

RVIB NATHANIEL B. PALMER UNDERWAY GEOPHYSICAL WATCH LOG

NOTE: CELLS ARE FORMATTED TO RECEIVE ONLY NUMBERS, NO SPACES, DECIM.
For questions about the formatting of this spreadsheet see R. Petterson

Date	Julian Day	Time (GMT)	Latitude (N)	Longitude (W)	Speed (Knots)
08/31/03	243	00:15	53 57.451	166 27.791	13.6
08/31/03	243	00:30	54 54.451	166 26.066	13.4
08/31/03	243	01:30	53 56.952	166 12.343	06.8
08/31/03	243	01:45	53 56.952	166 10.072	12.5
08/31/03	243	02:00	53 53.789	166 06.040	14.2
08/31/03	243	02:15	53 53.299	166 00.644	13.0
08/31/03	243	02:30	53 50.303	165 59.986	13.1
08/31/03	243	02:45	53 47.702	165 59.901	10.5
08/31/03	243	03:00	53 45.078	165 59.381	10.7
08/31/03	243	03:15	53 42.358	165 58.860	10.7
08/31/03	243	03:30	53 39.694	165 58.294	11.0
08/31/03	243	03:45	53 36.849	165 57.760	11.0
08/31/03	243	04:00	53 34.041	165 57.087	11.6
08/31/03	243	04:15	53 31.144	165 56.639	11.2
08/31/03	243	04:30	53 28.476	165 56.458	11.0
08/31/03	243	04:45	53 25.607	165 56.113	11.0
08/31/03	243	05:00	53 22.946	165 55.606	07.9
08/31/03	243	05:15	53 21.364	165 55.292	07.8
08/31/03	243	05:30	53 18.962	165 54.882	11.6
08/31/03	243	05:45	53 16.049	165 54.405	11.6
	243	06:00	53 13.183	165 53.876	11.7
	243	06:15	53 10.244	165 53.280	12.1
	243	06:30	53 07.272	165 52.761	11.9
	243	06:45	53 04.318	165 52.156	11.6
	243	07:00	53 01.449	165 51.430	11.5
	243	07:15	52 58.647	165 50.855	07.6
	243	07:30	52 56.535	165 50.530	11.8
	243	07:45	52 53.690	165 49.921	11.6
	243	08:00	52 50.876	165 49.282	11.5
	243	08:15	52 48.043	165 48.523	11.4
	243	08:30	52 45.250	165 48.136	11.2
	243	08:45	52 43.223	165 47.795	10.2
	243	09:00	52 40.467	165 47.335	11.1
	243	09:15	52 37.644	165 46.828	11.0
	243	09:30	52 35.013	165 46.265	10.9
	243	09:45	52 32.240	165 45.807	11.4

243	10:00	52 29.458	165 45.274	11.3
243	10:15	52 26.590	165 44.841	11.3
243	10:30	52 23.858	165 44.357	11.1
243	10:45	52 21.077	165 43.841	11.3
243	11:00	52 18.298	165 43.333	11.3
243	11:15	52 15.531	165 41.868	11.3
243	11:30	52 12.809	165 42.407	11.6
243	11:45	52 09.976	165 41.886	11.4
243	12:00	52 07.006	165 41.325	11.1
243	12:15	52 04.393	165 40.821	11.1
243	12:30	52 01.560	165 40.256	10.9
243	12:40	51 59.670	165 40.173	11.1
243	12:45	51 58.972	165 40.473	11.1
243	13:00	51 56.243	165 41.601	10.9
243	13:15	51 53.575	165 42.706	10.8
243	13:30	51 51.000	165 43.873	11.1
243	13:45	51 48.351	165 44.957	08.4
243	14:00	51 45.747	165 46.040	11.1
243	14:17	51 42.786	165 47.266	05.5
243	14:30	51 41.835	165 47.680	02.0
243	14:36	51 41.820	165 47.723	00.3
243	14:45	51 41.822	165 47.724	00.2
243	15:00	51 41.822	165 47.725	00.3
243	15:15	51 41.822	165 47.724	00.3
243	15:24	51 41.045	165 48.039	06.2
243	15:27			
243	15:30	51 40.147	165 48.399	11.3
243	15:45	51 37.293	165 49.591	11.4
243	16:00	51 34.743	165 50.660	11.7
243	16:15	51 31.760	165 51.940	11.9
243	16:30	51 28.948	165 53.224	11.8
243	16:47	51 25.665	165 54.618	11.8
243	17:00	51 23.214	165 55.646	11.8
243	17:15	51 20.347	165 56.303	11.4
243	17:30	51 17.515	165 56.477	05.8
243	17:45	51 15.821	165 56.664	11.4
243	18:00	51 13.043	165 57.019	11.1
243	18:08			
243	18:15	51 10.342	165 57.306	10.9
243	18:19			
243	18:31	51 07.285	165 57.588	11.0
243	18:45	51 04.938	165 57.790	10.7
243	19:00	51 02.233	165 57.981	11.2
243	19:15	50 59.253	165 58.131	11.1

31-Aug	243	19:30	50 56.708	165 58.326	11.2
31-Aug	243	19:45	50 53.959	165 58.629	11.0
31-Aug	243	20:00	50 51.091	165 59.040	11.3
31-Aug	243	20:15	50 48.326	165 59.376	10.8
31-Aug	243	20:30	50 45.542	165 59.823	11.4
31-Aug	243	20:45	50 42.839	166 00.335	11.2
31-Aug	243	21:00	50 40.086	166 00.911	11.4
31-Aug	243	21:15	50 37.235	166 01.615	11.3
31-Aug	243	21:30	50 34.306	166 02.362	11.7
31-Aug	243	21:45	50 31.490	166 03.247	11.7
31-Aug	243	22:00	50 28.619	166 04.244	11.4
31-Aug	243	22:15	50 25.848	166 05.283	11.6
31-Aug	243	22:30	50 23.071	166 06.365	11.4
31-Aug	243	22:45	50 20.214	166 07.552	11.4
31-Aug	243	23:00	50 17.555	166 08.716	11.3
31-Aug	243	23:15	50 14.851	166 10.053	11.2
31-Aug	243	23:30	50 12.212	166 11.352	11.1
31-Aug	243	23:45	50 09.544	166 12.656	11.2
1-Sep	244	00:00	50 06.832	166 14.052	11.5
1-Sep	244	00:15	50 04.133	166 15.441	11.3
1-Sep	244	00:30	50 06.133	166 16.826	11.5
1-Sep	244	00:45	49 58.597	166 17.942	11.2
1-Sep	244	01:00	49 55.879	166 19.017	11.4
1-Sep	244	01:15	49 53.102	166 20.129	11.3
1-Sep	244	01:30	49 50.364	166 21.230	11.5
1-Sep	244	01:45	49 47.632	166 22.303	11.3
1-Sep	244	02:00	49 44.890	166 23.277	11.1
1-Sep	244	02:15	49 42.213	166 24.144	11.2
1-Sep	244	02:30	49 39.458	166 25.022	11.1
1-Sep	244	02:45	49 36.797	166 26.037	10.7
1-Sep	244	03:00	49 34.199	166 27.054	10.7
1-Sep	244	03:15	49 31.661	166 27.975	10.9
1-Sep	244	03:30	49 29.032	166 28.892	10.8
1-Sep	244	03:45	49 26.478	166 29.734	10.5
1-Sep	244	04:00	49 23.930	166 30.699	10.3
1-Sep	244	04:15	49 21.427	166 31.610	10.5
1-Sep	244	04:30	49 18.914	166 32.484	10.5
1-Sep	244	04:45	49 16.198	166 33.660	10.5
1-Sep	244	05:00	49 13.639	166 34.886	10.9
1-Sep	244	05:15	49 11.059	166 36.117	10.8
1-Sep	244	05:30	49 08.480	166 37.411	10.9
1-Sep	244	05:45	49 05.890	166 38.792	11.1
1-Sep	244	06:00	49 03.294	166 40.237	11.3
1-Sep	244	06:15	49 00.635	166 41.717	11.6

1-Sep	244	06:30	48 57.960	166 43.202	11.3
1-Sep	244	06:45	48 55.320	166 44.704	11.2
1-Sep	244	07:00	48 52.723	166 46.191	11.0
1-Sep	244	07:15	48 50.175	166 47.674	11.4
1-Sep	244	07:30	48 47.620	166 49.159	10.7
1-Sep	244	07:45	48 45.076	166 50.614	11.2
1-Sep	244	08:00	48 42.652	166 52.050	10.9
1-Sep	244	08:15	48 39.899	166 53.500	10.9
1-Sep	244	08:30	48 37.320	166 54.956	11.0
1-Sep	244	08:45	48 34.751	166 56.401	10.7
1-Sep	244	09:00	48 32.213	166 57.872	11.4
1-Sep	244	09:15	48 29.639	166 59.370	11.1
1-Sep	244	09:30	48 27.068	167 00.911	10.9
1-Sep	244	09:45	48 24.437	167 02.285	10.9
1-Sep	244	10:00	48 21.774	167 03.563	11.4
1-Sep	244	10:15	48 19.061	167 04.796	11.2
1-Sep	244	10:30	48 16.343	167 05.959	11.0
1-Sep	244	10:45	48 13.644	167 07.096	11.0
1-Sep	244	11:00	48 10.960	167 08.240	11.3
1-Sep	244	11:15	48 08.283	167 09.414	10.8
1-Sep	244	11:30	48 05.720	167 10.577	10.8
1-Sep	244	11:45	48 02.940	167 11.854	10.9
1-Sep	244	12:00	48 00.353	167 12.960	11.2
1-Sep	244	12:15	47 57.630	167 14.160	11.1
1-Sep	244	12:30	47 54.972	167 15.372	11.3
1-Sep	244	12:45	47 52.268	167 16.663	11.3
1-Sep	244	13:00	47 49.656	167 17.999	11.2
1-Sep	244	13:15	47 47.015	167 19.366	11.1
1-Sep	244	13:30	47 44.286	167 20.800	10.8
1-Sep	244	13:45	47 41.751	167 22.167	10.7
1-Sep	244	14:00	47 39.230	167 23.345	10.4
1-Sep	244	14:07			
1-Sep	244	14:15	47 37.888	167 24.148	01.8
1-Sep	244	14:30	47 37.889	167 24.175	00.2
1-Sep	244	14:45	47 37.891	167 24.171	00.3
1-Sep	244	15:00	47 37.869	167 24.282	04.0
1-Sep	244	15:11	47 36.701	167 24.762	06.0
1-Sep	244	15:15	47 36.349	167 24.889	06.0
1-Sep	244	15:30	47 34.090	167 25.860	10.6
1-Sep	244	15:45	47 31.698	167 26.967	10.4
1-Sep	244	15:56			
1-Sep	244	16:00	47 29.246	167 28.134	06.6
1-Sep	244	16:05			
1-Sep	244	16:15	47 27.875	167 28.782	06.8

1-Sep	244	16:30	47 26.338	167 29.525	06.6
1-Sep	244	16:45	47 24.534	167 30.345	08.2
1-Sep	244	17:00	47 22.840	167 31.089	10.5
1-Sep	244	17:15	47 20.387	167 32.111	10.2
1-Sep	244	17:30	47 17.884	167 33.157	10.3
1-Sep	244	17:45	47 15.407	167 34.301	10.7
1-Sep	244	18:00	47 12.966	167 35.841	10.4
1-Sep	244	18:15	47 10.618	167 37.386	10.5
1-Sep	244	18:30	47 08.322	167 38.962	10.7
1-Sep	244	18:45	47 05.779	167 40.805	10.9
1-Sep	244	19:00	47 03.572	167 42.447	10.9
1-Sep	244	19:15	47 00.954	167 44.381	11.2
1-Sep	244	19:30	46 58.625	167 45.048	10.4
1-Sep	244	19:45	46 55.939	167 45.022	10.5
1-Sep	244	20:00	46 53.289	167 45.004	10.8
1-Sep	244	20:15	46 50.598	167 44.999	10.8
1-Sep	244	20:30	46 47.918	167 45.014	10.8
1-Sep	244	20:45	46 45.025	167 45.024	11.1
1-Sep	244	21:00	46 42.508	167 45.043	10.9
1-Sep	244	21:15	46 39.790	167 45.051	10.6
1-Sep	244	21:30	46 37.213	167 45.009	10.6
1-Sep	244	21:47	46 33.943	167 45.040	10.9
1-Sep	244	21:58			
1-Sep	244	22:00	46 31.985	167 45.077	05.6
1-Sep	244	22:15	46 30.735	167 45.151	04.7
1-Sep	244	22:22			
1-Sep	244	22:30	46 28.879	167 45.104	10.8
1-Sep	244	22:45	46 26.198	167 45.051	10.7
1-Sep	244	23:00	46 23.562	167 45.022	10.1
1-Sep	244	23:15	46 20.965	167 44.907	10.4
1-Sep	244	23:30	46 18.377	167 44.948	10.5
1-Sep	244	23:35			
1-Sep	244	23:45	46 16.646	167 44.933	05.2
2-Sep	245	00:00	46 15.257	167 44.899	05.5
2-Sep	245	00:10			
2-Sep	245				
2-Sep	245	00:15	46 13.588	167 44.913	10.1
2-Sep	245	00:28			
2-Sep	245	00:30	46 11.024	167 44.905	10.4
2-Sep	245	00:40			
2-Sep	245				
2-Sep	245	00:45	46 08.448	167 44.906	10.4
2-Sep	245	00:48			
2-Sep	245	00:52			

2-Sep	245	01:00	46 08.448	167 44.906	10.8
2-Sep	245	01:15	46 03.100	167 44.942	10.6
2-Sep	245	01:30	46 00.439	167 44.905	10.5
2-Sep	245	01:40			
2-Sep	245	01:45	45 57.338	167 44.951	10.5
2-Sep	245	01:49			
2-Sep	245				
2-Sep	245	01:53			
2-Sep	245	02:00	45 55.215	167 44.980	10.4
2-Sep	245	02:15	45 52.652	167 45.017	10.3
2-Sep	245	02:24			
2-Sep	245	02:30	45 50.087	167 44.967	10.2
2-Sep	245	02:45	45 47.418	167 44.917	10.8
2-Sep	245	02:50			
2-Sep	245	02:55			
2-Sep	245	03:00	45 44.778	167 44.918	10.7
2-Sep	245	03:15	45 42.185	167 44.978	10.4
2-Sep	245	03:22			
2-Sep	245	03:25			
2-Sep	245	03:30	45 39.493	167 44.930	10.5
2-Sep	245	03:35			
2-Sep	245	03:43			
2-Sep	245	03:45	45 36.930	167 44.907	10.4
2-Sep	245	03:53			
2-Sep	245	04:00	45 34.295	167 44.965	10.7
2-Sep	245	04:15	45 31.604	167 45.005	10.5
2-Sep	245	04:30	45 28.938	167 45.083	10.5
2-Sep	245	04:40			
2-Sep	245	04:45	45 26.625	167 45.077	05.2
2-Sep	245	05:00	45 24.501	167 45.035	10.6
2-Sep	245	05:15	45 21.863	167 44.990	10.5
2-Sep	245	05:30	45 19.217	167 44.995	10.3
2-Sep	245	05:45	45 16.618	167 44.993	10.5
2-Sep	245	06:00	45 14.062	167 44.966	10.1
2-Sep	245	06:15	45 11.039	167 44.963	10.3
2-Sep	245	06:30	45 08.935	167 44.990	10.5
2-Sep	245	06:45	45 06.321	167 44.953	10.7
2-Sep	245	07:00	45 03.678	167 45.018	10.6
2-Sep	245	07:15	45 01.066	167 45.030	10.4
2-Sep	245	07:30	44 58.589	167 44.142	10.5
2-Sep	245	07:45	44 56.157	167 42.780	10.3
2-Sep	245	08:00	44 53.748	167 41.444	10.3
2-Sep	245	08:15	44 51.340	167 40.046	10.6
2-Sep	245	08:30	44 48.925	167 38.561	10.8

2-Sep	245	08:45	44 46.490	167 37.120	10.7
2-Sep	245	09:00	44 43.966	167 35.819	10.9
2-Sep	245	09:15	44 41.436	167 34.553	10.7
2-Sep	245	09:30	44 38.964	167 33.305	10.5
2-Sep	245	09:45	44 36.559	167 31.886	10.6
2-Sep	245	10:00	44 34.191	167 30.445	10.4
2-Sep	245	10:15	44 31.811	167 28.992	10.2
2-Sep	245	10:30	44 29.442	167 27.570	10.3
2-Sep	245	10:45	44 27.086	167 26.157	10.4
2-Sep	245	11:00	44 24.775	167 24.905	01.0
2-Sep	245	11:15	44 22.350	017 23.664	10.2
2-Sep	245	11:20			
2-Sep	245	11:30	44 20.024	167 22.355	10.6
2-Sep	245	11:45	44 17.504	167 20.938	10.8
2-Sep	245	12:00	44 14.963	167 19.500	11.1
2-Sep	245	12:15	44 12.434	167 18.037	11.1
2-Sep	245	12:30	44 09.770	167 16.545	10.9
2-Sep	245	12:45	44 07.305	167 15.141	11.0
2-Sep	245	13:00	44 04.754	167 13.687	11.1
2-Sep	245	13:15	44 02.153	167 12.231	10.7
2-Sep	245	13:30	43 59.696	167 10.862	10.8
2-Sep	245	13:45	43 57.240	167 09.488	10.7
2-Sep	245	14:00	43 54.628	167 07.975	10.7
2-Sep	245	14:15	43 52.483	167 06.827	05.0
2-Sep	245	14:30	43 51.349	167 06.176	00.6
2-Sep	245	14:45	43 51.350	167 06.170	00.1
2-Sep	245	15:00	43 51.348	167 06.171	00.0
2-Sep	245	15:17	43 51.029	167 05.944	05.0
2-Sep	245	15:25			
2-Sep	245	15:30	43 49.778	167 05.259	10.6
2-Sep	245	15:34			
2-Sep	245	15:45	43 47.228	167 03.918	10.7
2-Sep	245	16:00	43 44.923	167 02.644	10.6
2-Sep	245	16:15	43 42.437	167 01.360	10.8
2-Sep	245	16:30	43 39.833	167 00.062	10.9
2-Sep	245	16:45			
2-Sep	245	17:00	43 34.777	167 57.218	10.6
2-Sep	245	17:15	43 32.391	166 55.670	10.9
2-Sep	245	17:30	43 29.998	166 54.068	10.8
2-Sep	245	17:45	43 27.622	166 52.161	11.0
2-Sep	245	18:00	43 25.229	166 50.294	10.9
2-Sep	245	18:15	43 22.872	166 48.455	11.3
2-Sep	245	18:30	43 20.491	166 46.569	09.4
2-Sep	245	18:34			05.5

2-Sep	245	18:45	43 18.830	166 45.296	10.9
2-Sep	245	19:00	43 16.327	166 43.832	10.9
2-Sep	245	19:15	43 13.742	166 42.380	10.9
2-Sep	245	19:19			
2-Sep	245	19:30	43 11.219	166 40.919	10.9
2-Sep	245	19:45	43 08.622	166 39.390	11.1
2-Sep	245	20:00	43 06.136	166 37.959	11.1
2-Sep	245	20:15	43 03.502	166 36.485	11.0
2-Sep	245	20:30	43 00.866	166 34.958	11.1
2-Sep	245	20:45	42 58.565	166 33.557	11.0
2-Sep	245	21:00	42 56.114	166 32.172	11.1
2-Sep	245	21:15	42 53.522	166 30.662	10.9
2-Sep	245	21:30	42 50.881	166 29.110	11.3
2-Sep	245	21:45	42 48.173	166 27.578	11.0
2-Sep	245	22:00	42 45.909	166 26.268	11.2
2-Sep	245	22:15	42 43.206	166 24.725	11.1
2-Sep	245	22:30	42 40.662	166 23.273	11.1
2-Sep	245	22:45	42 38.188	166 21.840	11.3
2-Sep	245	23:00	42 35.478	166 20.248	11.2
2-Sep	245	23:15	42 32.917	166 18.721	11.1
2-Sep	245	23:20			
2-Sep	245	23:30	42 30.325	166 17.288	11.5
2-Sep	245	23:35			
2-Sep	245	23:45	42 47.700	166 15.852	11.4
3-Sep	245	23:53			
2-Sep	246	00:00	42 25.085	166 14.326	11.1
3-Sep	246	00:15	42 22.525	166 12.924	11.1
3-Sep	246	00:23			
3-Sep	246	00:24			
3-Sep	246	00:30	42 19.945	166 11.411	11.2
3-Sep	246				
3-Sep	246	00:45	42 17.377	166 09.903	10.9
3-Sep	246	01:00	42 14.777	166 08.459	11.3
3-Sep	246	01:08			
3-Sep	246	01:15	42 12.227	166 06.969	11.0
3-Sep	246	01:17			
3-Sep	246	01:23			
3-Sep	246	01:25			
3-Sep	246	01:26			
3-Sep	246	01:30	42 09.661	166 05.473	11.4
3-Sep	246				
3-Sep	246	01:45	42 07.605	166 04.313	05.4
3-Sep	246	01:53			
3-Sep	246	02:00	42 05.873	166 03.323	11.2

3-Sep	246	02:01			
3-Sep	246	02:10			
3-Sep	246	02:15	42 03.312	166 01.811	11.0
3-Sep	246	02:22			
3-Sep	246	02:24			
3-Sep	246	02:26			
3-Sep	246	02:30	42 00.815	166 00.259	11.2
3-Sep	246	02:32			
3-Sep	246	02:45	41 58.050	165 59.297	11.2
3-Sep	246	02:51			
3-Sep	246	03:00	41 55.332	165 58.573	11.0
3-Sep	246	03:02			
3-Sep	246	03:06			
3-Sep	246	03:15	41 52.660	165 57.891	11.0
3-Sep	246	03:30	41 50.015	165 57.111	11.1
3-Sep	246	03:34			
3-Sep	246	03:36			
3-Sep	246	03:45	41 48.170	165 56.578	06.0
3-Sep	246	03:53			
3-Sep	246	03:56			
3-Sep	246	04:00	41 45.926	165 55.924	05.7
3-Sep	246	04:06			
3-Sep	246	04:12			
3-Sep	246	04:15	41 43.883	165 55.307	11.8
3-Sep	246	04:21			
3-Sep	246	04:30	41 41.066	165 54.641	11.6
3-Sep	246	04:45	41 38.234	165 53.983	11.4
3-Sep	246	05:00	41 35.452	165 53.233	11.3
3-Sep	246	05:15	41 32.431	165 52.380	11.2
3-Sep	246	05:30	41 30.047	165 51.657	10.9
3-Sep	246	05:45	41 27.331	165 50.900	11.0
3-Sep	246	06:00	41 24.563	165 50.144	11.5
3-Sep	246	06:15	41 21.620	165 49.426	11.4
3-Sep	246	06:30	41 18.968	165 48.765	11.3
3-Sep	246	06:45	41 16.198	165 48.028	11.2
3-Sep	246	07:00	41 13.425	165 47.231	11.4
3-Sep	246	07:15	41 10.616	165 46.475	11.4
3-Sep	246	07:30	41 07.861	165 45.594	11.3
3-Sep	246	07:45	41 05.045	165 44.825	11.8
3-Sep	246	08:00	41 02.204	165 44.055	11.5
3-Sep	246	08:15	40 59.988	165 43.353	05.5
3-Sep	246	08:30	40 58.018	165 42.822	11.9

3-Sep	246	08:45	40 55.152	165 42.139	11.4
3-Sep	246	09:00	40 52.333	165 41.312	11.6
3-Sep	246	09:15	40 49.439	165 40.495	11.9
3-Sep	246	09:30	40 46.556	165 39.832	11.6
3-Sep	246	09:45	40 43.694	165 39.132	11.6
3-Sep	246	10:00	40 40.866	165 38.362	11.8
3-Sep	246	10:15	40 38.060	165 37.531	11.6
3-Sep	246	10:30	40 35.270	165 36.730	11.5
3-Sep	246	10:45	40 32.437	165 36.005	11.6
3-Sep	246	11:00	40 29.638	165 35.261	11.2
3-Sep	246	11:15	40 26.845	165 34.542	11.5
3-Sep	246	11:30	40 24.001	165 33.815	11.4
3-Sep	246	11:45	40 21.239	165 33.027	11.2
3-Sep	246	12:00	40 18.532	165 32.239	11.3
3-Sep	246	12:15	40 15.836	165 31.443	11.0
3-Sep	246	12:30	40 13.213	165 30.746	11.2
3-Sep	246	12:45	40 10.437	165 30.076	10.7
3-Sep	246	13:00	40 07.894	165 29.396	10.8
3-Sep	246	13:15	40 05.214	165 28.660	11.1
3-Sep	246	13:30	40 02.570	165 27.945	10.6
3-Sep	246	13:45	39 59.853	165 27.196	11.0
3-Sep	246	14:00	39 57.278	165 26.490	11.0
3-Sep	246	14:30	39 51.826	165 25.076	10.8
3-Sep	246	14:45	39 49.171	165 24.309	11.5
3-Sep	246	15:00	39 46.477	165 23.632	11.3
3-Sep	246	15:15	39 43.705	165 22.889	06.8
	246	15:16			
3-Sep	246	15:30	39 42.605	165 22.449	00.8
	246	15:45	39 42.605	165 22.451	00.4
3-Sep	246	16:00	39 42.607	165 22.451	00.4
3-Sep	246	16:15	39 42.168	165 22.305	05.5
3-Sep	246	16:30	39 40.370	165 21.862	11.1
3-Sep	246	16:45	39 37.537	165 21.260	11.3
3-Sep	246	17:00	39 34.792	165 20.538	11.0
3-Sep	246	17:15	39 32.105	165 19.809	11.0
3-Sep	246	17:30	39 29.381	165 19.068	10.7
3-Sep	246	17:45	39 27.720	165 18.439	05.7
3-Sep	246	17:53			
3-Sep	246	18:00	39 25.365	165 17.879	10.9
3-Sep	246	18:15	39 22.664	165 17.288	11.3
3-Sep	246	18:22			09.4
3-Sep	246	18:30	39 20.514	165 16.607	05.8
3-Sep	246	18:38			05.0
3-Sep	246	18:45	39 19.224	165 16.154	04.6

3-Sep	246	19:00	39 17.958	165 15.767	05.5
3-Sep	246	19:01			05.2
3-Sep	246	19:14	39 15.967	165 15.331	11.2
3-Sep	246	19:16			
3-Sep	246				
3-Sep	246	19:25			
3-Sep	246	19:30	39 13.302	165 14.718	10.2
3-Sep	246	19:45	39 10.617	165 14.087	10.5
3-Sep	246	19:55			06.0
3-Sep	246	20:00	39 08.687	165 13.544	05.1
3-Sep	246	20:09			
3-Sep	246	20:14	39 06.586	165 12.984	10.2
3-Sep	246	20:30	39 04.021	165 12.325	10.1
3-Sep	246	20:45	39 01.562	165 11.697	10.2
3-Sep	246	21:00	38 59.153	165 11.030	10.2
3-Sep	246	21:15	38 56.678	165 10.307	10.2
3-Sep	246	21:30	38 54.205	165 09.741	09.7
3-Sep	246	21:45	38 51.583	145 09.168	09.6
3-Sep	246	22:00	38 49.178	165 08.464	09.9
3-Sep	246	22:15	38 46.740	165 07.732	10.2
3-Sep	246	22:30	38 44.272	165 07.124	10.3
3-Sep	246	22:45	38 41.820	165 06.496	10.1
3-Sep	246	23:00	38 39.155	165 05.836	10.0
3-Sep	246	23:15	38 36.763	165 05.210	09.9
3-Sep	246	23:20			
3-Sep	246	23:30			
3-Sep	246	23:45	38 31.769	165 03.916	10.8
4-Sep	247	00:00	38 29.033	165 03.228	10.5
4-Sep	247	00:15	38 26.493	165 02.543	10.6
4-Sep	247	00:30	38 23.912	165 01.829	10.7
4-Sep	247	00:45	38 21.340	165 01.116	10.4
4-Sep	247	01:00	38 18.813	165 00.394	10.4
4-Sep	247	01:15	38 16.186	164 59.687	10.7
4-Sep	247	01:21			
4-Sep	247	01:30	38 13.525	164 59.046	10.7
4-Sep	247	01:45	38 10.937	164 58.396	10.6
4-Sep	247	02:00	38 08.348	164 57.737	10.4
4-Sep	247	02:15	38 05.803	164 57.033	10.3
4-Sep	247	02:30	38 03.165	164 56.316	10.2
4-Sep	247	02:45	38 00.722	164 55.646	10.7
4-Sep	247	03:00	37 58.181	164 55.003	10.5
4-Sep	247	03:15	37 55.519	164 54.338	10.6
4-Sep	247	03:30	37 52.959	164 53.704	11.1
4-Sep	247	03:45	37 50.337	164 53.022	10.6

4-Sep	247	04:00	37 47.796	164 52.345	10.7
4-Sep	247	04:15	37 45.111	164 51.567	10.6
4-Sep	247	04:30	37 42.628	164 50.925	10.1
4-Sep	247	04:45	37 40.077	164 50.287	10.2
4-Sep	247	05:00	37 37.522	164 49.655	10.4
4-Sep	247	05:10			
4-Sep	247	05:15	37 34.834	164 48.946	10.9
4-Sep	247	05:30	37 32.245	164 48.293	11.1
4-Sep	247	05:45	37 29.425	164 47.591	10.9
4-Sep	247	06:00	37 26.922	164 46.989	10.8
4-Sep	247	06:15	37 24.298	164 46.356	10.8
4-Sep	247	06:30	37 21.667	164 45.711	10.6
4-Sep	247	06:45	37 19.058	164 44.986	10.3
4-Sep	247	07:00	37 16.431	164 44.245	10.9
4-Sep	247	07:15	37 13.812	164 43.538	10.8
4-Sep	247	07:30	37 11.234	164 42.873	10.4
4-Sep	247	07:45	37 08.648	164 42.211	10.6
4-Sep	247	08:00	37 06.054	164 41.553	10.3
4-Sep	247	08:15	37 03.351	164 40.899	10.8
4-Sep	247	08:30	37 00.931	164 40.209	10.2
4-Sep	247	08:45	36 58.425	164 39.473	10.5
4-Sep	247	09:00	36 55.977	164 38.656	10.6
4-Sep	247	09:15	36 53.480	164 37.818	10.0
4-Sep	247	09:30	36 51.072	164 36.924	10.2
4-Sep	247	09:45	36 48.605	164 36.061	10.3
4-Sep	247	10:00	36 46.116	164 35.177	10.0
4-Sep	247	10:15	36 43.618	164 34.279	10.6
4-Sep	247	10:30	36 41.073	164 33.445	10.9
4-Sep	247	10:45	36 38.489	164 34.601	10.4
4-Sep	247	11:00	36 35.966	164 31.755	10.6
4-Sep	247	11:15	36 33.389	164 30.894	10.5
4-Sep	247	11:30	36 30.841	164 30.032	10.5
4-Sep	247	11:45	36 28.343	164 29.174	10.4
4-Sep	247	12:00	36 25.891	164 28.342	10.5
4-Sep	247	12:15	36 23.319	164 27.498	10.3
4-Sep	247	12:30	36 20.838	164 26.698	10.5
4-Sep	247	12:45	36 18.358	164 25.792	10.2
4-Sep	247	13:00	36 15.901	164 24.930	10.3
4-Sep	247	13:15	36 13.391	164 24.105	10.6
4-Sep	247	13:30	36 10.893	164 23.202	10.4
4-Sep	247	13:45	36 08.366	164 22.349	10.3
4-Sep	247	14:00	36 05.856	164 21.516	10.2
4-Sep	247	14:15	36 03.385	164 20.662	09.9
4-Sep	247	14:30	36 00.885	164 19.741	10.1

4-Sep	247	14:45	35 58.448	164 18.887	10.2
4-Sep	247	15:00	35 56.006	164 18.074	10.4
4-Sep	247	15:15	35 53.619	164 17.310	05.2
4-Sep	247	15:20			
4-Sep	247	15:30	35 52.352	164 16.843	03.7
4-Sep	247	15:45	35 52.290	164 16.831	00.1
4-Sep	247	16:00	35 52.290	164 16.831	00.3
4-Sep	247	16:15	35 52.291	164 16.834	00.1
4-Sep	247	16:30	35 51.152	164 16.549	10.2
4-Sep	247	16:45	35 48.699	164 15.678	09.9
4-Sep	247	17:00	35 46.438	164 14.817	09.8
4-Sep	247	17:15	35 43.875	164 14.031	10.1
4-Sep	247	17:25			
4-Sep	247	17:30	35 41.948	164 13.355	05.0
4-Sep	247	17:45	03 39.981	164 12.634	09.3
4-Sep	247	18:00	35 37.607	164 11.861	09.9
4-Sep	247	18:15	35 35.018	164 10.989	10.4
4-Sep	247	18:30	35 32.516	164 10.172	10.2
4-Sep	247	18:40			
4-Sep	247	18:45	35 30.165	164 09.365	10.4
4-Sep	247	19:00	35 27.700	164 08.582	10.2
4-Sep	247	19:15	35 25.245	164 07.750	09.6
4-Sep	247	19:30	35 22.853	164 06.936	10.1
4-Sep	247	19:45	35 20.336	164 06.053	10.4
4-Sep	247	20:00	35 17.901	164 05.285	09.8
4-Sep	247	20:15	35 15.426	164 04.518	10.1
4-Sep	247	20:30	35 12.935	164 03.596	10.3
4-Sep	247	20:45	35 10.366	164 02.744	10.2
4-Sep	247	21:00	35 07.977	164 01.990	10.5
4-Sep	247	21:15	35 05.312	164 01.115	10.2
4-Sep	247	21:30	35 02.761	164 00.232	10.4
4-Sep	247	21:44	35 00.571	163 59.466	09.8
4-Sep	247	22:01	34 57.678	163 58.447	10.1
4-Sep	247	22:15	34 55.420	163 57.661	10.2
4-Sep	247	22:31	34 52.719	163 56.793	10.2
4-Sep	247	22:47	34 50.063	163 55.934	10.2
4-Sep	247	23:00	34 48.097	163 55.249	09.7
4-Sep	247	23:15	34 45.771	163 54.482	09.7
4-Sep	247	23:30	34 43.307	163 53.659	10.4
4-Sep	247	23:45	34 40.786	163 52.870	09.8
5-Sep	248	00:00	34 38.417	163 52.114	10.2
5-Sep	248	00:15	34 35.890	163 51.238	10.6
5-Sep	248	00:22			

5-Sep	248	00:30	34 34.003	163 50.595	05.2
5-Sep	248	00:40			
5-Sep	248	00:43			
5-Sep	248	00:45	34 32.698	163 50.124	09.0
5-Sep	248	01:00	34 30.234	163 49.346	10.2
5-Sep	248	01:07			
5-Sep	248	01:15	34 27.810	163 48.558	09.6
5-Sep	248	01:20			
5-Sep	248	01:30	34 25.530	163 47.779	09.5
5-Sep	248	01:35			
5-Sep	248	01:45	34 23.333	163 47.047	09.4
5-Sep	248	01:58			
5-Sep	248	02:00	34 21.046	163 46.341	06.7
5-Sep	248	02:03			
5-Sep	248	02:10			
5-Sep	248	02:15	34 19.600	163 45.864	09.9
5-Sep	248	02:16			
5-Sep	248	02:17			
5-Sep	248	02:30	34 17.078	163 45.002	10.6
5-Sep	248	02:45	34 14.483	163 44.078	10.6
5-Sep	248	03:00	34 11.938	163 43.133	10.7
5-Sep	248	03:15	34 09.436	163 42.343	10.1
5-Sep	248	03:30	34 06.836	163 41.477	10.4
5-Sep	248	03:45	34 04.266	163 40.617	10.9
5-Sep	248	04:00	34 01.629	163 39.737	10.9
5-Sep	248	04:15	33 59.023	163 38.939	11.0
5-Sep	248	04:30	33 48.585	163 35.414	10.8
5-Sep	248	04:45	33 53.686	163 37.222	10.3
5-Sep	248	05:00	33 51.151	163 36.343	10.5
5-Sep	248	05:15	33 48.585	163 35.414	10.8
5-Sep	248	05:30	33 45.958	163 34.579	11.1
5-Sep	248	05:45	33 43.278	163 33.759	11.0
5-Sep	248	06:00	33 40.637	163 32.913	10.6
5-Sep	248	06:15	33 38.013	163 32.095	11.0
5-Sep	248	06:30	33 35.372	163 31.248	11.0
5-Sep	248	06:45	33 32.723	163 30.285	10.9
5-Sep	248	07:00	33 30.081	163 29.344	11.1
5-Sep	248	07:15	33 27.358	163 28.403	11.4
5-Sep	248	07:30	33 24.655	163 27.508	11.2
5-Sep	248	07:45	33 21.899	163 26.656	11.2
5-Sep	248	08:00	33 19.182	163 25.808	11.3
5-Sep	248	08:15	33 16.488	163 24.966	11.0
5-Sep	248	08:30	33 13.830	163 24.077	10.5

5-Sep	248	08:45	33 11.225	163 23.255	10.8
5-Sep	248	09:00	33 08.567	163 22.383	11.4
5-Sep	248	09:15	33 05.844	163 21.426	11.3
5-Sep	248	09:30	33 03.045	163 20.469	11.4
5-Sep	248	09:45	33 00.384	163 19.662	11.3
5-Sep	248	10:00	32 57.693	163 18.778	11.0
5-Sep	248	10:15	32 55.081	163 17.790	11.1
5-Sep	248	10:30	32 52.416	163 16.874	11.2
5-Sep	248	10:45	32 49.810	163 16.046	10.6
5-Sep	248	11:00	32 47.191	163 15.233	10.8
5-Sep	248	11:15	32 44.528	163 14.406	11.1
5-Sep	248	11:30	32 41.843	163 13.567	10.9
5-Sep	248	11:45	32 39.203	163 12.680	10.8
5-Sep	248	12:00	32 36.543	163 11.809	11.2
5-Sep	248	12:15	32 33.893	163 10.901	11.0
5-Sep	248	12:30	32 31.242	163 10.067	11.0
5-Sep	248	12:45	32 28.600	163 09.280	11.2
5-Sep	248	13:00	32 25.901	163 08.510	11.2
5-Sep	248	13:15	32 23.201	163 07.640	10.8
5-Sep	248	13:30	32 20.566	163 06.712	11.2
5-Sep	248	13:45	32 17.970	163 05.789	10.8
5-Sep	248	14:00	32 15.380	163 04.944	10.8
5-Sep	248	14:15	32 12.837	163 04.231	10.6
5-Sep	248	14:30	32 10.170	163 03.405	10.9
5-Sep	248	14:45	32 07.570	163 02.481	10.7
5-Sep	248	15:00	32 05.056	163 01.677	11.0
5-Sep	248	15:15	32 02.344	163 00.759	11.1
5-Sep	248	15:30	31 59.676	162 59.890	10.9
5-Sep	248	15:45	31 57.008	162 59.005	11.2
5-Sep	248	16:00	31 54.297	162 58.089	10.9
5-Sep	248	16:15	31 51.714	162 57.108	09.3
5-Sep	248	16:20			05.4
5-Sep	248	16:30	31 50.671	162 56.504	00.3
5-Sep	248	16:45	31 50.673	162 56.708	00.2
5-Sep	248	17:00	31 50.673	162 56.707	00.1
5-Sep	248	17:15	31 50.336	162 56.574	05.6
5-Sep	248	17:20			
5-Sep	248	17:30	31 48.052	162 55.838	01.1
5-Sep	248	17:45	31 45.431	162 55.030	10.9
5-Sep	248	18:00	31 42.691	162 54.170	11.0
5-Sep	248	18:15	31 40.075	162 54.340	10.7
5-Sep	248	18:30	31 37.464	162 52.460	10.8
5-Sep	248	18:45	31 34.838	162 51.449	10.7
5-Sep	248	19:00	31 32.340	162 50.551	11.2

5-Sep	248	19:15	31 29.618	162 49.655	11.0
5-Sep	248	19:30	31 26.875	162 48.733	11.2
5-Sep	248	19:45	31 24.404	162 47.868	11.4
5-Sep	248	20:00	31 21.587	162 46.815	11.2
5-Sep	248	20:15	31 18.859	162 45.879	11.5
5-Sep	248	20:30	31 16.088	162 44.970	11.1
5-Sep	248	20:45	31 13.487	162 44.085	11.8
5-Sep	248	20:51			05.5
5-Sep	248	21:00	31 11.691	162 43.436	10.8
5-Sep	248	21:15	31 08.822	162 42.532	11.6
5-Sep	248	21:30	31 06.026	162 41.635	11.5
5-Sep	248	21:45	31 03.275	162 40.711	11.6
5-Sep	248	22:00	31 00.553	162 39.739	11.2
5-Sep	248	22:15	30 57.968	162 38.876	11.4
5-Sep	248	22:30	30 55.228	162 37.959	11.2
5-Sep	248	22:45	30 52.419	162 36.958	11.2
5-Sep	248	23:00	30 49.856	162 36.087	10.9
5-Sep	248	23:15	30 47.341	162 35.235	11.2
5-Sep	248	23:29	30 44.561	162 34.274	10.9
5-Sep	248	23:45	30 42.001	162 33.443	10.8
6-Sep	249	00:00	30 39.160	162 32.493	10.6
6-Sep	249	00:15	30 36.775	162 31.709	10.8
6-Sep	249	00:30	30 34.143	162 30.865	10.4
6-Sep	249	00:45	30 31.689	162 30.073	10.7
6-Sep	249	01:00	30 28.984	162 29.153	10.8
6-Sep	249	01:15	30 26.396	162 28.227	11.0
6-Sep	249	01:30	30 23.680	162 27.312	10.8
6-Sep	249	01:45	30 21.089	162 26.527	11.0
6-Sep	249	02:00	30 18.498	162 25.700	11.0
6-Sep	249	02:15	30 15.900	162 24.849	10.8
6-Sep	249	02:30	30 13.195	162 23.911	11.4
6-Sep	249	02:45	30 10.513	162 22.981	11.1
6-Sep	249	03:00	30 07.796	162 22.047	11.3
6-Sep	249	03:15	30 05.047	162 21.156	11.0
6-Sep	249	03:30	30 02.334	162 20.238	11.2
6-Sep	249	03:45	29 59.618	162 19.320	11.1
6-Sep	249	04:00	29 56.961	162 18.353	10.8
6-Sep	249	04:15	29 54.359	162 17.391	10.8
6-Sep	249	04:30	29 51.710	162 16.598	10.9
6-Sep	249	04:45	29 49.093	162 15.731	10.9
6-Sep	249	05:00	29 46.398	162 14.829	10.8
6-Sep	249	05:15	29 43.905	162 13.972	10.7
6-Sep	249	05:30	29 41.195	162 13.032	10.5
6-Sep	249	05:45	29 38.621	162 12.219	10.5

6-Sep	249	06:00	29 36.118	162 11.399	10.6
6-Sep	249	06:15	29 33.449	162 10.520	11.1
6-Sep	249	06:30	29 30.798	162 09.645	11.0
6-Sep	249	06:45	29 28.168	162 08.783	11.1
6-Sep	249	07:00	29 25.497	162 07.875	11.0
6-Sep	249	07:15	29 22.835	162 06.978	11.0
6-Sep	249	07:30	29 20.149	162 06.096	11.4
6-Sep	249	07:45	29 17.435	162 05.191	11.2
6-Sep	249	08:00	29 14.643	162 04.280	11.3
6-Sep	249	08:15	29 11.846	162 03.339	11.6
6-Sep	249	08:30	29 09.058	162 02.433	11.4
6-Sep	249	08:45	29 06.260	162 01.503	11.4
6-Sep	249	09:00	29 03.436	162 00.587	11.5
6-Sep	249	09:15	29 00.675	161 59.669	11.0
6-Sep	249	09:30	28 57.951	161 58.773	11.0
6-Sep	249	09:45	28 55.270	161 57.850	11.3
6-Sep	249	10:00	28 52.602	161 56.934	11.0
6-Sep	249	10:15	28 49.683	161 56.024	10.7
6-Sep	249	10:30	28 47.323	161 55.246	11.0
6-Sep	249	10:45	28 44.705	161 54.365	11.0
6-Sep	249	11:00	28 42.083	161 53.459	11.0
6-Sep	249	11:15	28 39.391	161 52.593	11.1
6-Sep	249	11:30	28 36.679	161 51.740	11.2
6-Sep	249	11:45	28 33.886	161 50.843	10.8
6-Sep	249	12:00	28 31.417	161 49.946	10.8
6-Sep	249	12:15	28 28.837	161 49.012	10.6
6-Sep	249	12:30	28 26.255	161 48.084	10.7
6-Sep	249	12:45	28 23.674	161 47.233	10.6
6-Sep	249	13:00	28 21.071	161 46.427	10.8
6-Sep	249	13:15	28 18.460	161 45.540	10.6
6-Sep	249	13:30	28 15.843	161 44.713	10.6
6-Sep	249	13:45	28 13.300	161 43.892	10.7
6-Sep	249	14:00	28 10.765	161 43.103	10.8
6-Sep	249	14:15	28 08.181	161 42.278	10.7
6-Sep	249	14:30	28 05.575	161 41.407	10.7
6-Sep	249	14:45	28 02.979	161 40.657	10.6
6-Sep	249	15:00	28 00.428	161 39.876	10.5
6-Sep	249	15:15	27 57.810	161 38.991	10.5
6-Sep	249	15:22			
6-Sep	249	15:30	27 56.472	161 38.560	01.2
6-Sep	249	15:45	27 56.472	161 38.561	00.4
6-Sep	249	16:00	27 56.472	161 38.558	00.3
6-Sep	249	16:15	27 56.351	161 38.486	04.7
6-Sep	249	16:23			

6-Sep	249	16:30	27 54.486	161 37.859	10.4
6-Sep	249	16:45	27 51.992	161 36.013	10.4
6-Sep	249	17:00	27 49.459	161 36.152	10.4
6-Sep	249	17:15	27 46.894	161 35.334	10.5
6-Sep	249	17:30	27 44.389	161 34.523	10.5
6-Sep	249	17:45	27 41.958	161 33.728	10.5
6-Sep	249	18:00	27 39.447	161 32.919	10.4
6-Sep	249	18:15	27 36.944	161 32.133	10.5
6-Sep	249	18:30	27 34.425	161 31.278	10.5
6-Sep	249	18:45	27 31.896	161 30.416	10.5
6-Sep	249	19:00	27 29.385	161 29.596	10.4
6-Sep	249	19:15	27 26.820	161 28.752	10.3
6-Sep	249	19:30	27 24.451	161 28.025	10.3
6-Sep	249	19:45	27 22.100	161 27.263	04.9
6-Sep	249	20:00	27 20.899	161 26.919	05.2
6-Sep	249	20:15	27 19.035	161 26.179	10.4
6-Sep	249	20:16			
6-Sep	249	20:30	27 16.540	161 25.268	10.4
6-Sep	249	20:45	27 14.033	161 24.480	10.2
6-Sep	249	21:00	27 11.633	161 23.778	10.2
6-Sep	249	21:17	27 08.625	161 22.831	10.0
6-Sep	249	21:30	27 06.687	161 22.183	09.9
6-Sep	249	21:45	27 04.395	161 21.455	09.7
6-Sep	249	22:00	27 02.086	161 20.681	09.6
6-Sep	249	22:15	26 59.597	161 19.814	09.6
6-Sep	249	22:30	26 57.649	161 18.754	09.5
6-Sep	249	22:45	26 55.438	161 17.592	09.7
6-Sep	249	23:00	26 53.062	161 16.394	09.6
6-Sep	249	23:15	26 50.933	161 15.287	09.4
6-Sep	249	23:30	26 48.407	161 13.955	09.9
6-Sep	249	23:45	26 46.488	161 12.978	09.7
7-Sep	250	00:00	26 44.341	161 11.869	09.7
7-Sep	250	00:15	26 42.182	161 10.712	09.8
7-Sep	250	00:30	26 40.001	161 09.564	10.0
7-Sep	250	00:45	26 37.694	161 08.305	10.0
7-Sep	250	01:00	26 35.300	161 07.083	10.3
7-Sep	250	01:15	26 32.961	161 05.920	10.4
7-Sep	250	01:30	26 30.597	161 04.677	10.4
7-Sep	250	01:45	26 28.178	161 03.393	10.6
7-Sep	250	02:00	26 25.820	161 02.193	10.5
7-Sep	250	02:15	26 23.416	161 00.931	10.4
7-Sep	250	02:30	26 21.060	160 59.686	10.6
7-Sep	250	02:45	26 18.622	160 58.388	10.7
7-Sep	250	03:00	26 16.164	160 57.134	10.6

7-Sep	250	03:15	26 13.739	160 55.898	10.7
7-Sep	250	03:30	26 11.278	160 54.637	10.7
7-Sep	250	03:45	26 08.839	160 53.406	10.5
7-Sep	250	04:00	26 06.489	160 52.115	10.8
7-Sep	250	04:15	26 04.013	160 50.788	10.6
7-Sep	250	04:30	26 01.548	160 49.476	10.9
7-Sep	250	04:45	25 59.087	160 48.181	11.1
7-Sep	250	05:00	25 56.531	160 46.876	11.1
7-Sep	250	05:15	25 53.993	160 45.614	11.2
7-Sep	250	05:20			
7-Sep	250	05:30	25 51.427	160 44.341	11.3
7-Sep	250	05:45	25 48.923	160 43.045	11.1
7-Sep	250	06:00	25 46.368	160 41.727	11.1
7-Sep	250	06:15	25 43.850	160 40.443	11.1
7-Sep	250	06:30	25 41.332	160 39.150	11.1
7-Sep	250	06:45	25 38.836	160 37.814	11.1
7-Sep	250	07:00	25 36.313	160 36.490	11.1
7-Sep	250	07:15	25 33.804	160 35.189	11.1
7-Sep	250	07:30	25 31.276	160 33.878	11.0
7-Sep	250	07:45	25 28.730	160 32.581	11.4
7-Sep	250	08:00	25 26.195	160 31.243	11.1
7-Sep	250	08:15	25 23.663	160 29.951	11.0
7-Sep	250	08:30	25 21.170	160 28.667	11.1
7-Sep	250	08:45	25 18.664	160 27.374	11.1
7-Sep	250	09:00	25 16.136	160 26.076	11.2
7-Sep	250	09:15	25 13.638	160 24.781	11.1
7-Sep	250	09:30	25 11.165	160 23.479	11.1
7-Sep	250	09:45	25 08.647	160 22.179	10.9
7-Sep	250	10:00	25 06.161	160 20.893	10.8
7-Sep	250	10:15	25 03.704	160 19.639	10.9
7-Sep	250	10:30	25 01.217	160 18.393	10.7
7-Sep	250	10:45	24 58.738	160 17.119	10.9
7-Sep	250	11:00	24 56.252	160 15.816	11.1
7-Sep	250	11:15	24 53.750	160 14.555	10.7
7-Sep	250	11:30	24 51.316	160 13.310	10.6
7-Sep	250	11:45	24 48.880	160 12.080	10.7
7-Sep	250	12:00	24 46.498	160 10.800	10.6
7-Sep	250	12:15	24 44.114	160 09.568	10.5
7-Sep	250	12:30	24 41.757	160 08.344	10.5
7-Sep	250	12:45	24 39.370	160 07.155	10.5
7-Sep	250	13:00	24 37.948	160 05.921	10.5
7-Sep	250	13:15	24 34.639	160 04.710	10.4
7-Sep	250	13:30	24 32.230	160 03.470	10.5
7-Sep	250	13:45	24 29.801	160 02.244	10.5

7-Sep	250	14:00	24 27.431	160 01.048	10.2
7-Sep	250	14:15	24 25.110	159 59.822	10.5
7-Sep	250	14:30	24 22.865	159 58.651	09.9
7-Sep	250	14:45	24 20.616	159 57.418	10.1
7-Sep	250	15:00	24 18.319	159 56.290	10.2
7-Sep	250	15:15	24 15.968	159 55.084	10.6
7-Sep	250	15:30	24 14.597	159 54.463	05.1
7-Sep	250	15:46	24 14.471	159 54.416	00.4
7-Sep	250	16:00	24 14.474	159 54.415	00.2
7-Sep	250	16:15	24 14.362	159 54.354	04.7
7-Sep	250	16:20			
7-Sep	250	16:27			
7-Sep	250	16:30	24 12.894	159 53.594	09.9
7-Sep	250	16:45	24 10.513	159 52.344	10.4
7-Sep	250	17:00	24 08.224	159 51.154	10.2
7-Sep	250	17:15	24 05.890	159 49.985	10.1
7-Sep	250	17:30	24 03.626	159 48.812	10.1
7-Sep	250	17:45	24 01.331	159 47.616	10.1
7-Sep	250	17:53			
7-Sep	250	18:00	23 58.870	159 47.071	10.2
7-Sep	250	18:15	23 56.269	159 47.225	10.6
7-Sep	250	18:30	23 53.637	159 47.420	10.4
7-Sep	250	18:45	23 51.045	159 47.626	10.4
7-Sep	250	19:00	23 48.533	159 47.788	10.5
7-Sep	250	19:15	23 45.945	159 47.915	10.3
7-Sep	250	19:30	23 43.436	159 48.069	10.1
7-Sep	250	19:47	23 40.366	159 48.197	10.6
7-Sep	250	20:00	23 38.160	159 48.342	10.6
7-Sep	250	20:15	23 35.472	159 48.488	10.5
7-Sep	250	20:30	23 32.956	159 48.634	10.5
7-Sep	250	20:45	23 30.131	159 48.816	10.6
7-Sep	250	20:58	23 28.021	159 48.910	09.0
7-Sep	250	21:04			06.0
7-Sep	250	21:15	23 25.854	159 49.058	10.7
7-Sep	250	21:30	23 23.290	159 49.159	10.2
7-Sep	250	21:45	23 20.730	159 49.294	10.4
7-Sep	250	22:00	23 18.243	159 49.507	10.5
7-Sep	250	22:15	23 15.484	159 49.749	10.4
7-Sep	250	22:30	23 12.842	159 49.910	01.0
7-Sep	250	22:45	23 10.220	159 49.904	10.0
7-Sep	250	23:00	23 08.419	159 48.229	10.0
7-Sep	250	23:15	23 06.652	159 46.278	10.0
7-Sep	250	23:30	23 04.979	159 44.469	10.0
7-Sep	250	23:45	23 03.256	159 42.439	10.1

8-Sep	251	00:00	23 01.581	159 40.454	10.3
8-Sep	251	00:17	22 59.414	159 38.068	10.2
8-Sep	251	00:30	22 57.825	159 36.460	10.0
8-Sep	251	00:45	22 56.118	159 34.444	09.9
8-Sep	251	01:00	22 54.331	159 32.607	10.0
8-Sep	251	01:15	22 52.610	159 30.700	09.6
8-Sep	251	01:30	22 50.550	159 30.835	10.4
8-Sep	251	01:45	22 48.293	159 32.192	10.5
8-Sep	251	02:00	22 45.971	159 33.530	10.6
8-Sep	251	02:15	22 43.691	159 34.884	10.6
8-Sep	251	02:30	22 41.280	159 36.275	10.6
8-Sep	251	02:38			
8-Sep	251	02:45	22 39.118	159 38.040	10.9
8-Sep	251	03:00	22 37.281	159 40.097	10.9
8-Sep	251	03:15	22 35.447	159 42.242	10.7
8-Sep	251	03:30	22 33.592	159 44.389	10.4
8-Sep	251	03:45	22 31.807	159 46.446	10.7
8-Sep	251	04:00	22 29.972	159 48.557	10.7
8-Sep	251	04:15	22 28.134	159 50.684	10.7
8-Sep	251	04:30	22 26.332	159 52.752	10.7
8-Sep	251	04:45	22 24.487	159 54.851	10.5
8-Sep	251	05:00	22 22.708	159 56.943	10.7
8-Sep	251	05:15	22 20.883	159 59.117	10.6
8-Sep	251	05:22			
8-Sep	251	05:30	22 18.951	159 58.957	10.1
8-Sep	251	05:45	22 17.063	159 57.128	10.2
8-Sep	251	06:00	22 15.348	159 55.225	09.7
8-Sep	251	06:05			
8-Sep	251	06:15	22 16.659	159 52.980	10.5
8-Sep	251	06:30	22 18.579	159 50.522	10.5
8-Sep	251	06:45	22 20.139	159 48.708	10.7
8-Sep	251	07:00	22 21.890	159 46.551	10.3
8-Sep	251	07:15	22 23.519	159 44.425	10.3
8-Sep	251	07:30	22 25.151	159 42.281	10.4
8-Sep	251	07:45	22 26.824	159 40.134	10.2
8-Sep	251	08:00	22 28.537	159 38.009	10.4
8-Sep	251	08:15	22 30.281	159 35.928	10.2
8-Sep	251	08:30	22 32.029	159 33.807	10.4
8-Sep	251	08:45	22 33.712	159 31.663	10.5
8-Sep	251	09:00	22 35.536	159 29.814	10.4
8-Sep	251	09:15	22 37.098	159 28.637	10.6
8-Sep	251	09:30	22 40.411	159 27.578	10.8
8-Sep	251	09:45	22 42.875	159 26.500	10.8
8-Sep	251	10:00	22 42.601	159 25.410	10.4

8-Sep	251	10:15	22 40.125	159 24.580	10.3
8-Sep	251	10:30	22 37.551	159 23.689	10.0
8-Sep	251	10:45	22 35.184	159 22.813	10.3
8-Sep	251	11:00	22 32.969	159 21.853	09.9
8-Sep	251	11:15	22 32.446	159 19.208	10.0
8-Sep	251	11:30	22 32.011	159 16.611	10.0
8-Sep	251	11:45	22 31.594	159 13.916	10.0
8-Sep	251	12:00	22 31.116	159 11.253	10.0
8-Sep	251	12:15	22 30.574	159 08.224	09.8
8-Sep	251	12:30	22 30.150	159 05.970	10.1
8-Sep	251	12:45	22 28.499	159 04.251	10.2
8-Sep	251	13:00	22 26.140	159 03.065	10.5
8-Sep	251	13:15	22 23.738	159 03.016	10.3
8-Sep	251	13:30	22 21.327	159 00.959	10.4
8-Sep	251	13:45	22 18.784	158 59.820	10.6
8-Sep	251	14:00	22 16.436	158 58.839	10.6
8-Sep	251	14:15	22 14.027	158 57.815	07.2
8-Sep	251	14:18			
8-Sep	251	14:30	22 12.600	158 57.321	10.1
8-Sep	251	14:45	22 10.306	158 56.173	10.0
8-Sep	251	15:00	22 07.971	158 56.069	09.8
8-Sep	251	15:15	22 05.598	158 54.044	10.3
8-Sep	251	15:30	22 03.278	158 53.056	09.7
8-Sep	251	15:45	22 00.943	158 52.055	09.9
8-Sep	251	16:00	21 58.634	158 51.054	10.1
8-Sep	251	16:15	21 56.272	158 50.091	10.1
8-Sep	251	16:30	21 53.867	158 49.049	10.3
8-Sep	251	16:45	21 51.485	158 48.049	10.3
8-Sep	251	17:00	21 49.089	158 46.970	10.2
8-Sep	251	17:15	21 46.947	158 45.561	10.2
8-Sep	251	17:30	21 45.101	158 43.823	09.8
8-Sep	251	17:45	21 43.415	158 41.892	09.7
8-Sep	251	18:00	21 41.886	158 40.053	09.7
8-Sep	251	18:15	21 40.193	158 38.051	09.5
8-Sep	251	18:30	21 38.491	158 36.057	09.5
8-Sep	251	18:45	21 36.992	158 34.222	09.4
8-Sep	251	19:00	21 35.118	158 33.041	10.9
8-Sep	251	19:05			
8-Sep	251	19:15	21 32.335	158 32.848	10.3
8-Sep	251	19:30	21 29.778	158 32.293	10.0
8-Sep	251	19:45	21 27.416	158 31.671	09.9
8-Sep	251	20:00	21 24.963	158 31.128	10.1
8-Sep	251	20:15	21 22.429	158 30.590	10.2
8-Sep	251	20:30	21 20.064	158 29.860	10.0

CRUISE: NBP0304B

IALS, NEGATIVE SIGNS, OR COLONS ARE NEEDED

CMG	Depth (M)	Gravity	Magnetics	Salinity	Ext Temp
019.4	66	9177.9			
019.0	94	9177.7			
144.6	59	9187.4			
146.4	69	9172.3			
085.5	292	9143.6			
108.5	159	9156.9			
180.6	99	9218.7			
174.5	89	9212.3			
173.2	82	9203.8			
173.3	80	9206.7			
172.9	86	9211.2			
171.5	103	9201.3			
174.2	112	9195.4			
175.4	127	9179.7			
178.1	191	9169.8			
174.0	319	9151.8			
171.8	622	9131.8			
175.1	702	9123.6			
174.6	874	9101.1			
175.1	1321	9072.7			
173.8	1733	9038.9			
172.5	68	8994.4			
174.5	68	8935.4			
171.3	3778	8882.5			
171.9	4266	8846.2			
177.2	4334	8822.3			
172.3	4309	8812.1			
171.1	3993	8808.9			
172.6	4147	8807.7			
171.1	4158	8805.7			
175.1	4253	8807.7			
174.5	4444	8815.8			
174.6	4349	8804.9	50015		
172.0	4773	8802.9	49987		
171.3	4946	8792.3	49945		
174.2	5954	8783.6	49887		

175.0	6016	8776.0	49827
174.1	6763	8768.5	49759
173.3	7071	8764.1	49678
173.4	7031	8772.6	49647
172.5	7001	8791.5	49640
176.3	6783	8798.4	49572
173.1	6492	8818.7	49516
172.4	6317	8844.9	49429
174.2	5944	8848.6	49204
173.6	5751	88866.9	49195
175.5	5684	8877.8	49511
195.5	5484	8886.1	49780
194.1	5380	8905.9	49892
196.6	5267	8913.0	50202
194.9	5193	8921.4	50095
194.7	5083	8931.7	49735
194.8	5002	8730.5	49576
194.6	4887	8935.8	49547
195.5	4896	8941.1	n/a
240.8	4840	8934.1	n/a
111.6	4838	8926.8	n/a
064.7	4800	8928.6	n/a
052.8	4014	8926.0	n/a
305.9	4007	8927.2	n/a
192.5	4488	0892.6	N/A
194.9	4482	8935.4	49140
194.9	4850	8935.4	48952
195.1	4876	8927.8	49049
196.9	4717	8928.5	49550
195.5	4689	8924.8	49743
193.9	4166	8927.3	49343
193.6	4907	8909.7	49255
181.8	5000	8888.6	49290
183.7	4891	8899.5	49792
183.9	4888	8896.3	49123
184.0	4852	8891.0	49025
184.2	4956	8882.7	48961
183.5	4976	8877.8	48924
183.6	5007	8827.4	48867
181.6	4969	8866.3	48662
181.2	4945	8861.9	48920

183.4	4967	8862.0	49157
183.6	4962	8857.9	48896
186.3	4986	8855.7	48683
185.9	4969	8847.7	48475
185.3	4971	8849.2	48267
186.3	4983	8842.9	48048
187.9	4973	8834.0	48087
189.4	4989	8833.2	48458
190.3	4980	8830.4	48614
192.5	4978	8835.1	48746
193.1	5004	8825.1	48897
194.4	5023	8822.6	48943
194.7	5023	8830.4	48462
197.5	5037	8814.2	48348
196.1	5035	8810.0	48604
198.2	5094	8817.7	48745
197.2	5100	8801.3	48816
196.9	5126	8791.5	48496
197.8	5120	8789.2	48104
199.9	5138	8782.4	47766
199.7	5161	8782.9	47767
195.1	5174	8780.2	47949
195.8	5180	8766.8	48093
195.0	5188	8766.7	48221
194.3	5185	8765.3	48306
194.3	5208	8750.9	48246
192.8	5214	8746.0	48256
189.4	5242	8742.5	48225
196.9	5236	8738.8	48220
194.0	5255	8737.2	48271
194.3	5223	8736.8	48273
193.8	5219	8733.3	48274
191.6	5257	8731.0	47888
195.1	5256	8718.7	47809
194.4	5269	8709.4	47898
195.1	5267	8717.1	48012
190.7	5261	8707.4	48128
197.3	5267	8723.0	48201
197.0	5265	8701.9	48349
196.7	5267	8695.4	48508
199.6	5286	8704.6	48366
200.0	5301	8686.3	48039
201.5	5302	8686.6	47909
198.4	5321	8692.7	47840

202.2	5299	8668.1	47798
199.9	5305	8676.0	47758
201.2	5307	8673.2	47728
200.6	5324	8672.1	47693
199.3	5338	8661.4	47637
199.7	5320	8668.0	47482
199.1	5334	8653.2	47431
199.5	5334	8649.3	47418
201.1	5357	8646.6	47395
200.1	5345	8641.0	47361
199.8	5364	8637.8	47371
202.4	5355	8635.0	47316
200.8	5346	8631.9	47268
199.2	5340	8624.5	47224
198.6	5367	8619.4	47193
196.0	5360	8610.6	47128
195.9	5370	8613.6	46941
195.5	5349	8604.4	46859
196.7	5345	8602.2	47041
197.4	5380	0858.8	47301
196.3	5372	8589.9	47297
197.6	5381	8582.2	46795
194.8	5386	8581.5	46545
197.6	5383	8580.2	46750
196.9	5375	8574.2	46885
199.3	5385	8570.4	46901
200.4	5392	8563.4	46889
201.5	5393	8555.9	46874
199.9	5389	8561.1	46841
198.7	5381	8550.4	46837
197.3	5327	8546.8	46852
287.0	5427	8536.6	n/a
340.3	5430	8530.3	n/a
159.7	5415	8515.2	N/A
201.8	5432	8528.6	N/A
195.4	5432	8583.0	n/a
195.7	5427	8531.6	46947
197.5	5406	8523.7	47003
198.4	5415	8526.6	46842
200.7	5398	8532.0	46727
199.4	5391	8527.2	n/a

197.0	5338	8528.1	n/a
195.1	5330	8522.0	n/a
195.5	5418	8519.3	46607
195.5	5385	8520.6	n/a
196.8	5416	8515.4	46629
204.2	5375	8510.5	46649
203.5	5461	8515.9	n/a
204.2	5455	8507.2	46592
207.1	5409	8506.3	46544
207.7	5395	8511.1	46492
206.5	5264	8514.9	46521
207.3	4600	8484.3	46610
180.2	4611	8484.3	46680
178.3	5418	8471.7	46682
179.9	5397	8464.7	46524
180.0	5418	8461.0	46642
180.3	5468	8453.8	46546
180.4	5479	8449.9	46300
179.3	5479	8453.9	46181
179.7	5466	8443.4	46103
179.6	5451	8437.2	n/a
180.6	5482	8431.4	n/a
181.4	5482	8428.6	n/a
183.2	5492	8426.4	n/a
178.0	5487	8423.1	45918
178.9	5476	8419.6	n/a
179.3	5481	8417.5	n/a
180.3	5472	8407.3	n/a
181.0	5487	8413.6	n/a
179.5	5491	8406.0	n/a
179.4	5479	8405.6	n/a
181.9	5476	8394.2	n/a
			46013
180.1	5484	8397.2	46012
180.6	5486	8386.5	46004
			45995

179.6	5479	8382.2	45935
178.9	5479	8380.5	45873
180.6	5388	8378.7	45898
180.8	5425	8371.1	45809
180.0	5383	8370.1	45778
180.7	5378	8369.1	45778
178.8	5259	8361.3	45791
180.8	5455	8362.8	45750
181.8	5464	8351.7	45656
179.2	5340	8354.2	45578
179.0	5314	8351.3	45541
180.2	5414	8343.8	45485
181.4	5411	8341.5	45482
181.2	5502	8342.4	45484
180.8	5493	8325.4	45516
179.0	5746	8320.3	45521
179.5	5745	8314.7	45494
179.5	5743	8305.6	45534
179.5	5664	8305.9	45570
179.1	4893	8311.6	45122
179.0	4867	8303.6	45555
179.9	5661	8295.4	45287
179.4	5719	8289.1	45661
180.1	5440	8272.8	45573
180.7	5457	8283.8	45495
180.8	5911	8280.2	45453
157.3	5608	8263.5	45330
158.8	5470	8265.2	45210
157.3	5494	8260.9	45172
157.6	5670	8250.8	45138
156.2	5686	8243.6	45104

159.9	5693	8240.4	45094
159.3	5668	8234.2	45066
160.1	5642	8235.5	45017
160.4	5676	8226.5	44962
154.9	5667	8218.3	44914
158.6	5789	8217.7	44932
156.4	5746	8200.6	44939
157.3	5606	8213.7	44930
157.0	5626	8208.6	44900
162.2	5696	8195.0	44872
157.6	5704	8204.3	44862
157.2	5698	8198.4	44807
158.9	5681	0819.7	44812
157.9	5677	8190.1	44780
157.1	5768	8186.7	44780
157.7	5790	8182.4	44714
157.8	5802	8175.5	44699
157.8	5792	8169.4	44738
155.8	5782	8165.4	44629
157.0	5785	8168.7	44665
157.0	5621	8162.4	44645
159.0	5661	8155.7	n/a
157.2	5707	8153.3	n/a
120.9	5723	8167.1	n/a
031.8	5716	8172.6	n/a
112.1	5798	8169.6	n/a
015.2	5771	8168.4	n/a
161.0	5775	8159.3	n/a
157.9	5802	8144.8	44534
160.1	5874	8138.4	44485
160.9	5832	8142.4	44499
160.9	5800	8136.3	44464
153.9	5725	8121.3	44398
155.7	5731	8115.5	44362
151.1	5792	8107.8	44340
149.7	5830	8097.2	44326
150.3	5811	8103.1	44345
149.2	5592	8081.4	44354
149.4	5739	8087.1	44346

155.2	5785	8101.4	44325
156.5	5709	8085.5	44262
156.9	5807	8090.5	44220
157.5	5804	8083.0	44213
157.5	5684	8077.7	44235
156.8	5725	8078.6	44284
157.2	5718	8071.7	44303
155.6	5682	8069.7	44269
155.6	5725	8068.8	44223
156.7	5587	8062.9	44146
156.5	5558	8067.0	44115
157.0	5478	8060.7	44123
156.6	5634	8060.5	44124
156.5	5516	8048.2	44070
157.4	5735	8051.3	44045
157.4	5534	8048.8	43983
156.7	5440	8044.1	43970
157.1	5457	8034.7	43924
156.7	5465	8035.5	43883
159.1	5588	8032.2	43804
156.3	5612	8029.4	43891
156.9	5670	8012.9	43810
158.2	5469	8029.3	44637
			43718
155.5	5412	8024.6	43717
157.1	5187	8021.6	43839
157.1	5469	8011.9	43758
156.6	5404	8017.2	43740
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			43738
157.4	4906	8007.4	n/a
156.4	5249	7994.2	n/a
157.8	5225	7983.6	n/a

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155.1	6226	7957.7	43574
156.6	6132	7950.6	43577
168.6	5913	7959.8	43598
169.2	6593	7966.0	43571
169.4	5973	7970.4	43562
168.4	5311	7971.5	43565
161.8	5441	7969.0	43583
164.5	5561	7969.1	43626
169.7	5320	7970.5	43659
170.3	5209	7968.0	43673
169.8	5486	7958.5	43641
168.7	5540	7956.4	43590
167.0	5358	7957.6	43556
167.1	5339	7949.5	43533
167.6	5294	7948.1	20843
169.8	5162	7947.6	14977
169.4	5009	7954.2	22541
169.3	4891	7947.2	19293
167.8	5012	7941.7	12411
168.8	5082	7936.1	33953
166.4	4909	7930.2	18484
168.4	4795	7921.3	20882
169.4	5630	7909.9	30240
167.0	6046	7891.6	43150
164.4	5995	7887.1	43071
170.9	5973	7881.7	32207

168.8	5984	7885.6	30809
166.8	5586	7881.0	30185
170.0	5754	7880.5	21750
170.4	5854	7872.5	34471
169.2	5542	7869.8	31712
167.3	5666	7868.8	35584
167.7	5644	7864.5	42816
169.9	5556	7864.4	30673
169.6	5530	7855.2	22973
168.0	5530	7854.9	42864
169.4	5436	7847.5	12672
168.0	5259	7848.2	31027
168.2	4941	7842.4	12558
166.7	5436	7840.5	42717
169.2	5534	7827.6	42687
169.5	5592	7824.5	42661
167.5	5638	7818.7	42664
166.5	5764	7805.1	42684
168.6	5774	7805.3	42691
170.1	5764	7803.7	42679
167.5	5709	7790.3	42668
168.7	5785	7780.2	42640
167.5	5618	7785.5	42561
168.7	5581	7783.5	42513
169.6	5548	7773.9	42488
160.9	5654	7772.0	42471
113.8	5585	7779.5	n/a
305.1	5156	7790.1	n/a
285.9	5636	7780.9	
160.5	5625	7779.8	
170.8	5506	7774.3	
168.9	5475	7772.0	42378
168.3	5575	7750.9	42372
168.3	5605	7757.1	42404
166.4	5602	7750.8	42385
161.1	5580	7755.9	n/a
			42366
172.0	5572	7749.0	42343
167.4	5503	7752.6	42280
			42251
164.8	5495	7754.2	42235
166.0	5446	7750.8	n/a

167.1	5483	7753.6	n/a	42186
172.3	5518	7744.0		42182
171.2	5475	7735.6		42170
169.5	5494	7724.3		42135
161.0	5486	7729.2		42125
170.4	5469	7728.6		42122
168.9	5444	7732.3		42120
168.1	5418	7726.6		42125
166.9	5422	7726.7		42120
167.1	5423	7716.0		42086
168.1	5390	7723.7		42072
169.6	5430	7714.8		42068
167.3	5427	7707.1		42062
167.1	5406	7705.2		42049
166.8	5396	7704.9		42022
169.1	5364	7698.5		41977
171.0	5427	7694.3		41954
169.4	5435	7686.1		41950
167.4	5459	7684.4		41918
171.5	5485	7679.2		41895
169.7	5439	7670.2		41865
166.7	5365	7670.3		41833
167.6	5457	7666.3		41817
166.2	5496	7658.9		41802
167.3	5059	7649.2		41760
169.6	5288	7650.8		41724
168.1	5403	7646.7		41708
167.2	5501	7641.8		41697
166.8	5478	7643.5		41676
169.5	5439	7637.9		41652
168.4	5394	7634.9		41625
168.0	5393	7634.9		41596
170.8	5365	7628.7		41562
171.6	5375	7621.3		41544
169.1	5438	7616.3		41516

167.3	5580	7616.0	41469
169.8	5441	7612.2	41469
168.9	5272	7607.6	41534
168.5	5201	7615.2	41659
170.7	5152	7608.3	41793
167.9	5202	7603.7	41711
170.1	5161	7602.5	41615
169.0	5083	7595.3	41578
167.7	5130	7597.6	41455
170.3	5473	7585.3	41425
166.3	5139	7582.6	41397
167.0	5168	7584.0	41341
167.5	5144	7585.9	41239
169.9	5237	7589.7	41075
166.4	5172	7578.5	40833
169.5	4090	7588.5	40750
169.0	5160	7576.0	40843
168.7	5080	7547.5	40928
167.8	6014	7531.4	41002
164.4	6309	7515.8	41044
165.0	6226	7501.4	41024
162.2	6142	7509.3	41004
161.8	6049	7507.6	41003
163.8	5942	7509.1	40976
163.5	5830	7510.8	40936
165.4	5745	7510.7	40877
167.0	5695	7514.3	40866
165.1	5657	7506.1	40947
165.0	6016	7495.5	40900
163.5	5939	7486.5	40732
164.8	5980	7482.4	40700
165.2	5878	7482.3	40852
165.6	5741	7485.8	40903
165.4	5675	7489.5	40916
166.5	5661	7483.3	40905
163.8	5684	7484.4	40879
167.6	5670	7484.0	40849
163.5	5690	7478.4	40808
164.6	5718	7473.1	40761
165.6	5681	7473.3	40714
167.1	5752	7466.0	40685
165.1	5754	7456.1	40670
165.1	5693	7458.8	40665

164.7	5765	7451.2	40662
164.4	5804	7448.4	40642
163.6	5783	7439.5	40619
178.6	5797	7451.8	40617
146.7	5792	7458.4	n/a
205.0	5792	7456.7	n/a
177.1	5793	7455.2	n/a
167.1	5822	7449.7	40604
164.1	5746	7425.8	40596
165.1	5836	7432.5	40583
166.3	5837	7426.7	40558
164.0	5844	7421.4	40544
164.6	5870	7423.3	40524
165.8	5917	7418.7	40485
164.5	5768	7414.1	40422
163.3	5885	7414.1	40354
164.2	5889	7410.1	40268
165.9	5877	7402.9	40146
164.1	5834	7405.0	40021
162.3	5827	7397.2	39959
163.1	5688	7391.2	40033
165.5	5969	7384.9	40218
166.6	6016	7378.6	40292
162.1	5970	7367.9	40304
164.0	5921	7367.3	40305
166.5	5867	7374.3	40291
163.3	5770	7374.7	40244
164.4	5668	7368.0	40208
163.7	5688	7366.1	40196
162.3	5622	7371.1	40164
164.9	5558	7365.9	40121
164.4	5622	7362.2	40092
163.7	5684	7352.4	40058
163.6	5735	7351.3	40014
162.7	5765	7345.9	39990
164.1	5777	7340.6	40025
167.1	5788	7343.8	40066
164.1	5846	7330.0	40067
165.0	5792	7328.3	40047

162.9	5705	7331.4	n/a
163.7	5712	7336.5	39990
165.7	5677	7327.4	39948
163.9	5599	7327.4	39929
165.2	5628	7323.8	39917
167.1	5606	7317.3	39892
164.6	5602	7320.6	39849
165.1	5622	7315.3	n/a
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164.4	5646	7307.2	39778
163.4	5658	7300.1	39754
164.6	5673	7289.6	39727
164.6	5730	7292.9	39697
164.8	5655	7289.1	39634
165.9	5756	7283.0	39532
166.0	5717	7276.3	39441
164.9	5710	7279.2	39390
163.4	5841	7260.3	39412
164.6	5645	7268.0	39330
163.1	5787	7263.0	39324
163.4	5841	7260.3	39412
164.5	5828	7250.4	39528
164.0	5721	7256.5	39617
165.3	5778	7249.0	39630
165.6	5901	7246.1	39619
161.8	5796	7233.5	39633
163.1	5755	7337.0	39663
163.4	5879	7228.3	39666
165.0	5787	7228.4	39629
165.9	5719	7231.0	39572
165.5	5712	7231.9	39520
166.1	5622	7224.7	39478
166.3	5496	7227.7	39436
165.0	5443	7226.1	39415

164.4	5428	7213.0	39391
162.9	5596	7198.1	39349
163.2	5604	7204.3	39336
165.1	5573	7198.4	39336
165.1	5565	7192.8	39352
160.8	5563	7190.8	39337
161.8	5595	7173.9	39271
167.3	5505	7177.6	39143
165.1	5130	7184.5	38980
166.4	4425	7195.6	38989
165.1	4200	7199.9	39045
164.9	3980	7205.7	39150
165.2	4242	7200.0	39156
165.2	4272	7194.5	39135
165.0	3556	7199.7	39111
166.0	3114	7211.9	39068
166.4	3059	7209.6	39139
166.5	3884	7200.0	38911
162.7	4189	7178.7	38756
163.0	4056	7184.8	38864
016.6	3037	7199.1	38874
165.7	2744	7218.2	38991
167.5	2805	7217.4	39036
162.0	4006	7178.6	39122
163.6	4184	7147.2	39104
165.9	4488	7131.7	39200
163.6	4492	7122.8	39106
164.7	4483	7121.0	38919
165.0	4444	7124.4	38790
163.3	3850	7126.0	38740
163.2	3137	7157.4	38940
050.8	2855	7183.5	n/a
317.4	2855	7193.5	n/a
330.0	2849	7194.6	n/a
162.9	2782	7187.6	n/a
166.1	2966	7183.1	38994
164.3	2469	7189.2	38918
165.0	2626	7194.8	38869
165.7	2210	7192.0	38694
164.1	2720	7171.7	38702
161.4	3984	7136.4	38942
165.9	4563	7100.9	38915

163.7	5220	7079.0	38925
164.3	5642	7058.0	38886
165.0	5854	7047.8	38848
162.8	5844	7040.0	38759
165.6	5786	7037.6	38659
163.5	5761	7042.9	38601
162.7	5746	7033.4	38566
164.1	5737	7045.6	38542
164.4	5735	7036.3	38496
164.4	5730	7034.3	38459
164.4	5678	7035.5	38432
164.1	5376	7039.1	38387
164.2	5495	7035.2	38349
163.8	5467	7035.3	38337
163.2	5493	7017.0	38313
164.0	5545	7025.9	38272
163.0	5329	7018.5	38271
163.2	5640	7007.8	38252
164.9	5640	7012.5	38259
164.2	5656	7005.4	38254
164.4	5663	6998.4	38227
163.5	5632	6996.4	38174
163.9	5662	6997.1	38113
163.2	5646	6989.3	38055
163.3	5642	6968.8	38001
165.2	5601	6987.4	37976
166.4	5657	6981.5	37997
165.4	5659	6976.9	38067
163.7	5712	6974.3	38157
162.0	5657	6964.1	38206
164.0	5687	6960.0	38232
164.2	5678	6959.2	38273
162.2	5679	6961.4	38245
163.5	5649	6954.9	38222
161.6	5633	6955.1	38178
161.3	5561	6948.5	38157
166.0	5515	6953.3	38160
163.8	5509	6957.8	38114
162.9	5528	6942.0	38070
164.5	5532	6944.8	38029
160.0	5530	6940.6	37996
165.2	5500	6934.3	37962
163.3	5301	6933.6	37950

163.6	5416	6931.7	37964
164.9	5481	6931.5	37966
163.9	5443	6930.2	37867
163.7	4566	6936.3	37516
165.2	3344	6966.9	37202
166.0	2364	6988.5	37833
166.5	3720	6963.7	38342
166.3	5165	6912.9	38277
165.4	5500	6905.5	38047
163.9	5442	6889.3	37857
164.5	5376	6895.0	37690
163.0	4987	6899.7	37526
162.3	4194	6907.4	37457
160.8	4320	6922.6	37511
160.1	4175	6918.4	37583
163.0	4248	6908.4	37478
163.9	4178	6907.4	37406
164.6	4966	6900.7	37579
163.5	4997	6890.5	37542
161.9	4991	6888.9	37551
162.8	4873	6891.5	37454
164.7	4287	6894.2	37553
163.1	4522	6897.0	37691
162.8	4767	6880.3	37815
162.8	5110	6863.7	37816
162.0	5448	6844.2	37688
163.0	5616	6829.1	37627
165.5	5509	6820.7	37573
163.5	5497	6820.1	37423
162.9	4804	6823.9	37264
164.3	4467	6838.9	37074
164.2	3342	6866.1	36904
164.7	3134	6871.6	37189
163.0	3977	6850.2	37514
164.6	5267	6808.1	37376
166.9	5330	6790.2	37211
164.0	5386	6783.6	37195
163.1	5135	6782.4	37212
242.4	4795	6788.7	n/a
074.6	4853	6813.9	n/a
058.6	4860	6817.0	n/a
163.2	4876	6805.7	n/a
			37185

162.8	4738	6797.8	37171
162.5	4166	6800.4	37013
163.8	4182	6809.3	37026
164.0	4280	6797.7	37132
163.4	4311	6801.2	37189
163.4	4210	6802.3	37220
164.4	4124	6790.2	37199
163.9	3778	6788.3	37117
163.7	3342	6807.7	37084
163.6	3027	6810.9	37125
163.7	3989	6797.1	37093
164.7	4237	6783.2	37050
163.8	4270	6769.8	37004
165.2	4300	6769.2	37026
165.2	4324	6763.5	37029
160.2	4340	6745.6	36999
163.9	4320	6752.4	36977
164.7	4190	6757.3	36949
164.8	4086	6764.4	36891
163.9	3978	6770.1	36997
163.6	3921	6767.6	37019
164.5	3685	6774.8	37001
162.8	3525	6778.7	36917
160.9	3338	6772.1	36853
154.9	3607	6768.0	36876
155.5	3695	6759.7	36944
155.4	3992	6737.3	37085
155.3	4891	6714.2	37058
154.3	4702	6712.2	36952
155.4	4392	6716.4	36804
154.4	4051	6734.3	36521
154.9	3322	6755.8	36235
154.4	3010	6766.7	36394
155.4	3883	6757.3	36754
155.9	4423	6737.4	36899
155.3	4816	6712.9	36938
154.3	5002	6696.8	36901
155.0	5003	6694.9	36867
155.6	4956	6695.0	36841
153.8	4933	6689.6	36799
154.6	4896	6687.7	36766
154.5	4935	6685.8	36734
154.8	4920	6691.9	36689

155.4	4869	6688.4	36662
155.5	4939	6690.8	36654
157.2	4909	6682.5	36651
153.6	4846	6677.6	36631
155.4	4851	6673.1	36606
155.1	4835	6671.3	36607
155.1	4859	6671.2	36603
156.5	4818	6669.1	36573
155.4	4906	6665.9	36565
155.6	4816	6656.5	36547
154.8	4954	6657.6	36524
155.1	5002	6642.1	36513
155.0	5044	6642.5	36494
154.9	5044	6641.1	36471
153.7	5038	6633.7	36451
154.8	4746	6638.9	36437
154.5	4212	6640.3	36426
154.8	4330	6641.3	36547
154.2	4969	6631.5	36547
156.2	4941	6620.7	36499
154.8	4934	6622.9	36465
155.1	4922	6614.6	36448
155.1	4916	6610.1	36431
155.4	4909	6609.7	36406
154.5	4904	6611.9	36384
154.3	4893	6609.2	36369
155.1	4879	6607.4	36350
154.9	4871	6606.1	36326
154.1	4871	6598.6	36314
155.4	4868	6586.9	36298
153.9	4876	6581.9	36263
155.6	4779	6586.6	36207
155.5	4373	6592.1	36220
155.5	4820	6583.9	36304
154.0	4770	6582.5	36311
155.1	4740	6581.2	36305
154.3	4770	6573.5	36293
156.2	4750	6575.5	36238
154.3	4759	6569.8	36196
154.1	4764	6568.8	36170
154.8	4773	6564.9	36141
155.7	4777	6554.6	36117
155.5	4776	6556.0	36066

155.3	4777	6561.1	36073
155.6	4767	6551.7	36124
154.0	4771	6543.4	36119
155.8	4763	6549.4	36098
154.6	4770	6546.2	36084
153.1	4772	6542.2	36072
157.5	4766	6555.6	n/a
075.1	4760	6566.3	n/a
050.6	4764	6572.3	N/A
160.5	4764	6566.0	n/a
			36067
155.5	4762	6544.5	36067
153.6	4765	6528.8	36064
157.0	4751	6533.2	36042
155.4	4739	6533.3	36024
153.8	4738	6517.4	36026
155.4	4739	6527.9	36026
182.0	4744	6549.4	36003
182.1	4757	6555.6	35657
184.3	4726	6548.2	35938
182.8	4758	6537.4	35958
183.0	4755	6536.0	35942
183.2	4756	6527.6	35900
182.9	4766	6528.3	35854
182.3	4779	6524.7	35850
183.8	4786	6521.1	35853
181.0	4797	6515.2	35832
183.9	4808	6515.2	35835
182.6	4823	6506.1	35855
182.3	4841	6501.2	35837
182.2	4843	6493.4	35803
181.0	4846	6492.0	35772
184.6	4856	6491.5	35749
185.1	4858	6482.9	35731
184.5	4859	6465.7	35725
181.6	4856	6475.7	35715
159.4	4869	6468.7	35703
135.1	4878	6408.0	35688
134.5	4879	6410.8	35670
133.1	4844	6408.2	35666
132.8	4872	6403.2	35666

132.0	4846	6400.2	35657
137.9	4801	6397.9	35639
136.1	4805	6403.5	35627
134.4	4734	6399.3	35610
133.8	4533	6401.1	35599
135.3	4460	6409.4	35592
210.9	4316	6408.4	35574
207.4	4226	6500.7	35568
208.7	4072	6504.5	35539
208.3	3876	6507.2	35615
208.0	3974	6488.6	35599
225.5	3973	6512.5	35538
227.3	3878	6520.0	35455
227.1	3458	6527.7	35509
226.9	4077	6515.9	35622
227.4	4128	6503.3	35447
226.9	4140	6494.8	35426
227.9	4115	6488.7	35430
225.8	4206	6491.3	35431
226.5	4271	6487.2	35425
227.7	4372	6482.1	35391
228.1	4181	6490.9	35304
136.7	3976	6415.4	35195
137.6	3084	6438.4	35208
073.6	2978	6482.1	34706
050.9	3007	6476.4	35160
049.4	3007	6445.8	35297
046.9	3478	6432.1	35388
049.0	3395	6458.8	35456
051.3	3382	6471.2	35364
048.9	3315	6470.2	35532
049.5	3364	6434.5	35490
048.7	3304	6431.9	35507
047.0	3449	6442.6	35447
049.2	3570	6434.5	35466
050.5	3434	6436.3	35653
020.2	3649	6439.4	35737
023.8	3726	6449.7	35670
022.1	3873	6450.5	35619
022.8	4012	6439.8	35592
168.9	3989	6444.5	35574

160.9	3685	6449.1	35590
164.8	3460	6467.6	35608
161.4	3290	6470.7	35566
120.4	3169	6487.1	35546
100.7	3212	6440.8	35561
099.3	2874	6433.6	35559
100.6	3490	6415.9	35590
099.6	3450	6426.0	35556
101.1	3485	6417.8	35517
100.8	3575	6414.4	35477
153.2	3589	6446.4	35515
158.2	3744	6436.7	35533
158.2	3747	6437.0	35491
157.2	3745	6472.2	35470
157.4	3613	6399.1	35480
158.6	3678	6426.9	35495
160.0	3494	6423.8	35482
155.3	3610	6433.0	N/A
155.3	3545	6444.8	N/A
154.7	3784	6414.1	N/A
156.0	3720	6408.8	N/A
159.7	3558	6436.1	N/A
157.7	3447	6455.8	N/A
156.9	3034	6434.8	N/A
159.3	2356	6452.4	N/A
158.6	1264	6491.9	N/A
157.4	1122	6527.2	N/A
157.3	907	6548.1	n/a
148.6	1136	6520.5	N/A
137.0	1131	6500.3	N/A
133.9	988	6504.2	N/A
130.9	977	6519.2	N/A
132.1	1050	6545.0	N/A
131.9	986	6518.2	N/A
129.6	1030	6508.1	n/a
175.9	1602	6524.5	N/A
	2570		
174.8	2710	6463.3	N/A
167.4	2656	6424.7	N/A
167.0	2557	6443.1	N/A
168.1	2244	6446.9	N/A
169.0	2321	6430.8	N/A
099.7	2381	6430.2	N/A

107.7	2269	6380.9	N/A
104.1	2160	6358.2	N/A
104.1	2664	6347.5	N/A
105.1	2803	6344.2	N/A
106.8	2680	6361.6	
107.1	2019	6390.4	N/A
102.2	1272	6436.6	N/A
099.2	784	6474.0	N/A
105.9	550	6510.6	N/A
080.9	348	6525.9	N/A
082.9	332	6534.1	N/A
078.6	393	6499.8	N/A
082.5	330	6504.0	N/A
066.7	438	6489.7	N/A
069.6	398	6490.2	N/A
046.6	104	6514.8	N/A
	12	6555.0	N/A
	12	6481.1	

pC02	Shot # (OY	Comments and Observations
399.5		<p>underway Cristina on watch underway Cristina on watch underway Cristina on watch underway Cristina on watch underway Cristina on watch underway Cristina on watch underway Cristina on watch underway Cristina on watch underway Cristina on watch underway Cristina on watch underway Cristina on watch, launch at 03:55 of T-4 #29 underway Cristina on watch underway Cristina on watch underway Cristina on watch underway Cristina on watch Christina off, Julie on watch</p> <p>Sim at 0 meters? Bathy at 68 meters? Sim at 0 meters still Bathy at 68 meters? Sim turned off Bathy is back to normal @3778</p> <p>Slowing down to pull mag back on board Back to a nice cruising speed of 11.7 Knots Mag (Cs) will be deplod soon Mag on deck (swapping Cesium/Proton)</p> <p>Speed decreased to 6 Knots 08:39:27 Mag (Cs) turned on & deplod Cs Mag seems to be functioning.</p>

MB @4500m & Bathy @6500 for a few minutes

353.1

We've hit Aleutian Trench!
Joann on watch, Julie off

355.4

349.7

course change to next way point

340.1

336.4

stop maggie, out of water for CTD cast
CTDcast in progress
bathy2000 wrong due to noise of thrusters

steep topography below us, accounts for diff w/multibeam
still doing CTD cast no maggie out
MAGGIE deployed 300 m behind ship
magnetometer values stabilized
Back on track at full speed

Kelly on watch, Joann off
turn to parallel previous ship track
xbt launched (t5 #30)

339.1

multibeam logging stopped and restarted while recentering grid

multibeam paused again

345.5

deviating from course to waypoint to follow ship track

Kelly off, Cristina on

bathy2000 file still on y0831-10.dat

Christina off watch, Julie on

377.3

Pretty uneventful abyssal plain.

366.9

363.2

Joann on watch, Julie off

358.9

357.6

MAGNETICS OFF FOR ctd drop
taking CTD; winch noise on Bathy2000w
multibeam noisy; due to thrusters?
CTD cast still in progress
CTD over; deploying magnetometer
XBT T-5 #31; magnetics values varying but settling down
magnetics now stable again; CTD still going on
magnetics showing some instability
magnetics still very noisy
paused multibeam to load sound velocity profile (xbt t5 00031)
magnetometer still noisy
magnetometer stopped for a check on the instrument
maggie on deck to check status

maggie on deck, noisy
maggie on deck, noisy
maggie deployed, better but still noisy; Kelly on watch, Joann off
maggie noisy again
maggie still noisy

maggie doing better

maggie noisy again

maggie getting really bad

maggie stopped for checking
maggie on deck, noisy
maggie on deck, noisy
maggie back in
maggie still noisy
maggie stopped, checking power supply
no good magnetic reading. Kelly off, Cristina on

power supply issues on magnetometer?
speed slowed to ~6kn to pull in cesium mag., mag signal off

old proton procession magnetometer out at 650ft
speed back up to ~10kn

magnetometer online, G-866

current magnetometer is on ice in aft.
Check ice and tuning every 1/2 hr. tuned to 460

magnetometer stopped logging data
magnetometer back on, moved to hydro lab.

magnetometer dropped off for fraction of min

Bathy2000 offline, value first falls to ~3800
using Multibeam depth

Bathy 2000 back up, still reads inconsistent values
begin y0902-01.dat file
bathy2000 offline again

Bathy2000 on line again reading shallower than EM120
bathy 200 and MB are roughly equivalent (within 5 m)
bathy and MB split ~150 meters, later return to equivalent
disparity ~20-50 meters

return to equivalent
return disparity 50 > delta > 10 m
delta < 10 meters

50 > delta > 10 meters
one spike of magnetometer noise
another magnetometer noise spike
magnetometer tuned to 45500nT, some additional noise

magnetometer noise
more magnetometer noise

more magnetometer noise

364.7

launch XBT T-5 #32
XBT still in progress
Christina off watch, Julie on

Sailing due south

370.6

Reached Chinook Trough (K pacific plate rift)
Bathy 5351 & MB 6071 at 07:19
Changed bearing to SE. Bathy & MB back in sync.

380.4

Joann on watch, Julie off

tuned magnetometer to 448 (had been at 455)

377.6

magnetometer noisy

magnetics not logging

magnetics not logging

CTD cast in progress; noisy thrusters on bathy 2000 data

CTD cast in progress; noisy thrusters on bathy 2000 data

MB depth better than bathy2000 - MB depth used here

maggie fuse needs replacing

maggie deployed 650' behind the ship

magnetometer still needs the fuse replaced

magnetics logging again

MAGGIE voltage dropped to 27 and grounded better

fire drill

maggie tuned to 443

slowing for xbt

xbt, t5, #33

multibeam paused

maggie tuned to 440

Cristina on, Kelly off

magnetometer noisy, refrigerator door not closed fully?

magnetometer tuned to 438

magnetometer noisy

huge spike of noise on magnetometer data

magnetometer offline

magnetometer back online

searching for alternate power supply for magnetometer
(12 v batteries?)

lots of magnetometer noise

magnetometer offline, trying to change power supply

magnetometer online

magnetometer offline

magnetometer online, power change failed

magnetometer offline, taking apart to try and find problem

slowing down to put Cs maggie into the water; engine or thruster noise
on Bathy2000

magnetometer out ~1000ft., speed picking up again

Bathy 2000 and MB inconsistent by ~800 meters, used MB depth

magnetometer online, still noisy
Bathy 200 being rebooted, gap in the Multibeam data (due to shadows?)
Bathy still down, using Multibeam data for depth
Bathy back, values inconsistent to ~200 meters
MB values jumping settle at ~6400 m
trouble with MB, call bridge to request tilt to starboard
start y0903-01.dat on Bathy, Bathy/MB sill off by ~100 m.
change course to next waypoint (37 N, 164 40'W)
magnetometer still noisy
large Bathy and MB disparity, hill/trough bathymetry?
Bathy and MB values consistent
Bathy values fallen to 4102 m
Bathy reads consistent values again

slow for XBT
launch XBT T-5 #34
speeding up after XBT
slowing for another XBT
launch XBT t-5 #36, aborted; may have hit the maggie and shorted out. Subsequent maggie data are very clean.
launch XBT t-5 #37
speeding up after XBT, no more magnetometer noise
magnetometer noise back.

MB stopped logging for second

Cristina off watch, Julie on
Mag readings are all over the place from 20000 to 51000
bad maggie bad maggie

344.2

launched XBT probe T-5 #39

370.3

Noticed more gaps in sonar data

359.4

Joann on watch, Julie off; magnetics very noisy
magnetics still extremely noisy
magnetics still extremely noisy
magnetics still extremely noisy
magnetics still extremely noisy

360.0

magnetics more noise than real data
magnetics more noise than real data
magnetics more noise than real data
magnetics more noise than real data
magnetics more noise than real data
magnetics more noise than real data
magnetics more noise than real data
stop logging maggie, slow for CTD cast
going slow for CTD cast
going slow for CTD cast
going slow for CTD cast
proton precession (old) magnetometer deployed
magnetometer out at 650' behind ship, not yet working
using old proton precession magnetometer

will put Cs magnetometer back into the water shortly
slowdown to swap maggies; no mag data
Cs maggie logging again. Some bad values in the first mins.
Kelly on watch, Joann off; magnetics noisy
maggie very noisy
slowing to 6 knots (for maggie)
magnetics clean at slow speed
pulling maggie out
maggie on deck

maggie in water (300ft back), not stable yet
maggie good at slow speed
maggie good to 10 knots
slowing to 10 knots
multibeam narrows at slow speeds
maggie stopped to extend cable
maggie restarted (300m out) , stable
maggie happy
slow for xbt
xbt, t5, #40
maggie noisy at 11 knots, going to 10
maggie doing better

multibeam grid changed
firedrill

Kelly off, Cristina on

noise on Bathy 2000, low bathymetry values.
noise cleared

magnetometer noise

394.8

Christina off watch, Julie on

Mag data looks consistant

Crossing Mendocino Fracture zone
Not recordig high ridge :(
MB looking "gappy" once again.

405.6

MB looking a lot better know

Joann on watch, Julie off

magnetics had one short noise burst a little while ago

slowing to pull maggie, start CTD cast
magnetics not logging (pulled out for CTD cast)

CTD cast in progress

magnetometer is redeployed

LAUNCH XBT T-5 #41
xbt launch still in progress

Kelly on watch, Joann off

multibeam logging paused

maggie noisy again

maggie still noisy
magnetometer very noisy, trend still visible. Cristina on, Kelly off

slowing down to pull magnetometer from water, magnetometer not
logging

moved weight on magnetometer, put back in water
gaining speed. Magnetometer out 900 feet
magnetometer online
still have lots of magnetometer noise
drop speed to 9.8 for magnetometer
drop speed to 9.0 for magnetometer
noise dissipated
picking speed up to ~9.5 kn
more magnetometer noise

slowing to ~5 kn to pull magnetometer out

magnetometer not logging, will attach weight to magnetometer for
orientation

magnetometer in water at 900ft, bringing speed back to 10 kn.

magnetometer online, no good values

good mag values- no noise, speeding up to 11 kn

406.5

Christina off watch, Julie on

409.1

Mag data looks consistent. :)
All instruments are behaving themselves!!!

Encountered shallow bathymetry.

MB reduced to 50 degrees.

Joann on watch, Julie off

magnetics stopped logging; slowing down for CTD cast
CTD cast in progress
CTD cast in progress
CTD cast in progress; lots of thruster noise on the bathy 2000
magnetometer being re-deployed
magnetometer logging again; data stream looks stable

lots of relief on the multibeam

kelly on watch, Joann off

back to low relief on the multibeam

xbt, t5, #42

382.0

Cristina off watch, Julie on

Dropping off the side of a seamount.

Bathymetry truly favors the night.

383.9

MB not too shabby over large seamount!

magnetics logging off; slow for CTD cast
CTD cast in progress; thruster noise on bathy2000
CTD cast in progress; thruster noise on bathy2000
CTD cast in progress; thruster noise on bathy2000
coming back up to speed after the CTD cast
magnetometer 900' behind ship, signal now stable

Kelly on watch, Joann off

slowed for xbt, hardware difficulties with xbt
xbt, t5,

multibeam logging paused

Kelly off, Cristina on

tilting to starboard

Bathy 2000 starts y0907-01.dat

Christina off watch, Julie on.

MB Interference filter turned off due to topography.

358.0

Turned MB Interference filter back on.

356.0

oooh a seamount!!!

Joann on watch, Julie off.

magnetometer not logging; slowing down for CTD cast
CTD cast in progress
CTD cast in progress
coming back up to speed after CTD cast
magnetometer back in the water, not logging yet
magnetometer readings stabilized

changing course to next way point

Kelly on watch, Joann off

xbt, t5, #44

Kelly off, Cristina on

turned to next waypoint (22 20.00 N, 160 W)

Bathy 2000 begins y0908-01.dat

turned to next waypoint (22 15.00N, 159 55.00W)

turned to next waypoint (22 35.00 N, 159 30.00W)

Christina off watch, Julie on.

9:00 reached waypoint #4 (22 35.00 N, 159 30.00 W)

9:50 reached waypoint #5 (22 45.00 N, 159 25.00 W)

MB data looks good & complete (knock on wood!)

10:59 reached waypoint #6 (22 33.00 N & 159 22.00 W)

Joann on watch, Julie off :)

magnetics getting very noisy

stopped logging magnetics

magnetometer out of water, no more maggie logging

Kelly on watch, Joann off
too deep for the SIM again

course change to next wpt

shutting down all but grav., bathy 2000, nav
multibeam off

at pier
stopped and tied up