

Date	Star	Mag	Ph	El	Winnipeg				Edmonton				Vancouver						
					W 97.2,		N 49.9		W 113.4,		N 53.6		W 123.1,		N 49.2				
					U.T.	a	b	P	U.T.	a	b	P	U.T.	a	b	P			
y	m	d	No	h	m	m	m	o	h	m	m	m	o	h	m	m	m	o	
17 Jan 1	3064	5.9	DD	31															
17 Jan 6	192	5.1	DD	93	3	5.5	+1.3	-0.9	85	2	44.0	+1.2	+0.3	62	2	29.0	+1.4	+0.8	63
17 Jan 9	635	3.7	DD	136	8	43.4	+0.3	-1.2	83	8	31.1	+0.7	-1.1	81	8	29.1	+0.9	-1.4	97
17 Jan 10	806	5.0	DD	151						10	6.6	+0.0	-3.4	146					
17 Jan 18	1821	2.8	RD	108	6	6.0	+0.1	-0.5	331										
17 Feb 6	741	5.5	DD	117											6	47.2	+1.3	+1.1	38
17 Feb 7	878	5.5	DD	128						1	29.9	+1.5	-1.0	140					
17 Feb 18	2223	3.9	RD	94	8	21.4	+3.2	+8.3	212										
17 Mar 2	249	4.5	DD	44	1	22.3	+0.7	-0.8	71										
17 Mar 3	405	4.3	DD	59						5	2.6	+0.2	-1.4	88	5	7.4	+0.3	-1.9	104
17 Mar 5	677	4.8	DD	84	0	44.1	+1.3	+1.9	36										
17 Mar 5	699	5.8	DD	86						4	19.0	+0.8	-2.9	130					
17 Mar 8	1158	5.0	DD	126						6	18.9	+2.1	+2.6	32	5	55.9	+1.8	+0.6	63
17 Apr 1	635	3.7	DD	54	3	20.7	+0.3	-1.1	78	3	8.4	+0.7	-1.0	76	3	5.5	+1.0	-1.3	92
17 Apr 1	661	4.5	DD	56						5	56.7	-0.3	-1.9	116	6	9.9	-0.4	-2.8	139
17 Apr 1	669	3.8	DD	56											6	54.5	-0.1	-0.8	69
17 Apr 1	671	3.4	DD	56											6	54.8	-0.2	-1.2	89
17 Apr 2	806	5.0	DD	69	5	24.8	-0.5	-2.7	142	5	19.8	-0.2	-3.3	147					
17 Apr 15	2399	4.9	RD	134	9	41.6	+0.8	-2.9	351	9	23.3	+0.6	-1.1	341	9	18.3	+0.9	-0.2	319
17 Apr 28	692	0.9	DD	32	16	37.4	-0.1	+3.1	20										
17 Apr 28	692	0.9	RB	32	17	12.7	+1.4	-0.1	310										
17 May 2	1207	5.6	DD	77	2	31.6	+1.3	-0.7	75										
17 Jun 1	1547	3.8	DD	86	4	22.3	+0.9	-1.1	72	4	0.4	+1.2	-1.0	81	3	52.2	+1.4	-1.1	100
17 Jun 13	2981	5.1	RD	137											10	6.8	+1.6	+1.1	242
17 Jun 20	364	4.3	RD	52											10	28.5	-0.2	+1.8	231
17 Jun 22	692	0.9	DB	22	13	37.8	+0.4	+2.3	42	13	47.2	-0.4	+3.4	11	13	37.5	-0.6	+3.3	11
17 Jun 22	692	0.9	RD	22	14	32.3	+1.3	+0.5	287	14	12.6	+1.4	-0.4	320	14	1.6	+1.2	-0.3	320
17 Jul 1	1821	2.8	DD	91	2	9.5	+1.1	-1.7	133	1	46.1	+1.0	-1.3	143	1	45.6	+0.5	-2.4	168
17 Jul 1	1821	2.8	RB	91	3	22.2	+1.2	-1.5	278										
17 Aug 10	3421	4.9	RD	150	6	43.7	+1.5	+0.9	268										
17 Aug 16	704	4.7	RD	73	7	20.0	-1.3	+4.6	179	7	40.5	-0.5	+2.0	210					
17 Sep 3	2981	5.1	DD	144											5	38.3	+1.7	+0.3	81
17 Sep 10	364	4.3	RD	129	5	32.0	+0.5	+1.7	252	5	32.1	+0.2	+1.6	266					
17 Sep 11	508	4.1	RD	115	9	24.5	+1.3	+1.3	244	9	10.3	+1.0	+1.2	267	8	55.2	+0.9	+1.4	268
17 Sep 12	635	3.7	RD	103	5	7.4	+0.3	+0.3	317										
17 Sep 12	661	4.5	RD	102	7	57.4	+0.2	+2.8	208	8	2.8	+0.2	+2.0	232	7	53.3	+0.0	+1.9	232
17 Sep 12	669	3.8	RD	101	9	23.5	+1.1	+1.5	250	9	13.0	+0.8	+1.3	272	9	0.2	+0.6	+1.3	272
17 Sep 12	671	3.4	RD	101	9	19.8	+0.9	+2.1	230	9	14.1	+0.7	+1.7	252	9	1.2	+0.4	+1.7	252
17 Sep 12	677	4.8	RD	101	10	31.8	+1.5	+0.5	270	10	10.2	+1.4	+0.3	295	9	55.5	+1.2	+0.6	294
17 Sep 12	692	0.9	DB	100	12	21.4	+1.5	+0.6	64	12	5.1	+1.1	+1.9	43	11	46.3	+1.0	+2.0	48
17 Sep 12	692	0.9	RD	100	13	33.3	+1.3	-1.0	275	13	5.9	+1.5	-1.0	291	12	52.6	+1.7	-0.2	282
17 Sep 13	814	5.4	RD	88	9	2.2	+0.8	+1.5	262	8	56.4	+0.5	+1.2	284	8	47.2	+0.3	+1.1	283
17 Oct 9	635	3.7	RD	130	12	53.9	+1.3	+3.7	192	12	43.5	+1.1	+1.5	211	12	20.6	+0.9	+4.8	190
17 Oct 11	947	5.2	RD	104	9	56.3	+1.6	-0.5	299	9	27.2	+1.8	-2.1	331	9	17.6	+1.5	-0.9	323
17 Oct 13	1236	5.1	RD	78	8	37.0	+0.7	+0.4	306	8	27.0	+0.7	-0.7	335					
17 Oct 14	1375	5.4	RD	64	11	36.6	+1.2	+0.3	294	11	22.1	+0.8	+0.3	309	11	13.6	+0.6	+0.6	298
17 Oct 16	1609	4.6	RD	38						12	54.1	+0.6	+1.3	278	12	42.4	+0.4	+1.7	263
17 Oct 26	2734	5.2	DD	69	0	49.4	+0.6	+1.4	21										
17 Oct 27	2886	4.9	DD	81						3	46.7	+1.1	-1.3	92	3	39.4	+1.5	-1.0	91
17 Nov 6	692	0.9	DB	153	1	18.3	-0.4	+1.6	54										
17 Nov 6	692	0.9	RD	153	2	5.7	+0.1	+1.2	278	2	10.5	-0.1	+1.0	294					
17 Nov 11	1466	5.3	RD	81	12	12.6	+1.7	+0.7	264	11	52.6	+1.2	+1.2	268	11	34.3	+1.0	+2.1	250
17 Nov 11	1487	1.4	DB	80											16	39.5	+2.5	+1.2	52
17 Nov 11	1487	1.4	RD	79											17	14.3	-0.1	-3.9	354
17 Nov 24	2963	5.3	DD	61						2	54.5	+1.2	-2.0	112	2	49.1	+1.7	-1.8	111
17 Nov 25	3079	4.1	DD	71	1	25.1	+2.4	-2.9	130	0	47.8	+1.7	-0.5	102	0	30.7	+1.9	+0.1	101
17 Dec 3	692	0.9	DB	174						13	55.9	-0.2	-1.6	104	14	6.0	-0.3	-2.1	124
17 Dec 4	832	4.3	RD	168	12	6.1	+0.3	-1.2	264	11	53.0	+0.7	-1.1	264	11	47.8	+1.1	-0.4	246
17 Dec 6	1175	4.9	RD	139						14	3.8	+0.7	-1.2	262	13	57.7	+1.3	-0.2	241
17 Dec 8	1434	5.4	RD	113											11	56.4	+0.4	-5.7	358
17 Dec 15	2223	3.9	RD	29						15	26.7	+1.0	+0.3	303	15	14.3	+1.0	+0.9	283
17 Dec 22	3058	5.8	DD	41											2	37.8	+3.3	-7.1	148
17 Dec 29	405	4.3	DD	124	3	18.8	+1.0	+1.8	29										
17 Dec 30	692	0.9	DD	150	23	22.0	+0.1	+1.7	68	23	29.3	-0.2	+1.8	51					
17 Dec 31	692	0.9	RB	150	0	19.3	+0.5	+1.5	260	0	18.1	+0.3	+1.3	280	0	10.9	+0.1	+1.2	280