @ Fix 8418.  
 1111. Vessel deviating to starboard of line to provide lee for cray boat.  
 Transfer of materials to & from cray boat complete; Recorder track =  
 1229. EOL LINE 10 FIX 8506  
 1236. BEGIN TURN / CEASE HEAVING IN CABLE  
 1331. TURN COMPLETED  
 1350. PAYING OUT CABLE  
 1356. SOL LINE 11 FIX 8507 HP 6180° 0015-LINE 11, 0001. db  
 1532. CEASED PAYING OUT CABLE  
 2328. VESSEL DEPARTS SURVEY GRID

38

Line #12 = Line #11 + 4500 in easting.

Line #12

LINE #11 E 516439.5 + 4500 = 520939.5

N 7066514.5

E 516433.5 + 4500 = 520933.5

N 7112705.0

Sunday 16 MAR 08

0000 Vessel midnite position: LAT 26° 28' LON 111° 09'  
 ✓ Vessel continuing down line #11.  
 0033 Tow fish departs survey grid 'B' fix # 9143  
 ✓ Cable out = 6907, Fish Depth = 2497, Layback Tow - Fish = 5387.  
 ✓ commence cable recovery in preparation for turn  
 0155 cease recording for line #11, Fix # 9224  
 ✓ line #12 loaded to database  
 0209 commence turn to new line #12.  
 0325 complete turn to new line #12, commence payout cable.  
 0342 commence recording line #12, Fix # 9225. 0016-Line12-0001.db.  
 0559 vessel enters survey grid Fix 9362  
 ✓ Cable out = 7166, Fish Depth = 2459, Layback Tow - Fish = 5656.  
 0703 Tow fish enters survey grid Fix # 9425  
 ✓ Cable out = 7367, Fish Depth = 2437, Layback Tow - Fish = 5846.  
 3 Hard target to starboard, W.D. = 2468 m, Fix # 9667.  
 ✓ Cable Out 6747, Fish Depth = 2175, Layback Tow - Fish = 5378.  
 1130 requested to make new line at line 12 + 1700 EAST, (Sydney Reel 1)  
 1156 CABLE BEING HEAVED IN  
 1253 EOL LINE 12 FIX 9775  
 1317 BEGIN TURN TO STBD  
 1425 TURN COMPLETED  
 1437 PAVING OUT CABLE  
 1438 SOL SYDNEY REEL 1 FIX 9776 HDG 180° 0017-SYDNEYREEL1-0001.db  
 1558 VESSEL ENTERING SEARCH POLYGON  
 1625 FINISHED PAVING OUT CABLE  
 1924 EOL SYDNEY REEL 1 FIX 10061  
 2051 TURN COMPLETED  
 2116 SOL SYDNEY 1.5K HDG 319° FIX 10062 0018-SYDNEY 1.5K-0001.db  
 2310 HEAVING IN CABLE  
 2314 EOL SYDNEY 1.5K FIX 10179



SUNDAY 16 MARCH



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## MONDAY 17 MAR 08.

1 '1	Vessel midnite position: LAT 26°10' LON 111°10'
—	Vessel turning to new line: Sydney 0.75K.
0031	Vessel commence turn to port, cable out = 3206.
0145	Vessel complete turn, commence cable payout, 12 km to line start.
0309	Commence recording for line Sydney 0.75K. Fix 10180
—	Cable out = 5410, Fish Depth = 2018, Layback Tow-Fish = 4204.
0341	small hard target on port side of run-in line, note run-in line if extended passes through KORMORAN site. Fix $\approx$ 10213
—	E 519107, N 7099598.8 = ship position; E 515921, N 7103271 = fish position
0416	Vessel start of line
—	Cable out = 6776, Fish Depth = 2421, Layback Tow-Fish = 5296.
0521	SOL for tow fish Fix # 10313
—	Cable out = 7216, Fish Depth = 2357, Layback tow-fish = 5727.
0526	Sydney on Starboard side, approx 65m off-track.
35	commence cable in for fish recovery.
0558	cease recording. EOL Fix # 10350.
0826	Sonar fish @ 500m cable out waiting for recovery.
0901	depressor on deck.
0911	tow fish (30KHz) on deck.
0920	Vessel proceeding towards KORMORAN.
1027	altered scale factor for cable counter to 1.0 because of change at cable count.
1100	Geotiff of Kormoran sidescan record added to Navigation display.
1115	created line Kormoran500 offset 125 m west of Kormoran.
1136	beasander arrives @ site of Kormoran
1200	ceremony for Kormoran, speeches, etc.
1453	PREPARE TO DEPLOY 60KHz TOWFISH
1512	TOOL BOX TALK COMPLETED / BEGIN LAUNCH
1515	TOWFISH IN WATER
1517	DEPRESSOR IN WATER
1521	BEGIN TURN

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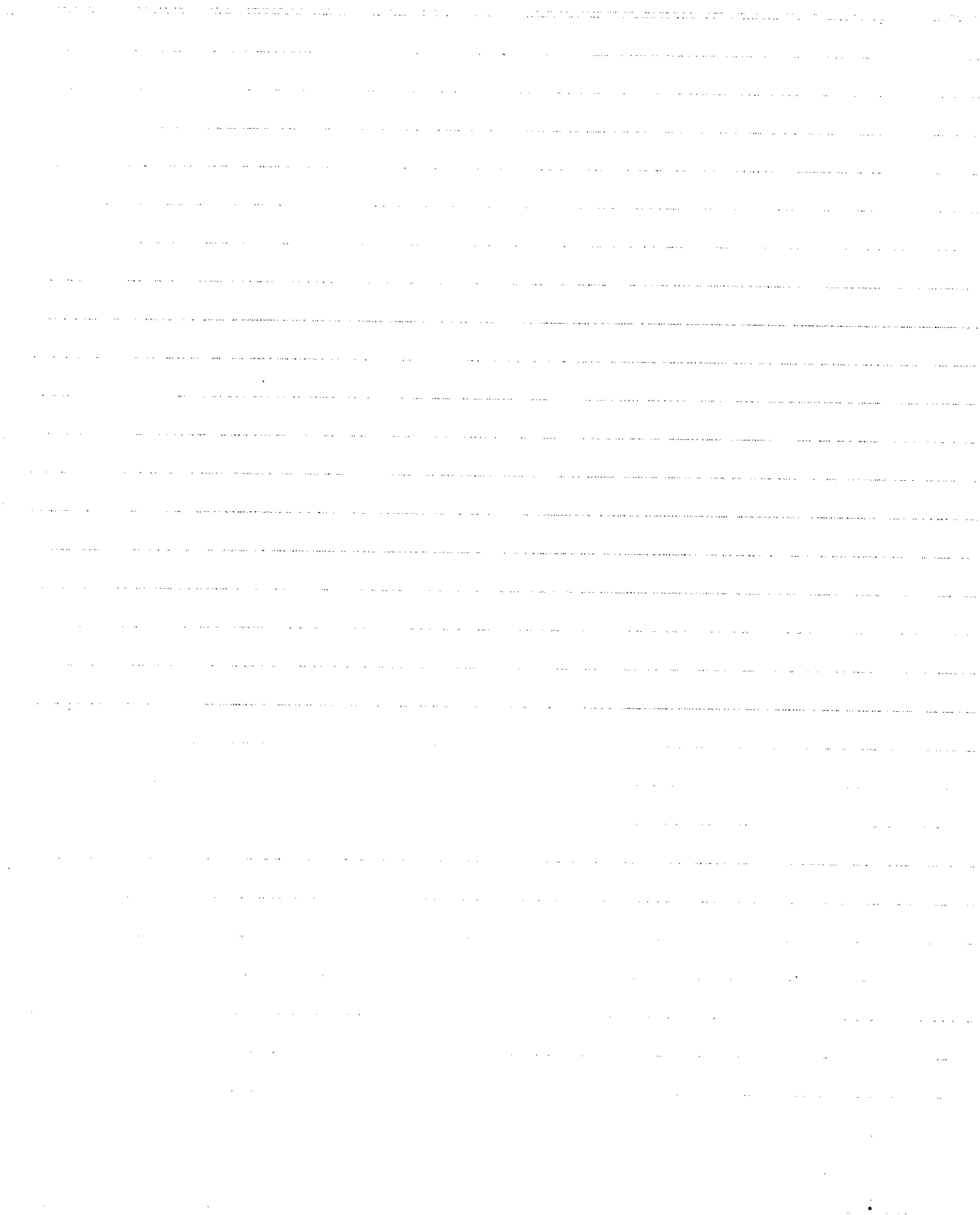
MONDAY 17TH MARCH 2008

1534 ALTERING COURSE TO RECOVER TOWFISH  
1600 DEPRESSOR ONBOARD  
1610 TOWFISH ON DECK  
1844 PREPARE TO DEPLOY TOWFISH  
1904 TOWFISH IN WATER  
1905 DEPRESSOR IN WATER  
2150 MASTER INFORMED NAV THAT ENVIRONMENTAL CONDITIONS  
AND ENGINE CONSTRAINTS ARE MAKING IT DIFFICULT TO  
MAINTAIN TRACK. RB INFORMED BY NM.  
2349 SOL AMS60 - KORMORAN 500m FIX 10351 HDG 026°  
0020-AMS60 - KORMORAN 500m db



Tuesday 18 MAR 08

0001 Vessel midnite position: LAT 26° 04' LON 111° 05'  
 ✓ Vessel completing 60 KHz scan of KORMORAN on 026°  
 0011 Fix # 10374 KORMORAN on starboard side.  
 ✓ towfish telemetry faulty - depth value erratic, causing erratic layback.  
 0033 commence cable recovery, fish altitude = 35m.  
 0110 commence turn to starboard.  
 0133 cease logging Fix 10453.  
 0647 Vessel on run-in line for Sydney DSQL 14,000.  
 ✓ Cable out = 2349, paying out.  
 0750 intermittent ground faults on 60 KHz SSP.  
 1000 commence recording SOL AMS 60 - Sydney 500m Fix # 10454.  
 ✓ Cable out = 3770, Fish depth = 2415, Layback Tow - Fish = 2895.  
 1115 Vessel SOL AMS 60 - Sydney 500m, Fix # 10528  
 ✓ Cable out = 3989, Fish depth = 2385, Layback Tow - Fish = 3195.  
 1130 Vessel EOL AMS 60 - Sydney 500m, Fix # 10543.  
 ✓ Cable out = 4208, Fish depth = 2404, Layback Tow - Fish = 3466.  
 1230 EOL AMS 60 - SYDNEY 500m FIX 10602  
 1231 HEAVING IN CABLE  
 1348 BEGIN TURN  
 1424 TURN COMPLETED  
 1521 PREPARE TO RECOVER TOWFISH  
 1535 DEPRESSOR ON DECK  
 1543 TOWFISH ON DECK  
 1547 TRANSIT TO HTAS SYDNEY II SITE  
 1600 MEMORIAL SERVICE  
 1624 TRANSIT TO GERALDTON



Wednesday 19 MAR 08.

0100

Vessel midrite position LAT  $26^{\circ}45'$  LON  $111^{\circ}51'$   
Vessel en-route to Geraldton,





THURSDAY 20TH MARCH 2008

0800

CONTINUE PASSAGE TO GERALDTON

1240

BERTHING GERALDTON, &amp; commence demob of Williamson sonar equipment.



FRIDAY 21 MAR 08.

11.

Vessel midnite position : LAT  $28^{\circ} 46'$  LON  $114^{\circ} 36'$   
Vessel alongside wharf @ Geraldton.



## SATURDAY 22 MARCH

001	ALONGSIDE GERALDTON WHARF 28°46'19.7"S 114°36'04.8"E
0730	CONTINUE ROV MOBILISATION
0800	TEST HIPAP INTERFACE WITH QINSY
1000	IN STORES (FOOD)
1300	S. BAGNELL DEPARTS



SUNDAY 23 MARCH 2008

2001	ALONGSIDE GERALDTON WHARF 28°46'23"S 114°36'01"E
0700	CONTINUE ROV MOBILISATION
2010	ROV OFF DECK
2105	ROV ON DECK





MONDAY 24TH MARCH 2008

0700

CONTINUE ROV MOBILISATION

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes the need for transparency and accountability in financial reporting.

2. The second part outlines the various methods used to collect and analyze data. This includes both qualitative and quantitative approaches, ensuring a comprehensive understanding of the subject matter.

3. The third part details the results of the research, highlighting key findings and trends. It also discusses the limitations of the study and areas for future research.

4. The fourth part provides a conclusion and summary of the overall findings. It reiterates the significance of the research and its implications for the field.

5. The fifth part includes a list of references and sources used throughout the document. This ensures that all information is properly cited and verifiable.

6. The sixth part contains a glossary of terms and definitions, providing clarity for readers who may be unfamiliar with certain terminology.

7. The seventh part discusses the ethical considerations and potential conflicts of interest. It ensures that the research was conducted in a responsible and unbiased manner.

8. The eighth part provides a detailed breakdown of the data, including tables and charts. This visual representation helps in understanding the complex information presented.

9. The ninth part includes a section on the methodology used, explaining the rationale behind the chosen approach and the steps taken to ensure accuracy.

10. The tenth part discusses the broader context of the research, including its relevance to current issues and its potential impact on the field.

11. The eleventh part provides a final summary and key takeaways from the document. It reinforces the main points and offers a clear path forward for future studies.

12. The twelfth part includes a list of appendices, which contain additional information and data that support the main findings of the research.

13. The thirteenth part discusses the funding sources and any potential biases that may have influenced the research. This transparency is crucial for maintaining the integrity of the study.

14. The fourteenth part provides a detailed analysis of the data, including statistical tests and interpretations. This section is critical for understanding the significance of the findings.

15. The fifteenth part includes a section on the limitations of the study, acknowledging the constraints and potential weaknesses of the research.

16. The sixteenth part discusses the implications of the findings for practice and policy. It offers recommendations based on the research results to inform decision-making.

17. The seventeenth part provides a final conclusion and a call to action, encouraging further research and collaboration in the field.

18. The eighteenth part includes a list of acknowledgments, thanking those who provided support and assistance throughout the research process.

19. The nineteenth part discusses the overall impact of the research and its contribution to the field. It highlights the key achievements and the potential for future discoveries.

20. The twentieth part provides a final summary and a list of references, ensuring that all information is properly documented and accessible.

TUESDAY 25 MARCH 2008

0100

CONTINUE ROV MOBILISATION

WEDNESDAY 26 MARCH 2008

0700

CONTINUE ROV MOB

THURSDAY 27 MARCH 2008

0700

CONTINUE ROV MOB

FRIDAY 28 MARCH 2008

0700

CONTINUE ROV MOB



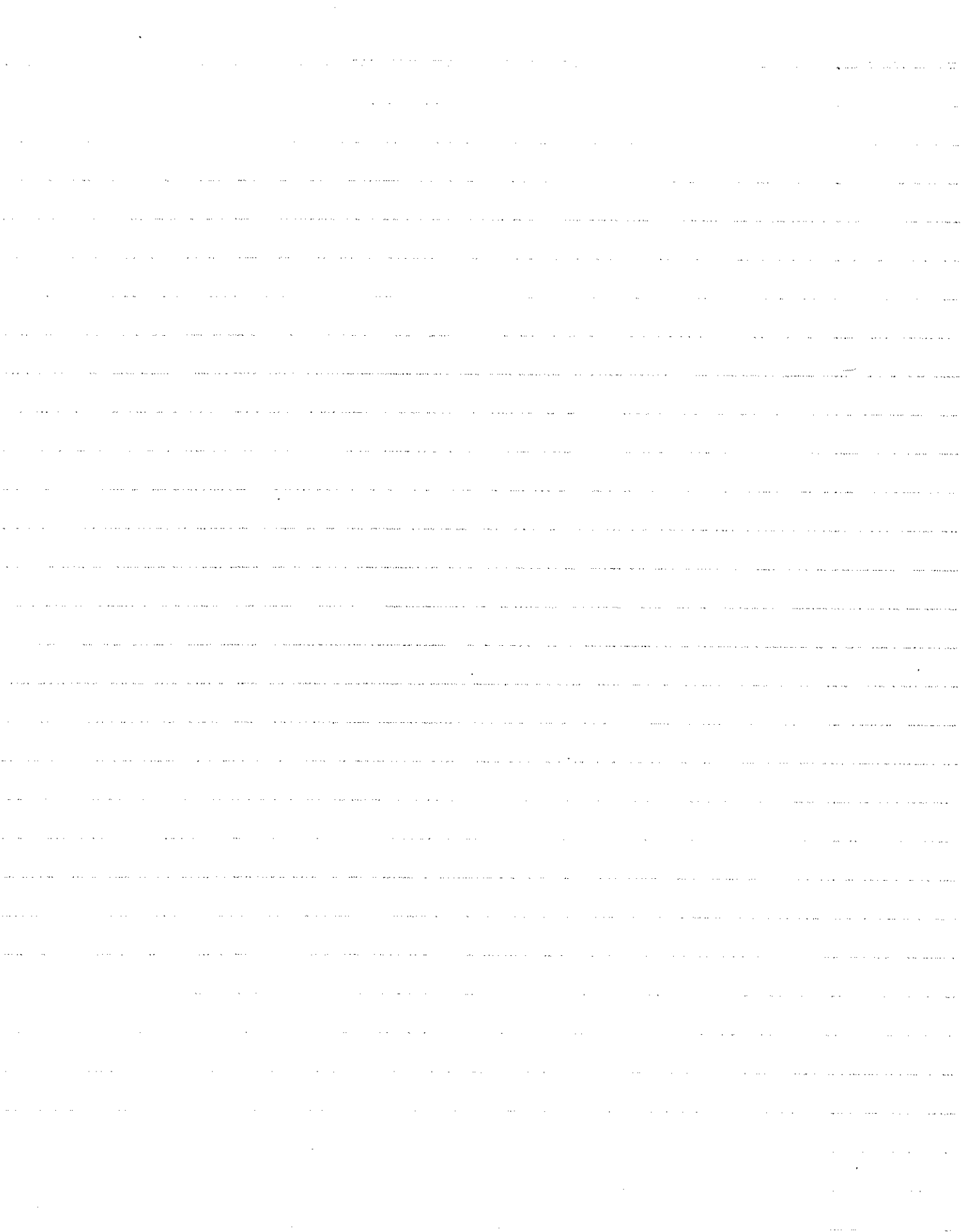
SATURDAY 29 MARCH 2008

0700

CONTINUE ROV MOBILISATION

1510

DEPART GERALDTON WHARF



SUNDAY 30 MARCH 2008

0001 VESSEL POSITION  $28^{\circ}50'07.5''S$   $113^{\circ}38'38.4''E$   
0013 HIPAP TRANSCIEVER DEPLOYED  
0033 Do not launched due to weather conditions  
0048 HIPAP TRANSCIEVER RAISED  
0300 CLOCKS RETARDED 1HR TO GMT +8.0 HRS  
0000  $28^{\circ}13'25''S$   $113^{\circ}01'56''E$



bb

TUESDAY 0 APRIL  
~~Monday 31 March~~ 2008

0001 Vessel Position  $26^{\circ} 36' 23,9''$  S  $111^{\circ} 32' 27,6$  E

0200 ARRIVE IN VICINITY OF HMAS SYDNEY II LOCATION

0221 Deploy Hilar trceiver pole.

0305 ROV off deck

0357 ROV on deck (04H02)

Checked the following:

ROV Digiquartz, ROV Compass, Mini SVP

TMS Digiquartz.

Video overlay.

The following equipment is not working:

ROV Bathy,

Beacons 32, 34 and 76 only worked in Transponder mode

0900 ROV BATHY NOW SERVICABLE (PORT CHANGED TO SOLVE PROBLEM)

68

APRIL  
Wednesday 02 March 2008

0001 Vessel Position  $26^{\circ}14'33.2''$  S  $111^{\circ}13'02.3''$  E  
0307 HiPar transceiver raised



APRIL  
Thursday 03 March 2008

0001	26° 12' 00,0" S    111° 12' 48,7" E
0909	HIPAP POLE DEPLOYED
1134	ROV IN WATER - Dive 5
	Checked the following:
	ROV Digiquartz, TMS Digiquartz, ROV Compass,
	Mini SVP, Video overlay, Beacons B34 & B76
	ROV Bathy intermittent.
1157	Logging SOL Dive 4
	0022. Dive 4. 0001. db. storage file
1325	MINI SVP NOT OUTPUTTING SV DATA ONLY ZERO VALUES.
1355	EOL DIVE 4 LOGGING STOPPED
1400	VESSEL MOVING TO POSITION 50m ABEAM OF SYDNEY
	TO DEPLOY ROV TO DEPTH
143	SOL DIVE 4 FILE 0023
1510	HMAS SYDNEY SIGHTED
1528	FIX 10607 TURRET LOCATION DEPTH ≈ 2470m
1550	FIX 10608 STERN LOCATION DEPTH ≈ 2480
	E 521458 N 7097088
1623	FIX 10609 AFT FUNNEL SECTION
1626	FIX 10610 CATAPULT STAND
1630	FIX 10611 LIFERAFT STAND
1638	FIX 10612 CRANE
1643	FIX 10613 ANCHOR
1658	FIX 10614 BRIDGE
1702	FIX 10615 "B" TURRET
1709	FIX 10616 "A" TURRET
1718	FIX 10617 BOW POSITION
1729	HEAVING IN TO BRING GARAGE TO SAFE DISTANCE ABOVE
	HMAS SYDNEY!!



THURSDAY 03 MAR APRIL 2008

15	VERIPOS PRIMARY GPS UNIT UNSERVICEABLE SWITCHED TO SECONDARY VERIPOS GPS AND PPS TIMING CHANGED OVER. GPS OFFSET ENTERED INTO HIPAP SYSTEM.
1932	RECOVERING ROV TO DECK
1937	EOL DIVE 4
2100	ROV ON DECK





Friday 04 April 2008

0601 26° 14' 42.2" S 111° 12' 54.2" E  
 0651 ROV off deck  
 0701 SOL Dive S 0024 - Dive S.0001.db Storage file  
 Tritech Bath intermittent.  
 0822 ROV at depth 2440 meters  
 0834 ROV on seabed 2491.1 meters - Corrected 2480 m  
 0840 Stopped SOL  
 0842 Add offset to ROV Digiquantiz -11.7 meters  
 0843 SOL Storage file 0025 - Dive S.0001.db  
 0856 HMAS Sydney sighted  
 0858 Fix 10618 Starboard fwd bow  
 1014 Load SUP data into HiPap.  
 1028 Fix 10619 A turret  
 1132 Fix 10620 On top of A turret  
 1057 Fix 10621 Pressure hand valve  
 1205 Fix 10622 "A TURRET"  
 1251 Fix 10623 WHEELHOUSE  
 1255 Fix RANGE FINDER 10624  
 1258 ~~Fix~~ Fix 10625 DIRECTOR CONTROL TOWER  
 1311 Fix 10626 PEDESTAL 0.5" QUAD GUN  
 1326 Fix 10627 BLACKSMITHS WORKSHOP  
 1330 Fix 10628 FORECAST STUMP  
 1335 Fix 10629 FWD FUNNEL  
 1339 SHIP LOST POSITIONING ROV RETURNING TO TMS  
 1345 SHIP POSITIONING UNDER CONTROL ROV BACK IN POSITION  
 1356 Fix 10630 BAKERY  
 1407 Fix 10631 CATAPULT BARBETTE  
 1411 Fix 10632 4" ANGLE GUN  
 1435 Fix 10633 OFFICERS GALLEY

6

FRIDAY 04 APRIL 2008

1437	FIX 10634 "X" TURRET
1445	FIX 10635 "Y" TURRET
1450	FIX 10636 CAPSTAN ON 1/4 DECK
1459	FIX 10637 STERN
1545	MOVING ROV TO STERN OF SYDNEY TO INVESTIGATE DEBRIS ON PORT SIDE AFT.
1637	MOVING VESSEL TO STBD SIDE OF SYDNEY TO COMMENCE VISION OF STBD SIDE SYDNEY
1705	COMMENCING SURVEY STBD SIDE
1717	FIX 10638 FUNNEL ON TURRET (POSSIBLY)
1738	FIX 10639 PERISCOPE ON TURRET
1740	ROV RETURNING TO TTYS TO TAKE BREAK
2032	RECOVERING ROV
1'30	EOL DIVE 5



Saturday 05 April 2008

01	26° 14' 30,5" S      111° 12' 47,2" E
0944	Checked overlay + change overlay text
0947	ROV off deck
0955	SOL Sydney Debris Storage file 0026 - Sydney Debris - 0001.db
1010	Stopped logging
1011	SOL Storage file 0027 - Dive 6 - 0001.db
1054	ROV at depth 2220 meters
1119	ROV on seabed 2488
1123	Fix 10640 Mast Fwd
1204	ROV LOCATED BOW SECTION
1219	Fix 10641 BOW
1241	Fix 10642 PORT AFT SECTION OF BOW PIECE
1348	Fix 10643 "S10" TARGET AFT 0.5" QUAD MOUNT?
1431	Fix 10644 DIRECTOR CONTROL TOWER "S10"
<del>1440</del>	<del>CORRECTION TO FIX 10643 SHOULD BE "S11" TARGET</del>
1509	Fix 10645 CATAPULT (SECTION)
1527	Fix 10646 FUNNEL
1603	Fix 10647 CATAPULT
1625	Fix 10648 BOAT
1748	ROV RETURNING TO GARAGE
1835	ROV LEFT GARAGE
1917	Fix 10649 GUN DIRECTOR (HIGH ANGLE)
1926	Fix 10650 BOAT

Battle St ~~36~~ N  
NW  
 $26^{\circ}09'37.6''S$   
 $111^{\circ}03'54.9''E$

NE  $26^{\circ}09'37.6''S$   
 $111^{\circ}05'18.3''E$   
SE  $26^{\circ}10'47.1''S$   
 $111^{\circ}05'18.2''E$   
SW  $26^{\circ}10'47.1''S$   
 $111^{\circ}03'50.9''E$

SUNDAY 06 APRIL 2008

0001 VESSEL POSITION  $26^{\circ}14'39''S$   $111^{\circ}12'54''$   
 0021 FIX 10651 TORPEDO TUBES  
 0108 FIX 10652 BUNDLE OF WIRE "SS"  
 0155 FIX 10653 BOAT CRADLE  
 0210 FIX 10654 BOAT "SI"  
 0357 ROV TEAM TAKING TIMEOUT AT BOW OF VESSEL  
 0420 EXAMINING SCOUR MARK ON PORT SIDE SYDNEY.  
 0434 Recovering ROV  
 0440 EOL Dive 6. ROV in TMS.  
 0605 ROV on deck  
 0609 HiPal transceiver raised  
 0610 Start transit to Battle site  
  
 740 Arrive at Battle site, NW corner.  
 Vessel position  $26^{\circ}09'37,6''S$   $111^{\circ}03'54,9''E$   
 0744 Deploy HiPal transceiver & Recover again  
 0840 Start transit to launch site within Battle site  
 0853 Vessel position  $26^{\circ}10'03,4''S$   $111^{\circ}04'20,2''E$   
 0855 Deploy HiPal transceiver  
 0910 ROV off deck  
 0913 SOL Storage file 0029 - Dive 6 - 001.db  
 1046 ROV at depth 2739 m  
 1053 ROV at seabed 2786 m  
 1045 TRANSIT 50m SOUTH  $180^{\circ}$   
 1152 ON LOCATION SCANNING SOUTH AND WEST  
 1157 TRANSIT 50m SOUTH WEST  $225^{\circ}$   
 1204 ON LOCATION SCANNING WEST AND SOUTH  
 1209 TRANSIT 50m SOUTH  $180^{\circ}$   
 1216 ON LOCATION TARGET 60m @  $180^{\circ}$





SUNDAY 06 APRIL 2008

1219	TRANSIT 51m @ 190° TO FIRST TARGET LOCATION
1226	TARGET GEOLOGY FIX 10655
1236	TRANSIT TARGET 38m @ 149°
1241	TARGET ROCK
1255	TRANSIT 100m @ 180°
1309	TARGET ROCK
1310	TRANSIT 31m @ 180°
1318	TARGET ROCK
1321	TRANSIT 100m @ 180°
1334	@ LOCATION / BEGIN TRANSIT TO LARGE TARGETS 500m @ 180°
1358	TARGET ROCK
1404	TRANSIT 250m @ 180°
1420	@ LOCATION B1 AND B2 (ROCKS)
21	FIX B1 (ROCK) 10656
1430	RECOVER ROV BEGINS
1502	EOL DIVE 6
1610	ROV ON DECK
1625	HIPAP POLE UP / BEGIN TRANSIT TO KORMORAN SITE
1715	ARRIVE OVER KORMORAN SITE / HIPAP POLE DOWN
1750	PREPARE TO DEPLOY ROV
1825	ROV OFF DECK
2003	ROV STUCK IN GARAGE
2008	SOL DIVE 7 0032-DIVE 7-0001.db
2010	COMMENCING INVESTIGATION OF KORMORAN WHILST ROV REMAINS IN GARAGE
2112	FIX KORMORAN BOW 10657 ASSUMING IT IS DIRECTLY UNDER ROV LAUNCH NODE @ RANGE OF 10m E 507213 N 7113061
116	BEGIN RECOVERY OF ROV
2126	EOL DIVE 7



SUNDAY 06 APRIL 2007

2231

ROV ON DECK

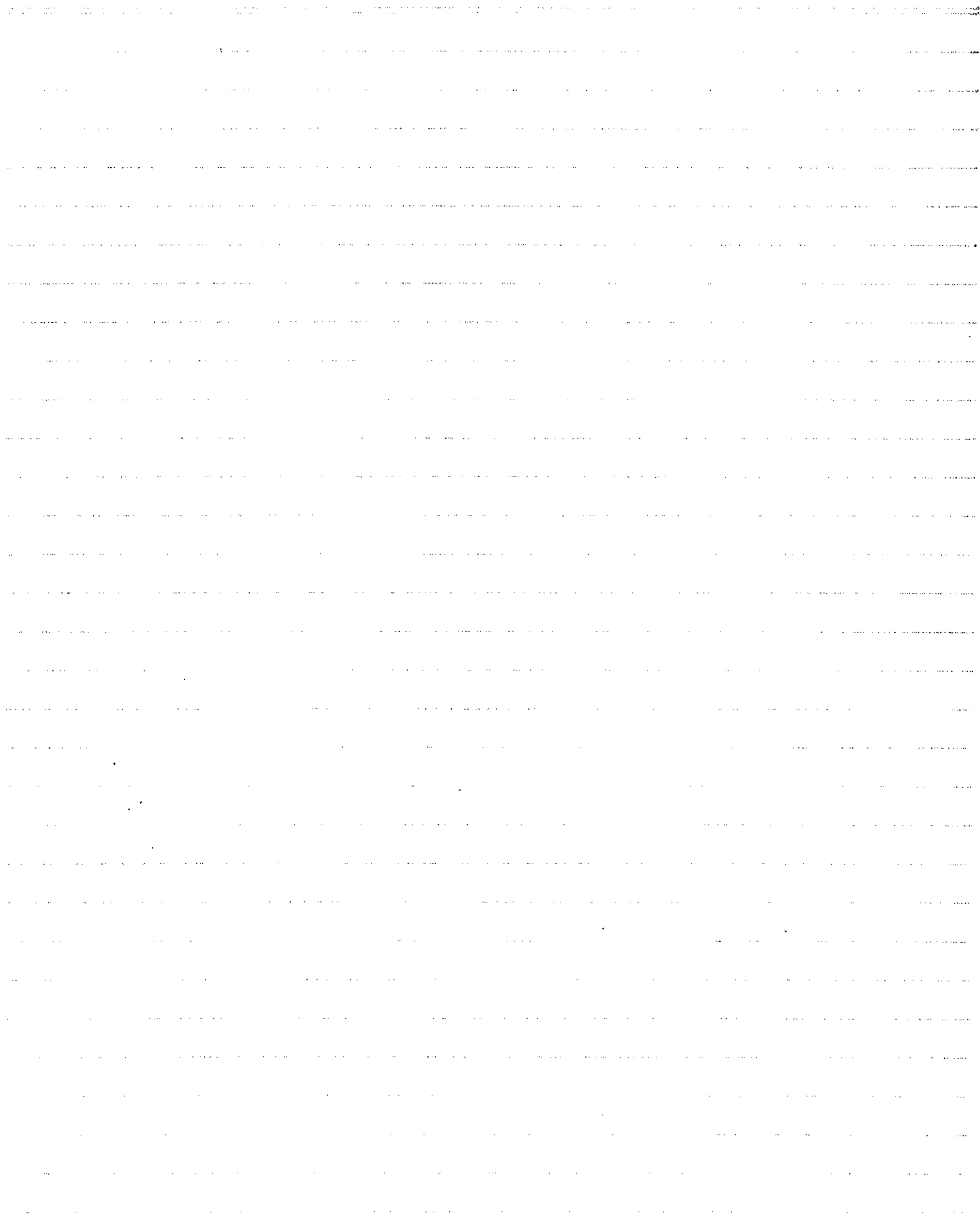
2318

ROV OFF DECK

SM 301 - KonRecon - 03\_p15 res. tif

Monday 07 April 2008

0001	Jessel Position	26°06'00,9"S 111°04'18.5"E
0016	SOL Storage file	0033 - Dive 8 - 0001.db
0032	ROV at depth	2511 meters
0050	ROV on seabed	2580 m
0059	Fix 10658	Metal plate
0106	Fix 10659	Metal plate
0112	Fix 10660	Bow of HSK Kormoran
01	Fix 10661	Forward 5.9 inch gun starboard
0206	Fix 10662	Underwater torpedo tube 0222 ROV move TMS
0256	Fix 10663	Starboard side of break off
0322	Fix 10664	Port side of break off
0413	Fix 10665	Forward 5.9 inch gun Port
0424	ROV return	to TMS
-48	Start of transit	to Way Point "Kormoran Parts"
0532	Arrive at target site 1	26°05'36,7"S 111°04'37,1"E
0552	ROV on the seabed	2584 m
0720	ROV return	to TMS
0730	Start of transit	to Way Point "Kormoran Parts 2"
0843	Arrive at target site 2	26°05'25,7"S 111°04'14,3"E
0919	ROV on the seabed	2602 m
1039	ROV return	to TMS
1045	Start recovery	on ROV
1046	EOL	Dive 8
1158	ROV on deck	
1159	Raise USBL pole	/ BEGIN TRANSIT
1358	ON SYDNEY LOCATION	
1405	HIPAP POLE DOWN	
27	ROV OFF DECK	
1442	SOL DIVE 9	0034 - DIVE 9 - 0001.db HMAS SYDNEY (OVERALL SITE)



MONDAY 07 APRIL 2008

1541	ROV @ 2440 m DEEP
1556	ON LOCATION DIRECTOR CONTROL TOWER
1606	TRANSIT 50m @ 315°
1611	AT CABLE NEAR BOW
1613	TRANSIT 40m @ 030°
1618	@ TARGET AFT SEARCH LIGHT PLATFORM
1630	TRANSIT 38m @ 035°
1635	@ TARGET LADDER
1640	TRANSIT 50m @ 126°
1646	@ TARGET FUNNEL
1656	27m @ 164°
1700	@ TARGET LARGE DEBRIS NEAR 2 AMMO BOXES
1713	TRANSIT 36m @ 120°
1716	@ PARAVEN
1721	@ TARGET METAL DEBRIS
1725	TRANSIT 20m 020°
1730	@ TARGET
1732	TRANSIT 20m 060°
1736	@ TARGET
1739	TRAN. 30m @ 157°
1744	@ TARGET UNIDENTIFIED LARGE OBJECT
1753	TRANSIT 37m @ 150°
1800	@ TARGET LARGE DEBRIS
1801	ROV RETURNING TO GARAGE
1806	ROV IN GARAGE
1807	TRANSIT 130m @ 337°
1835	ROV OUT OF GARAGE
1849	TRANSIT 42m @ 264°
1852	TARGET UNIDENTIFIABLE



4

MONDAY 07 APRIL 2008

1858	TRANSIT 75m @ 180°
1926	@ FUNNEL / TRANSIT 50m @ 270°
1941	@ TARGET PARAVEN AND MAST
2001	TRANSIT 80m @ 132°
2021	SEARCH LIGHT ON LINE 132° FROM MAST
2025	TRANSIT 30m @ 132° (MOVE AT 2001 NOT FULLY COMPLETED)
2048	@ TARGET TWISTED SUPERSTRUCTURE AND WIRE ON DRUM
2053	TRANSIT 20m @ 180°
2059	4" GUN MOUNT
2104	TRANSIT 50m @ 090°
2107	TARGET <sup>HIGH</sup> ANGLE CONTROL STATION BASE
2120	TRANSIT 20m @ 180°
2122	TARGET SUPERSTRUCTURE WITH BULKHEAD DOOR PORTHOLES AND LADDER
2136	TRANSIT 44m @ 090°
2142	TARGET TORPEDO TUBES
2156	TRANSIT 36m @ 160°
2159	TARGET BUNDLE OF WIRE
2202	TRANSIT 70m @ 210°
2212	TARGET TORPEDO TUBES
2222	TRANSIT 200m @ 190° TO HMAS SYDNEY WRECK
2250	ARRIVE STERN HMAS SYDNEY
2333	COMPLETED INVESTIGATIONS ON HMAS SYDNEY HULL
2333	TRANSIT 80m @ 260°
2343	COMPLETED DIVING OPERATIONS
2347	EOL DIVE 9



0108

ROU ON DECK

0115

HIPAP POLE UP / GATE VALVE CLOSED

0125

Transit to Geraldton