

Occultation prediction for Bonner Springs

E. Longitude - 94 53 35.5, Latitude 39 3 28.6, Alt. 250m; Telescope dia 23cm; dMag 1.0

y	m	d	h	m	s	P	Star No	Sp D	Mag v	Mag r	V	% ill	Elon Alt	Sun Alt	Moon Az	CA o	PA o	VA o	AA o		
26	Jan	1	9	45	43.6	D	701SF2		6.6	6.4		94+	151		22	288	55N	55	359	63	
701 is triple: 6.6 9.2 3.1" 169.4, dT = -2.7sec : AB 7.36 7.21 4.48" 187.8, dT = -6sec																					
701 is a close double. Observations are highly desired																					
26	Jan	2	12	10	49.2	D	890cA0		4.6	4.6s		98+	166		9	298	71N	87	36	88	
R890 = 136 Tauri																					
890 is double: ** 4.8 6.3 0.050" 270.0, dT = -0.08sec																					
890 has been reported as non-instantaneous (OCc 206). Observations are highly desired																					
890 = NSV 2696, 4.50 to 4.61, V																					
26	Jan	3	12	9	50	m	1061SF8		6.2	5.9s		100-	176		19	288	87N	197	142	192	
R1061 = 39 Geminorum																					
1061 is triple: Aa,Ab 6.1 0.50" 158.0 : AB 6.1 12.1 35" 68.9																					
1061 is a close double. Observations are highly desired																					
1061 = NSV 17256, 6.1, range 0.02, V, Type VAR:																					
Distance of 1061 to Terminator = 1.9"; to 3km sunlit peak = 0.0"																					
26	Jan	4	11	36	5.6	R	1208DK1		6.4			98-	166		35	273	41N	320	262	309	
1208 is double: AB 6.48 9.95 1.95" 325.2, dT = -4sec																					
1208 is a close double. Observations are highly desired																					
Distance of 1208 to Terminator = 12.8"; to 3km sunlit peak = 3.7"																					
26	Jan	5	7	37	3.5	R	1329pF8		6.8			95-	154		69	154	48N	324	345	309	
1329 is double: AB 7.32 7.86 0.15" 71.9, dT = +0.13sec																					
1329 is a close double. Observations are highly desired																					
26	Jan	6	13	46	32	Gr	1466cB9		5.3	5.3		87-	138	-1	24	**	GRAZE:	CA	12.4S;		
Dist.169km in az. 46deg. [Lat = 41.23-0.79(E.Long+94.89)]																					
26	Jan	6	13	50	29	m	1466cB9		5.3	5.3		87-	138	1	24	267	12S	212	160	194	
R1466 = nu Leonis																					
1466 is double: ** 6.0 6.0 0.050"																					
1466 has been reported as non-instantaneous (OCc1407). Observations are highly desired																					
Distance of 1466 to Terminator = 16.3"; to 3km sunlit peak = 4.1"																					
26	Jan	7	3	49	31.3	R	1547cB1		3.8	3.9v		82-	130		6	83	79N	303	355	283	
R1547 = rho Leonis																					
1547 is double: AB 3.8 4.8 105.1, dT = -0.04sec																					
1547 = rho Leo, 3.83 to 3.9, V, Type ACYG, Period 3.4271 days, Phase 53%																					
26	Jan	9	7	38	20.1	R	1754KF5		7.0	6.7		62-	104		24	117	80N	304	348	282	
26	Jan	10	6	52	43.9	R	1853cM3		4.8	3.9v		53-	93		5	106	50S	253	302	231	
R1853 = psi Virginis																					
1853 is double: ** 5.0 8.3 0.040" 110.0, dT = +0.1sec																					
1853 has been reported as non-instantaneous (OCc 387). Observations are highly desired																					
1853 = psi Vir, 4.73 to 4.96, V, Type SR																					
26	Jan	11	10	13	25.1	d	1970SA0		6.2	6.2		42-	81		25	140	-55S	145	176	125	
R1970 = 85 Virginis																					
1970 is multiple: Aa,Ab 6.5 8.2 : Aa,Ac 6.5 8.4 0.10" : AB 6.2 12.8 44"																					
312.7, dT = -116sec : AB 6.2 12.8 44" 312.6, dT = -116sec																					
1970 is a close double. Observations are highly desired																					
26	Jan	11	11	30	22.4	R	1970SA0		6.2	6.2		42-	81		33	159	89N	291	308	271	
R1970 = 85 Virginis																					
1970 is multiple: Aa,Ab 6.5 8.2 : Aa,Ac 6.5 8.4 0.10" : AB 6.2 12.8 44"																					
312.7, dT = -120sec : AB 6.2 12.8 44" 312.6, dT = -120sec																					
1970 is a close double. Observations are highly desired																					
26	Jan	12	12	7	12.3	d	2084 A3		6.5	6.4		32-	69		28	159	-45N	61	78	43	
26	Jan	12	12	46	43.2	R	2084 A3		6.5	6.4		32-	69	-10	30	169	10N	6	16	349	
26	Jan	22	1	24	42.6	D	3333SA5		6.4			10+	37		13	249	69N	47	0	68	
3333 is quadruple: AB 6.79 7.88 2.37" 306.8, dT = -0.9sec : AC 6.8 11.4 70" 355.8, dT = +89sec : AD 6.8 14.2 75" 278.1, dT = -96sec																					
3333 is a close double. Observations are highly desired																					
26	Jan	26	6	16	24.3	d	317 F5		6.4	6.2		50+	90		9	285	50S	111	59	130	
R317 = 20 H1. Arietis																					
26	Jan	27	2	39	49.8	D	438cA3		6.8			60+	101		62	240	41S	123	77	139	
438 is double: AB 7.47 7.45 0.54" 279.1, dT = -2.1sec																					
438 is a close double. Observations are highly desired																					
26	Jan	27	3	25	36.2	r	438cA3		6.8			60+	102		53	253	-31S	196	142	212	
438 is double: AB 7.47 7.45 0.54" 279.1, dT = -0.25sec																					
438 is a close double. Observations are highly desired																					
26	Jan	27	19	9	38.2	d	537SB6		3.7	3.8s		68+	112		32	10	67	54S	115	167	128

R537 = Electra = 17 Tauri
537 is multiple: ** 3.9 7.5 0.20" 117.0, dT = +0.43sec : Aa,Ac 3.9 7.5 0.20" :
Aa,Ab 3.9 7.0 26.5" : AB 3.7 13.0 98" 144.0, dT = +190sec
537 has been reported as non-instantaneous (OCcl693). Observations are highly desired
537 = NSV 15755, 3.70, range 0.00, 1Kp, Type SPB, Period 1.1073 days
26 Jan 27 19 22 31.9 d 539SB6 4.3 4.4s 69+ 112 32 12 68 56N 45 98 58
R539 = Taygeta = 19 Tauri
539 is multiple: Aa,Ab 4.6 6.1 : AB 0.032" 259.2, dT = -0.05sec :
AC 4.3 14.0 53" 53.4, dT = +90sec : AB 4.3 11.0 72" 328.8, dT = +29sec
539 is a close double. Observations are highly desired
539 = NSV 1264, 4.30, range 0.00, 1Kp, Type SPB, Period 1.5664 days
26 Jan 27 19 29 38.1 d 541SB8 3.9 3.9s 69+ 112 31 13 69 87N 76 130 89
R541 = Maia = 20 Tauri
541 is quadruple: Aa,Ab 4.4 5.4 : AB 3.8 13.7 113" 72.6, dT = +180sec :
AB 3.8 13.7 113" 72.7, dT = +181sec
541 = NSV 1279, 3.87, range 0.00, 4Kp, Type ACV, Period 10.288 days
26 Jan 27 19 40 51.0 d 542pB8 5.8 5.8 69+ 112 31 16 71 51N 40 94 52
R542 = Asterope = 21 Tauri
542 is triple: AB 5.8 6.4 150" 130.1, dT = -1.4sec : AD 5.8 12.7 170" 74.1, dT = +259sec
26 Jan 27 19 45 34.2 r 537SB6 3.7 3.8s 69+ 112 30 16 72 -34S 203 258 216
R537 = Electra = 17 Tauri
537 is multiple: ** 3.9 7.5 0.20" 117.0, dT = -0.03sec : Aa,Ac 3.9 7.5 0.20" :
Aa,Ab 3.9 7.0 26.5" : AB 3.7 13.0 98" 144.0, dT = -115sec
537 has been reported as non-instantaneous (OCcl693). Observations are highly desired
537 = NSV 15755, 3.70, range 0.00, 1Kp, Type SPB, Period 1.1073 days
26 Jan 27 20 11 4.8 r 539SB6 4.3 4.4s 69+ 112 28 21 75 -77N 272 328 284
R539 = Taygeta = 19 Tauri
539 is multiple: Aa,Ab 4.6 6.1 : AB 0.032" 259.2, dT = -0.06sec :
AC 4.3 14.0 53" 53.4, dT = +76sec : AB 4.3 11.0 72" 328.8, dT = -72sec
539 is a close double. Observations are highly desired
539 = NSV 1264, 4.30, range 0.00, 1Kp, Type SPB, Period 1.5664 days
26 Jan 27 20 22 39.0 r 541SB8 3.9 3.9s 69+ 112 27 23 77 -71S 241 297 253
R541 = Maia = 20 Tauri
541 is quadruple: Aa,Ab 4.4 5.4 : AB 3.8 13.7 113" 72.6, dT = +190sec :
AB 3.8 13.7 113" 72.7, dT = +190sec
541 = NSV 1279, 3.87, range 0.00, 4Kp, Type ACV, Period 10.288 days
26 Jan 27 22 15 4.5 d 571pA2 6.8 6.7 70+ 113 13 44 91 30N 20 79 32
571 is double: ** 7.1 9.1
26 Jan 27 22 27 28.7 d 574pG0 6.8 6.5 70+ 113 11 47 93 48N 38 98 50
26 Jan 29 0 13 8 D 746WB7 7.0 6.9 81+ 128 -8 56 98 24S 154 214 160
746 is double: AB 7.0 8.7 20.4" 206.1, dT = +135sec
26 Jan 29 0 20 1 Gr 746WB7 7.0 6.9 81+ 128 -9 58 ** GRAZE: CA 12.1S;
Dist. 39km in az. 150deg. [Lat = 38.65+0.44(E.Long+94.89)]
26 Jan 29 2 21 25.9 D 756 F0 6.6 6.5 81+ 128 77 147 73S 105 133 111
26 Jan 29 3 36 50.8 r 756 F0 6.6 6.5 81+ 129 75 223 -63S 242 205 247
26 Jan 29 5 14 27.2 D 771SA5 6.1 5.9e 82+ 130 60 260 48N 47 347 52
771 is triple: Aa,Ab 6.0 0.20" 351.0, dT = +0.36sec : A,BC 6.0 9.1 11.2" 29.1, dT =
+34sec
771 is a close double. Observations are highly desired
771 = V1156 Tau, 6. to 6.1, Hp, Type E:, Period 1.40266 days, Phase 13%
26 Jan 29 6 5 5.2 r 771SA5 6.1 5.9e 82+ 130 50 269 -41N 319 257 323
771 is triple: Aa,Ab 6.0 0.20" 351.0, dT = -0.5sec : A,BC 6.0 9.1 11.2" 29.1, dT =
-11sec
771 is a close double. Observations are highly desired
771 = V1156 Tau, 6. to 6.1, Hp, Type E:, Period 1.40266 days, Phase 13%
26 Jan 30 10 47 6.8 d 994cF5 6.6 6.3 91+ 146 10 297 31S 157 106 155
994 is double: ** 6.8 7.7 0.003" 269.0, dT = 0.00sec
26 Jan 30 23 45 55.7 d 1089 K0 6.7 6.1 95+ 155 -2 26 76 54N 69 127 63
26 Feb 2 8 54 27.6 R 1395 G9 6.3 5.8 100- 174 56 237 53N 312 269 295
Distance of 1395 to Terminator = 3.1"; to 3km sunlit peak = 0.0"
26 Feb 3 1 43 36.9 D 1487SB7 1.4 1.4s 98- 164 9 82 -52S 147 199 128
R1487 = Regulus = alpha Leonis
1487 is triple: AB 1.4 8.2 176" 308.0, dT = -365sec : AD 1.4 12.1 193" 274.0, dT = -256sec
1487 = NSV 4750, 1.33 to 1.40, V
26 Feb 3 2 33 29.7 R 1487SB7 1.4 1.4s 98- 164 18 90 61S 260 312 241
R1487 = Regulus = alpha Leonis
1487 is triple: AB 1.4 8.2 176" 308.0, dT = -275sec : AD 1.4 12.1 193" 274.0, dT = -440sec
1487 = NSV 4750, 1.33 to 1.40, V
26 Feb 6 7 40 1.0 d 1815SK2 4.7 4.0 79- 125 34 139 -48S 158 189 136
R1815 = chi Virginis

1815 is multiple: **Aa,Ab 4.8 8.8 0.10" 214.0, dT = +0.16sec : AB 4.8 8.8 177" 135.9, dT = +462sec :

AC 4.8 10.6 224" 109.8, dT = +420sec : AD 4.8 9.0 321" 331.1, dT = -896sec

1815 has been reported as non-instantaneous (OCc 760). Observations are highly desired

26 Feb 6 8 50 6.1 R 1815SK2 4.7 4.0 78- 125 41 159 78S 284 300 262

R1815 = chi Virginis

1815 is multiple: **Aa,Ab 4.8 8.8 0.10" 214.0, dT = -0.1sec : AB 4.8 8.8 177" 135.9, dT = +446sec :

AC 4.8 10.6 224" 109.8, dT = +662sec : AD 4.8 9.0 321" 331.1, dT = -645sec

1815 has been reported as non-instantaneous (OCc 760). Observations are highly desired

26 Feb 10 8 59 0.6 R 2263cB1 4.6 4.7 41- 80 6 130 8N 4 45 352

R2263 = 1 Scorpii

2263 is double: ** 5.6 5.6 0.050"

2263 has been reported as non-instantaneous (OCc1483). Observations are highly desired

26 Feb 10 9 7 27 m 2261 K3 6.6 5.8 41- 80 7 132 14S 205 246 193

26 Feb 10 11 20 30.3 d 2276 A3 5.6 5.6 41- 79 21 157 -52N 63 82 51

R2276 = 4 Scorpii

26 Feb 10 12 17 43.1 R 2276 A3 5.6 5.6 41- 79 -12 24 171 28N 343 351 331

R2276 = 4 Scorpii

26 Feb 11 10 11 39 M 2406pA3 6.0 5.9s 32- 69 7 136 14S 199 237 191

2406 is double: AB 6.0 13.8 5.5" 221.0

2406 is a close double. Observations are highly desired

2406 = NSV 7944, 6.7, range 0.4, pg

26 Feb 13 12 10 21.9 R 2702 K0 6.8 6.3 15- 46 9 138 82N 269 305 272

26 Feb 21 20 31 47.9 d 244 K0 6.7 6.2 21+ 55 34 60 138 49N 25 58 46

R244 = 104 Piscium

26 Feb 23 21 47 14.4 d 518SA3 6.0 s 43+ 82 24 62 113 6N 352 44 5

R518 = 7 Tauri

518 is triple: AB 6.60 6.86 0.79" 348.2, dT = +6sec : AB,C 5.9 9.9 22.5" 52.3, dT = +84sec

518 is a close double. Observations are highly desired

518 = NSV 1192, 5.92 to 5.96, V

26 Feb 23 21 59 34 Gr 518SA3 6.0 s 43+ 82 21 65 ** GRAZE: CA-11.0N;

Dist. 87km in az. 324deg. [Lat = 40.02+0.56(E.Long+94.89)]

26 Feb 23 22 9 11.0 r 518SA3 6.0 s 43+ 82 20 66 120 -28N 317 5 331

R518 = 7 Tauri

518 is triple: AB 6.60 6.86 0.79" 348.2, dT = -5sec : AB,C 5.9 9.9 22.5" 52.3, dT = +15sec

518 is a close double. Observations are highly desired

518 = NSV 1192, 5.92 to 5.96, V

26 Feb 24 3 11 24.5 D 538pB8 5.7 5.7 45+ 84 46 267 63S 104 45 116

R538 = 18 Tauri

538 is quadruple: Aa,Ab 6.4 6.4 0.10" : AB 5.6 14.0 72" 128.9, dT = +156sec :

AC 5.6 14.8 151" 175.1, dT = +117sec

538 is a close double. Observations are highly desired

26 Feb 24 4 14 53.9 r 538pB8 5.7 5.7 45+ 85 33 277 -73S 240 182 252

R538 = 18 Tauri

538 is quadruple: Aa,Ab 6.4 6.4 0.10" : AB 5.6 14.0 72" 128.9, dT = +57sec :

AC 5.6 14.8 151" 175.1, dT = -139sec

538 is a close double. Observations are highly desired

26 Feb 24 4 34 7.2 D 555 K5 6.4 5.6s 46+ 85 30 279 76S 91 33 104

555 = NSV 1316, 6.44, range 0.02, 0V, Type VAR, Period 1.48987 days

26 Feb 24 5 58 47.9 D 571pA2 6.8 6.7 46+ 86 15 291 82N 69 15 81

571 is double: ** 7.1 9.1

26 Feb 24 6 15 58.7 D 574pG0 6.8 6.5 46+ 86 12 293 85N 72 20 84

26 Feb 24 21 58 31.5 d 701SF2 6.6 6.4 55+ 96 22 54 97 57S 115 175 123

701 is triple: 6.6 9.2 3.1" 169.4, dT = +5sec : AB 7.36 7.21 4.48" 187.8, dT = +4sec

701 is a close double. Observations are highly desired

26 Feb 25 8 7 45.6 d 746WB7 7.0 6.9 59+ 100 5 301 77S 98 50 104

746 is double: AB 7.0 8.7 20.4" 206.1, dT = -10sec

26 Feb 26 2 27 56.2 D 885wG7 5.6 5.1 68+ 111 76 220 26S 155 121 156

885 is double: AB 5.7 12.5 10.8" 233.1, dT = +12sec

26 Feb 26 3 8 39.1 r 885wG7 5.6 5.1 68+ 111 70 243 -34S 215 163 216

885 is double: AB 5.7 12.5 10.8" 233.1, dT = -52sec

26 Feb 26 6 53 15.5 D 77818 K5 6.7 5.8 69+ 113 29 284 25N 27 328 27

26 Feb 26 6 59 39 Gr 77818 K5 6.7 5.8 69+ 113 27 ** GRAZE: CA 9.7N;

Dist. 76km in az. 39deg. [Lat = 39.94-0.63(E.Long+94.89)]

26 Feb 26 7 20 39.1 D 909SB9 6.0 5.9s 69+ 113 24 287 18S 164 107 164

909 is triple: Aa,Ab 6.1 9.2 194.0, dT = 0.00sec : AB 6.1 12.4 9.5" 242.3, dT = +7sec

909 is a close double. Observations are highly desired

909 = NSV 16751, 6.04, range 0.01, 2V, Type VAR, Period 9.26012 days

26 Feb 26 7 46 22.8 r 909SB9 6.0 5.9s 70+ 113 19 291 -37S 219 164 219

909 is triple: Aa,Ab 6.1 9.2 194.0, dT = 0.00sec : AB 6.1 12.4 9.5" 242.3, dT = -32sec
 909 is a close double. Observations are highly desired
 909 = NSV 16751, 6.04, range 0.01, 2V, Type VAR, Period 9.26012 days
 26 Feb 26 22 44 20.8 d 1042cA2 6.7 6.6 77+ 123 15 39 85 83N 91 151 87
 1042 is double: 6.7 9.8 0.10"
 1042 is a close double. Observations are highly desired
 26 Feb 28 4 32 9.8 D 1208DK1 6.4 87+ 138 72 213 44S 151 123 140
 1208 is double: AB 6.48 9.95 1.95" 325.2, dT = -6sec
 1208 is a close double. Observations are highly desired
 26 Feb 28 5 35 36.7 r 1208DK1 6.4 87+ 138 63 243 -66S 262 212 251
 1208 is double: AB 6.48 9.95 1.95" 325.2, dT = -2.4sec
 1208 is a close double. Observations are highly desired
 26 Mar 1 1 5 56.1 D 1329pF8 6.8 93+ 150 -11 40 97 72N 92 148 78
 1329 is double: AB 7.32 7.86 0.15" 72.1, dT = +0.33sec
 1329 is a close double. Observations are highly desired
 26 Mar 2 9 20 36 Gr 1466cB9 5.3 5.3 99+ 166 33 ** GRAZE: CA-13.2S;
 Dist. 14km in az. 50deg. [Lat = 39.25-0.92(E.Long+94.89)]
 26 Mar 2 9 20 58 m 1466cB9 5.3 5.3 99+ 166 34 257 -13S 215 164 196
 R1466 = nu Leonis
 1466 is double: ** 6.0 6.0 0.050"
 1466 has been reported as non-instantaneous (OCcl407). Observations are highly desired
 26 Mar 7 10 7 14.0 R 1993cK3 6.6 5.9 84- 133 32 195 68S 273 261 254
 26 Mar 11 10 49 27 M 2496kA1 7.0 6.9 49- 89 18 158 7S 190 210 186
 26 Mar 12 9 28 19.4 R 2631 B9 6.5 6.5v 40- 79 4 133 80N 277 317 278
 R2631 = V4045 Sagittarii
 2631 = V4045 Sgr, 6.51 to 6.54, V, Type ACV, Period 2.8855 days
 26 Mar 15 16 11 38.9 d 3078cA5 4.9 13- 42 38 31 185 -82N 62 57 77
 R3078 = Chow = eta Capricorni
 3078 is double: AB 5.02 7.39 0.23" 32.2, dT = +0.6sec
 3078 is a close double. Observations are highly desired
 26 Mar 15 17 32 20.0 r 3078cA5 4.9 13- 42 47 27 207 70S 230 208 246
 R3078 = Chow = eta Capricorni
 3078 is double: AB 5.02 7.39 0.23" 32.2, dT = +0.6sec
 3078 is a close double. Observations are highly desired
 26 Mar 22 19 16 47.5 d 470WK0 6.8 6.2 18+ 50 50 57 108 50N 31 84 46
 470 is double: AB 6.9 10.4 42" 33.3, dT = +104sec
 26 Mar 24 5 36 38.4 D 701SF2 6.6 6.4 32+ 68 9 298 76N 66 16 75
 701 is triple: 6.6 9.2 3.1" 169.4, dT = -1.2sec : AB 7.36 7.21 4.48" 187.8, dT = -4sec
 701 is a close double. Observations are highly desired
 26 Mar 24 19 3 45.5 d 797cB9 6.4 6.3e 39+ 77 52 34 79 57N 52 112 56
 797 is double: ** 6.5 8.5
 797 = HR 1750, 6.21, range 0.03, H1, Type EA, Period 3.315 days, Phase 40%
 26 Mar 27 4 9 15.8 D 1170dG8 3.6 3.1 65+ 107 57 255 38S 153 97 144
 R1170 = kappa Geminorum
 1170 is double: AB 3.7 10.0 7.3" 241.1, dT = +0.7sec
 1170 is a close double. Observations are highly desired
 26 Mar 27 5 4 35.3 R 1170dG8 3.6 3.1 65+ 108 46 266 -66S 258 199 248
 R1170 = kappa Geminorum
 1170 is double: AB 3.7 10.0 7.3" 241.1, dT = -19sec
 1170 is a close double. Observations are highly desired
 26 Mar 28 3 41 2.1 D 1304pA0 6.8 75+ 120 67 220 29S 167 135 153
 1304 is double: AB 7.10 8.08 0.29" 70.6, dT = -0.11sec
 1304 is a close double. Observations are highly desired
 26 Mar 29 9 5 2.3 D 1434wM2 5.4 4.5s 85+ 135 15 276 42S 158 105 140
 R1434 = psi Leonis
 1434 is double: AB 5.5 11.6 283" 138.9, dT = +609sec
 1434 = NSV 4594, 5.35 to 5.39, V, Type LB
 26 Mar 30 5 10 59 M 1531wA0 6.0 6.0v 91+ 146 58 206 19N 40 20 20
 R1531 = 45 Leonis (CX)
 1531 is double: AB 6.0 12.4 34" 119.5
 1531 = CX Leo, 6.01 to 6.03, V, Type ACV, Period 3.0525 days, Phase 70%
 26 Apr 4 3 27 37.4 r 2045cK0 6.4 95- 155 6 120 25N 4 50 346
 2045 is double: AB 6.40 10.51 0.70" 83.1, dT = -0.7sec
 2045 is a close double. Observations are highly desired
 Distance of 2045 to Terminator = 17.5"; to 3km sunlit peak = 6.3"
 26 Apr 4 10 10 31.9 R 158556WA2 6.8 95- 153 23 215 59N 330 302 312
 158556 is double: BA 7.2 6.6 35" 114.8, dT = +98sec
 26 Apr 4 10 12 9.0 R 2066SA1 6.6 6.6 95- 153 23 215 59N 330 302 312
 2066 is quadruple: **Aa,Ab 6.8 7.7 0.018" 329.0, dT = -0.06sec : BC 7.16 8.37 1.21" 89.4,
 dT = +2.1sec : AB 6.6 7.2 35" 294.8, dT = -98sec

2066 has been reported as non-instantaneous (OCc 204). Observations are highly desired

26 Apr 5 9 16 25.3 R 2174pB8 6.5 6.5 90- 142 26 189 66S 269 261 254
2174 is triple: ** 7.1 7.1 0.030" 0.0 : AB 6.4 12.5 8.2" 45.0, dT = +20sec

2174 has been reported as non-instantaneous (OCc1471). Observations are highly desired

26 Apr 6 5 2 12.0 R 2287SB1 2.9 3.0v 84- 133 1 126 54N 322 7 311
R2287 = pi Scorpii
2287 is triple: Aa,Ab 5.1 13.4 2.0" 244.0, dT = -1.1sec : AB 2.9 11.9 50" 128.1, dT = +126sec
2287 is a close double. Observations are highly desired
2287 = pi Sco, 2.88 to 2.91, V, Type ELL, Period 1.570103 days, Phase 64%

26 Apr 6 8 4 36.4 R 2297kF7 7.0 6.7 83- 132 22 161 89S 285 302 274

26 Apr 8 12 55 41 m 2586cB3 6.0 6.0 66- 108 11 18 204 11N 350 330 350
2586 is double: ** 6.3 7.3 0.30" 276.0
2586 has been reported as non-instantaneous (OCc1519). Observations are highly desired

26 Apr 14 10 56 1.7 R 3383 M2 6.2 5.4s 12- 40 -10 8 105 65S 222 271 243
R3383 = 82 Aquarii
3383 = NSV 25999, 6.24 to 6.29, Hp

26 Apr 19 14 29 41.6 d 536pB7 5.5 5.5 7+ 30 32 18 73 89N 68 123 81
R536 = Celaeno = 16 Tauri
536 is triple: AB 5.4 13.2 89" 264.5, dT = -134sec : AC 5.4 11.5 218" 196.1, dT = -209sec

26 Apr 19 14 30 31.2 D 537SB6 3.7 3.8s 7+ 30 33 18 73 53S 106 161 119
R537 = Electra = 17 Tauri
537 is multiple: ** 3.9 7.5 0.20" 117.0, dT = +0.38sec : Aa,Ac 3.9 7.5 0.20" :
Aa,Ab 3.9 7.0 26.6" : AB 3.7 13.0 98" 144.0, dT = +155sec
537 has been reported as non-instantaneous (OCc1693). Observations are highly desired
537 = NSV 15755, 3.70, range 0.00, 1Kp, Type SPB, Period 1.1073 days

26 Apr 19 14 47 18.3 d 539SB6 4.3 4.4s 7+ 30 36 21 75 60N 40 96 53
R539 = Taygeta = 19 Tauri
539 is multiple: Aa,Ab 4.6 6.1 : AB 0.018" 273.2, dT = -0.02sec :
AC 4.3 14.0 53" 53.4, dT = +94sec : AB 4.3 11.0 72" 328.8, dT = +42sec
539 is a close double. Observations are highly desired
539 = NSV 1264, 4.30, range 0.00, 1Kp, Type SPB, Period 1.5664 days

26 Apr 19 14 53 13.9 D 541SB8 3.9 3.9s 7+ 30 37 22 76 89S 71 127 84
R541 = Maia = 20 Tauri
541 is quadruple: Aa,Ab 4.4 5.4 : AB 3.8 13.7 113" 72.6, dT = +184sec : AB 3.8
13.7 113" 72.7, dT = +184sec
541 = NSV 1279, 3.87, range 0.00, 4Kp, Type ACV, Period 10.288 days

26 Apr 19 15 6 7.5 d 542pB8 5.8 5.8 7+ 31 39 24 77 55N 35 92 48
R542 = Asterope = 21 Tauri
542 is triple: AB 5.8 6.4 150" 130.1, dT = -25sec : AD 5.8 12.7 170" 74.1, dT = +260sec

26 Apr 19 15 12 53.5 r 537SB6 3.7 3.8s 7+ 31 40 26 79 -50S 210 267 223
R537 = Electra = 17 Tauri
537 is multiple: ** 3.9 7.5 0.20" 117.0, dT = +0.02sec : Aa,Ac 3.9 7.5 0.20" :
Aa,Ab 3.9 7.0 26.6" : AB 3.7 13.0 98" 144.0, dT = -83sec
537 has been reported as non-instantaneous (OCc1693). Observations are highly desired
537 = NSV 15755, 3.70, range 0.00, 1Kp, Type SPB, Period 1.1073 days

26 Apr 19 15 36 16.6 r 539SB6 4.3 4.4s 7+ 31 45 30 82 -65N 275 333 288
R539 = Taygeta = 19 Tauri
539 is multiple: Aa,Ab 4.6 6.1 : AB 0.018" 273.2, dT = -0.04sec :
AC 4.3 14.0 53" 53.4, dT = +77sec : AB 4.3 11.0 72" 328.8, dT = -84sec
539 is a close double. Observations are highly desired
539 = NSV 1264, 4.30, range 0.00, 1Kp, Type SPB, Period 1.5664 days

26 Apr 19 15 49 7.2 r 541SB8 3.9 3.9s 7+ 31 47 33 83 -84S 244 302 256
R541 = Maia = 20 Tauri
541 is quadruple: Aa,Ab 4.4 5.4 : AB 3.8 13.7 113" 72.6, dT = +196sec : AB 3.8
13.7 113" 72.7, dT = +196sec
541 = NSV 1279, 3.87, range 0.00, 4Kp, Type ACV, Period 10.288 days

26 Apr 19 16 39 37 m 562pB9 6.6 6.6 7+ 31 55 42 90 3S 157 216 169
562 is multiple: Aa,Ab 7.3 7.4 5.3" : AB 6.6 7.5 87" 309.1 : AE 6.6 13.8 115" 82.8 :
AG 6.6 15.1 158" 212.2
562 is a close double. Observations are highly desired

26 Apr 19 17 44 54.8 d 571pA2 6.8 6.7 8+ 32 61 54 101 37N 17 75 29
571 is double: ** 7.1 9.1

26 Apr 19 17 57 14.8 d 574pG0 6.8 6.5 8+ 32 62 57 103 56N 36 93 48

26 Apr 20 20 53 31.5 d 756 F0 6.6 6.5 16+ 47 46 77 143 87N 77 109 83

26 Apr 21 0 9 50 m 771SA5 6.1 5.9e 17+ 48 9 56 263 12N 3 301 8
771 is triple: Aa,Ab 6.0 0.20" 351.0 : A,BC 6.0 9.1 11.2" 29.1
771 is a close double. Observations are highly desired
771 = V1156 Tau, 6. to 6.1, Hp, Type E:, Period 1.40266 days, Phase 44%

26 Apr 22 5 8 11.9 D 994cF5 6.6 6.3 29+ 65 13 294 65S 116 64 114
994 is double: ** 6.8 7.7 0.003" 269.0, dT = 0.00sec

26 Apr 24 4 11 10.1 D 1269kG5 6.9 6.3 50+ 90 42 264 38S 156 100 143
 26 Apr 24 6 52 20 m 1277wK3 5.3 4.7 52+ 92 11 287 -10S 205 152 192
 R1277 = eta Cancri
 1277 is double: AB 5.3 20.0 164" 280.0
 26 Apr 25 3 13 44.6 D 1387cA5 7.0 6.8 61+ 103 58 233 56S 143 102 126
 1387 is double: ** 7.6 7.6 0.10" 90.0, dT = +0.15sec
 1387 has been reported as non-instantaneous (OCc1402). Observations are highly desired
 26 Apr 25 23 58 10.9 D 1487SB7 1.4 1.4s 70+ 114 12 50 123 81N 102 144 83
 R1487 = Regulus = alpha Leonis
 1487 is triple: AB 1.4 8.2 176" 308.0, dT = -420sec : AD 1.4 12.1 193" 274.0, dT = -509sec
 1487 = NSV 4750, 1.33 to 1.40, V
 26 Apr 26 1 11 52.1 R 1487SB7 1.4 1.4s 71+ 115 -2 60 149 -53N 328 352 309
 R1487 = Regulus = alpha Leonis
 1487 is triple: AB 1.4 8.2 176" 308.0, dT = -457sec : AD 1.4 12.1 193" 274.0, dT = -314sec
 1487 = NSV 4750, 1.33 to 1.40, V
 26 Apr 26 23 51 39.5 d 1589pM5 5.9 5.3v 80+ 126 14 37 116 53N 75 120 54
 R1589 = 56 Leonis (VY)
 1589 is double: 6.2 7.1
 1589 = VY Leo, 5.69 to 6.03, V, Type SR, Period 46.34 days, Phase 16%
 26 May 1 3 19 14.2 d 2011 K2 6.3 5.6 100+ 172 24 141 75N 57 88 37
 Distance of 2011 to Terminator = 7.7"; to 3km sunlit peak = 0.6"
 26 May 1 3 32 55 Gr 2011 K2 6.3 5.6 100+ 172 25 ** GRAZE: CA 54.9N;
 Dist.126km in az. 43deg. [Lat = 40.60-0.72(E.Long+94.89)]
 Distance of 2011 to Terminator = 5.9"; to 3km sunlit peak = 0.0"
 26 May 1 3 46 41.1 r 2011 K2 6.3 5.6 100+ 172 27 147 35N 15 41 356
 Distance of 2011 to Terminator = 2.6"; to 3km sunlit peak = 0.0"
 26 May 3 9 3 7.4 r 2256PA1 7.0 6.9 97- 161 21 204 67S 276 256 264
 2256 is double: ** 7.7 7.7 0.10" 90.0, dT = +0.31sec
 2256 has been reported as non-instantaneous (OCc1482). Observations are highly desired
 26 May 3 10 35 16.1 r 2261 K3 6.6 5.8 97- 161 -9 11 222 15S 224 188 212
 Distance of 2261 to Terminator = 3.8"; to 3km sunlit peak = 0.0"
 26 May 4 8 44 58 m 2397 K1 6.5 5.9 93- 150 23 187 9N 9 2 1
 Distance of 2397 to Terminator = 3.7"; to 3km sunlit peak = 0.0"
 26 May 9 8 57 40.3 R 3078cA5 4.9 55- 95 15 132 40S 203 241 219
 R3078 = Chow = eta Capricorni
 3078 is double: AB 5.02 7.39 0.23" 30.0, dT = +0.8sec
 3078 is a close double. Observations are highly desired
 26 May 9 11 37 53.0 r 3084 K1 6.7 6.2 54- 95 4 31 168 48N 295 305 311
 26 May 11 8 46 12.6 r 3325PG0 6.9 6.6 35- 72 6 107 27S 185 234 206
 3325 is double: ** 7.5 7.5 0.004"
 26 May 14 10 50 17.7 r 173 G5 6.5 6.0 8- 33 -4 16 89 38S 200 253 221
 26 May 14 17 45 41.0 r 197cK0 7.0 6.5 7- 30 69 57 225 48N 296 262 317
 26 May 18 16 21 43.5 d 840cK0 6.3 5.5 6+ 27 59 41 85 80S 89 150 92
 840 is double: ** 7.3 7.3 0.050"
 840 has been reported as non-instantaneous (OCc1267). Observations are highly desired
 26 May 18 17 27 45.7 r 840cK0 6.3 5.5 6+ 28 68 54 96 -83S 253 314 256
 840 is double: ** 7.3 7.3 0.050"
 840 has been reported as non-instantaneous (OCc1267). Observations are highly desired
 26 May 19 0 6 24 m 885wG7 5.6 5.1 7+ 31 14 43 274 18N 10 309 12
 885 is double: AB 5.7 12.5 10.8" 233.1
 26 May 19 0 40 37.9 D 890cA0 4.6 4.6s 7+ 31 8 37 278 85S 87 27 89
 R890 = 136 Tauri
 890 is double: ** 4.8 6.3 0.050" 270.0, dT = -0.09sec
 890 has been reported as non-instantaneous (OCc 206). Observations are highly desired
 890 = NSV 2696, 4.50 to 4.61, V
 26 May 19 1 37 39.6 R 890cA0 4.6 4.6s 7+ 31 -2 26 286 -58N 295 237 295
 R890 = 136 Tauri
 890 is double: ** 4.8 6.3 0.050" 270.0, dT = -0.08sec
 890 has been reported as non-instantaneous (OCc 206). Observations are highly desired
 890 = NSV 2696, 4.50 to 4.61, V
 26 May 19 3 11 37.3 D 906SK1 6.6 6.1 8+ 32 10 297 74S 100 49 101
 906 is quadruple: AB 7.3 8.3 0.31" : AC 7.3 8.3 0.31" : AD 7.3 10.0 21.4"
 906 is a close double. Observations are highly desired
 26 May 19 3 48 58 M 909SB9 6.0 5.9s 8+ 33 4 303 15N 10 322 10
 909 is triple: Aa,Ab 6.1 9.2 194.0 : AB 6.1 12.4 9.5" 242.3
 909 is a close double. Observations are highly desired
 909 = NSV 16751, 6.04, range 0.01, 2V, Type VAR, Period 9.26012 days
 26 May 20 0 8 4.7 d 1061SF8 6.2 5.9s 14+ 45 14 54 261 28S 154 95 149
 R1061 = 39 Geminorum
 1061 is triple: Aa,Ab 6.1 0.50" 158.0, dT = +1.5sec : AB 6.1 12.1 35" 69.0, dT = +9sec

1061 is a close double. Observations are highly desired
1061 = NSV 17256, 6.1, range 0.02, V, Type VAR:

26 May 20 20 14 0.6 d 1195 B8 6.8 6.9 23+ 57 58 59 110 64S 125 178 115
26 May 20 22 40 10.1 d 1200 K0 6.9 6.4 23+ 58 31 74 192 31S 159 149 149
26 May 20 23 22 40 m 1208DK1 6.4 23+ 58 23 71 221 16N 26 352 15
1208 is double: AB 6.48 9.95 1.95" 325.2
1208 is a close double. Observations are highly desired

26 May 20 23 24 22 Gr 1208DK1 6.4 23+ 58 22 71 ** GRAZE: CA 15.9N;
Dist.129km in az. 214deg. [Lat = 37.66-0.52(E.Long+94.89)]

26 May 21 2 2 17.5 D 1221cM3 6.0 5.1v 24+ 59 -6 43 266 73S 118 61 107
R1221 = 9 Cancri = BL Cnc.
1221 is double: AB 6.0 10.1 0.40"
1221 is a close double. Observations are highly desired
1221 = BL Cnc, 5.97 to 6.04, V, Type SR

26 May 21 3 3 51.1 r 1221cM3 6.0 5.1v 25+ 59 31 275 -76N 295 238 284
R1221 = 9 Cancri = BL Cnc.
1221 is double: AB 6.0 10.1 0.40"
1221 is a close double. Observations are highly desired
1221 = BL Cnc, 5.97 to 6.04, V, Type SR

26 May 23 2 53 3.6 D 1466cB9 5.3 5.3 46+ 85 46 243 81N 101 56 82
R1466 = nu Leonis
1466 is double: ** 6.0 6.0 0.050"
1466 has been reported as non-instantaneous (OCc1407). Observations are highly desired

26 May 23 3 55 11.6 r 1466cB9 5.3 5.3 46+ 86 35 257 -50N 330 279 312
R1466 = nu Leonis
1466 is double: ** 6.0 6.0 0.050"
1466 has been reported as non-instantaneous (OCc1407). Observations are highly desired

26 May 24 2 40 5.5 D 1567kK1 6.4 5.8 57+ 98 -12 50 221 38S 164 133 143
R1567 = 37 (Sextantis)/Leonis

26 May 24 3 41 36.7 r 1567kK1 6.4 5.8 57+ 98 41 239 -72S 274 232 253
R1567 = 37 (Sextantis)/Leonis

26 May 28 6 43 13.9 D 1993cK3 6.6 5.9 91+ 145 21 224 77S 116 81 96

26 Jun 2 5 16 31.8 R 2617cK0 4.6 4.1 97- 159 14 146 72N 300 330 301
2617 is double: AB 5.1 5.9 0.26" 12.0, dT = -0.26sec
2617 is a close double. Observations are highly desired

26 Jun 3 10 30 23.4 r 2796 K0 6.9 6.3 92- 147 -5 19 205 24S 203 182 209

26 Jun 6 14 21 58.5 r 3181SA7 6.0 5.8 69- 112 38 19 231 60N 281 243 299
R3181 = 45 Capricorni
3181 is triple: ** 6.7 6.7 0.050" : AB 5.4 9.5 4.3" 229.0, dT = -9sec
3181 has been reported as non-instantaneous (OCc1610). Observations are highly desired

26 Jun 12 12 15 36.6 r 399SA0 5.7 5.8 10- 37 14 42 98 54S 222 278 239
R399 = mu Arietis
399 is multiple: Ba,Bb 12.4 14.5 : B 2.4 0.004" 189.0, dT = -0.01sec :
Aa,Ab 5.7 6.2 0.047" 279.1, dT = -0.05sec : AB 5.7 12.2 18.6" 264.9, dT = -27sec
399 is a close double. Observations are highly desired

26 Jun 13 11 21 20.6 d 537SB6 3.7 3.8s 4- 23 4 23 77 -67S 111 167 123
R537 = Electra = 17 Tauri
537 is multiple: ** 3.9 7.5 0.20" 117.0, dT = +0.42sec : Aa,Ac 3.9 7.5 0.20" :
Aa,Ab 3.9 7.0 26.7" : AB 3.7 13.0 98" 144.0, dT = +179sec
537 has been reported as non-instantaneous (OCc1693). Observations are highly desired
537 = NSV 15755, 3.70, range 0.00, 1Kp, Type SPB, Period 1.1073 days

26 Jun 13 11 36 13.1 d 539SB6 4.3 4.4s 4- 23 6 26 78 -47N 45 102 57
R539 = Taygeta = 19 Tauri
539 is multiple: Aa,Ab 4.6 6.1 : AB 0.019" 73.4, dT = +0.03sec :
AC 4.3 14.0 53" 53.4, dT = +94sec : AB 4.3 11.0 72" 328.8, dT = +32sec
539 is a close double. Observations are highly desired
539 = NSV 1264, 4.30, range 0.00, 1Kp, Type SPB, Period 1.5664 days

26 Jun 13 11 43 20.7 d 541SB8 3.9 3.9s 4- 23 8 27 79 -77N 75 132 88
R541 = Maia = 20 Tauri
541 is quadruple: Aa,Ab 4.4 5.4 : AB 3.8 13.7 113" 72.6, dT = +189sec :
AB 3.8 13.7 113" 72.7, dT = +189sec
541 = NSV 1279, 3.87, range 0.00, 4Kp, Type ACV, Period 10.288 days

26 Jun 13 12 2 16.6 R 537SB6 3.7 3.8s 4- 23 11 31 82 28S 206 263 218
R537 = Electra = 17 Tauri
537 is multiple: ** 3.9 7.5 0.20" 117.0, dT = -0.01sec : Aa,Ac 3.9 7.5 0.20" :
Aa,Ab 3.9 7.0 26.7" : AB 3.7 13.0 98" 144.0, dT = -107sec
537 has been reported as non-instantaneous (OCc1693). Observations are highly desired
537 = NSV 15755, 3.70, range 0.00, 1Kp, Type SPB, Period 1.1073 days

26 Jun 13 12 14 58.8 r 536pB7 5.5 5.5 4- 23 13 33 84 66S 244 302 256
R536 = Celaeno = 16 Tauri

536 is triple: AB 5.4 13.2 89" 264.5, dT = -144sec : AC 5.4 11.5 218" 196.1, dT = -254sec
26 Jun 13 12 28 42.6 R 539SB6 4.3 4.4s 4- 23 16 36 86 87N 271 329 283
R539 = Taygeta = 19 Tauri
539 is multiple: Aa,Ab 4.6 6.1 : AB 0.019" 73.4, dT = +0.04sec :
AC 4.3 14.0 53" 53.4, dT = +81sec : AB 4.3 11.0 72" 328.8, dT = -74sec
539 is a close double. Observations are highly desired
539 = NSV 1264, 4.30, range 0.00, 1Kp, Type SPB, Period 1.5664 days
26 Jun 13 12 40 46.7 R 541SB8 3.9 3.9s 4- 23 18 38 88 62S 240 299 253
R541 = Maia = 20 Tauri
541 is quadruple: Aa,Ab 4.4 5.4 : AB 3.8 13.7 113" 72.6, dT = +200sec :
AB 3.8 13.7 113" 72.7, dT = +200sec
541 = NSV 1279, 3.87, range 0.00, 4Kp, Type ACV, Period 10.288 days
26 Jun 13 12 47 7.3 r 542pB8 5.8 5.8 4- 23 19 39 88 83N 275 334 288
R542 = Asterope = 21 Tauri
542 is triple: AB 5.8 6.4 150" 130.1, dT = +251sec : AD 5.8 12.7 170" 74.1, dT = +326sec
26 Jun 13 13 29 57 m 555 K5 6.4 5.6s 4- 22 28 48 94 22N 337 36 349
555 = NSV 1316, 6.44, range 0.02, 0V, Type VAR, Period 1.48987 days
26 Jun 16 17 48 53.0 d 1117cG8 5.0 4.6 4+ 24 73 58 106 4S 177 232 169
R1117 = 57 Geminorum
1117 is double: ** 5.9 5.9 0.10" 90.0, dT = +0.05sec
1117 has been reported as non-instantaneous (OCc1358). Observations are highly desired
26 Jun 16 17 57 59 Gr 1117cG8 5.0 4.6 4+ 24 74 61 ** GRAZE: CA-10.0S;
Dist. 53km in az. 177deg. [Lat = 38.58+0.04(E.Long+94.89)]
26 Jun 16 18 7 26.3 r 1117cG8 5.0 4.6 4+ 24 74 62 111 -24S 205 259 198
R1117 = 57 Geminorum
1117 is double: ** 5.9 5.9 0.10" 90.0, dT = +0.4sec
1117 has been reported as non-instantaneous (OCc1358). Observations are highly desired
26 Jun 17 0 54 56.6 d 1155 F0 6.4 6.2 5+ 27 8 31 278 48N 52 354 44
26 Jun 17 1 15 0.3 d 1157 A2 6.2 6.2 5+ 27 5 27 280 62N 67 10 59
26 Jun 17 1 53 13.3 r 1157 A2 6.2 6.2 6+ 27 -2 20 286 -28N 337 282 329
26 Jun 17 19 12 43.6 D Venus -4.0 -4.0 11+ 38 71 60 118 68S 121 171 111
Venus contacts: Bright limb 19 12 24; Terminator 19 12 55; Dark limb 19 13 3: diam = 14.7"
; %illum = 74.0%; PA bright limb = 281.5
26 Jun 17 20 39 29.8 R Venus -4.0 -4.0 11+ 39 57 71 160 -84N 287 304 274
Venus contacts: Bright limb 20 39 10; Terminator 20 39 39; Dark limb 20 39 50: diam = 14.7";
%illum = 74.0%; PA bright limb = 281.5
26 Jun 17 21 45 13 m 1277wK3 5.3 4.7 11+ 39 44 70 205 -17S 209 188 196
R1277 = eta Cancri
1277 is double: AB 5.3 20.0 164" 280.0
26 Jun 18 0 55 15.0 d 1295pK0 6.4 5.9s 12+ 40 8 39 264 70N 83 28 70
R1295 = 39 Cancri
1295 is multiple: AC 6.5 9.0 134" 309.0, dT = -221sec : AD 6.5 8.8 135" 111.0, dT = +281sec :
AB 6.5 6.6 152" 149.9, dT = +143sec : AS 6.5 10.1 262" 325.7, dT = -287sec
1295 = NSV 4179, 6.39, range 0.04, V
26 Jun 18 1 16 5.2 d 1298pK0 6.4 5.9E 12+ 41 4 35 268 52S 141 86 128
1298 is multiple: AE 6.5 12.5 15.7" 154.8, dT = +30sec : AB 6.4 10.4 20.8" 55.1, dT =
+2.7sec :
AC 6.5 7.6 64" 343.1, dT = -119sec : AD 6.5 9.2 84" 44.0, dT = -21sec
1298 = HD 73710, 6.42, , Type EA, Period 7.22030 days, Phase 42%
26 Jun 18 1 32 18.1 d 1299pA* 6.3 6.2 12+ 41 2 32 270 26S 167 112 154
R1299 = epsilon Cancri
1299 is double: AB 6.3 7.5 134" 250.1, dT = +45sec
26 Jun 18 1 49 41.2 r 1296pA1 6.6 6.6 12+ 41 -1 29 273 -44N 329 273 315
R1296 = 40 Cancri
1296 is quadruple: Ba,Bb 6.6 0.40" 128.0, dT = +0.8sec : BR 6.6 11.6 140" 146.9, dT =
+288sec :
BA 6.6 6.5 152" 329.9, dT = -312sec
1296 is a close double. Observations are highly desired
26 Jun 18 1 51 11.1 d 1305pK0 6.9 6.4 12+ 41 -1 29 273 45N 58 3 45
1305 is double: Ea,Eb 7.2 9.1
26 Jun 18 1 51 32.0 r 1292kF0 6.7 6.5v 12+ 41 -2 28 273 -87S 281 225 267
R1292 = 38 Cancri (BT)
1292 = BT Cnc, 6.66, range 0.06, V, Type DSCTC, Period 0.10228 days
26 Jun 18 2 10 10.3 r 1298pK0 6.4 5.9E 12+ 41 -5 25 276 -82S 276 220 262
1298 is multiple: AE 6.5 12.5 15.7" 154.8, dT = +15sec : AB 6.4 10.4 20.8" 55.1, dT = +29sec
:
AC 6.5 7.6 64" 343.1, dT = -45sec : AD 6.5 9.2 84" 44.0, dT = +97sec
1298 = HD 73710, 6.42, , Type EA, Period 7.22030 days, Phase 42%
26 Jun 18 2 10 21.8 r 1299pA* 6.3 6.2 12+ 41 -5 25 276 -56S 249 194 235
R1299 = epsilon Cancri

1299 is double: AB 6.3 7.5 134" 250.1, dT = -347sec
26 Jun 18 2 17 18.1 r 1302pA9 6.8 6.7 12+ 41 -6 23 277 -80N 293 238 279
R1302 = 42 Cancri
1302 is double: ** 7.5 7.5 0.050"
1302 has been reported as non-instantaneous (OCc1393). Observations are highly desired
26 Jun 18 2 19 49.7 r 1305pK0 6.9 6.4 12+ 41 -6 23 277 -16N 358 303 344
1305 is double: Ea,Eb 7.2 9.1
26 Jun 18 2 25 42.8 r 1303kA6 6.8 6.7v 12+ 41 -7 22 278 -78S 271 217 258
1303 = EP Cnc, 6.76, range 0.03, V, Type DSCTC
26 Jun 19 0 57 29.4 d 1415WA1 6.3 6.3 21+ 54 8 45 249 43S 156 107 138
R1415 = 7 Leonis
1415 is double: AB 6.3 9.4 41" 90.5, dT = +42sec
26 Jun 19 1 50 32.2 d 1420 F2 6.6 6.4 21+ 54 -1 36 259 79N 98 46 80
R1420 = 11 Leonis
26 Jun 19 1 53 31.3 r 1415WA1 6.3 6.3 21+ 54 -2 35 260 -74S 273 220 255
R1415 = 7 Leonis
1415 is double: AB 6.3 9.4 41" 90.5, dT = +93sec
26 Jun 19 2 46 12.4 r 1420 F2 6.6 6.4 21+ 55 -10 25 268 -52N 327 274 310
R1420 = 11 Leonis
26 Jun 19 23 27 48.6 d 1525 M2 5.6 4.8v 30+ 66 24 59 197 23S 179 166 159
R1525 = 44 Leonis (DE)
1525 = DE Leo, 5.6, range 0.07, V, Type SRB:
26 Jun 20 0 17 39.6 r 1525 M2 5.6 4.8v 30+ 67 15 54 218 -58S 260 231 240
R1525 = 44 Leonis (DE)
1525 = DE Leo, 5.6, range 0.07, V, Type SRB:
26 Jun 21 1 48 2.5 D 1635cM0 5.2 4.4 41+ 80 -1 43 226 58S 145 111 124
R1635 = 75 Leonis
1635 is double: ** 5.8 6.6 0.044" 0.0
1635 has been reported as non-instantaneous (OCc 763). Observations are highly desired
26 Jun 21 2 57 50.0 r 1635cM0 5.2 4.4 42+ 80 -12 32 243 -87S 290 246 268
R1635 = 75 Leonis
1635 is double: ** 5.8 6.6 0.044" 0.0
1635 has been reported as non-instantaneous (OCc 763). Observations are highly desired
26 Jun 21 3 5 31.8 D 1637 K0 5.9 5.4 42+ 80 31 244 49S 154 110 133
R1637 = 76 Leonis
26 Jun 21 4 3 54.0 r 1637 K0 5.9 5.4 42+ 81 20 255 -71S 274 225 252
R1637 = 76 Leonis
26 Jun 23 3 37 8.4 D 1845SG8 6.5 5.9s 62+ 104 30 224 63S 139 106 117
1845 is triple: AB 6.6 9.7 28.8" 296.3, dT = -72sec : AC 6.6 12.5 142" 211.8, dT = +115sec
1845 = NSV 5994, 6.49, range 0.07, V
26 Jun 26 3 6 0.2 D 2174pB8 6.5 6.5 87+ 138 27 177 65S 124 126 109
2174 is triple: ** 7.1 7.1 0.030" 0.0 : AB 6.4 12.5 8.2" 45.0, dT = +5sec
2174 has been reported as non-instantaneous (OCc1471). Observations are highly desired
26 Jun 27 2 9 41.5 d 2297kF7 7.0 6.7 93+ 148 -4 19 153 56S 126 149 114
26 Jun 27 6 59 14.1 d 2318 A* 6.6 6.6v 93+ 150 13 218 75N 76 43 65
2318 = V0952 Sco, 6.57, range 0.04, V, Type ACV, Period 1.4178 days, Phase 68%
26 Jun 28 7 39 56.8 d 2453 K1 6.6 6.2 97+ 160 13 215 53S 117 86 111
26 Jun 29 7 39 20.3 d 2586cB3 6.0 6.0 99+ 171 18 205 37S 110 88 109
2586 is double: ** 6.3 7.3 0.30" 276.0, dT = -1sec
2586 has been reported as non-instantaneous (OCc1519). Observations are highly desired
Distance of 2586 to Terminator = 4.4"; to 3km sunlit peak = 0.0"
26 Jun 30 3 53 38 m 2723 K0 6.6 6.1 100- 175 14 144 63N 358 29 1
Distance of 2723 to Terminator = 3.1"; to 3km sunlit peak = 0.0"
26 Jul 2 4 3 13.2 r 2991 K5 6.1 5.3 95- 155 6 125 25S 198 242 211
Distance of 2991 to Terminator = 17.4"; to 3km sunlit peak = 6.3"
26 Jul 3 4 13 22.1 r 3113cB5 5.4 5.5V 91- 144 3 116 65S 230 277 246
R3113 = 30 Capricorni
3113 is double: ** 6.1 6.1 0.10" 87.0, dT = +0.2sec
3113 has been reported as non-instantaneous (OCc1602). Observations are highly desired
3113 = HD 202671, 5.40, , Type ACV, Period 1.9917 days, Phase 99%
26 Jul 6 12 31 30.9 d 3508cA5 5.8 5.7 64- 106 15 48 211 -79N 55 31 77
R3508 = 21 Piscium
3508 is double: ** 6.6 6.6 0.050"
3508 has been reported as non-instantaneous (OCc1648). Observations are highly desired
26 Jul 6 13 48 29.9 r 3508cA5 5.8 5.7 64- 106 30 38 233 71S 227 189 249
R3508 = 21 Piscium
3508 is double: ** 6.6 6.6 0.050"
3508 has been reported as non-instantaneous (OCc1648). Observations are highly desired
26 Jul 8 10 2 33.4 R 197cK0 7.0 6.5 43- 82 -10 47 117 53N 285 331 306
26 Jul 9 7 0 50.1 R 317 F5 6.4 6.2 33- 71 7 73 78N 264 315 282

R317 = 20 Hl. Arietis
26 Jul 9 18 52 22.8 r 370 A9 6.1 6.0v 29- 65 72 22 279 68N 276 221 294
R370 = 26 Arietis (UU)
370 = UU Ari, 6.10 to 6.15, V, Type DSCTC, Period 0.0676 days
26 Jul 10 9 50 30 M 470WK0 6.8 6.2 22- 56 31 84 13N 335 32 350
470 is double: AB 6.9 10.4 42" 33.3
26 Jul 10 20 13 51.1 r 518SA3 6.0 s 19- 51 61 20 286 18N 332 277 346
R518 = 7 Tauri
518 is triple: AB 6.60 6.86 0.79" 348.1, dT = -4sec : AB,C 5.9 9.9 22.5" 52.2, dT = -18sec
518 is a close double. Observations are highly desired
518 = NSV 1192, 5.92 to 5.96, V
26 Jul 12 14 41 58.5 r 840cK0 6.3 5.5 5- 25 40 64 107 58S 246 303 248
840 is double: ** 7.3 7.3 0.050"
840 has been reported as non-instantaneous (OCc1267). Observations are highly desired
26 Jul 12 21 50 19.9 d 890cA0 4.6 4.6s 4- 22 43 28 284 -52N 61 3 63
R890 = 136 Tauri
890 is double: ** 4.8 6.3 0.050" 270.0, dT = -0.1sec
890 has been reported as non-instantaneous (OCc 206). Observations are highly desired
890 = NSV 2696, 4.50 to 4.61, V
26 Jul 12 22 32 40.7 r 890cA0 4.6 4.6s 4- 22 35 20 290 49N 321 265 322
R890 = 136 Tauri
890 is double: ** 4.8 6.3 0.050" 270.0, dT = -0.07sec
890 has been reported as non-instantaneous (OCc 206). Observations are highly desired
890 = NSV 2696, 4.50 to 4.61, V
26 Jul 16 19 0 44.0 d 1466cB9 5.3 5.3 8+ 33 71 55 133 73N 93 129 75
R1466 = nu Leonis
1466 is double: ** 6.0 6.0 0.050"
1466 has been reported as non-instantaneous (OCc1407). Observations are highly desired
26 Jul 16 20 6 13.3 r 1466cB9 5.3 5.3 8+ 34 62 62 162 -44N 337 351 318
R1466 = nu Leonis
1466 is double: ** 6.0 6.0 0.050"
1466 has been reported as non-instantaneous (OCc1407). Observations are highly desired
26 Jul 24 2 11 32.8 D 2256PA1 7.0 6.9 74+ 119 -6 25 182 57N 66 64 54
2256 is double: ** 7.7 7.7 0.10" 90.0, dT = +0.39sec
2256 has been reported as non-instantaneous (OCc1482). Observations are highly desired
26 Jul 24 4 3 9.2 D 2261 K3 6.6 5.8 75+ 120 19 208 88S 101 77 89
26 Aug 2 7 24 29.3 R 3459 K0 6.4 5.8 87- 137 43 144 87N 249 276 270
R3459 = 11 Piscium
26 Aug 2 8 47 5.4 d 3467kK1 6.4 5.8 86- 137 50 171 -20N 355 2 17
R3467 = 13 Piscium
26 Aug 2 9 35 59.1 R 3467kK1 6.4 5.8 86- 136 50 191 54N 281 273 303
R3467 = 13 Piscium
26 Aug 2 9 58 26 m 3474kA2 5.9 5.8 86- 136 49 198 -16S 139 125 160
R3474 = 14 Piscium
26 Aug 2 10 0 26 Gr 3474kA2 5.9 5.8 86- 136 46 ** GRAZE: CA-16.0S;
Dist.133km in az. 317deg. [Lat = 40.71+0.74(E.Long+94.89)]
26 Aug 5 15 16 22.0 r 311cA3 6.6 6.5e 56- 97 43 37 263 52N 288 233 307
311 is double: 6.7 9.1
311 = HIP 9924, 6.612, range 0.04, 7w, Type E, Period 2.575 days, Phase 22%
26 Aug 7 5 43 19.4 R 541SB8 3.9 3.9s 37- 74 1 59 77S 246 292 258
R541 = Maia = 20 Tauri
541 is quadruple: Aa,Ab 4.4 5.4 : AB 3.8 13.7 113" 72.6, dT = +166sec :
AB 3.8 13.7 113" 72.7, dT = +167sec
541 = NSV 1279, 3.87, range 0.00, 4Kp, Type ACV, Period 10.288 days
26 Aug 7 5 46 36.6 r 542pB8 5.8 5.8 37- 74 2 59 65N 284 331 296
R542 = Asterope = 21 Tauri
542 is triple: AB 5.8 6.4 150" 130.1, dT = +232sec : AD 5.8 12.7 170" 74.1, dT = +257sec
26 Aug 7 5 50 9.9 r 543pA0 6.4 6.4 37- 74 2 60 74N 275 323 288
R543 = 22 Tauri
543 is triple: BC 6.4 15.1 52" 267.9, dT = -82sec : BA 6.4 5.8 150" 310.1, dT = -198sec
26 Aug 7 6 2 51.1 r 553pA0 6.8 6.8e 36- 74 4 62 27S 196 245 209
553 is double: AB 6.8 15.5 95" 16.7, dT = +253sec
553 = V1229 Tau, 6.83 to 6.94, V, Type EA, Period 2.46113408 days, Phase 26%
26 Aug 7 6 9 58.9 R 548pB9 6.8 6.8 36- 74 5 63 90S 259 308 271
548 is quadruple: Aa,Ab 6.8 6.9 0.011" 249.1, dT = -0.02sec : AB 6.8 14.8 102" 299.3,
dT = -118sec : AC 6.8 13.0 123" 190.1, dT = -68sec
548 is a close double. Observations are highly desired
26 Aug 7 6 21 28.1 r 557pA1 7.0 6.9 36- 74 7 64 20S 189 239 201
557 is quadruple: Aa,Ab 7.2 8.5 0.20" 239.0, dT = -0.43sec : Aa,Ab 7.2 8.5 0.20" 239.0,
dT = -0.43sec : AB 7.0 15.0 72" 217.0, dT = -211sec

557 is a close double. Observations are highly desired

26 Aug 7 7 35 53 M 571pA2 6.8 6.7 36- 73 20 74 10N 340 35 352
571 is double: ** 7.1 9.1

26 Aug 7 8 4 16.9 R 574pG0 6.8 6.5 35- 73 26 77 35N 314 11 326

26 Aug 8 9 47 23.5 R 746WB7 7.0 6.9 24- 59 34 81 88N 270 329 275
746 is double: AB 7.0 8.7 20.4" 206.1, dT = -17sec

26 Aug 8 11 0 9.8 d 756 F0 6.6 6.5 24- 58 -6 48 90 -41N 38 100 44

26 Aug 8 11 54 38.9 r 756 F0 6.6 6.5 23- 58 4 58 100 62N 296 356 302

26 Aug 8 14 4 34 Gr 771SA5 6.1 5.9e 23- 57 29 80 ** GRAZE: CA 4.1N;
Dist.189km in az. 172deg. [Lat = 37.34+0.10(E.Long+94.89)]

26 Aug 8 14 5 7 m 771SA5 6.1 5.9e 23- 57 29 79 160 4N 354 12 360
771 is triple: Aa,Ab 6.0 0.20" 351.0 : A,BC 6.0 9.1 11.2" 29.1
771 is a close double. Observations are highly desired
771 = V1156 Tau, 6. to 6.1, Hp, Type E:, Period 1.40266 days, Phase 60%

26 Aug 8 14 40 40.8 r 773wF8 7.0 6.7 23- 57 36 78 200 49S 227 210 232
773 is double: AB 7.0 9.3 315" 353.1, dT = +583sec

26 Aug 9 7 35 21 Gr 909SB9 6.0 5.9s 15- 46 1 ** GRAZE: CA 8.6N;
Dist. 32km in az. 143deg. [Lat = 38.69+0.59(E.Long+94.89)]

26 Aug 9 7 39 47.6 r 906SK1 6.6 6.1 15- 46 1 55 80S 264 310 265
906 is quadruple: AB 7.3 8.3 0.31" : AC 7.3 8.3 0.31" : AD 7.3 10.0 21.5"
906 is a close double. Observations are highly desired

26 Aug 10 14 13 22.4 d 1117cG8 5.0 4.6 6- 29 31 58 106 -16S 178 233 171
R1117 = 57 Geminorum
1117 is double: ** 5.9 5.9 0.10" 90.0, dT = +0.04sec
1117 has been reported as non-instantaneous (OCc1358). Observations are highly desired

26 Aug 10 14 21 50 Gr 1117cG8 5.0 4.6 6- 29 32 61 ** GRAZE: CA -2.9S;
Dist. 48km in az. 178deg. [Lat = 38.62+0.03(E.Long+94.89)]
Distance of 1117 to Terminator = 2.4"; to 3km sunlit peak = 0.0"

26 Aug 10 14 30 54 R 1117cG8 5.0 4.6 6- 29 34 62 111 11S 205 259 198
R1117 = 57 Geminorum
1117 is double: ** 5.9 5.9 0.10" 90.0, dT = +0.42sec
1117 has been reported as non-instantaneous (OCc1358). Observations are highly desired

26 Aug 10 21 41 36 r 1155 F0 6.4 6.2 5- 26 41 26 281 1N 14 317 5
Distance of 1155 to Terminator = 19.2"; to 3km sunlit peak = 0.0"

26 Aug 10 22 18 0.0 r 1157 A2 6.2 6.2 5- 25 34 19 286 27N 348 293 340

26 Aug 14 19 10 1.5 D 1635cM0 5.2 4.4 6+ 28 63 51 158 58S 149 166 127
R1635 = 75 Leonis
1635 is double: ** 5.8 6.6 0.044" 0.0
1635 has been reported as non-instantaneous (OCc 763). Observations are highly desired

26 Aug 14 20 23 45.2 r 1635cM0 5.2 4.4 6+ 28 54 53 188 -85S 293 287 271
R1635 = 75 Leonis
1635 is double: ** 5.8 6.6 0.044" 0.0
1635 has been reported as non-instantaneous (OCc 763). Observations are highly desired

26 Aug 14 20 28 32.5 d 1637 K0 5.9 5.4 6+ 28 53 52 189 57S 150 143 129
R1637 = 76 Leonis

26 Aug 14 21 40 44.6 r 1637 K0 5.9 5.4 6+ 29 40 47 216 -83S 291 264 269
R1637 = 76 Leonis

26 Aug 16 1 13 44.7 d 1759pA* 6.6 6.4v 13+ 43 -1 16 249 53N 81 34 58
1759 is triple: AB 6.6 13.5 10.6" 0.9, dT = +5sec : AC 6.6 11.9 86" 185.9, dT = -63sec
1759 = FG Vir, 6.53 to 6.58, V, Type DSCTC, Period 0.079 days

26 Aug 17 21 30 50.0 d 1967 G1 5.6 5.1 29+ 65 41 34 166 30N 53 65 33
R1967 = 83 Virginis

26 Aug 17 21 42 15 Gr 1967 G1 5.6 5.1 29+ 65 39 34 ** GRAZE: CA 13.0N;
Dist. 91km in az. 50deg. [Lat = 40.34-0.94(E.Long+94.89)]

26 Aug 17 21 55 0.7 r 1967 G1 5.6 5.1 29+ 66 37 34 173 -4N 20 26 360
R1967 = 83 Virginis

26 Aug 23 0 45 32 Gr 2617cK0 4.6 4.1 77+ 122 2 21 ** GRAZE: CA 5.1N;
Dist.125km in az. 206deg. [Lat = 37.81-0.37(E.Long+94.89)]

26 Aug 23 0 46 36 m 2617cK0 4.6 4.1 77+ 122 3 19 157 5N 1 20 1
2617 is double: AB 5.1 5.9 0.26" 12.0
2617 is a close double. Observations are highly desired
Distance of 2617 to Terminator = 8.4"; to 3km sunlit peak = 0.0"

26 Aug 23 3 21 1 m 2631 B9 6.5 6.5v 77+ 123 21 193 6S 170 159 170
R2631 = V4045 Sagittarii
2631 = V4045 Sgr, 6.51 to 6.54, V, Type ACV, Period 2.8855 days
Distance of 2631 to Terminator = 10.3"; to 3km sunlit peak = 0.0"

26 Aug 23 6 16 27.4 d 2644cF8 6.4 6.1 78+ 124 5 227 70N 65 25 66
2644 is double: ** 7.1 7.1 0.10" 90.0, dT = +0.23sec
2644 has been reported as non-instantaneous (OCc 168). Observations are highly desired

26 Aug 24 5 52 28 m 2796 K0 6.9 6.3 85+ 135 15 215 12S 157 127 163

Distance of 2796 to Terminator = 18.6"; to 3km sunlit peak = 5.0"

26 Aug 27 7 41 4.0 D 3181SA7 6.0 5.8 99+ 169 30 213 87N 62 36 80
R3181 = 45 Capricorni
3181 is triple: ** 6.7 6.7 0.050" : AB 5.4 9.5 4.3" 229.0, dT = -11sec
3181 has been reported as non-instantaneous (OCc1610). Observations are highly desired
Distance of 3181 to Terminator = 16.1"; to 3km sunlit peak = 6.0"

26 Aug 29 5 49 23.5 d 3416cA3 5.6 5.5 99- 167 44 153 -59N 31 52 53
3416 is double: ** 6.4 6.4 0.050"
3416 has been reported as non-instantaneous (OCc1638). Observations are highly desired

26 Aug 29 7 5 28.9 R 3416cA3 5.6 5.5 99- 167 48 180 85N 247 247 268
3416 is double: ** 6.4 6.4 0.050"
3416 has been reported as non-instantaneous (OCc1638). Observations are highly desired

26 Aug 30 9 2 40 Gr 6 G5 6.9 6.3 95- 154 51 ** GRAZE: CA 11.5N;
Dist. 47km in az. 142deg. [Lat = 38.52+0.62(E.Long+94.89)]
Distance of 6 to Terminator = 7.0"; to 3km sunlit peak = 0.0"

26 Aug 30 9 3 5 m 6 G5 6.9 6.3 95- 154 51 209 11N 320 298 342
Distance of 6 to Terminator = 4.4"; to 3km sunlit peak = 0.0"

26 Sep 1 5 9 55.7 R 244 K0 6.7 6.2 82- 130 30 96 74S 229 282 250
R244 = 104 Piscium

26 Sep 3 11 41 14.9 d 538pB8 5.7 5.7 60- 101 -3 75 203 -49S 117 97 130
R538 = 18 Tauri
538 is quadruple: Aa,Ab 6.4 6.4 0.10" : AB 5.6 14.0 72" 128.9, dT = +251sec :
AC 5.6 14.8 151" 175.1, dT = +284sec
538 is a close double. Observations are highly desired

26 Sep 3 12 41 29.8 r 538pB8 5.7 5.7 59- 101 9 67 239 45S 211 164 224
R538 = 18 Tauri
538 is quadruple: Aa,Ab 6.4 6.4 0.10" : AB 5.6 14.0 72" 128.9, dT = -34sec :
AC 5.6 14.8 151" 175.1, dT = -428sec
538 is a close double. Observations are highly desired

26 Sep 3 14 21 49.6 r 555 K5 6.4 5.6s 59- 100 28 49 264 50S 216 157 229
555 = NSV 1316, 6.44, range 0.02, 0V, Type VAR, Period 1.48987 days

26 Sep 3 16 6 32.2 r 571pA2 6.8 6.7 58- 99 47 30 280 73S 241 182 252
571 is double: ** 7.1 9.1

26 Sep 4 7 3 40.3 d 701SF2 6.6 6.4 50- 90 27 76 -50N 42 100 50
701 is triple: 6.6 9.2 3.1" 169.4, dT = -4sec : AB 7.36 7.21 4.48" 187.8, dT = -8sec
701 is a close double. Observations are highly desired

26 Sep 4 7 54 53.2 R 701SF2 6.6 6.4 49- 89 37 83 67N 285 345 293
701 is triple: 6.6 9.2 3.1" 169.4, dT = +3sec : AB 7.36 7.21 4.48" 187.8, dT = +1.3sec
701 is a close double. Observations are highly desired

26 Sep 5 10 35 18.1 d 885wG7 5.6 5.1 37- 75 55 96 -52N 52 113 54
885 is double: AB 5.7 12.5 10.8" 233.1, dT = -29sec

26 Sep 5 11 38 59.2 R 885wG7 5.6 5.1 37- 74 -3 67 112 61N 300 354 301
885 is double: AB 5.7 12.5 10.8" 233.1, dT = -12sec

26 Sep 5 11 57 30.2 D 890cA0 4.6 4.6s 36- 74 0 70 119 -35S 146 196 147
R890 = 136 Tauri
890 is double: ** 4.8 6.3 0.050" 270.0, dT = -0.13sec
890 has been reported as non-instantaneous (OCc 206). Observations are highly desired
890 = NSV 2696, 4.50 to 4.61, V

26 Sep 5 12 43 8.7 R 890cA0 4.6 4.6s 36- 74 9 77 146 33S 214 243 215
R890 = 136 Tauri
890 is double: ** 4.8 6.3 0.050" 270.0, dT = -0.13sec
890 has been reported as non-instantaneous (OCc 206). Observations are highly desired
890 = NSV 2696, 4.50 to 4.61, V

26 Sep 5 17 1 9.2 r 909SB9 6.0 5.9s 35- 72 53 44 273 88S 270 208 270
909 is triple: Aa,Ab 6.1 9.2 194.0, dT = 0.00sec : AB 6.1 12.4 9.5" 242.4, dT = -18sec
909 is a close double. Observations are highly desired
909 = NSV 16751, 6.04, range 0.01, 2V, Type VAR, Period 9.26012 days

26 Sep 6 12 44 28 m 1061SF8 6.2 5.9s 25- 60 9 67 116 1S 189 240 184
R1061 = 39 Geminorum
1061 is triple: Aa,Ab 6.1 0.50" 158.0 : AB 6.1 12.1 35" 69.1
1061 is a close double. Observations are highly desired
1061 = NSV 17256, 6.1, range 0.02, V, Type VAR:
Distance of 1061 to Terminator = 17.3"; to 3km sunlit peak = 0.0"

26 Sep 6 12 44 56 Gr 1061SF8 6.2 5.9s 25- 60 9 67 ** GRAZE: CA 1.1S;
Dist.188km in az. 359deg. [Lat = 40.75+0.01(E.Long+94.89)]

26 Sep 7 10 22 23.3 R 1195 B8 6.8 6.9 16- 48 28 81 41N 332 29 322
26 Sep 7 11 17 15.8 d 1200 K0 6.9 6.4 16- 47 -8 38 89 -78S 116 174 106
26 Sep 7 16 19 9.2 r 1221cM3 6.0 5.1v 15- 46 47 69 222 85S 280 246 269
R1221 = 9 Cancri = BL Cnc.
1221 is double: AB 6.0 10.1 0.40"

1221 is a close double. Observations are highly desired
1221 = BL Cnc, 5.97 to 6.04, V, Type SR

26 Sep 8 11 59 29 m 1340kA0 6.6 6.6 8- 34 0 33 92 1S 199 254 184
Distance of 1340 to Terminator = 12.1"; to 3km sunlit peak = 0.0"

26 Sep 8 18 50 26.3 d Ganymede 5.5 5.5 7- 31 56 50 247 -34S 165 116 149
Ganymede limb contacts offset by ± 1.7 secs, at 18 50 24.6 and 18 50 28.0
Both contacts are against the bright limb of Ganymede

26 Sep 8 18 54 57.2 D Jupiter -1.7 -1.7 7- 31 55 50 248 -37S 162 112 146
Jupiter limb contacts offset by ± 42.9 secs, at 18 54 14 and 18 55 40
Both contacts are against the bright limb of Jupiter

26 Sep 8 18 57 32.6 d Io 5.9 5.9 7- 31 55 49 248 -39S 161 110 144
Io limb contacts offset by ± 1.1 secs, at 18 57 31.5 and 18 57 33.6
Both contacts are against the bright limb of Io

26 Sep 8 19 38 38.4 r Callisto 6.5 6.5 7- 31 52 41 257 63S 263 209 245
Callisto limb contacts offset by ± 1.5 secs, at 19 38 36.9 and 19 38 39.8
Both contacts are against the bright limb of Callisto

26 Sep 8 19 41 37.3 r Ganymede 5.5 5.5 7- 31 51 41 258 64S 263 210 247
Ganymede limb contacts offset by ± 1.6 secs, at 19 41 35.8 and 19 41 38.9
Both contacts are against the bright limb of Ganymede

26 Sep 8 19 48 15.2 R Jupiter -1.7 -1.7 7- 31 51 40 259 67S 267 213 250
Jupiter limb contacts offset by ± 40.1 secs, at 19 47 35 and 19 48 55
Both contacts are against the bright limb of Jupiter

26 Sep 8 19 48 48.8 r Europa 6.2 6.2 7- 31 51 40 259 68S 267 213 250
Europa limb contacts offset by ± 0.9 secs, at 19 48 47.9 and 19 48 49.7
Both contacts are against the bright limb of Europa

26 Sep 8 19 51 39.3 r Io 5.9 5.9 7- 31 50 39 260 69S 268 214 251
Io limb contacts offset by ± 1.0 secs, at 19 51 38.4 and 19 51 40.3
Both contacts are against the bright limb of Io

26 Sep 9 11 22 4.4 r 1449 M0 6.5 5.6s 3- 21 -7 13 84 69S 270 322 251
R1449 = 23 Leonis
1449 = NSV 18283, 6.45, range 0.00, 6V, Type VAR, Period 2.82446 days

26 Sep 9 15 12 49.9 r 1466cB9 5.3 5.3 3- 19 36 54 129 58N 322 360 303
R1466 = nu Leonis
1466 is double: ** 6.0 6.0 0.050"
1466 has been reported as non-instantaneous (OCc1407). Observations are highly desired

26 Sep 16 1 1 26.5 D 2164dK4 6.6 5.7 24+ 59 -7 13 224 90S 110 73 94
2164 is double: AB 6.7 12.5 9.1" 204.6, dT = -2.2sec
2164 is a close double. Observations are highly desired

26 Sep 16 20 21 20.4 d 2276 A3 5.6 5.6 32+ 69 43 18 149 57N 71 97 59
R2276 = 4 Scorpii

26 Sep 17 1 45 55.3 D 2297kF7 7.0 6.7 33+ 70 11 221 50N 64 28 52

26 Sep 20 2 55 47.1 D 2723 K0 6.6 6.1 61+ 103 19 204 24N 18 357 22

26 Sep 21 5 17 43.3 d 2879kA3 6.7 6.6 71+ 115 12 224 37N 26 349 34

26 Sep 22 2 27 0 M 2991 K5 6.1 5.3 79+ 125 29 175 12S 152 156 165

26 Sep 23 1 21 53.8 D 3113cB5 5.4 5.5V 86+ 136 26 146 55S 105 133 121
R3113 = 30 Capricorni
3113 is double: ** 6.1 6.1 0.10" 87.0, dT = +0.36sec
3113 has been reported as non-instantaneous (OCc1602). Observations are highly desired
3113 = HD 202671, 5.40, , Type ACV, Period 1.9917 days, Phase 10%

26 Sep 23 2 22 22.5 r 3113cB5 5.4 5.5V 86+ 137 31 161 -35S 195 211 212
R3113 = 30 Capricorni
3113 is double: ** 6.1 6.1 0.10" 87.0, dT = +0.12sec
3113 has been reported as non-instantaneous (OCc1602). Observations are highly desired
3113 = HD 202671, 5.40, , Type ACV, Period 1.9917 days, Phase 10%

26 Sep 23 5 29 38.9 D 3126 G8 4.3 3.8v 87+ 138 28 211 25N 5 340 22
R3126 = Tae = iota Capricorni
3126 = iot Cap, 4.27, range 0.06, V, Type BY

26 Sep 23 6 19 32.8 r 3126 G8 4.3 3.8v 87+ 138 22 223 -58N 283 249 299
R3126 = Tae = iota Capricorni
3126 = iot Cap, 4.27, range 0.06, V, Type BY

26 Sep 24 5 32 2.1 D 3253kB5 5.4 5.5V 93+ 149 37 203 51N 30 12 49
R3253 = 38 Aquarii
3253 = HD 210424, 5.44, , Type ACV, Period 3.9613 days, Phase 11%

26 Sep 24 6 43 33.3 r 3253kB5 5.4 5.5V 93+ 150 29 222 -86N 252 221 272
R3253 = 38 Aquarii
3253 = HD 210424, 5.44, , Type ACV, Period 3.9613 days, Phase 11%

26 Sep 25 9 34 11.1 d 3385 F8 6.7 6.4 98+ 163 15 251 75S 86 38 107

26 Sep 26 8 16 12.8 D 3508cA5 5.8 5.7 100+ 174 40 231 80S 100 63 122
R3508 = 21 Piscium
3508 is double: ** 6.6 6.6 0.050"

3508 has been reported as non-instantaneous (OCcl648). Observations are highly desired
Distance of 3508 to Terminator = 4.2"; to 3km sunlit peak = 0.0"

26 Sep 28 4 17 50.7 R 197cK0 7.0 6.5 97- 160 43 111 56N 273 320 293
26 Sep 29 11 54 51.4 d 370 A9 6.1 6.0v 91- 144 -4 40 264 -89S 66 11 84
R370 = 26 Arietis (UU)
370 = UU Ari, 6.10 to 6.15, V, Type DSCTC, Period 0.0676 days

26 Sep 29 13 1 15.0 r 370 A9 6.1 6.0v 90- 144 8 27 275 75N 260 204 278
R370 = 26 Arietis (UU)
370 = UU Ari, 6.10 to 6.15, V, Type DSCTC, Period 0.0676 days

26 Sep 30 4 14 20 m 470WK0 6.8 6.2 85- 134 28 82 6N 335 32 350
470 is double: AB 6.9 10.4 42" 33.3
Distance of 470 to Terminator = 4.5"; to 3km sunlit peak = 0.0"

26 Oct 2 11 6 8.5 d 840cK0 6.3 5.5 62- 104 79 173 -60S 116 123 120
840 is double: ** 7.3 7.3 0.050"
840 has been reported as non-instantaneous (OCcl267). Observations are highly desired

26 Oct 2 12 20 59.5 R 840cK0 6.3 5.5 62- 104 0 72 237 70S 247 200 250
840 is double: ** 7.3 7.3 0.050"
840 has been reported as non-instantaneous (OCcl267). Observations are highly desired

26 Oct 3 6 34 19.4 R 994cF5 6.6 6.3 53- 93 22 73 82N 281 337 279
994 is double: ** 6.8 7.7 0.003" 269.0, dT = -0.01sec

26 Oct 4 8 32 51.1 d 1155 F0 6.4 6.2 40- 79 31 83 -85S 105 163 97
26 Oct 4 9 6 8.5 d 1157 A2 6.2 6.2 40- 79 37 87 -61S 129 188 121
26 Oct 4 9 40 13.3 R 1155 F0 6.4 6.2 40- 78 44 93 81S 272 330 263
26 Oct 4 10 7 39.2 R 1157 A2 6.2 6.2 40- 78 49 98 59S 250 308 241
26 Oct 4 12 13 5 M 1170dG8 3.6 3.1 39- 77 -2 71 135 -8N 18 56 10
R1170 = kappa Geminorum
1170 is double: AB 3.7 10.0 7.4" 241.1
1170 is a close double. Observations are highly desired

26 Oct 5 7 42 0.6 R 1277wK3 5.3 4.7 30- 66 10 72 57S 252 304 239
R1277 = eta Cancri
1277 is double: AB 5.3 20.0 164" 280.0, dT = -290sec

26 Oct 5 10 15 3.4 d 1295pK0 6.4 5.9s 29- 65 37 94 -61S 135 191 121
R1295 = 39 Cancri
1295 is multiple: AC 6.5 9.0 134" 309.0, dT = -322sec : AD 6.5 8.8 135" 111.0, dT = +298sec :
AB 6.5 6.6 152" 149.9, dT = +354sec : AS 6.5 10.1 262" 325.7, dT = -621sec
1295 = NSV 4179, 6.39, range 0.04, V

26 Oct 5 10 21 2.9 d 1296pA1 6.6 6.6 29- 65 39 95 -54S 142 198 129
R1296 = 40 Cancri
1296 is quadruple: Ba,Bb 6.6 0.40" 128.0, dT = +1sec : BR 6.6 11.6 140" 146.9,
dT = +365sec : BA 6.6 6.5 152" 329.9, dT = -393sec
1296 is a close double. Observations are highly desired

26 Oct 5 11 11 40.2 d 1305pK0 6.9 6.4 28- 64 48 104 -62S 134 187 120
1305 is double: Ea,Eb 7.2 9.1

26 Oct 5 11 20 27.3 R 1295pK0 6.4 5.9s 28- 64 50 106 68S 264 316 250
R1295 = 39 Cancri
1295 is multiple: AC 6.5 9.0 134" 309.0, dT = -246sec : AD 6.5 8.8 135" 111.0,
dT = +313sec : AB 6.5 6.6 152" 149.9, dT = +159sec : AS 6.5 10.1 262" 325.7, dT = -320sec
1295 = NSV 4179, 6.39, range 0.04, V

26 Oct 5 11 22 34.3 R 1296pA1 6.6 6.6 28- 64 -12 50 107 61S 257 309 243
R1296 = 40 Cancri
1296 is quadruple: Ba,Bb 6.6 0.40" 128.0, dT = +0.7sec : BR 6.6 11.6 140" 146.9,
dT = +135sec : BA 6.6 6.5 152" 329.9, dT = -124sec
1296 is a close double. Observations are highly desired

26 Oct 5 12 23 42.2 r 1305pK0 6.9 6.4 28- 64 0 61 123 76S 272 315 258
1305 is double: Ea,Eb 7.2 9.1

26 Oct 5 17 52 41.7 r 1322kA2 6.4 6.4 26- 62 46 39 263 68N 308 253 294
26 Oct 6 8 19 28.3 D Jupiter -1.7 -1.7 20- 53 3 73 -71N 91 141 73
Jupiter limb contacts offset by ± 30.5 secs, at 8 18 58 and 8 19 59
Both contacts are against the bright limb of Jupiter

26 Oct 6 9 9 2.2 R Europa 6.1 6.1 19- 52 13 81 72N 308 360 290
Europa limb contacts offset by ± 0.7 secs, at 9 9 1.5 and 9 9 2.9
Both contacts are against the bright limb of Europa

26 Oct 6 9 10 59.7 R Callisto 6.4 6.4 19- 52 13 81 72N 307 360 290
Callisto limb contacts offset by ± 1.1 secs, at 9 10 58.6 and 9 11 0.8
Both contacts are against the bright limb of Callisto

26 Oct 6 9 11 42.3 R Io 5.8 5.8 19- 52 13 81 72N 308 360 290
Io limb contacts offset by ± 0.8 secs, at 9 11 41.4 and 9 11 43.1
Both contacts are against the bright limb of Io

26 Oct 6 9 13 59.9 R Jupiter -1.7 -1.7 19- 52 14 81 72N 307 360 290
Jupiter limb contacts offset by ± 32.9 secs, at 9 13 27 and 9 14 33

Both contacts are against the bright limb of Jupiter

26 Oct 6 9 15 47.5 R Ganymede 5.4 5.4 19- 52 14 82 72N 307 360 290
 Ganymede limb contacts offset by ±1.2 secs, at 9 15 46.3 and 9 15 48.7

Both contacts are against the bright limb of Ganymede

26 Oct 6 12 18 41.7 d 1420 F2 6.6 6.4 19- 51 -1 47 114 -43S 157 204 139
 R1420 = 11 Leonis

26 Oct 6 13 20 26.6 r 1420 F2 6.6 6.4 18- 51 11 57 132 65S 264 300 246
 R1420 = 11 Leonis

26 Oct 7 10 29 42 M 1525 M2 5.6 4.8v 11- 39 15 91 5S 206 258 186
 R1525 = 44 Leonis (DE)
 1525 = DE Leo, 5.6, range 0.07, V, Type SRB:

26 Oct 7 10 30 11 Gr 1525 M2 5.6 4.8v 11- 39 16 ** GRAZE: CA 5.2S;
 Dist.116km in az. 358deg. [Lat = 40.10+0.03(E.Long+94.89)]

26 Oct 8 16 2 28.4 d 1652cG8 5.4 4.9 4- 24 37 52 166 -60N 78 89 56
 R1652 = 79 Leonis
 1652 is double: ** 5.9 6.5 0.003" 155.0, dT = 0.00sec

26 Oct 8 16 49 53.2 r 1652cG8 5.4 4.9 4- 24 42 52 186 13N 4 360 342
 R1652 = 79 Leonis
 1652 is double: ** 5.9 6.5 0.003" 155.0, dT = +0.01sec

26 Oct 16 23 26 45.9 d 2660 A3 6.2 6.0 34+ 72 2 22 186 43S 137 131 138

26 Oct 17 0 15 12.9 r 2660 A3 6.2 6.0 34+ 72 -8 21 197 -20S 199 184 201

26 Oct 20 2 32 41.0 D 3069 A* 6.3 6.3v 63+ 105 30 198 50N 33 18 48
 R3069 = 20 Capricorni (AO)
 3069 = AO Cap, 6.25 to 6.30, V, Type ACV, Period 2.2411 days, Phase 83%

26 Oct 20 3 47 21.0 r 3069 A* 6.3 6.3v 64+ 106 23 217 -85N 258 228 273
 R3069 = 20 Capricorni (AO)
 3069 = AO Cap, 6.25 to 6.30, V, Type ACV, Period 2.2411 days, Phase 83%

26 Oct 20 23 47 27.1 D 3181SA7 6.0 5.8 72+ 116 -3 27 141 50N 30 60 47
 R3181 = 45 Capricorni
 3181 is triple: ** 6.7 6.7 0.050" : AB 5.4 9.5 4.3" 229.0, dT = -13sec
 3181 has been reported as non-instantaneous (OCc1610). Observations are highly desired

26 Oct 21 1 2 4.3 r 3181SA7 6.0 5.8 72+ 116 34 161 -75N 265 280 283
 R3181 = 45 Capricorni
 3181 is triple: ** 6.7 6.7 0.050" : AB 5.4 9.5 4.3" 229.0, dT = -11sec
 3181 has been reported as non-instantaneous (OCc1610). Observations are highly desired

26 Oct 21 6 40 14.0 D 3206 F3 5.1 4.9s 74+ 118 9 244 33S 127 81 145
 R3206 = Kuh = mu Capricorni
 3206 = NSV 25781, 5.07, range 0.03, V, Type VAR:

26 Oct 21 6 51 29 Gr 3206 F3 5.1 4.9s 74+ 118 7 ** GRAZE: CA 12.8S;
 Dist.108km in az. 158deg. [Lat = 38.00+0.32(E.Long+94.89)]

26 Oct 22 5 38 16.5 D 3322cG1 6.4 82+ 129 30 228 64N 42 7 63
 3322 is double: AB 6.64 8.11 0.08" 296.3, dT = -0.06sec
 3322 is a close double. Observations are highly desired

26 Oct 23 8 30 9.6 d 3460kG0 6.9 6.6 90+ 143 14 258 53N 32 343 54
 R3460 = 12 Piscium

26 Oct 27 7 14 30.8 R 438cA3 6.8 98- 164 72 193 38S 184 173 201
 438 is double: AB 7.47 7.45 0.54" 279.5, dT = +0.23sec
 438 is a close double. Observations are highly desired
 Distance of 438 to Terminator = 13.7"; to 3km sunlit peak = 4.2"

26 Oct 28 0 24 0.2 r 545SB6 4.1 4.2v 95- 154 1 59 31S 190 237 202
 R545 = Merope = 23 Tauri
 545 is quadruple: Aa,Ab 4.1 8.1 0.30" 111.0, dT = -0.19sec : AB 4.2 14.4 110" 180.3,
 dT = -343sec : AC 4.2 12.9 147" 336.0, dT = +388sec
 545 is a close double. Observations are highly desired
 545 = V0971 Tau, 4.18, range 0.01, 1Kp, Type SPB|LERI, Period 0.4881 days

26 Oct 28 0 31 46.5 r 541SB8 3.9 3.9s 95- 154 3 60 42N 297 345 309
 R541 = Maia = 20 Tauri
 541 is quadruple: Aa,Ab 4.4 5.4 : AB 3.8 13.7 113" 72.6, dT = +165sec :
 AB 3.8 13.7 113" 72.7, dT = +166sec
 541 = NSV 1279, 3.87, range 0.00, 4Kp, Type ACV, Period 10.288 days

26 Oct 28 0 56 40.0 r 549SA0 6.3 6.3 95- 154 7 64 59S 218 268 230
 R549 = 24 Tauri
 549 is multiple: AB 109.9, dT = -5sec : 6.7 7.8 : BD 6.3 8.7 75"
 305.1,
 dT = -6sec : BC 6.3 8.2 86" 345.1, dT = +94sec

26 Oct 28 0 57 36.1 R 552SB7 2.9 2.9s 95- 154 7 64 53S 212 263 225
 R552 = Alcyone = eta Tauri
 552 is multiple: Aa,Ab 3.0 4.6 : AB 1.6 0.031" 207.1, dT = -0.06sec :
 AE 2.8 15.0 78" 232.5, dT = -141sec : AB 2.8 6.3 118" 291.1, dT = -44sec
 552 is a close double. Observations are highly desired

552 = NSV 15775, 2.87, range 0.00, 1Kp, Type ROT+SPB, Period 2.2925 days

26 Oct 28 1 8 28.0 r 553pA0 6.8 6.8e 95- 154 9 66 87N 252 303 264
553 is double: AB 6.8 15.5 95" 16.7, dT = +83sec
553 = V1229 Tau, 6.83 to 6.94, V, Type EA, Period 2.46113408 days, Phase 48%

26 Oct 28 1 17 54.1 r 561SB7 5.1 5.1V 95- 154 10 67 15S 175 226 187
R561 = Pleione = 28 BU Tauri
561 is multiple: Aa,Ab 5.1 0.20" 55.0, dT = +0.7sec : AF 5.0 14.5 4.7" 221.0,
dT = -21sec : AE 5.1 14.8 96" 76.7, dT = +87sec : AD 5.1 14.7 144" 65.9, dT = +306sec
561 is a close double. Observations are highly desired
561 = BU Tau, 4.83 to 5.38, V, Type GCAS+LERI|S, Period 12630. days, Phase 54%
Distance of 561 to Terminator = 8.1"; to 3km sunlit peak = 0.5"

26 Oct 28 1 30 5.2 r 557pA1 7.0 6.9 95- 153 12 69 88S 247 300 260
557 is quadruple: Aa,Ab 7.2 8.5 0.20" 239.0, dT = -0.31sec : Aa,Ab 7.2 8.5 0.20" 239.0,
dT = -0.31sec : AB 7.0 15.0 72" 217.0, dT = -96sec
557 is a close double. Observations are highly desired

26 Oct 28 1 48 7.0 r 562pB9 6.6 6.6 95- 153 16 71 81S 241 295 253
562 is multiple: Aa,Ab 7.3 7.4 5.3" : AB 6.6 7.5 87" 309.1,
dT = -51sec : AE 6.6 13.8 115" 82.8,
dT = +171sec : AG 6.6 15.1 158" 212.2, dT = -223sec
562 is a close double. Observations are highly desired

26 Oct 29 8 54 42.7 R 773wF8 7.0 6.7 86- 136 79 173 56N 294 300 300
773 is double: AB 7.0 9.3 315" 353.1, dT = -452sec

26 Oct 30 8 28 48.5 d 958cK1 6.7 6.1 77- 123 67 113 -89N 88 142 87
958 is double: ** 7.5 7.5 0.050"
958 has been reported as non-instantaneous (OCc1307). Observations are highly desired

26 Oct 30 9 48 46.9 R 958cK1 6.7 6.1 77- 122 78 163 79N 281 295 279
958 is double: ** 7.5 7.5 0.050"
958 has been reported as non-instantaneous (OCc1307). Observations are highly desired

26 Oct 31 8 50 51.2 d 1117cG8 5.0 4.6 66- 109 58 106 -81N 88 143 81
R1117 = 57 Geminorum
1117 is double: ** 5.9 5.9 0.10" 90.0, dT = +0.24sec
1117 has been reported as non-instantaneous (OCc1358). Observations are highly desired

26 Oct 31 10 7 26.8 R 1117cG8 5.0 4.6 66- 108 71 134 69N 298 336 291
R1117 = 57 Geminorum
1117 is double: ** 5.9 5.9 0.10" 90.0, dT = +0.22sec
1117 has been reported as non-instantaneous (OCc1358). Observations are highly desired

26 Nov 1 14 30 36.1 d 1277wK3 5.3 4.7 53- 94 17 55 249 -36N 50 359 37
R1277 = eta Cancri
1277 is double: AB 5.3 20.0 164" 280.0, dT = -704sec

26 Nov 1 14 39 41 Gr 1277wK3 5.3 4.7 53- 93 18 52 ** GRAZE: CA-16.1N;
Dist.117km in az. 45deg. [Lat = 40.56-0.79(E.Long+94.89)]

26 Nov 1 14 53 32.9 r 1277wK3 5.3 4.7 53- 93 21 50 254 3N 12 319 359
R1277 = eta Cancri
1277 is double: AB 5.3 20.0 164" 280.0, dT = +29sec

26 Nov 1 16 58 49.4 r 1282 G0 6.6 6.2 52- 92 34 26 275 62S 256 201 243
R1282 = 35 Cancri

26 Nov 3 17 3 5.9 r 1516 K5 6.6 5.8s 30- 67 34 38 248 8N 13 326 353
1516 = NSV 18388, 6.72 to 6.81, Hp, Type IB

26 Nov 7 18 24 8.5 r 1944SK1 5.5 4.9 3- 18 34 31 208 86S 271 249 250
R1944 = 75 Virginis
1944 is triple: AC 5.7 13.5 17.1" 323.6, dT = -33sec : AB 5.7 13.0 86" 107.7, dT = +260sec

26 Nov 15 3 7 57.2 d 2907SK3 6.2 5.7v 28+ 63 1 238 49S 122 76 131
2907 is triple: AC 6.3 16.0 42" 108.0, dT = +169sec : AB 6.3 10.7 48" 23.4, dT = -29sec
2907 = V4200 Sgr, 6.18, range 0.07, V, Type BY, Period 3.24738 days, Phase 47%

26 Nov 16 20 43 48.7 d 3126 G8 4.3 3.8v 44+ 83 21 18 131 62N 45 83 61
R3126 = Tae = iota Capricorni
3126 = iot Cap, 4.27, range 0.06, V, Type BY

26 Nov 16 22 2 47.7 r 3126 G8 4.3 3.8v 45+ 84 10 28 148 -81N 261 287 278
R3126 = Tae = iota Capricorni
3126 = iot Cap, 4.27, range 0.06, V, Type BY

26 Nov 17 22 11 20.1 d 3253kB5 5.4 5.5V 54+ 95 8 28 137 81N 60 93 79
R3253 = 38 Aquarii
3253 = HD 210424, 5.44, , Type ACV, Period 3.9613 days, Phase 93%

26 Nov 17 23 34 29.5 r 3253kB5 5.4 5.5V 55+ 95 -6 37 159 -72S 231 248 250
R3253 = 38 Aquarii
3253 = HD 210424, 5.44, , Type ACV, Period 3.9613 days, Phase 93%

26 Nov 19 2 50 24.8 D 3380cK0 5.9 5.4 66+ 108 43 208 51N 28 7 50
3380 is double: ** 7.0 7.0 0.10" 90.0, dT = +0.13sec
3380 has been reported as non-instantaneous (OCc1633). Observations are highly desired

26 Nov 19 4 2 12.4 r 3380cK0 5.9 5.4 66+ 109 34 228 -85N 253 217 274

3380 is double: ** 7.0 7.0 0.10" 90.0, dT = +0.25sec
3380 has been reported as non-instantaneous (OCc1633). Observations are highly desired

26 Nov 20 6 11 49.3 D 3515cA1 6.3 6.3 76+ 121 25 251 90S 68 21 91
R3515 = 25 Piscium
3515 is double: ** 7.0 7.0 0.050"
3515 has been reported as non-instantaneous (OCc1650). Observations are highly desired

26 Nov 21 0 31 33 gr 68SB9 5.8 S 83+ 132 45 126 -17N 322 2 344
R68 = 51 Piscium
68 is multiple: Aa,Ac 5.8 9.5 0.20" : Aa,Ab 5.8 8.0 0.28" 283.8 :
AB 5.7 9.5 28.5" 81.5 : AD 5.7 13.1 82" 307.6
68 is a close double. Observations are highly desired
68 = NSV 15113, 5.67 to 9.0, V, Type E:

26 Nov 21 0 31 42 Gr 68SB9 5.8 S 83+ 132 45 ** GRAZE: CA-17.3N;
Dist. 6km in az. 308deg. [Lat = 39.14+1.00(E.Long+94.89)]

26 Nov 21 22 56 31.7 d 197cK0 7.0 6.5 90+ 144 0 23 92 41N 24 77 45
26 Nov 22 7 30 50.0 D 233cB9 6.2 6.3 92+ 147 36 259 62N 48 355 68
R233 = 101 Piscium

26 Nov 23 6 24 16.0 D 370 A9 6.1 6.0v 97+ 160 61 237 55N 49 6 68
R370 = 26 Arietis (UU)
370 = UU Ari, 6.10 to 6.15, V, Type DSCTC, Period 0.0676 days

26 Nov 24 12 0 56.5 d 536pB7 5.5 5.5 100+ 175 13 291 78N 126 73 139
R536 = Celaeno = 16 Tauri
536 is triple: AB 5.4 13.2 89" 264.5, dT = -140sec : AC 5.4 11.5 218" 196.1, dT = +153sec
Distance of 536 to Terminator = 3.7"; to 3km sunlit peak = 0.0"

26 Nov 24 12 4 52.7 d 539SB6 4.3 4.4s 100+ 175 13 291 39N 87 34 100
R539 = Taygeta = 19 Tauri
539 is multiple: Aa,Ab 4.6 6.1 : AB 0.069" 86.1, dT = +0.11sec :
AC 4.3 14.0 53" 53.4, dT = +70sec : AB 4.3 11.0 72" 328.8, dT = -56sec
539 is a close double. Observations are highly desired
539 = NSV 1264, 4.30, range 0.00, 1Kp, Type SPB, Period 1.5664 days
Distance of 539 to Terminator = 1.6"; to 3km sunlit peak = 0.0"

26 Nov 24 12 19 59.2 D 541SB8 3.9 3.9s 100+ 175 -10 10 293 61N 111 59 124
R541 = Maia = 20 Tauri
541 is quadruple: Aa,Ab 4.4 5.4 : AB 3.8 13.7 113" 72.6,
dT = +154sec : AB 3.8 13.7 113" 72.7, dT = +154sec
541 = NSV 1279, 3.87, range 0.00, 4Kp, Type ACV, Period 10.288 days
Distance of 541 to Terminator = 2.9"; to 3km sunlit peak = 0.0"

26 Nov 25 0 2 18.3 r 647WB9 5.4 5.4s 100- 173 11 66 79N 238 289 247
R647 = chi Tauri
647 is double: AB 5.4 8.5 19.4" 24.9, dT = +26sec
647 = NSV 15957, 5.34 to 5.39, Hp
Distance of 647 to Terminator = 7.3"; to 3km sunlit peak = 0.5"

26 Nov 26 2 26 12.2 R X 75950 6.6 6.6S 96- 158 25 75 51S 219 276 222
X 75950 = NSV 2426, 3.5 to 5.78, B

26 Nov 26 2 26 12.4 R 844SB9 5.8 S 96- 158 25 75 51S 219 277 222
844 is triple: AB 6.54 6.55 1.19" 317.4, dT = +0.39sec : AC 6.5 10.5 182" 298.4, dT = -77sec
844 is a close double. Observations are highly desired
844 = NSV 2426, 3.5 to 5.78, B

26 Nov 26 9 33 48 m 890cA0 4.6 4.6s 95- 155 66 249 -18N 9 313 10
R890 = 136 Tauri
890 is double: ** 4.8 6.3 0.050" 270.0
890 has been reported as non-instantaneous (OCc 206). Observations are highly desired
890 = NSV 2696, 4.50 to 4.61, V

26 Nov 27 4 52 22.4 R 1046cF8 7.0 6.7 90- 143 39 87 28S 210 269 205
1046 is double: ** 7.8 7.8 0.10" 57.0, dT = +0.38sec
1046 has been reported as non-instantaneous (OCc 780). Observations are highly desired

26 Nov 27 8 4 10.4 d 1061SF8 6.2 5.9s 89- 142 73 136 -31N 32 69 28
R1061 = 39 Geminorum
1061 is triple: Aa,Ab 6.1 0.50" 158.0, dT = -1.9sec : AB 6.1 12.1 35" 69.2, dT = +184sec
1061 is a close double. Observations are highly desired
1061 = NSV 17256, 6.1, range 0.02, V, Type VAR:

26 Nov 27 8 8 53.9 d 1062cB8 6.4 6.5 89- 141 74 139 -72N 74 109 70
R1062 = 40 Geminorum
1062 is double: AB 6.4 0.10" 160.5, dT = +0.02sec
1062 is a close double. Observations are highly desired

26 Nov 27 8 17 23 Gr 1061SF8 6.2 5.9s 89- 141 75 ** GRAZE: CA-10.3N;
Dist. 111km in az. 9deg. [Lat = 40.07-0.12(E.Long+94.89)]

26 Nov 27 8 31 6.7 R 1061SF8 6.2 5.9s 89- 141 76 157 10N 353 12 348
R1061 = 39 Geminorum

1061 is triple: Aa,Ab 6.1 0.50" 158.0, dT = +3sec : AB 6.1 12.1 35" 69.2, dT = -53sec
 1061 is a close double. Observations are highly desired
 1061 = NSV 17256, 6.1, range 0.02, V, Type VAR:
 Distance of 1061 to Terminator = 8.1"; to 3km sunlit peak = 0.0"

26 Nov 27 9 17 37.1 R 1062cB8 6.4 6.5 89- 141 76 201 49N 314 295 309
 R1062 = 40 Geminorum
 1062 is double: AB 6.4 0.10" 160.5, dT = +0.23sec
 1062 is a close double. Observations are highly desired

26 Nov 28 9 29 47.7 R 1215 K0 6.8 6.2 80- 127 72 160 37S 228 244 217
 R1215 = 7 Cancri

26 Nov 28 11 36 23 Gr 1224cG2 5.3 5.0 80- 126 61 ** GRAZE: CA 16.1S;
 Dist.171km in az. 38deg. [Lat = 41.02-0.61(E.Long+94.89)]

26 Nov 28 11 39 43 M 1224cG2 5.3 5.0 80- 126 62 238 17S 208 162 197
 R1224 = mu Cancri
 1224 is double: ** 5.4 7.8 0.53" 301.8
 1224 has been reported as non-instantaneous (OCc1849). Observations are highly desired

26 Nov 29 6 20 1.9 d 1343 M4 6.3 5.5v 71- 115 29 90 -49N 65 120 50
 1343 = FZ Cnc, 6.28 to 6.38, Hp, Type SRB, Period 17.6 days

26 Nov 29 7 7 34.3 R 1343 M4 6.3 5.5v 71- 114 38 97 42N 334 29 319
 1343 = FZ Cnc, 6.28 to 6.38, Hp, Type SRB, Period 17.6 days

26 Nov 30 15 53 24.2 d 1486dK4 4.4 3.6 57- 98 22 29 259 -78S 123 72 104
 R1486 = 31 Leonis = A Leonis
 1486 is double: AB 4.4 13.6 8.1" 40.9, dT = +2.3sec
 1486 is a close double. Observations are highly desired

26 Nov 30 16 54 6.4 r 1486dK4 4.4 3.6 56- 97 27 17 269 79N 302 250 283
 R1486 = 31 Leonis = A Leonis
 1486 is double: AB 4.4 13.6 8.1" 40.9, dT = +2.3sec
 1486 is a close double. Observations are highly desired

26 Dec 2 9 50 37.3 D 1685cG9 4.3 3.8 37- 75 29 118 -56S 146 190 124
 R1685 = epsilon Leonis
 1685 is double: ** 4.5 9.0 0.10" 195.0, dT = +0.16sec
 1685 has been reported as non-instantaneous (OCc1427). Observations are highly desired

26 Dec 2 10 59 30.0 R 1685cG9 4.3 3.8 37- 75 40 134 85S 287 321 265
 R1685 = epsilon Leonis
 1685 is double: ** 4.5 9.0 0.10" 195.0, dT = +0.01sec
 1685 has been reported as non-instantaneous (OCc1427). Observations are highly desired

26 Dec 12 1 0 51.4 D 2861cA1 5.6 5.5v 8+ 32 1 237 85S 90 45 98
 R2861 = 51 Sagittarii
 2861 is double: ** 5.9 7.9
 2861 = V5548 Sgr, 5.82, range 0.04, B, Type DSCTC:, Period 0.11340 days

26 Dec 14 20 45 55 m 3206 F3 5.1 4.9s 28+ 63 18 31 147 14S 147 173 165
 R3206 = Kuh = mu Capricorni
 3206 = NSV 25781, 5.07, range 0.03, V, Type VAR:

26 Dec 15 20 37 23.1 d 3322cG1 6.4 37+ 74 19 30 131 86N 64 100 85
 3322 is double: AB 6.64 8.11 0.08" 297.0, dT = -0.13sec
 3322 is a close double. Observations are highly desired

26 Dec 16 0 49 33.8 D 3334 A0 6.4 6.4 38+ 76 40 208 86S 72 50 92
 R3334 = 67 Aquarii

26 Dec 16 2 2 58.9 r 3334 A0 6.4 6.4 38+ 76 31 228 -52S 209 174 230
 R3334 = 67 Aquarii

26 Dec 17 1 58 19.7 D 3460kG0 6.9 6.6 48+ 88 43 219 51S 106 76 128
 R3460 = 12 Piscium

26 Dec 19 7 12 7.2 d 177 F5 6.9 6.6 70+ 114 13 275 70N 49 357 71

26 Dec 20 8 30 6.7 d 311cA3 6.6 6.5e 80+ 127 12 284 48N 31 339 51
 311 is double: 6.7 9.1
 311 = HIP 9924, 6.612, range 0.04, 7w, Type E, Period 2.575 days, Phase 32%

26 Dec 21 21 52 47.4 D 552SB7 2.9 2.9s 93+ 150 10 12 69 27S 148 200 160
 R552 = Alcyone = eta Tauri
 552 is multiple: Aa,Ab 3.0 4.6 : AB 1.6 0.031" 207.1,
 dT = +0.1sec : AE 2.8 15.0 78" 232.5, dT = +45sec : AB 2.8 6.3 118" 291.1, dT = -612sec
 552 is a close double. Observations are highly desired
 552 = NSV 15775, 2.87, range 0.00, 1Kp, Type ROT+SPB, Period 2.2925 days

26 Dec 21 21 57 9.8 r 541SB8 3.9 3.9s 93+ 150 9 14 69 -82N 273 326 286
 R541 = Maia = 20 Tauri
 541 is quadruple: Aa,Ab 4.4 5.4 : AB 3.8 13.7 113" 72.6,
 dT = +176sec : AB 3.8 13.7 113" 72.7, dT = +177sec
 541 = NSV 1279, 3.87, range 0.00, 4Kp, Type ACV, Period 10.288 days

26 Dec 21 21 57 21 Gr 552SB7 2.9 2.9s 93+ 150 10 14 ** GRAZE: CA 14.0S;
 Dist. 81km in az. 141deg. [Lat = 38.12+0.64(E.Long+94.89)]
 Distance of 552 to Terminator = 13.0"; to 3km sunlit peak = 3.1"

26 Dec 21 22 4 27.2 r 552SB7 2.9 2.9s 93+ 150 8 14 70 0S 175 228 187
R552 = Alcyone = eta Tauri
552 is multiple: Aa,Ab 3.0 4.6 : AB 1.6 0.031" 207.1,
dT = -0.17sec : AE 2.8 15.0 78" 232.5, dT = -274sec : AB 2.8 6.3 118" 291.1, dT = +345sec
552 is a close double. Observations are highly desired
552 = NSV 15775, 2.87, range 0.00, 1Kp, Type ROT+SPB, Period 2.2925 days
Distance of 552 to Terminator = 0.0"; to 3km sunlit peak = 0.0"

26 Dec 23 0 53 15.1 D 750SG2 6.9 98+ 165 34 82 38S 152 212 159
750 is triple: AB 7.07 9.01 0.19" 239.0, dT = +0.08sec : AB,C 6.8 8.3 78" 159.0, dT =
+535sec
750 has been reported as non-instantaneous (S 461). Observations are highly desired
Distance of 750 to Terminator = 11.7"; to 3km sunlit peak = 3.0"

26 Dec 23 0 59 50 Gr 750SG2 6.9 98+ 166 37 ** GRAZE: CA 23.6S;
Dist. 70km in az. 144deg. [Lat = 38.28+0.57(E.Long+94.89)]
Distance of 750 to Terminator = 6.2"; to 3km sunlit peak = 0.0"

26 Dec 25 11 38 59.3 d 1161 K5 5.9 5.1 97- 160 38 270 -19S 166 108 157
26 Dec 25 12 15 20.5 R 1161 K5 5.9 5.1 97- 160 31 275 57S 242 185 233
26 Dec 26 7 44 9.0 R 1282 G0 6.6 6.2 92- 148 67 146 62S 255 283 242
R1282 = 35 Cancri

26 Dec 26 9 12 52.9 R 1287kA5 6.7 6.6 92- 147 69 203 59S 253 234 239
26 Dec 26 10 19 58.1 R 1297pA9 6.8 6.6S 92- 147 61 234 36N 338 296 324
1297 is double: AB 6.8 8.5 0.016" 342.8, dT = -0.04sec
1297 is a close double. Observations are highly desired
1297 = NSV 17953, 6.78, , Type DSCT:

26 Dec 27 12 15 57.2 R 1427 F8 7.0 6.7 83- 132 46 244 83N 297 251 279
26 Dec 28 4 17 35.7 r 1516 K5 6.6 5.8s 76- 122 6 83 16N 6 57 346
1516 = NSV 18388, 6.72 to 6.81, Hp, Type IB

26 Dec 28 11 42 7.9 d 1549cG8 5.1 4.6v 74- 119 54 212 -41N 64 39 44
R1549 = 48 Leonis
1549 is double: ** 6.0 6.0 0.10" 90.0, dT = +0.49sec
1549 has been reported as non-instantaneous (OCc 197). Observations are highly desired
1549 = HIP 51775, 5.07, range 0.00, 4V, Type VAR, Period 0.09302 days

26 Dec 28 12 13 46.8 R 1549cG8 5.1 4.6v 74- 119 50 224 9N 14 341 353
R1549 = 48 Leonis
1549 is double: ** 6.0 6.0 0.10" 90.0, dT = -0.12sec
1549 has been reported as non-instantaneous (OCc 197). Observations are highly desired
1549 = HIP 51775, 5.07, range 0.00, 4V, Type VAR, Period 0.09302 days

26 Dec 29 5 27 39.9 r 1624PF2 6.8 6.5 66- 108 6 92 63N 321 12 299
1624 is double: AB 6.8 16.2 85.0, dT = 0.00sec

26 Dec 29 6 37 18 Gr 1635cM0 5.2 4.4 65- 108 20 ** GRAZE: CA -7.2N;
Dist.157km in az. 191deg. [Lat = 37.62-0.14(E.Long+94.89)]

26 Dec 29 6 37 34 m 1635cM0 5.2 4.4 65- 108 19 103 -7N 31 80 9
R1635 = 75 Leonis
1635 is double: ** 5.8 6.6 0.044" 0.0
1635 has been reported as non-instantaneous (OCc 763). Observations are highly desired

26 Dec 29 7 21 0.8 d 1637 K0 5.9 5.4 65- 107 26 111 -49N 73 120 51
R1637 = 76 Leonis

26 Dec 29 8 4 2.7 R 1637 K0 5.9 5.4 65- 107 34 120 29N 355 38 334
R1637 = 76 Leonis

26 Dec 29 11 56 42 M 1649 K3 6.1 5.3 64- 106 50 197 16S 220 207 199