

MGL1903 June 8th 2019 to

Alan: this should be COG 1 min average

30-minute logt

JD	Time (GMT)	Lat (°N)	Lat (decmin)	Lon (°W)	Lon (decmin)	depth (m)	Shot	COG (degrees)	speed (kts)	wind (knts)	1d Direc	seas (m)	gravity	sea temp (°)	salinity	Magnetometer	comment
159	10:18	57	12.2300	152	11.0700	NA	NA	355.40	4.60	7.50	W	0.50	981738	10.67	32.410	53535.000	
159	10:30	57	13.0889	152	10.7884	NA	NA	26.30	4.60	8.60	S		981828	10.76	32.420	53532.000	
159	11:03	57	15.0500	152	7.4400	NA	NA	43.10	4.80	7.90	S	0.50	981723	10.54	32.420	53558.000	
159	11:33	57	16.7400	152	4.5400	NA	NA	43.20	4.80	10.10	SW	0.50	981725	10.56	32.420	53578.000	
159	11:57	57	18.1800	152	2.1500	NA	NA	41.90	4.60	11.20	SW	0.50	981726	10.61	32.420	53610.000	
159	12:30	57	20.0765	151	59.0936	NA	NA	42.90	4.50	10.50	S	0.50	981727	10.24	32.390	53614.000	
159	12:59	57	20.2936	151	55.5033	NA	NA	127.60	4.50	11.50	SW	0.50	981731	10.47	32.420	53623.000	
159	13:30	57	18.5355	151	55.2555	NA	NA	223.30	4.10	7.30	SW	0.50	981756	10.40	32.420	53620.000	
159	14:00	57	17.3238	151	58.2061	NA	NA	231.50	3.90	8.70	SW	0.50	981756	10.24	32.410	53591.000	
159	14:27	57	16.0892	152	0.7972	NA	NA	222.40	4.30	10.60	SW	0.50	981756	10.34	32.420	53592.000	
159	15:00	57	14.3090	152	3.3205	NA	NA	206.30	4.30	10.20	SW	0.50	981751	10.29	32.420	53560.000	
159	15:31	57	12.3857	152	3.7992	NA	NA	178.60	3.40	9.30	S	0.50	981746	10.02	32.410	53523.000	
159	16:00	57	10.8223	152	2.6434	NA	NA	155.20	3.80	5.80	S	0.50	981741	10.07	32.410	53520.000	
159	16:30	57	9.1472	152	1.2372	NA	N/A	155.50	3.80	5.40	SW	0.50	981743	10.05	32.420	53492.000	
159	17:00	57	7.4152	151	59.4509	70.00	N/A	131.40	5.20	8.00	S	0.50	981737	9.86	32.420	53450.000	
159	17:30	57	7.4675	151	55.3262	75.00	N/A	41.70	4.70	9.90	S	0.50	981743	9.10	32.420	53444.000	
159	18:00	57	9.5688	151	55.5171	73.12	N/A	335.70	4.40	10.20	S	0.50	981766	9.31	32.420	53464.000	
159	18:30	57	11.5275	151	57.2067	70.00	N/A	334.50	4.30	9.80	S	0.50	981765	9.48	32.420	53473.000	
159	19:00	57	13.4775	151	58.6884	75.72	N/A	336.60	4.50	10.20	S	0.50	981762	10.02	32.420	53514.000	
159	19:30	57	15.3935	152	0.7930	75.85	N/A	302.10	4.60	8.60	S	0.50	981764	10.37	32.410	-	Maggie data is messy because we are curre
159	20:00	57	14.9559	152	5.0576	78.32	N/A	218.70	5.10	9.00	S	0.50	981758	10.50	32.420	53512.000	
159	20:21	57	13.0000	152	5.0000	75.3	990	148.50	4.80							SOL 1 (degree in min, not decimal min)	
159	20:30	57	12.7300	152	4.3200	80.45	993	151.90	5.10	10.50	S	0.50	981736	10.37	32.420	53501.000	
159	21:00	57	10.5400	152	2.4000	82.89	1004	155.40	5.10	9.20	S	0.50	981740	9.83	32.410	53467.000	
159	21:30	57	8.1179	152	0.3690	77	1010	154.80	5.00	9.70	S	0.50	981742	9.38	32.420	52458.000	
159	22:00	57	5.9395	151	58.7275	75	1028	155.30	5.00	8.80	S	0.50	981749	9.40	32.420	53418.000	
159	22:31	57	3.6100	151	56.6000	83.61	1040	155.30	4.90	8.10	S	0.50	981745	8.73	32.420	53419.000	
159	23:00	57	1.5400	151	54.8800	87.67	1050	154.70	4.80	5.10	S	0.50	981748	8.61	32.420	53427.000	
159	23:30	56	59.4100	151	53.1100	82.25	1061	155.30	4.70	5.20	SE	0.50	981752	8.52	32.420	53441.000	
160	0:00	56	57.9312	151	51.4252	77.39	1071	156.00	4.20	6.20	E	0.50	981757	8.65	32.420	53467.000	
160	0:30	56	55.4459	151	49.8136	73.33	1081	155.70	4.30	7.60	E	0.50	981759	8.60	32.410	53480.000	
160	1:00	56	53.4512	151	48.1483	77.98	1091	155.20	4.40	9.70	E	0.50	981757	8.99	32.420	53473.000	
160	1:30	56	51.5273	151	46.5524	108.43	1101	156.10	4.30	10.70	E	0.50	981756	9.00	32.410	53475.000	
160	2:00	56	49.4644	151	44.8775	174.08	1112	155.80	4.30	10.60	E	0.50	981754	9.16	32.410	53504.000	
160	2:30	56	47.5264	151	43.2824	285.93	1121	155.30	4.40	11.60	E	0.50	981744	9.27	32.360	53493.000	
160	3:00	56	45.4585	151	41.5599	574.2	1132	155.50	4.80	12.10	E	0.50	981729	9.28	32.380	53540.000	
160	3:30	56	43.2858	151	39.8038	1159.17	1143	155.70	4.80	14.00	E	0.50	981706	9.35	32.390	53540.000	
160	4:00	56	41.2892	151	38.1607	1165.14	1153	155.60	4.90	13.70	E	0.50	981700	9.41	32.420	53517.000	
160	4:30	56	39.1652	151	36.4211	1240.71	1164	155.90	4.50	14.40	E	0.50	981697	9.35	32.440	53489.000	
160	5:00	56	37.1425	151	34.7857	1447.6	1174	155.80	4.60	21.90	E	0.50	981692	9.21	32.460	53448.000	
160	5:30	56	35.0511	151	33.0899	1654.4	1185	155.50	4.60	19.20	E	0.50	981679	9.16	32.460	53438.000	
160	6:00	56	32.7303	151	31.2057	2110.06	1197	155.70	4.90	12.40	E	0.50	981654	8.89	32.480	53422.000	
160	6:30	56	30.5050	151	29.4084	2268.26	1208	156.00	4.80	18.60	E	0.50	981637	9.07	32.510	53403.000	
160	7:00	56	28.2366	151	27.5753	2922.67	1220	155.50	5.10	17.80	E	0.50	981610	8.93	32.510	53396.000	
160	7:30	56	25.9444	151	25.7264	3311.96	1231	156.70	4.90	16.50	E	0.50	981588	9.03	32.530	53393.000	
160	8:00	56	23.7179	151	23.9391	4095.54	1242	156.10	5.00	16.50	E	0.50	981561	8.94	32.530	53387.000	
160	8:30	56	21.4700	151	22.1400	4597.37	1254	156.10	4.80	19.80	E	1.50	981537	8.78	32.530	53357.000	
160	9:00	56	19.5300	151	20.5800	4392.2	1264	155.90	4.80	14.50	E	1.50	981524	8.89	32.520	53318.000	
160	9:30	56	17.2600	151	18.7700	4940.5	1275	156.10	5.00	17.70	E	1.50	981511	8.85	32.530	53267.000	
160	10:00	56	15.0900	151	17.0400	5213.21	1286	156.20	4.90	20.50	E	1.50	981500	8.94	32.530	53202.000	
160	10:31	56	12.7700	151	15.1900	5333.2	1298	156.50	4.70	23.60	E	1.50	981495	9.07	32.520	53130.000	
160	11:00	56	10.9200	151	13.7200	5321.62	1307	156.10	4.60	19.20	E	1.50	981496	9.03	32.500	53099.000	
160	11:30	56	9.0300	151	12.2300	5310.97	1317	156.30	4.70	17.20	NE	1.50	981496	9.01	32.500	53062.000	
160	12:00	56	6.8800	151	10.5300	5308.86	1328	157.20	4.60	19.40	NE	1.50	981496	8.98	32.550	53035.000	
160	12:30	56	4.6375	151	8.7534	5314.2	1339	156.60	4.50	16.80	E	1.50	981496	8.88	32.530	53023.000	
160	13:00	56	2.5334	151	7.0979	5310.79	1350	156.00	4.40	19.60	E	1.50	981498	9.02	32.510	53020.000	
160	13:30	56	0.4791	151	5.4797	5312.56	1360	155.10	4.80	21.10	E	1.50	981498	8.98	32.520	53015.000	
160	14:00	55	58.3432	151	3.7966	5317.72	1371	155.60	4.80	17.50	NE	1.50	981497	8.92	32.540	53013.000	
160	14:30	55	56.2384	151	2.1502	5317.69	1382	156.20	4.80	17.50	NE	1.50	981500	8.88	32.530	53008.000	
160	15:00	55	54.1670	151	0.7942	5284	1392	182.90	4.70	18.80	NE	2.00	981506	8.97	32.500	53014.000	
160	15:30	55	57.7663	151	2.6078	5210.56	2013	205.10	5.30	18.40	NE	2.00	981517	8.87	32.500	52955.000	
160	16:00	55	49.3666	151	4.6173	5162	2025	205.30	5.00	19.10	NE	1.50	981520	8.91	32.500	52915.000	
160	16:30	55	47.3918	151	6.2758	5116.23	2035	207.10	4.80	20.80	NE	1.50	981523	8.91	32.490	52861.000	
160	17:00	55	45.1454	151	8.1602	5034.75	2046	206.60	4.90	20.50	NE	1.50	981529	8.90	32.490	52799.000	
160	17:30	55	43.0082	151	9.9485	4938.3	2057	205.60	4.60	20.30	NE	1.50	981532	8.81	32.490	52760.000	
160	18:00	55	40.5700	151	11.6559	4886.84	2068	207.10	4.60	20.20	NE	1.50	981533	8.77	32.530	52788.000	
160	18:30	55	38.8163	151	13.4235	4845.2	2079	205.10	4.70	18.90	NE	1.50	981536	8.73	32.520	52939.000	
160	19:00	55	36.7998	151	15.1128	4790.8	2089	206.20	4.60	20.60	NE	1.50	981536	8.73	32.540	52985.000	
160	19:30	55	34.7424	151	16.8230	4727.15	2100	205.60	4.50	18.20	NE	1.50	981539	8.75	32.540	52939.000	
160	20:00	55	32.6600	151	18.5300	4672.41	2110	205.00	4.70	19.60	NE	1.50	981543	8.83	32.540	52865.000	
160	20:30	55	30.6300	151	20.2200	4630.32	2121	205.40	4.80	19.20	NE	1.50	981543	8.8			

161	19:30	56	17.1978	152	44.0687	466.27	3381	334.10	5.30	26.30 NE	1.50	981690	9.23	32.400	53136.000	
161	20:00	56	19.5003	152	46.0093	142.54	3393	335.20	5.30	26.10 NE	1.50	981720	9.25	32.380	53129.000	
161	20:30	56	21.9300	152	48.0800	83.72	3406	334.10	5.20	26.30 NE	1.50	981727	8.87	32.350	53122.000	
161	21:00	56	24.1400	152	49.9600	54.15	3417	334.70	5.30	27.60 NE	1.50	981729	9.08	32.340	53129.000	
161	21:30	56	26.6500	152	52.1100	58.23	3430	334.60	5.20	24.60 NE	1.50	981729	8.98	32.350	53109.000	
161	22:00	56	29.0800	152	54.1700	58.85	3442	334.40	5.20	27.40 NE	1.50	981720	9.51	32.250	53117.000	
161	22:30	56	31.6100	152	56.3300	83.47	3455	334.10	5.30	30.00 NE	1.50	981712	9.60	32.220	53134.000	
161	23:00	56	33.9300	152	58.3300	93.71	3467	332.80	5.60	24.70 NE	1.50	981705	9.58	32.180	53141.000	
161	23:30	56	36.2200	153	0.2900	90.13	3479	225.40	5.70	30.70 NE	1.50	981705	9.56	32.190	53174.000	
162	0:00	56	38.6800	153	2.4300	122.72	3492	229.50	5.20	29.40 NE	1.50	981701	9.38	32.200	53199.000	
162	0:37	56	38.4654	153	8.4301	156	4014	244.90	5.80	28.90 NE	1.50	981705	9.78	32.210	53209.000	
162	1:00	56	37.6210	153	11.7387	150	4024	245.20	5.80	28.10 NE	1.50	981704	9.88	32.100	53196.000	
162	1:30	56	36.4056	153	16.5232	145	4037	246.50	5.80	29.60 NE	1.50	981700	9.72	32.150	53178.000	
162	2:00	56	35.0835	153	21.6632	105	4051	245.10	5.70	30.80 NE	1.50	981697	9.39	32.160	53163.000	
162	2:30	56	33.9919	153	25.9234	124	4064	244.70	5.90	25.70 NE	1.50	981694	9.14	32.160	53148.000	
162	3:00	56	32.2828	153	28.9789	131.02	4073	178.40	4.30	27.20 NE	1.50	981672	8.56	32.250	53129.000	
162	3:30	56	29.1960	153	28.6147	91	5018	176.90	5.30	27.40 NE	1.50	981676	8.38	32.420	53112.000	
162	4:00	56	27.3118	153	28.4075	80	5027	175.90	4.00	25.60 NE	1.50	981677	8.62	32.400	53109.000	Maggie out for turn
162	4:30	56	25.4395	153	27.8977	73.5	5036	156.30	4.30	23.00 NE	1.50	981675	8.55	32.390	N/A	Maggie out for turn
162	5:00	56	23.5806	153	26.2904	62.83	5046	151.50	4.00	22.70 NE	1.50	981682	8.57	32.390	N/A	Maggie out for turn
162	5:30	56	21.7901	153	24.7331	61.33	5055	154.40	3.80	26.10 NE	2.00	981685	8.50	32.390	N/A	Maggie out for turn
162	6:00	56	19.9569	153	23.1307	58.85	5064	153.60	4.10	21.20 NE	1.50	981689	8.48	32.410	N/A	
162	6:30	56	18.1439	153	21.5599	72.12	5074	154.40	4.20	22.50 NE	1.50	981693	8.60	32.410	N/A	
162	7:00	56	15.2421	153	19.0333	136.67	5089	153.30	4.90	22.10 NE	1.50	981698	9.11	32.440	N/A	
162	7:30	56	13.7077	153	17.7072	397	5097	155.40	5.30	22.30 NE	1.50	981675	9.03	32.440	N/A	Maggie out for weather
162	8:00	56	11.2200	153	15.5700	1106.53	5109	155.60	5.40	21.00 NE	1.50	981638	8.97	32.440	N/A	Maggie tries to strangle itself in waves
162	8:30	56	8.9700	153	13.6300	1289.33	5121	153.90	5.40	22.20 NE	1.50	981628	8.89	32.450	NA	
162	9:00	56	6.5500	153	11.5500	1371.09	5133	155.20	5.90	21.30 NE	1.50	981615	8.89	32.450	NA	
162	9:30	56	4.0000	153	9.3900	1497.22	5147	151.80	5.50	21.70 NE	1.50	981604	8.72	32.420	NA	
162	10:00	56	1.2600	153	7.0500	1684.96	5161	154.40	5.60	22.30 NE	1.50	981598	8.87	32.420	NA	
162	10:30	55	59.0700	153	5.1900	2070.25	5172	155.60	5.40	22.60 NE	1.50	981584	8.83	32.420	NA	
162	11:00	55	56.6700	153	3.1500	2528.89	5184	155.10	5.50	21.10 NE	1.50	981562	8.73	32.430	NA	
162	11:30	55	54.3100	153	1.1500	2804.39	5196	154.10	5.40	20.00 NE	1.50	981549	8.84	32.420	NA	
162	12:00	55	51.8200	152	59.0500	3211.41	5209	154.00	5.50	18.40 NE	1.50	981528	8.82	32.420	NA	
162	12:30	55	49.8470	152	57.0117	3921.26	5222	154.00	5.40	18.20 NE	1.50	981506	8.89	32.420	NA	
162	13:00	55	46.8994	152	54.9069	4350.22	5234	155.90	5.40	20.70 NE	1.50	981491	8.93	32.420	NA	
162	13:30	55	44.6194	152	52.9758	4470.91	5246	155.50	5.20	21.10 NE	1.50	981481	8.96	32.420	NA	
162	14:00	55	42.2312	152	50.9959	5136.93	5258	155.00	5.20	20.50 NE	1.50	981469	9.04	32.430	NA	
162	14:30	55	39.5598	152	48.7474	5426.17	5272	154.90	5.20	20.20 NE	1.50	981459	8.95	32.430	NA	
162	15:00	55	37.5705	152	47.0882	5399.82	5282	157.70	5.40	18.70 NE	1.50	981456	8.99	32.420	NA	
162	15:30	55	35.0306	152	44.9850	5383.89	5295	157.20	5.30	20.50 NE	1.50	981459	9.03	32.430	NA	
162	16:00	55	32.5555	152	42.9295	5379.97	5308	154.00	5.40	21.30 NE	1.50	981465	9.03	32.430	NA	
162	16:30	55	29.8929	152	40.7263	5388.93	5322	155.20	5.50	19.70 NE	1.50	981469	8.95	32.450	N/A	
162	17:00	55	27.7944	152	38.9847	5262.3	5332	156.00	5.40	19.00 NE	1.50	981477	8.95	32.440	N/A	
162	17:30	55	25.3360	152	36.9614	5082.33	5345	154.70	5.50	19.00 NE	1.50	981486	9.00	32.450	N/A	
162	18:00	55	22.8448	152	34.9114	4936	5358	154.40	5.50	20.90 NE	1.50	981495	9.01	32.450	N/A	
162	18:30	55	20.2811	152	32.8105	4803	5371	155.00	5.80	17.30 NE	1.50	981502	8.93	32.440	N/A	
162	19:00	55	17.6218	152	30.6342	4627	5385	154.80	5.90	19.70 NE	0.50	981510	8.93	32.450	N/A	
162	19:30	55	15.0151	152	28.5050	4531.01	5398	155.10	6.10	17.70 N	1.50	981516	8.80	32.460	N/A	
162	20:00	55	12.3286	152	26.3156	4434.54	5412	155.00	6.00	17.30 N	1.50	981527	8.89	32.480	N/A	
162	20:30	55	9.6050	152	24.1163	4308.9	5425	156.00	6.10	16.30 N	1.50	981533	8.82	32.450	N/A	
162	21:00	55	7.0159	152	22.0091	4255.32	5439	154.30	6.20	16.30 N	1.50	981534	8.73	32.460	N/A	
162	22:30	54	58.6800	152	15.2900	4113.13	5481	153.90	6.20	13.40 N	1.50	981534	8.78	32.470	NA	
162	23:00	54	55.8300	152	12.0100	3905.64	5496	156.10	6.20	12.70 N	1.50	981547	8.74	32.460	NA	
162	23:30	54	53.6800	152	14.9300	3043.76	6009	245.60	5.10	12.20 N	1.50	981588	8.79	32.470	NA	
163	0:00	54	52.6300	152	18.9000	3178.74	6020	246.10	5.20	12.20 N	1.50	981581	8.92	32.490	NA	
163	0:30	54	51.3547	152	23.7073	3864.26	6035	244.30	5.20	11.40 N	1.50	981561	8.75	32.480	NA	
163	1:00	54	50.5636	152	26.6669	3856.06	6043	245.50	5.30	12.60 N	1.50	981554	8.70	32.490	NA	
163	1:30	54	49.3301	152	31.2481	4145.34	6057	244.90	5.40	11.70 N	1.50	981547	8.71	32.500	NA	
163	2:00	54	48.1372	152	35.6671	4276.17	6070	245.20	5.40	12.80 N	1.50	981542	8.68	32.520	NA	
163	2:30	54	47.1704	152	39.4956	4187.68	6082	262.60	5.40	14.20 N	1.50	981537	8.70	32.530	NA	
163	3:00	54	48.9174	152	42.6792	3916.59	7011	334.10	5.30	14.20 N	1.00	981541	8.66	32.510	NA	
163	3:30	54	51.2883	152	44.6135	3578.39	7024	334.70	5.40	15.40 N	1.00	981555	8.73	32.490	NA	
163	4:00	54	53.5875	152	46.4972	4111.62	7035	334.20	5.50	12.70 N	1.00	981546	8.73	32.470	NA	
163	4:30	54	56.2961	152	48.7129	4178.9	7049	225.40	5.70	14.00 N	1.00	981537	8.65	32.470	NA	
163	5:00	54	58.8082	152	50.7767	4273.09	7062	335.50	5.50	17.30 N	1.00	981532	8.64	32.460	N/A	
163	5:30	55	1.3285	152	52.8487	4329.21	7075	334.50	5.60	15.40 N	1.00	981530	8.50	32.460	N/A	
163	6:00	55	3.8622	152	54.9403	4421.79	7088	335.10	5.80	14.90 NE	1.00	981528	8.52	32.470	N/A	
163	6:30	55	6.4160	152	57.0476	4555.82	7101	334.50	5.70	13.90 NE	1.00	981521	8.45	32.460	N/A	
163	7:00	55	8.9177	152	59.1310	4681.17	7114	333.60	5.50	15.80 NE	1.00	981515	8.66	32.460	N/A	
163	7:30	55	11.4354	153	1.2264	4827.64	7127	335.20	5.50	16.10 NE	1.00	981508	8.63	32.460	N/A	
163	8:00	55	13.8500	153	3.2300	4980.67	7139	334.40	5.60	16.00 NE	1.00	981501	8.71	32.460	N/A	
163	8:30	55	16.5700	153	5.5100	5171.19	7153	334.70	5.40	16.50 NE	1.00	981493	8.74	32.460	NA	
163	9:00	55	18.7200	153	7.2900	5272.05	7164	334.00	5.60	14.60 NE	1.00	981487	8.74	32.460	NA	
163	9:30	55	21.3900	153	9.5300	5401.13	7178	335.40	5.70	17.20 NE	1.00	981479	8.70	32.460	NA	
163																

164	7:30	55	37.4791	153	59.3600	1800.77	9177	153.90	5.60	4.90 SE	1.00	981569	9.01	32.510	N/A
164	8:00	55	34.9672	153	57.1828	2141.42	9190	153.80	5.60	7.40 S	1.00	981548	9.08	32.490	N/A
164	8:40	55	31.5500	153	54.2300	3851.33	9208	153.50	5.60	6.70 E	0.50	981496	9.25	32.530	NA
164	9:00	55	30.0500	153	52.9200	3910.7	9215	153.30	5.50	7.30 E	0.50	981487	9.10	32.520	NA
164	9:30	55	27.5400	153	50.7500	3718.94	9228	153.80	5.20	8.30 SE	0.50	981479	9.08	32.520	NA
164	10:00	55	25.3900	153	48.8900	4025.74	9239	153.90	5.50	9.80 SE	0.50	981470	9.38	32.480	NA
164	10:30	55	22.9200	153	46.7700	4361.31	9252	154.30	5.30	9.50 SE	0.50	981456	9.59	32.470	NA
164	11:00	55	20.5700	153	44.7500	4917.3	9264	153.50	5.20	10.50 SE	0.50	981448	9.60	32.470	NA
164	11:30	55	18.3400	153	42.8400	5291.87	9276	153.90	4.90	10.20 SE	0.50	981438	9.18	32.470	NA
164	12:00	55	16.0500	153	40.8800	5472.73	9288	152.90	5.10	9.10 SE	0.50	981435	9.43	32.460	NA
164	12:30	55	13.6516	153	38.8443	5435.32	9300	154.20	5.00	9.40 SE	0.50	981437	9.23	32.460	NA
164	13:00	55	11.2027	153	36.7414	5355.23	9313	153.70	4.90	8.10 SW	0.50	981442	8.91	32.470	NA
164	13:32	55	9.1976	153	35.0327	5212.52	9323	154.00	5.10	9.30 S	0.50	981448	9.08	32.470	NA
164	14:00	55	6.7090	153	32.9786	4960.9	9336	154.40	5.20	9.70 S	0.50	981459	8.85	32.460	NA
164	14:30	55	4.5371	153	31.0745	4750.31	9347	154.30	5.10	10.00 S	0.50	981472	8.98	32.470	NA
164	15:00	55	2.3075	153	29.2060	4658.38	9359	154.20	5.10	11.50 S	0.50	981483	9.38	32.470	NA
164	15:30	54	55.9008	153	27.1511	4520.19	9371	154.00	5.20	14.00 S	0.50	981492	9.22	32.470	NA
164	16:00	54	57.6391	153	25.2855	4510.97	9383	154.20	5.20	11.30 S	0.50	981496	9.32	32.470	NAH
164	16:30	54	55.3505	153	23.3653	4389.75	9394	154.30	5.40	11.40 S	0.50	981501	9.33	32.470	NA
164	17:00	54	52.9909	153	21.3952	4289.05	9406	154.70	5.20	12.70 S	0.50	981511	9.15	32.480	N/A
164	17:30	54	50.7431	153	19.5145	3841.01	9481	154.20	5.00	12.50 SE	0.50	981522	9.29	32.480	N/A
164	18:00	54	48.4144	153	17.5767	3805.81	9430	154.50	4.90	13.60 SE	0.50	981526	9.33	32.460	N/A
164	18:30	54	46.2666	153	15.7897	4108.52	9441	154.20	4.80	16.60 SE	0.50	981515	9.34	32.450	N/A
164	19:00	54	44.0671	153	13.9637	4498.62	9452	154.70	4.70	19.30 SE	0.50	981497	9.21	32.460	N/A
164	19:30	54	41.9419	153	12.2006	4401.05	9463	153.90	4.70	17.90 SE	0.50	981488	9.39	32.460	N/A
164	20:00	54	39.8734	153	10.6006	4374.78	9474	171.30	4.50	18.00 SE	0.50	981491	9.36	32.460	N/A
164	20:30	54	38.0800	153	13.1800	4343.19	10010	243.60	5.30	16.50 SE	0.50	981519	9.37	32.450	NA
164	21:00	54	36.9700	153	17.0000	4323.02	10022	243.20	5.10	17.20 SE	0.50	981520	9.37	32.460	NA
164	22:00	54	34.7100	153	24.8800	4305.39	10045	243.80	5.20	18.30 SE	0.50	981520	9.25	32.480	NA
164	22:32	54	33.3350	153	29.6423	4325.28	10060	243.10	5.40	19.80 SE	0.50	981519	9.06	32.510	NA
164	23:03	54	32.1400	153	33.7300	4330.22	10072	243.90	5.40	23.40 SE	0.50	981519	9.08	32.510	NA
164	23:30	54	31.3000	153	37.3700	4339.33	10082	273.70	5.70	21.60 SE	0.50	981522	9.03	32.530	NA
165	0:00	54	33.4200	153	40.3800	4265.09	11013	334.20	6.00	22.10 E	0.50	981509	8.89	32.540	NA
165	0:30	54	36.2592	153	42.7607	4417.06	11028	334.70	5.90	24.00 SE	0.50	981505	8.95	32.540	NA
165	1:00	54	38.9331	153	45.0114	4447.45	11042	334.40	6.10	23.80 E	0.50	981505	8.92	32.530	NA
165	1:30	54	41.5429	153	47.2155	4507.22	11055	334.40	6.00	24.10 E	0.50	981506	8.92	32.530	NA
165	2:00	54	44.3540	153	49.5823	4578.57	11070	333.70	6.00	23.90 E	0.50	981508	8.97	32.530	NA
165	2:30	54	46.8788	153	51.7235	4587.96	11083	333.60	6.00	28.90 E	0.50	981511	8.72	32.530	NA
165	3:00	54	49.4490	153	53.9406	4469.5	11096	334.20	5.80	26.60 SE	0.50	981512	8.85	32.540	NA
165	3:30	54	52.1043	153	56.1666	4571.45	11111	333.40	5.70	26.70 E	0.50	981507	8.80	32.520	NA
165	4:00	54	54.3722	153	58.0913	4729.5	11121	333.10	5.50	26.20 E	0.50	981501	9.13	32.500	NA
165	4:30	54	57.1398	154	0.4830	5047.87	11136	334.80	5.80	23.80 E	0.50	981489	9.00	32.540	NA
165	5:00	54	59.6051	154	2.6008	4630.9	11149	334.00	5.80	23.10 E	0.50	981479	9.06	32.540	NA
165	5:30	55	2.2767	154	4.8010	5036.69	11163	333.70	5.90	25.10 E	0.50	981464	8.77	32.560	NA
165	6:00	55	4.7884	154	7.0618	5519.35	11175	332.70	5.70	25.10 E	1.00	981452	8.46	32.580	N/A
165	6:30	55	7.3638	154	9.2812	5431.32	11189	333.60	5.90	25.70 E	1.00	981450	8.48	32.580	N/A
165	7:00	55	9.9486	154	11.5204	5173.72	11202	333.00	6.00	25.50 E	1.00	981455	8.52	32.570	N/A
165	7:30	55	12.6395	154	13.8491	4497.89	11216	333.40	5.80	26.50 E	1.00	981468	8.49	32.570	N/A
165	8:00	55	15.1300	154	16.0200	4060.96	11229	333.60	5.80	26.50 E	1.00	981484	8.54	32.580	N/A
165	8:30	55	17.8200	154	18.3500	3595.93	11243	332.70	5.80	29.80 SE	1.00	981509	8.61	32.580	N/A
165	9:00	55	20.3	154	20.5200	3057.93	11256	332.30	5.50	25.70 E	1.00	981534	8.71	32.570	N/A
165	9:30	55	23.0500	154	22.9300	2101.8	11270	333.60	5.60	24.20 E	1.00	981574	8.90	32.510	N/A
165	10:05	55	25.6400	154	25.2000	1474.88	11283	333.80	5.30	24.00 E	1.00	981608	8.85	32.500	N/A
165	11:03	55	30.1300	154	29.1700	813.95	11307	332.70	5.30	24.60 E	1.00	981635	8.81	32.500	N/A
165	11:30	55	32.22	154	31.0200	895.26	11318	333.80	5.50	23.80 E	1.00	981632	8.84	32.460	N/A
165	12:00	55	34.6900	154	33.2000	999.53	11330	332.20	5.60	24.20 E	1.00	981626	8.95	32.470	N/A
165	12:38	55	38.0682	154	36.2102	974.38	11348	334.40	5.50	27.60 E	1.00	981623	9.23	32.420	N/A
165	13:00	55	39.8360	154	37.7799	942.32	11357	332.90	5.70	24.20 E	1.00	981622	9.19	32.420	N/A
165	13:30	55	42.1941	154	39.8880	919.56	11369	333.40	5.50	25.20 E	1.00	981617	9.18	32.440	N/A
165	14:00	55	44.6969	154	42.1284	909.03	11382	333.50	5.40	27.60 E	1.00	981614	9.23	32.450	N/A
165	14:30	55	47.1473	154	44.3235	925.6	11395	332.80	5.60	26.10 E	1.00	981612	9.22	32.460	N/A
165	15:00	55	49.6054	154	46.5474	961.14	11408	333.80	5.40	30.30 E	1.00	981611	9.14	32.470	N/A
165	15:30	55	51.8898	154	48.6109	1483.2	11420	332.70	5.40	30.10 E	1.00	981616	9.18	32.460	N/A
165	16:00	55	54.2300	154	50.7105	555.2	11432	334.60	5.80	28.50 E	1.00	981634	9.19	32.460	N/A
165	16:30	55	56.9959	154	53.2171	129.58	11446	333.10	6.00	30.90 E	2.50	981650	9.13	32.430	N/A
165	17:00	55	59.7469	154	55.7086	150.33	11461	332.50	6.00	36.70 E	2.50	981655	9.10	32.440	N/A
165	17:30	56	2.4870	154	58.2171	99.9	11475	331.20	6.40	32.30 E	2.50	981642	8.85	32.440	N/A
165	18:00	56	5.3661	155	0.8244	60.03	11490	333.30	6.80	34.10 E	2.50	981636	8.52	32.450	N/A
165	18:30	56	8.4875	155	3.6890	52.56	11506	333.30	6.80	32.30 E	2.50	981622	8.22	32.450	N/A
165	19:00	56	11.6165	155	6.5491	26.61	11523	333.80	7.10	35.20 E	2.50	981612	8.37	32.400	N/A
165	19:30	56	14.7472	155	9.4329	27.29	11539	333.90	6.80	35.00 E	2.50	981601	8.52	32.290	N/A
165	20:00	56	17.5600	155	12.0300	36	11553	333.80	6.20	34.40 E	2.50	981597	8.83	32.230	N/A
165	20:30	56	20.2800	155	14.5600	42.45	11568	332.90	6.00	32.20 E	2.50	981591	8.97	32.180	NA
165	21:00	56	22.8300	155	16.9100	44.63	11581	333.90	5.90	34.20 E	3.50	981588	8.85	32.220	NA
165	21:30	56	25.4500	155	19.3700	52.74	11595	334.40	5.70	35.00 E	3.50	981588	8.57	32.320	NA
165	22:00	56	28.2900	155	22.0200	55.74	11610	332.40	5.50	33.00 E	3.50	981594	8.37	32.440	NA
165	22:30	56	30.3100	155	23.9100	58.91	11620	333.60	5.50	29.40 E	3.50	981591	8.24	32.330	NA
165	23:00	56	32.6400	155	26.0100	73.87	11632	332.70	5.						

166	19:30	55	17.7747	154	54.4484	2050.04	13402	153.00	5.60	14.10	SE	2.00	981569	8.99	32.490	N/A	
166	20:00	55	15.2600	154	52.2100	2457.25	13415	153.80	5.70	14.00	S	2.00	981554	8.87	32.500	N/A	
166	20:30	55	12.6700	154	49.9000	2860.53	13429	152.50	5.70	14.00	SE	2.00	981532	8.58	32.560	N/A	
166	21:00	55	10.2700	154	47.7800	3427.56	13441	154.20	5.20	14.40	SE	2.00	981509	8.67	32.560	N/A	
166	21:43	55	6.7600	154	44.6800	3652.06	13459	152.90	5.40	14.90	SE	2.00	981487	8.67	32.580	N/A	
166	22:00	55	5.4800	154	43.5500	4068.96	13466	154.60	5.30	14.00	SE	2.00	981475	8.71	32.580	NA	
166	22:30	55	3.1800	154	41.5200	4325.09	13478	152.90	5.20	14.10	SE	2.00	981455	8.75	32.570	NA	
166	23:00	55	0.9100	154	39.5300	5296.52	13490	153.00	5.50	15.50	SE	2.00	981435	8.84	32.580	N/A	
166	23:30	54	58.3800	154	37.3000	5545.3	13503	152.40	5.30	13.90	SE	2.00	981424	9.02	32.550	NA	
167	0:00	54	55.9900	154	35.2100	5523.9	13515	154.50	5.50	14.70	SE	2.00	981426	8.84	32.570	NA	
167	0:30	54	53.6498	154	33.1711	5509.85	13527	153.40	5.30	14.00	SE	1.50	981427	8.83	32.580	NA	
167	1:00	54	54.3121	154	13.3121	5344.75	13540	153.10	5.00	13.50	SE	1.50	981533	8.80	32.580	NA	
167	1:30	54	45.5514	154	25.2111	5222.2	13550	153.50	5.30	13.30	SE	1.50	981539	8.79	32.580	NA	
167	2:00	54	46.7975	154	27.2103	5167.45	13563	152.00	5.10	13.20	SE	1.50	981442	8.83	32.580	NA	
167	2:30	54	44.3704	154	25.1156	5061.93	13576	154.00	5.30	14.30	E	1.50	981444	8.82	32.570	NA	
167	3:00	54	41.8976	154	22.9689	4993.93	13588	153.60	5.40	14.40	E	1.50	981447	8.69	32.550	NA	
167	3:30	54	39.7129	154	21.1027	4871.33	13600	153.00	5.40	17.60	E	1.50	981447	9.11	32.510	NA	
167	4:00	54	37.2632	154	18.9953	4785.93	13612	152.50	5.50	17.30	E	1.50	981447	8.98	32.520	NA	
167	4:30	54	34.6509	154	16.7533	4723	13626	153.40	5.50	18.80	E	1.50	981440	8.89	32.540	NA	
167	5:00	54	32.1184	154	14.5899	4694	13639	153.60	5.60	19.10	E	1.50	981452	8.76	32.540	NA	
167	5:40	54	28.9894	154	11.9198	4662	13655	153.00	5.50	17.60	E	1.50	981460	8.58	32.580	NA	10 min late
167	6:00	54	27.3856	154	10.5538	4650	13663	153.20	5.40	16.70	E	1.50	981458	8.59	32.570	NA	
167	6:30	54	24.9602	154	8.4934	4606	13676	153.10	5.20	16.90	E	1.50	981457	8.66	32.570	NA	
167	7:00	54	22.8224	154	6.6894	4587	13687	154.80	5.50	17.30	E	1.50	981456	8.71	32.570	NA	
167	7:30	54	20.1131	154	4.4644	4568	13689	154.30	5.40	15.60	E	1.50	981454	8.72	32.570	NA	
167	8:00	54	18.3300	154	2.9700	4540.62	N/A	153.00	5.10	15.30	SE	1.50	981452	8.68	32.570	N/A	
167	8:30	54	16.1800	154	1.0500	4591.06	N/A	152.50	5.00	18.00	E	1.50	981450	8.65	32.560	N/A	
167	9:00	54	14.2000	154	59.4000	4574.58	N/A	154.90	4.10	18.40	E	1.50	981450	8.69	32.560	N/A	
167	9:30	54	12.6000	154	58.2600	4564.91	N/A	159.40	3.10	19.90	E	1.50	981452	8.68	32.560	N/A	
167	11:30	54	7.4900	153	54.6000	4574.73	NA	155.10	3.00	15.80	E	1.50	981445	8.64	32.560	NA	
167	12:00	54	6.0900	153	53.5900	4571.54	NA	149.80	2.80	17.30	E	1.50	981444	8.62	32.560	NA	
167	12:30	54	6.6503	153	51.9733	4580.61	NA	352.20	3.10	16.30	SE	1.50	981447	8.66	32.560	NA	
167	13:00	54	8.1370	153	53.2402	4579.59	NA	330.10	3.10	19.10	E	1.50	981458	8.63	32.560	NA	
167	13:30	54	9.7870	152	54.7166	4565.11	NA	333.70	2.90	11.90	E	1.50	981460	8.64	32.560	NA	
167	14:00	54	10.7373	152	55.5369	4555.9	NA	333.30	3.10	16.00	E	1.50	981462	8.67	32.560	NA	
167	14:30	54	12.1437	153	56.6760	4565.6	NA	335.10	2.90	15.20	E	1.50	981463	8.69	32.560	NA	
167	15:00	54	13.7376	153	57.8529	4561.14	NA	336.90	3.80	14.90	E	1.50	981466	8.67	32.560	NA	
167	15:30	54	15.3722	153	59.0421	4578.29	NA	337.60	4.00	12.60	E	1.50	981562	8.68	32.560	NA	
167	16:00	54	17.8115	154	0.7989	4522.63	NA	335.20	5.50	16.00	E	1.50	981469	8.64	32.560	NA	
167	16:30	54	20.2179	154	3.7365	4550.6	N/A	335.10	5.40	17.30	E	1.50	981472	8.63	32.560		51978.000
167	17:00	54	22.5812	154	4.7963	4581.99	N/A	333.50	2.00	14.70	NE	1.50	981476	8.63	32.560		52022.000
167	17:30	54	22.1990	154	8.4413	4592		244.20	5.40	16.20	E	1.50	981479	8.69	32.570		52039.000 Line: OT07
167	18:00	54	20.9947	154	12.6124	4641	14018	243.10	5.50	14.00	E	1.50	981477	8.54	32.580		51997.000
167	18:30	54	19.7900	154	16.7496	4649	14031	243.30	5.40	13.60	E	1.50	981473	8.53	32.580		51997.000
167	19:00	54	18.6225	154	20.7737	4657.61	14043	244.70	5.40	15.00	E	1.50	981467	8.51	32.580		52018.000
167	19:30	54	17.4938	154	24.6523	4687.34	14055	244.20	5.50	14.00	NE	1.50	981462	8.56	32.570		51974.000
167	20:00	54	16.1702	154	29.1754	4725.4	14068	244.00	5.30	14.00	NE	1.50	981456	8.55	32.570		51971.000
167	20:30	54	14.9944	154	33.3460	4734.34	14081	259.00	5.60	12.60	NE	1.00	981454	8.62	32.560		52041.000
167	21:00	54	16.4200	154	36.4600	4772.82	15010	333.80	5.10	13.60	NE	1.00	981442	8.61	32.550		52009.000
167	22:04	54	21.7600	154	41.0600	4897.03	15038	332.90	5.60	11.10	NE	1.00	981442	8.65	32.570		51881.000 Line: O808
167	22:30	54	23.9259	154	45.9395	4970.28	15049	333.10	5.40	11.70	NE	1.00	981440	8.63	32.580		51846.000
167	23:00	54	26.0300	154	44.7400	5015.18	15060	333.80	5.40	11.10	NE	1.00	981436	8.64	32.580		51840.000
167	23:30	54	28.6400	154	47.0200	5086.54	15073	332.90	5.50	13.30	NE	1.00	981434	8.59	32.580		51867.000
168	0:00	54	31.1901	154	49.2503	5170.52	15087	333.20	5.50	12.00	NE	1.00	981434	8.63	32.580		51894.000
168	0:30	54	33.4491	154	51.2140	5256.52	15099	333.40	5.50	11.30	NE	1.00	981427	8.64	32.570		51900.000
168	1:00	54	35.9187	154	53.3799	5364.11	15111	333.00	5.40	13.10	NE	1.00	981422	8.64	32.570		51920.000
168	1:30	54	39.2760	154	55.4469	5459.44	15124	332.90	5.40	12.90	NE	1.00	981419	8.71	32.570		51954.000
168	2:00	54	40.7822	154	57.6641	5544.76	15137	333.00	5.30	15.30	NE	1.00	981519	8.73	32.560		51994.000
168	2:30	54	42.9718	154	59.5830	5555.5	15149	333.20	5.60	16.20	NE	1.00	981412	8.72	32.560		51972.000
168	3:00	54	45.4771	155	1.7969	5573.57	15161	331.80	5.50	16.50	NE	1.00	981409	9.05	32.520		51952.000
168	3:30	54	47.9398	155	3.9773	5603	15174	332.50	5.40	14.50	NE	1.00	981413	9.04	32.500		51958.000
168	4:00	54	50.1926	155	6.0553	5208.43	15186	332.80	5.40	13.40	NE	1.00	981425	8.98	32.520		51978.000
168	4:30	54	52.7717	155	8.2570	4718.92	15199	333.10	5.30	13.40	NE	1.00	981443	8.95	32.530		52008.000
168	5:00	54	55.2380	155	10.4553	3794.04	15212	333.00	5.50	13.90	NE	1.00	981469	8.98	32.550		52028.000
168	5:30	54	57.6503	155	12.6068	3585.87	15225	332.80	5.40	13.30	N	1.00	981488	8.88	32.550		52050.000
168	6:00	55	0.0648	155	14.7690	3253.66	15237	332.80	5.30	13.40	N	1.00	981505	8.88	32.550		52119.000
168	6:30	55	2.5775	155	17.0221	3087.71	15250	332.00	5.40	14.70	NE	1.00	981519	8.78	32.560		52188.000
168	7:00	55	5.0382	155	19.2546	2261.89	15263	332.50	5.40	17.80	N	1.00	981541	8.89	32.540		52266.000
168	7:30	55	7.2288	155	21.2146	2175.79	15272	332.90	5.40	17.20	NE	1.00	981546	8.77	32.540		52284.000
168	8:00	55	9.4727	155	23.2430	2224.18	15286	333.90	4.10	17.60	NE	1.00	981542	8.91	32.490		52253.000
168	8:30	55	11.6300	155	25.2000	2236.36	15298	332.30	5.40	20.00	N	1.00	981542	9.18	32.470		52224.000
168	9:00	55	14.0000	155	27.3400	2118.53	15310	333.60	5.50	19.80	N	1.00	981542	9.07	32.440		52193.000
168	9:30	55	1														

169	9:00	55	43.3800	156	31.2900	236.39	17178	151.70	4.50	14.70 W	1.50	981579	9.20	32.350	52493.00
169	9:30	55	41.3800	156	29.4000	242.15	17189	150.80	4.20	13.90 W	1.50	981582	8.99	32.360	52449.00
169	10:00	55	39.6500	156	27.7500	247.90	17198	152.30	4.10	14.30 W	1.50	981585	9.04	32.380	52443.00
169	10:30	55	37.5100	156	25.7100	262.82	17209	151.20	4.20	12.70 W	1.50	981587	9.29	32.370	52421.00
169	11:00	55	35.7700	156	24.0500	267.97	17219	151.90	4.50	11.20 W	1.50	981587	9.24	32.420	52405.00
169	11:30	55	33.7600	156	22.1600	252.22	17229	151.40	4.70	11.50 W	1.50	981588	9.20	32.440	52388.00
169	12:00	55	31.5100	156	20.0300	223.12	17241	151.90	5.30	10.80 W	1.50	981587	9.35	32.440	52358.00
169	12:30	55	29.2020	156	17.8665	205.31	17253	151.30	5.70	10.90 W	1.50	981590	9.24	32.440	52333.00
169	13:00	55	26.6023	156	15.4323	210.31	17267	151.60	5.70	10.30 W	1.50	981590	9.05	32.440	52311.00
169	13:30	55	24.1370	156	13.1142	195.22	17280	152.50	5.70	13.70 W	1.50	981591	9.25	32.440	52273.00
169	14:00	55	21.7239	156	10.8649	207.20	17292	152.30	5.40	10.90 W	1.50	981593	9.26	32.440	52264.00
169	14:30	55	19.3263	156	8.2990	257.28	17305	152.20	5.20	10.90 W	1.50	981590	9.26	32.440	52236.00
169	15:00	55	16.8242	156	6.2945	546.04	17318	152.10	5.80	10.90 W	1.50	981576	9.26	32.440	52203.00
169	15:30	55	14.4120	156	4.0525	977.40	17331	152.00	5.60	11.60 W	1.50	981559	9.00	32.470	52172.00
169	16:00	55	11.9047	155	1.7430	1309.17	17344	152.00	5.40	12.80 W	1.50	981544	9.16	32.440	52125.00
169	16:30	55	9.6523	155	59.6452	1486.74	17356	152.30	5.40	13.10 W	0.50	981537	9.09	32.450	52083.00
169	17:00	55	7.1654	155	57.3566	1667.00	17369	152.30	5.80	15.40 W	0.50	981532	9.03	32.460	52040.00
169	17:30	55	4.7821	155	55.1740	1856.16	17381	153.40	5.40	17.20 W	0.50	981529	8.93	32.480	52020.00
169	18:00	55	2.4073	155	52.9986	1544.61	17394	151.10	5.20	17.60 SW	0.50	981536	8.88	32.490	52038.00
169	18:30	54	59.9888	155	50.7810	2076.09	17406	152.00	5.30	16.70 W	0.50	981526	8.93	32.500	52059.00
169	19:00	54	57.5255	155	48.5251	2502.25	17419	151.10	5.10	15.80 W	0.50	981514	8.92	32.530	52066.00
169	19:30	54	55.2506	155	46.4508	2559.77	17431	152.70	5.30	18.00 SW	0.50	981508	9.07	32.510	52073.00
169	20:00	54	52.8400	155	44.2600	2883.64	17444	152.50	5.30	15.20 SW	0.50	981496	9.08	32.510	52097.00
169	20:30	54	50.3700	155	42.0300	3331.17	17457	142.30	5.40	15.70 SW	0.50	981475	8.98	32.510	52066.00
169	21:00	54	48.2500	155	40.1100	3817.19	17468	150.60	5.20	17.10 SW	0.50	981455	8.79	32.550	52041.00
169	22:05	54	42.7000	155	35.1000	4558.99	17497	151.50	5.40	17.70 W	0.50	981422	8.80	32.550	51940.00
169	22:43	54	39.6600	155	32.3600	5199.70	17513	152.20	5.30	16.50 W	0.50	981400	8.73	32.550	51869.00
169	23:00	54	38.4300	155	31.2700	5462.51	17519	152.40	5.40	16.70 W	0.50	981394	8.73	32.550	51852.00
169	23:30	54	35.9300	155	29.0200	5538.31	17532	151.20	5.30	17.40 W	0.50	981384	8.76	32.540	51843.00
170	0:00	54	33.5700	155	26.9100	5584.30	17545	151.90	5.20	17.50 W	0.50	981381	8.78	32.540	51865.00
170	0:30	54	31.2000	155	24.8100	5695.02	17557	153.80	5.40	19.30 W	0.50	981380	8.78	32.540	51908.00
170	1:00	54	28.5403	155	22.4396	5536.72	17571	152.90	5.50	20.30 W	0.50	981384	8.81	32.540	51973.00
170	1:30	54	26.4215	155	20.5610	5402.36	17582	154.10	5.50	19.80 W	0.54	981386	8.83	32.540	52022.00
170	2:00	54	23.7189	155	18.1745	5297.00	17596	153.10	5.50	19.40 W	0.50	981388	8.39	32.540	52066.00
170	2:30	54	21.5099	155	16.2196	5176.16	17608	153.60	5.60	20.40 W	0.50	981394	8.85	32.520	52079.00
170	3:00	54	19.1121	155	14.1066	5076.69	17620	152.60	5.40	20.50 W	0.50	981400	8.77	32.530	52118.00
170	3:30	54	16.8600	155	12.1400	5996.28	17632	153.50	5.20	16.70 W	0.50	981405	8.73	32.530	52039.00
170	4:00	54	14.8960	155	10.4054	4937.80	19642	152.70	5.30	17.40 W	0.50	981410	8.73	32.540	51966.00
170	4:30	54	11.8903	155	7.7761	4836.00	17658	152.80	5.40	14.40 w	0.50	981416	8.73	32.540	51980.00
170	5:00	54	9.5783	155	5.7603	4755.00	17670	153.00	5.40	14.60 W	0.50	981424	8.67	32.550	52007.00
170	5:30	54	7.1791	155	3.7813	4653.00	17682	168.20	5.40	18.30 W	0.50	981430	8.65	32.560	51999.00
170	6:00	54	5.5061	155	5.7879	4667.00	18009	241.40	5.40	17.30 w	0.50	981461	8.64	32.570	52030.00
170	6:37	54	3.9012	155	10.9759	4632.00	18025	243.00	5.30	17.90 W	0.50	981459	8.64	32.590	51998.00
170	7:00	54	2.9620	155	13.9949	4644.00	18034	241.80	5.50	17.60 W	0.50	981457	8.60	32.620	51852.00
170	7:30	54	1.6929	155	18.0887	4631.68	18047	241.70	5.60	18.80 W	0.50	981454	8.56	32.610	51716.00
170	8:00	54	0.4171	155	22.1606	4646.00	18059	240.60	5.40	20.30 W	0.50	981453	8.51	32.620	51621.00
170	8:30	53	59.2600	155	25.8100	4600.15	18070	241.10	5.00	17.50 W	1.00	981452	8.53	32.620	51525.00
170	9:00	53	58.2400	155	29.5400	4620.35	18082	266.20	5.10	16.90 W	1.00	981451	8.53	32.630	51460.00
170	9:35	54	0.5000	155	33.0400	4684.94	19014	331.80	5.20	19.10 W	1.00	981437	8.57	32.620	51464.00
170	10:00	54	2.3000	155	34.6400	4743.44	19024	331.70	5.30	17.10 W	1.00	981435	8.59	32.620	51509.00
170	10:30	54	4.6600	155	36.7300	4795.61	19036	331.80	5.30	16.30 W	1.00	981432	8.53	32.610	51561.00
170	11:00	54	7.1700	155	38.9700	4852.30	19049	331.50	5.50	17.50 W	1.00	981431	8.47	32.620	51604.00
170	11:30	54	9.5248	155	41.0671	4955.56	19062	332.50	5.40	17.40 W	1.00	981427	8.53	32.610	51686.00
170	12:00	54	11.7642	155	43.0519	5078.00	19073	332.10	5.40	18.40 W	1.00	981423	8.56	32.590	51771.00
170	12:30	54	14.3985	155	45.4162	5184.00	19087	331.90	5.50	13.00 W	1.00	981417	8.58	32.590	51787.00
170	13:00	54	16.6113	155	47.3971	5342.00	19099	332.10	5.50	15.40 W	1.00	981407	8.59	32.590	51796.00
170	13:30	54	19.0650	155	49.5963	5506.00	19111	332.60	5.40	17.20 W	1.00	981398	8.57	32.590	51830.00
170	14:00	54	21.2951	155	51.6065	5660.00	19124	331.90	5.40	15.50 W	1.00	981395	8.64	32.590	51886.00
170	14:30	54	23.7949	155	53.8613	5749.00	19136	332.50	5.30	17.10 W	1.00	981388	8.66	32.590	51933.00
170	15:00	54	26.0199	155	55.8759	5651.00	19148	332.10	5.10	12.90 W	1.00	981386	8.68	32.590	51950.00
170	15:30	54	28.0551	155	57.7160	5607.00	19160	332.40	5.10	14.90 W	1.00	981387	8.69	32.580	51988.00
170	16:00	54	30.5896	156	0.0231	5430.00	19172	332.30	5.60	12.90 W	1.00	981396	8.73	32.560	52115.00
170	16:30	54	33.2740	156	2.4466	4981.00	19186	332.50	5.00	12.90 W	1.00	981410	8.75	32.560	52196.00
170	17:00	54	35.6560	156	4.6203	4069.00	19198	331.90	5.10	10.00 SW	0.50	981430	8.65	32.580	52175.00
170	17:30	54	38.0953	156	6.8453	3994.00	19211	332.20	5.10	9.60 SW	0.50	981445	8.72	32.560	52135.00
170	18:00	54	40.5504	156	9.0878	3860.00	19224	332.70	4.90	7.90 SW	0.50	981450	8.71	32.570	52075.00
170	18:30	54	42.8678	156	11.2166	3744.00	19236	332.00	5.20	11.80 W	1.00	981459	8.75	32.570	52031.00
170	19:00	54	45.7155	156	13.8423	3754.00	19251	331.70	5.60	10.60 W	1.00	981473	9.05	32.530	51983.00
170	19:30	54	47.7550	156	15.7220	3190.00	19262	331.90	5.40	9.10 SW	1.00	981494	9.26	32.500	51954.00
170	20:00	54	49.9500	156	17.7600	2412.88	19274	331.50	5.30	8.30 SW	1.00	981516	9.30	32.500	51932.00
170	20:30	54	52.0800	156	19.7300	2297.53	19285	332.20	4.90	8.40 SW	1.00	981526	9.35	32.510	51921.00
170	21:00	54	54.0600	156	21.5800	1597.90	19295	332.50	4.50	9.30 SW	1.00	981541	9.18	32.520	51907.00
170	21:30	54	56.1100	156	23.4800	1307.41	19306	332.60	4.70	7.50 W	1.00	981553	9.43	32.460	51912.00
170	22:02	54	58.5700	156	25.7700	1412.17	19319	332.30	5.20	7.40 SW	1.00	981549	9.29	32.460	51935.00

171	20:30	55	38.3800	157	40.7900	130.88	21074	150.50	5.30	20.20	NE	0.50	981542	10.31	31.980	52436.00
171	21:00	55	36.1800	157	38.6200	105.24	21086	151.40	5.00	17.10	NW	0.50	981544	10.39	31.980	52460.00
171	21:30	55	33.9900	157	36.4600	101.31	21097	151.30	4.90	25.20	N	1.00	981543	9.86	31.970	52456.00
171	22:13	55	31.0300	157	33.5500	99.24	21113	151.70	4.60	19.70	NE	1.00	981545	9.91	31.990	52408.00
171	22:30	55	29.8400	157	32.3800	96.28	21119	151.00	4.50	18.60	NE	1.00	981543	9.88	31.950	52391.00
171	23:00	55	27.9200	157	30.4900	89.00	21130	150.00	4.90	20.30	NE	1.00	981538	9.39	32.000	52347.00
171	23:30	55	25.8700	157	28.4800	89.11	21141	151.50	4.70	20.90	NE	1.00	981535	9.74	32.310	52307.00
172	0:00	55	23.9000	157	26.5600	91.11	21151	150.80	4.50	18.20	NE	1.00	981537	9.86	32.380	52264.00
172	0:30	55	21.9702	157	24.6847	90.46	21161	151.40	4.20	17.90	NE	1.00	981544	8.44	31.940	52229.00
172	1:00	55	20.1874	157	22.9490	92.56	21171	151.70	4.40	17.10	NE	1.00	981551	9.06	32.100	52208.00
172	1:30	55	18.2469	157	21.0609	94.00	21182	151.10	4.90	20.70	NE	1.00	981558	9.42	32.260	52184.00
172	2:00	55	15.7078	157	18.3020	98.92	21194	151.00	4.90	18.10	NE	1.00	981560	9.45	32.420	52160.00
172	2:30	55	13.8063	157	16.7633	102.55	21505	150.00	5.20	21.60	NE	1.00	981559	9.08	32.440	52142.00
172	3:00	55	11.5335	157	14.5755	110.44	21217	149.90	5.10	22.80	NE	1.50	981556	8.97	32.440	52118.00
172	3:30	55	8.9971	157	12.1349	127.22	21230	151.00	5.20	22.20	NE	1.50	981554	9.31	32.440	52081.00
172	4:00	55	7.0404	157	10.2528	146.00	21240	151.40	5.30	23.20	NE	1.50	981556	9.33	32.430	52068.00
172	4:30	55	4.5101	157	7.8198	219.99	21254	150.50	5.60	22.40	NE	1.50	981554	9.31	32.440	52032.00
172	5:15	55	0.7760	157	4.2664	687.49	21274	151.90	5.40	21.50	NE	1.50	981530	9.22	32.440	52005.00
172	5:30	54	59.6575	157	3.1934	789.24	21279	151.10	5.70	20.70	NE	1.50	981525	9.46	32.440	51973.00
172	6:00	54	57.2291	157	0.8977	867.43	21292	151.30	5.60	22.10	NE	1.50	981517	9.44	32.440	51945.00
172	6:30	54	54.8748	156	58.6687	984.95	21305	149.70	5.20	25.90	NE	1.50	981520	9.33	32.450	51917.00
172	7:00	54	52.3069	156	56.2255	1005.32		151.80	5.50	23.90	NE	1.50	981527	9.24	32.450	N/A
172	7:30	54	50.1757	156	54.2027	1111.54	21330	151.50	5.50	26.70	NE	1.50	981529	9.27	32.460	N/A
172	8:00	54	47.9100	156	52.0700	1328.70	21341	153.80	5.30	27.90	N	2.00	981524	9.05	32.490	N/A
172	8:30	54	45.7800	156	50.0700	1658.61	NA	150.40	4.80	28.00	N	2.00	981510	9.16	32.500	NA
172	9:00	54	43.8100	156	48.2300	2045.67	NA	153.60	4.70	26.70	NE	2.00	981494	9.08	32.500	NA
172	9:30	54	41.7500	156	46.2800	2651.47	NA	147.90	4.50	27.30	NE	2.50	981472	9.01	32.510	NA
172	10:00	54	40.0200	156	44.6800	2640.64	NA	155.40	3.50	26.60	N	2.50	981469	8.84	32.540	NA
172	10:30	54	38.2300	156	42.9800	2604.64	NA	151.30	3.90	24.50	N	2.50	981454	8.71	32.550	NA
172	11:00	54	36.4700	156	41.3400	3186.84	NA	150.60	4.20	26.40	N	2.50	981431	8.65	32.560	NA
172	11:30	54	34.9500	156	39.9400	3924.84	NA	149.60	3.40	23.80	N	2.50	981417	8.70	32.560	NA
172	12:00	54	33.4100	156	38.5000	4233.32	NA	149.90	3.60	24.50	N	2.50	981400	8.68	32.580	NA
172	12:30	54	31.7762	156	36.9863	4698.11	NA	152.90	3.80	23.60	N	2.50	981392	8.72	32.580	NA
172	13:00	54	30.1170	156	35.4512	4765.33	NA	151.50	3.90	22.80	N	2.50	981384	8.70	32.590	NA
172	13:30	54	28.2498	156	33.8163	4860.00	NA	152.10	3.80	22.70	N	2.50	981383	8.66	32.600	NA
172	14:00	54	26.7720	156	32.3449	4753.86	NA	150.50	3.70	24.30	N	2.50	981380	8.70	32.610	NA
172	14:30	54	25.2256	156	30.9092	5037.04	NA	152.00	3.70	22.60	N	2.50	981373	8.67	32.620	NA
172	15:00	54	23.6290	156	23.4530	5444.23	NA	152.90	3.80	25.80	N	2.50	981366	8.63	32.620	NA
172	15:30	54	22.0219	156	27.9729	5567.78	21478	152.20	3.50	20.40	N	2.50	981360	8.63	32.610	NA
172	16:00	54	20.4734	156	26.5480	5683.84	21486	152.30	3.40	22.60	N	2.50	981357	8.63	32.610	NA
172	16:30	54	18.5054	156	24.7203	5811.53	21497	152.20	5.60	21.50	N	2.50	981354	8.65	32.620	51902.00
172	17:00	54	16.1397	156	22.5578	5726.00	21509	152.00	5.60	21.80	N	2.50	981354	8.68	32.620	51902.00
172	17:30	54	13.6771	156	20.3112	5645.54	21522	152.80	5.50	23.10	N	2.50	981358	8.69	32.620	51902.00
172	18:00	54	11.2723	156	18.1261	5469.66	21535	152.60	5.50	21.90	N	2.50	981364	8.69	32.620	51902.00
172	18:30	54	8.8683	156	15.9400	5329.10	21547	149.30	5.60	21.80	N	2.50	981370	8.66	32.620	51902.00 These values are all in red, I do not think th
172	19:00	54	6.5062	156	13.7994	5203.51	21560	151.50	5.50	21.40	N	2.50	981379	8.56	32.620	51902.00
172	19:30	54	3.9723	156	11.5100	5103.75	21573	152.30	5.40	20.40	NW	2.50	981386	8.62	32.620	51902.00
172	20:00	54	1.7291	156	9.6990	4995.37	21585	151.50	5.40	21.90	NW	2.50	981394	8.68	32.620	51902.00
172	20:30	53	19.2400	156	7.2300	4963.65	21598	153.00	5.40	18.70	NW	2.50	981398	8.56	32.620	N/A
172	21:00	53	57.0100	156	5.2200	4916.07	21609	152.30	5.50	20.10	NW	2.50	981404	8.60	32.620	N/A
172	22:04	53	51.7900	156	0.5300	4141.73	21637	152.10	5.20	20.20	NW	2.50	981429	8.64	32.620	N/A
172	22:32	53	49.6500	155	59.0500	3938.31	21648	183.80	4.90	24.10	NW	2.50	981443	8.69	32.620	N/A
172	23:00	53	47.9900	156	2.1700	4304.26	22012	242.90	5.10	23.20	nw	2.50	981462	8.75	32.630	N/A
172	23:30	53	46.8200	156	9.9000	4734.96	22024	242.40	5.10	23.40	nw	2.50	981451	8.76	32.630	N/A
173	0:00	53	45.8100	156	9.1000	4679.41	22034	242.20	5.20	24.30	NW	2.50	981445	8.66	32.630	N/A
173	0:30	53	44.6189	156	12.9530	4723.25	22046	24.30	5.20	24.80	NW	2.50	981538	8.73	32.630	N/A
173	1:00	53	43.3943	156	16.7168	4720.07	22058	241.80	5.00	22.50	NW	2.50	981433	8.83	32.630	N/A
173	1:30	53	42.1545	156	20.6733	4719.65	22070	240.50	5.20	18.00	NW	1.50	981430	8.68	32.630	N/A
173	2:00	53	41.0654	156	25.0386	4720.81	22083	274.30	5.40	11.80	NW	1.50	981431	8.73	32.640	N/A
173	2:30	53	42.7508	156	27.6600	4743.75	230110	331.40	5.30	12.20	W	1.50	981417	8.73	32.640	N/A
173	3:00	53	44.9667	156	29.7706	4766.93	23024	333.00	5.40	12.60	W	1.50	981417	8.82	32.630	N/A
173	3:30	53	47.6083	156	32.0674	4824.49	23037	331.90	5.40	13.70	W	1.50	981517	8.70	32.630	N/A
173	4:00	53	49.8942	156	34.1503	4875.77	23049	331.80	5.60	12.70	W	1.50	981414	8.65	32.630	N/A
173	4:30	53	52.3902	156	36.4107	4930.00	23062	331.80	5.50	12.90	W	1.00	981413	8.77	32.630	N/A
173	5:00	53	54.8009	156	38.6143	5041.00	23075	331.40	5.40	13.70	W	1.00	981408	8.73	32.620	N/A
173	5:30	53	57.1208	156	40.7319	5123.00	23087	331.90	5.60	13.00	W	1.00	981405	8.71	32.620	N/A
173	6:00	53	59.4703	156	42.8929	5204.00	23099	331.30	5.30	13.20	W	1.00	981491	8.79	32.620	N/A
173	6:30	54	1.9093	156	45.1355	5281.00	23112	331.70	5.30	13.50	W	1.00	981395	8.83	32.620	N/A
173	7:00	54	4.1403	156	47.1954	5392.00	23124	331.50	5.10	14.50	W	1.00	981389	8.83	32.620	N/A
173	7:30	54	6.7900	156	49.6528	5529.00	23138	331.00	5.30	16.20	W	1.00	981383	8.83	32.620	N/A
173	8:00	54	8.7200	156	51.4300	5702.13	23148	331.70	5.30	15.60	W	1.00	981376	8.89	32.620	N/A
173	8:30	54	10.9600	156	53.5100	5747.93	23160	331.50	5.40	13.50	W	1.00	981370	8.87	32.620	N/A
173	9:00	54	13.3500	156	55.7300	5761.72	23173	332.20	5.40	12.00	W	1.00	981368	8.81	32.610	N/A
173	9:30	54	15.8300	156	58.0400	5521.22	23186	331.60	5.60	11.40	W	1.00	981372	8.83	32.610	N/A
173	10:00	54	18.													