

OCCULTATION PREDICTIONS FOR BONNER SPRINGS KANSAS

E. Longitude - 94 53.5, Latitude 39 3.4, Alt. 250m; Telescope dia 15cm; dMag 1.0
Events excluded: Daytime

day	Time	P	Star	Sp	Mag	Mag	%	Elon	Sun	Moon	CA	PA	VA	AA				
y	m	d	h	m	s	No	D	v	r	V	ill	Alt	Alt	Az	o	o	o	o
18	Jan	1	0	26	6.8	d	94784	F2	8.1*	7.8	98+	165	24	85	46S	116	171	117
Distance of 94784 to Terminator = 17.5"; to 3km sunlit peak = 6.9"																		
18	Jan	1	0	30	59.5	d	862	K0	7.3*	6.6	98+	165	25	85	72N	53	108	54
18	Jan	1	0	39	31.2	d	863	B9	6.7*	6.7	98+	165	27	87	78N	59	114	60
R863 = 127 Tauri																		
18	Jan	1	1	11	21.0	d	94814	A0	7.7*	7.6	98+	165	33	91	58S	103	159	104
18	Jan	1	2	1	54.6	d	94839c	B9	7.5	7.5	98+	165	42	100	26S	136	190	136
94839 is double: ** 7.6 10.2 0.050" 246.0, dT = -0.06sec																		
94839 has been reported as non-instantaneous (OCc1026). Observations are highly desired																		
Distance of 94839 to Terminator = 5.8"; to 3km sunlit peak = 0.0"																		
18	Jan	1	2	5	13.9	d	94840SF2	7.7	7.4	98+	165	43	100	42S	120	174	120	
94840 is triple: AB 7.7 10.9 4.2" 20.0, dT = -1.9sec : AC 7.7 12.5 9.4" 235.0, dT = -10sec																		
94840 is a close double. Observations are highly desired																		
Distance of 94840 to Terminator = 13.5"; to 3km sunlit peak = 4.1"																		
18	Jan	1	4	0	24.5	d	884cA5	8.4*	8.1	99+	166	63	130	69S	93	132	93	
18	Jan	1	5	15	44.6	d	94943	A0	7.9*	7.6	99+	167	70	170	48S	113	121	113
Distance of 94943 to Terminator = 13.8"; to 3km sunlit peak = 4.4"																		
18	Jan	1	5	18	53.7	d	94934c	B9	7.3*	7.3s	99+	167	71	173	43N	25	31	24
94934 = NSV 16706, 7.34, range 0.02, V																		
Distance of 94934 to Terminator = 11.8"; to 3km sunlit peak = 3.1"																		
18	Jan	1	7	12	18.6	d	95001c	B9	8.1*	8.1	99+	168	61	235	81S	80	38	79
18	Jan	1	7	47	46.6	d	95031	B9	7.9*	7.9	99+	168	55	245	46S	114	66	114
Distance of 95031 to Terminator = 11.0"; to 3km sunlit peak = 2.6"																		
18	Jan	1	9	41	0.6	d	95119	A0	7.5	7.4e	99+	169	35	268	90N	69	13	68
95119 = V1385 Ori, 7.43 to 7.64, V, Type EB, Period 2.237955 days, Phase 4 %																		
18	Jan	3	4	35	12.2	r	1202	A0	7.1	7.1	98-	164	47	105	63N	315	8	302
18	Jan	3	6	27	42.5	R	1217	B9	6.2	6.2	98-	163	65	140	29N	349	21	335
Distance of 1217 to Terminator = 10.2"; to 3km sunlit peak = 1.9"																		
18	Jan	4	7	54	17.3	r	98393	K0	8.9	8.3	93-	148	65	156	46S	244	263	225
18	Jan	4	7	56	49.5	r	98397c	A2	8.8	8.7	93-	148	66	157	73N	305	323	286
98397 is double: AB 9.8 9.8 0.42" 172.4, dT = +0.7sec																		
98397 is a close double. Observations are highly desired																		
18	Jan	5	6	28	6.0	r	1481	A5	7.4	7.3	85-	135	42	111	68N	312	360	290
18	Jan	5	9	38	3.2	r	98990	K5	7.8	6.9	85-	134	63	183	50S	250	247	227
18	Jan	5	10	52	44	r	99015	F8	8.7	8.4	84-	134	58	218	13S	213	184	191
18	Jan	5	11	53	56.0	r	1501	G5	7.2	6.7	84-	133	49	238	58S	258	216	236
18	Jan	6	10	24	19.5	r	118682	K0	8.2	7.6	75-	120	59	180	34S	236	236	211
18	Jan	6	11	16	3.3	r	118702	K5	7.5	6.6s	75-	120	57	203	26N	356	338	332
118702 = NSV 18681, 7.56 to 7.62, Hp																		
18	Jan	7	6	25	3.7	r	119107	K0	8.3	7.7	66-	109	17	99	77S	279	329	254
18	Jan	7	7	17	10.4	r	119122k	A2	8.6	8.4	66-	109	27	108	56N	327	15	302
*** A light curve is desired as 119122 is in the Kepler2 program {ID = 201724878}																		
18	Jan	7	8	24	2.1	d	1733dA1	5.4	5.4	66-	108	38	122	-65N	87	129	63	
R1733 = 7 Virginis																		
1733 is double: AB 5.3 14.5 3.2" 218.0, dT = -6sec																		
1733 is a close double. Observations are highly desired																		
18	Jan	7	8	34	51.5	R	1728kM4	6.7	5.9s	66-	108	40	125	39S	241	281	217	
*** A light curve is desired as 1728 is in the Kepler2 program {ID = 201690697}																		
1728 = NSV 19065, 6.67 to 6.76, V																		
18	Jan	7	9	31	38.1	R	1733dA1	5.4	5.4	65-	108	48	140	57N	326	355	301	
R1733 = 7 Virginis																		
1733 is double: AB 5.3 14.5 3.2" 218.0, dT = +2.8sec																		
1733 is a close double. Observations are highly desired																		
18	Jan	7	9	53	25.6	r	119169k	F5	7.8	7.5	65-	108	50	147	16N	6	31	341
*** A light curve is desired as 119169 is in the Kepler2 program {ID = 201699550}																		
18	Jan	7	12	19	26	r	119204	K2	7.9	7.1	65-	107	51	206	7N	16	356	351
18	Jan	8	7	32	53.4	r	138961	K0	8.3	7.8	56-	96	18	106	46S	249	297	225
18	Jan	8	7	38	3.2	r	138962c	K2	8.3	7.8	56-	96	19	107	86S	288	336	264
138962 is double: ** 9.2 9.2 0.10" 181.0, dT = +0.06sec																		
138962 has been reported as non-instantaneous (OCc 666). Observations are highly desired																		
18	Jan	10	11	1	11	M	2072	K0	6.6	5.9	34-	72	30	137	8S	208	240	189
18	Jan	11	11	1	11.6	r	2184c	A3	7.3	7.1e	25-	61	21	129	23N	355	33	340
R2184 = ES Librae																		
2184 is double: AB 7.0 0.20" 152.6, dT = +0.9sec																		
2184 is a close double. Observations are highly desired																		
2184 = ES Lib, 7.1 to 7.57, V, Type EB/KE, Period 0.883042 days, Phase 21 %																		
18	Jan	11	11	21	42.1	r	159140c	A7	8.0	7.9	25-	61	24	133	77N	301	336	286
159140 is double: ** 8.8 8.8 0.36" 324.0, dT = -0.9sec																		
159140 has been reported as non-instantaneous (OCc1019). Observations are highly desired																		

18 Jan 12 12 6 19.8 r 159702kA6 8.1 7.9 17- 49 22 135 13N 2 37 351
 *** A light curve is desired as 159702 is in the Kepler2 program {ID = 205643210}

18 Jan 14 12 33 8.9 r 2552 K2 8.8 8.0 6- 27 9 125 57S 244 287 244
 18 Jan 20 0 54 54.9 D 3268 K1 5.3 4.8 7+ 32 11 243 78S 84 39 107
 R3268 = 42 Aquarii

18 Jan 21 2 10 36.6 d 146511kG5 9.0 8.7 14+ 43 9 251 40N 20 332 44
 *** A light curve is desired as 146511 is in the Kepler2 program {ID = 246028798}

18 Jan 21 2 22 4.4 d 3395 K2 8.0 7.4 14+ 44 7 253 77N 57 8 81
 18 Jan 22 2 23 27.6 d 146980 G5 8.0 7.4 21+ 55 17 249 62S 98 51 122
 18 Jan 22 2 26 11.9 d 3521 K0 7.8 7.1 21+ 55 17 249 62N 41 354 66
 18 Jan 23 2 0 17.9 d 91 K0 8.6 8.0 30+ 67 32 239 48N 27 345 51
 18 Jan 24 1 53 50 d 109952 K0 7.4 6.6 40+ 79 43 230 19S 140 104 163
 18 Jan 24 2 28 4.5 d 109954 K2 8.5 7.7 41+ 79 39 239 27N 6 324 28
 18 Jan 24 2 52 41.2 d 109982 F5 8.2 7.9 41+ 79 34 244 85S 75 30 97
 18 Jan 24 4 11 1.8 d 236DK0 8.0 7.3 41+ 80 21 259 76S 84 34 106
 236 is double: AB 8.0 11.6 5.3" 198.0, dT = -5sec
 236 is a close double. Observations are highly desired

18 Jan 25 0 23 17 m 346 A5 7.3 7.1 51+ 91 -10 59 179 8S 153 153 172
 18 Jan 25 1 53 33.8 d 110502 F0 7.6* 7.4 51+ 91 54 219 11N 352 323 11
 18 Jan 25 4 47 31 m 364 B9 4.3 4.3 52+ 93 25 260 -1S 162 111 181
 R364 = xi 2 Ceti

18 Jan 25 4 48 57.8 d 110556 G5 8.4 7.7 52+ 93 25 261 78S 83 32 102
 18 Jan 25 5 20 20.4 d 110566 A5 7.0 6.8 52+ 93 20 266 63N 44 353 63
 18 Jan 25 5 29 50.0 d 110576 K0 8.6 8.0 53+ 93 18 267 80S 82 30 100
 18 Jan 26 2 25 0.4 d 479 K5 8.2 7.2 63+ 105 60 214 80S 84 57 98
 18 Jan 26 2 41 57.6 d 93383 K2 8.7 8.0 63+ 105 58 221 72N 56 24 70
 18 Jan 26 3 39 49 d 93398 F5 7.3 7.1 63+ 105 49 239 9S 155 112 170
 18 Jan 26 5 29 42.3 D 491cK0 6.0 5.4 64+ 106 30 262 30S 134 82 148
 491 is double: ** 6.8 6.8 0.10" 159.0, dT = +0.35sec
 491 has been reported as non-instantaneous (OCc1020). Observations are highly desired

18 Jan 27 3 12 31 d 627 K1 6.6 6.0 74+ 118 64 215 5N 353 325 2
 Distance of 627 to Terminator = 13.8"; to 3km sunlit peak = 0.0"

18 Jan 27 6 37 35.2 d 93909dG0 8.2 8.0 75+ 120 30 268 71N 59 4 67
 93909 is double: AB 6.8 11.4 2.1" 257.0, dT = -4sec
 93909 is a close double. Observations are highly desired

18 Jan 27 6 39 57.0 d 93911 G 8.6 8.4 75+ 120 29 268 66N 54 359 62
 18 Jan 27 8 24 0.9 D 667cK2 5.0* 4.4 75+ 120 10 283 81S 87 35 95
 R667 = 75 Tauri

667 is double: AB 5.0 30.0, dT = 0.00sec

18 Jan 28 1 57 32.3 d X 73437S 8.3 8.2 83+ 131 64 138 66N 58 91 61
 X 73437 is triple: Ba,Bb 8.5 11.0 0.70" 160.9, dT = -0.39sec : BA 8.3 7.7 2.3" 335.7, dT = +0.8sec
 X 73437 is a close double. Observations are highly desired

18 Jan 28 1 57 34.0 d 787DB3 7.1 7.1 83+ 131 64 138 66N 58 91 61
 787 is double: AB 7.7 8.3 2.3" 155.7, dT = -0.8sec
 787 is a close double. Observations are highly desired

18 Jan 28 4 8 53 d 94462 F5 8.2 7.7 84+ 132 66 216 13S 159 131 162
 18 Jan 28 5 33 11.1 d 94503 K5 8.7* 8.0 84+ 133 54 246 48N 40 351 43
 18 Jan 28 5 41 52.9 d 94510 K5 7.3* 6.4 84+ 133 52 248 85N 77 27 80
 18 Jan 28 7 38 5.5 d 94558 A0 8.6 8.5 85+ 134 31 270 67N 60 4 62
 18 Jan 28 8 35 44.5 d 823DA2 6.7 85+ 134 20 278 30S 142 88 144
 823 is double: AB 6.77 10.42 3.19" 128.9, dT = +9sec
 823 is a close double. Observations are highly desired

18 Jan 28 8 42 38.2 d 94590MF 8.2 85+ 134 19 279 49S 124 70 126
 94590 is triple: CD 8.22 11.98 1.47" 255.3, dT = -2sec : CA 8.2 7.7 56" 201.0, dT = +26sec
 94590 is a close double. Observations are highly desired

18 Jan 28 8 43 8.0 d 94589SA0 7.6 7.6 85+ 134 18 279 45S 128 74 130
 94589 is triple: AB 7.7 13.6 10.6" 127.1, dT = +23sec : AC 7.7 8.2 56" 21.0, dT = -35sec

18 Jan 28 9 33 38.2 D 832 M2 4.3 3.2v 85+ 135 9 286 84S 88 36 90
 R832 = 119 Tauri (CE)

832 = CE Tau, 4.23 to 4.54, V, Type SRC, Period 165. days

18 Jan 29 0 41 41.0 d 95495 A0 7.5 7.6 91+ 145 42 99 85S 91 146 88
 18 Jan 29 1 3 19.3 d 95508 A0 8.8 8.7 91+ 145 46 103 77N 73 127 70
 18 Jan 29 1 14 43.2 d 95511 A0 8.6 8.6 91+ 145 48 105 51S 125 178 122
 18 Jan 29 2 39 40.4 d 95577 A0 8.9 8.9 91+ 146 63 129 88N 85 125 81
 18 Jan 29 2 51 55.7 d 95583 K0 8.6 7.9 91+ 146 65 133 71N 68 105 65
 18 Jan 29 2 58 38.7 d 95586 A2 7.8 7.7 91+ 146 65 136 73N 69 104 66
 18 Jan 29 3 11 39 d 971cG5 7.3 6.7 91+ 146 67 143 7N 4 34 0
 Distance of 971 to Terminator = 3.1"; to 3km sunlit peak = 0.0"

18 Jan 29 3 21 14.3 d 95592 F8 8.4 8.2 91+ 146 68 148 25S 152 177 148
 18 Jan 29 3 30 1.3 d 95606 A0 8.4 8.4v 92+ 146 69 153 84N 81 103 77
 95606 = ASAS J062315+1940.1, 8.34, range 0.07, V, Type MISC, Period 207.858811 days, Phase 99 %

18 Jan 29 4 16 25.3 d 95633d07 8.5 8.4 92+ 146 71 183 80N 77 75 74
 95633 is double: AB 8.5 12.5 6.1" 140.2, dT = +7sec
 95633 is a close double. Observations are highly desired

18 Jan 29 4 33 8.0 d 95646 G5 8.6 8.1 92+ 147 70 195 68N 65 53 61
 18 Jan 29 8 9 31.7 d 95790 G5 7.9 7.3 92+ 148 37 266 61N 58 3 54

18 Jan 29 9 14 0.6 d 1006cA0 7.1* 7.1 93+ 149 25 276 69S 108 53 104
R1006 = 22 Geminorum
18 Jan 30 3 17 18.3 d 96911 F5 8.5 8.3 97+ 160 59 121 45S 136 182 127
18 Jan 30 8 34 32.0 d 1151 F0 6.9 6.7V 98+ 162 44 259 54S 127 74 116
1151 = HD 60915, 6.85, , Type VAR
18 Jan 30 12 6 23.7 d 1175cK5 4.9 4.1 98+ 164 4 290 54S 127 77 115
R1175 = 81 Geminorum
1175 is double: ** 5.8 5.8 0.10" 90.0, dT = +0.13sec
1175 has been reported as non-instantaneous (OCc 229). Observations are highly desired
18 Feb 1 5 20 19.8 r 1415WA1 6.3 6.3 99- 170 55 128 33S 230 270 210
R1415 = 7 Leonis
1415 is double: AB 6.3 9.4 41" 90.2, dT = +127sec
Distance of 1415 to Terminator = 4.0"; to 3km sunlit peak = 0.0"
18 Feb 1 6 44 52.1 R 1420 F2 6.6 6.4 99- 170 65 164 68S 265 278 244
R1420 = 11 Leonis
Distance of 1420 to Terminator = 12.8"; to 3km sunlit peak = 3.7"
18 Feb 1 7 17 50.7 r 98691CG5 8.6 99- 170 65 182 79N 298 296 277
98691 is double: BA 11.4 8.7 0.9" 134.0, dT = +2sec
98691 is a close double. Observations are highly desired
Distance of 98691 to Terminator = 15.0"; to 3km sunlit peak = 5.2"
18 Feb 1 7 17 50.7 r X115531C 8.6 8.0 99- 170 65 182 79N 298 296 277
X115531 is double: AB 8.67 11.43 0.90" 314.0, dT = -2sec
X115531 is a close double. Observations are highly desired
Distance of X115531 to Terminator = 15.0"; to 3km sunlit peak = 5.2"
18 Feb 1 9 56 23.9 R 1434wM2 5.4 4.5s 99- 168 47 246 69N 309 262 288
R1434 = psi Leonis
1434 is double: AB 5.5 11.6 282" 139.0, dT = +600sec
1434 = NSV 4594, 5.35 to 5.39, V, Type LB
Distance of 1434 to Terminator = 16.5"; to 3km sunlit peak = 6.2"
18 Feb 1 12 6 20.3 r 98773 K0 7.5* 6.9 99- 167 23 269 81S 280 227 259
18 Feb 3 11 31 28.8 r 118978 K0 8.5* 8.0 89- 141 43 233 50S 250 211 225
18 Feb 3 11 45 15.3 r 1693kF5 7.5 7.3 89- 141 41 237 58N 322 281 298
*** A light curve is desired as 1693 is in the Kepler2 program {ID = 201787591}
18 Feb 3 12 13 5.7 r 118987pF2 8.3* 8.1 88- 140 36 243 83N 297 253 272
*** A light curve is desired as 118987 is in the Kepler2 program {ID = 201777168}
118987 is double: AB 8.3 12.9 1.9" 128.3, dT = +4sec
118987 is a close double. Observations are highly desired
18 Feb 3 12 32 44.9 r 118995KF0 8.0 7.8 88- 140 -10 32 247 30S 230 184 205
*** A light curve is highly desired as 118995 is in the Kepler2 program {ID = 201756263}
18 Feb 4 6 15 28.4 r 1781 M* 7.6* 6.8s 82- 130 29 114 87S 287 332 263
1781 = NSV 19382, 7.65 to 7.72, Hp
18 Feb 4 8 26 27.8 r 119422kG5 8.7 8.4 81- 129 47 148 27N 353 18 329
*** A light curve is desired as 119422 is in the Kepler2 program {ID = 229114251}
18 Feb 4 10 25 15.7 r 119442kG0 8.5 8.1 81- 128 51 193 71N 309 299 285
*** A light curve is desired as 119442 is in the Kepler2 program {ID = 229095758}
18 Feb 5 11 16 29.6 r 139311 K2 8.4 7.8 71- 115 46 193 23N 357 347 335
18 Feb 5 12 30 18.7 r 139316 K0 7.7 7.3 71- 115 -10 40 216 57S 257 229 234
18 Feb 5 12 33 10.1 r 1923cK0 7.0* 71- 115 -10 40 217 68N 312 284 290
1923 is double: AB 7.02 10.85 0.27" 272.5, dT = -0.6sec
1923 is a close double. Observations are highly desired
18 Feb 6 9 2 35.0 r 139756 K0 8.9 8.4 62- 104 33 137 81N 298 330 278
18 Feb 6 9 49 1.3 r 139766 K0 8.9 8.4 62- 104 38 150 47S 246 269 226
18 Feb 6 12 3 54.2 r 2035cK0 7.2* 6.6 61- 103 42 192 54N 324 315 305
2035 is double: AB 7.0 8.1 132.0, dT = 0.00sec
2035 is a close double. Observations are highly desired
18 Feb 6 12 22 53.0 r 139792 K0 8.2 7.6 61- 103 -12 41 198 80S 278 264 258
18 Feb 6 12 37 50.6 r 139803SF2 8.5 61- 103 -9 40 203 46N 332 314 312
139803 is triple: AB 9.38 8.98 0.52" 35.4, dT = -0.8sec : AB,C 9.4 10.2 88" 282.1, dT = -195sec
139803 is a close double. Observations are highly desired
18 Feb 7 11 58 33.2 r 158979 K0 8.7 8.2 51- 92 39 176 82N 294 297 278
18 Feb 8 9 29 8.6 r 159490KF0 8.3* 8.1 42- 81 18 128 78S 271 310 259
*** A light curve is highly desired as 159490 is in the Kepler2 program {ID = 250019727}
18 Feb 10 11 18 20.9 r 2522 * 7.5 6.4V 24- 59 17 133 14N 351 28 349
R2522 = TW Ophiuchi
2522 = TW Oph, 11.6 to 13.8, pg, Type SRB, Period 185. days
18 Feb 12 11 41 19.0 r 187769 G5 8.1 7.6 10- 37 5 122 71S 247 292 255
18 Feb 12 11 47 46.8 r 187789 B7 7.7 7.7s 10- 37 6 122 15N 340 24 348
187789 = NSV 24704, 7.70 to 7.77, V, Type ACV, Period 3.3453 days, Phase 83 %
18 Feb 12 12 12 57.5 r 187799 G8 8.4 7.8 10- 37 10 127 26N 329 11 338
18 Feb 18 1 27 8.3 d 146849wG5 7.7 7.3 4+ 24 5 259 81S 84 34 109
146849 is double: AB 7.7 14.5 108" 299.1, dT = -183sec
18 Feb 20 0 42 58.5 D 109795 A5 7.6 7.4 17+ 48 -9 35 241 47S 115 72 138
18 Feb 21 0 44 19.4 d 316 F5 8.9 8.7 25+ 60 -9 45 234 56S 108 69 128
18 Feb 22 3 34 51.1 D 453cM1 7.1* 6.2v 36+ 74 27 263 89S 76 24 92
453 is double: ** 8.1 8.1 0.10" 54.0, dT = +0.19sec
453 has been reported as non-instantaneous (OCc 595). Observations are highly desired

453 = AQ Ari, 7.14 to 7.27, Hp, Type SRS:, Period 4.17 days

18 Feb 22 3 39 55.5 d 93278 F8 8.8* 8.5 36+ 74 27 264 83S 83 31 99

18 Feb 22 5 39 38.4 D 462cB8 6.0* 6.0 37+ 75 4 282 81S 85 34 101

462 is double: ** 6.7 6.7 0.10" 90.0, dT = +0.18sec

462 has been reported as non-instantaneous (OCc1200). Observations are highly desired

18 Feb 23 2 0 25.3 d 93697kG0 8.4 8.0 47+ 86 56 234 73N 62 21 73

*** A light curve is desired as 93697 is in the Kepler2 program {ID = 210480958}

18 Feb 23 4 16 19.7 d 93735kG0 8.7 8.4 48+ 87 32 264 55S 114 61 125

*** A light curve is desired as 93735 is in the Kepler2 program {ID = 210479546}

18 Feb 23 5 13 45.9 d 93746cG5 8.0 7.4 48+ 88 21 273 23S 146 92 156

93746 is double: ** 8.2 11.0 0.030" 271.0, dT = -0.08sec

93746 has been reported as non-instantaneous (OCc 995). Observations are highly desired

18 Feb 23 5 56 47.4 d 93757pG0 8.2 7.9 48+ 88 13 280 54N 43 350 53

*** A light curve is desired as 93757 is in the Kepler2 program {ID = 210505125}

93757 is double: ** 9.0 9.0 0.20" 75.0, dT = +0.4sec

93757 has been reported as non-instantaneous (OCc1226). Observations are highly desired

18 Feb 23 6 41 41.8 d 608DF3 6.0 5.8s 49+ 88 5 286 33S 137 86 147

608 is double: AB 6.11 8.77 3.80" 224.1, dT = +0.5sec

608 is a close double. Observations are highly desired

608 = NSV 1466, 6.00 to 6.05, V

18 Feb 25 1 12 40.4 d 94999 K7 8.8* 8.0 69+ 113 68 151 73N 71 95 70

18 Feb 25 1 18 53.5 d 95001cB9 8.1* 8.1 69+ 113 69 154 79N 76 97 76

18 Feb 25 2 0 2.5 d 95031 B9 7.9* 7.9 69+ 113 70 181 60S 118 117 117

18 Feb 25 2 30 23.8 d X 80577 9.0 8.4 70+ 113 69 202 71N 69 51 68

18 Feb 25 4 14 23.5 d 95119 A0 7.5 7.4e 70+ 114 55 245 86N 84 36 83

95119 = V1385 Ori, 7.43 to 7.64, V, Type EB, Period 2.237955 days, Phase 52 %

18 Feb 25 4 50 3.1 d 95142 K0 8.8 8.2 70+ 114 49 254 63S 115 63 114

18 Feb 25 5 57 39 M 913cB8 5.1 5.2s 71+ 114 36 267 4N 3 307 1

R913 = 64 Orionis

913 is double: AB 5.1 6.1 0.055" 59.8

913 is a close double. Observations are highly desired

913 = NSV 2803, 5.13 to 5.16, V

Distance of 913 to Terminator = 10.9"; to 3km sunlit peak = 0.0"

18 Feb 25 6 50 45.2 d 95228 A5 8.2 8.0 71+ 115 26 274 65S 114 59 112

18 Feb 26 0 49 4.1 d 96301 F0 8.3* 8.2 79+ 126 -9 57 117 42S 142 189 135

18 Feb 26 0 53 4.1 d 96312 A5 7.4 7.3 79+ 126 -9 57 117 80N 83 130 76

18 Feb 26 0 55 24.1 d 96308 K2 8.2* 7.5 79+ 126 -10 58 118 48S 135 182 128

18 Feb 26 2 55 39.1 d 96380 K2 8.5 7.7 80+ 127 71 178 75S 109 110 102

18 Feb 26 3 45 41.0 d 96396cK2 8.5 7.9 80+ 127 68 211 40S 144 119 137

96396 is double: ** 9.5 9.5 0.10" 90.0, dT = +0.22sec

96396 has been reported as non-instantaneous (OCc 29). Observations are highly desired

18 Feb 26 5 26 37.9 d 96465 A0 8.8 8.8 81+ 128 53 249 34N 38 347 30

18 Feb 26 7 9 16.2 d 1084 K5 7.3 6.6 81+ 129 34 268 72N 77 21 68

18 Feb 26 7 29 54.3 d 96571 K0 8.5 7.9 81+ 129 30 271 56S 129 73 121

18 Feb 26 7 50 59.6 d 96592 A0 8.5 8.5 81+ 129 26 274 74S 110 55 102

18 Feb 27 1 7 51.6 d 1202 A0 7.1 7.1 88+ 140 49 107 55N 65 117 52

18 Feb 27 3 42 44.4 D 1217 B9 6.2 6.2 89+ 141 70 170 22N 31 40 18

18 Feb 27 4 19 31.5 d 97553 A5 8.8 8.7 89+ 141 69 194 38N 47 36 34

18 Feb 28 5 14 19.0 d 98397cA2 8.8 8.7 95+ 155 67 190 62N 78 70 60

98397 is double: AB 9.8 9.8 0.42" 172.3, dT = -0.08sec

98397 is a close double. Observations are highly desired

18 Mar 1 3 37 30.5 d 1481 A5 7.4 7.3 99+ 169 50 122 59N 84 127 62

Distance of 1481 to Terminator = 13.7"; to 3km sunlit peak = 4.3"

18 Mar 1 6 54 8.5 d 98990 K5 7.8 6.9 99+ 170 60 210 69S 137 114 114

Distance of 98990 to Terminator = 12.8"; to 3km sunlit peak = 3.7"

18 Mar 1 8 57 21.4 d 1501 G5 7.2 6.7 99+ 171 42 248 76S 130 83 108

Distance of 1501 to Terminator = 11.5"; to 3km sunlit peak = 2.9"

18 Mar 3 4 42 53.2 r 1728kM4 6.7 5.9s 98- 164 37 121 40S 232 274 208

*** A light curve is desired as 1728 is in the Kepler2 program {ID = 201690697}

1728 = NSV 19065, 6.67 to 6.76, V

Distance of 1728 to Terminator = 16.1"; to 3km sunlit peak = 5.8"

18 Mar 3 5 43 13.6 R 1733dA1 5.4 5.4 98- 163 46 137 55N 318 350 293

R1733 = 7 Virginis

1733 is double: AB 5.3 14.5 3.2" 218.0, dT = +1.4sec

1733 is a close double. Observations are highly desired

18 Mar 4 5 4 41.8 r 1848 K5 7.7 7.0 94- 151 29 118 15N 0 44 337

Distance of 1848 to Terminator = 10.1"; to 3km sunlit peak = 1.4"

18 Mar 4 10 24 37.8 r 139080 K0 7.8 7.2 93- 149 41 219 68N 308 279 285

18 Mar 4 11 36 54.4 r 139097 G5 8.3 7.9 93- 148 31 237 54S 250 210 227

18 Mar 5 6 47 31.8 r 139528kK0 7.2 6.7 87- 137 34 135 79N 297 330 275

*** A light curve is desired as 139528 is in the Kepler2 program {ID = 212784161}

18 Mar 5 11 39 22.7 r 139592cG5 7.7 7.2 86- 136 34 223 34S 231 198 210

139592 is double: ** 8.1 8.7 0.020" 97.0, dT = +0.08sec

139592 has been reported as non-instantaneous (OCc1024). Observations are highly desired

18 Mar 6 9 22 10.3 R 2089 G5 6.7 6.2 78- 124 40 167 56N 319 329 301

18 Mar 6 11 20 10.1 r 158736 K0 8.4 7.7 78- 124 37 203 50N 324 306 307

18 Mar 7 11 6 39.3 r 159314 K3 8.4* 7.5 69- 112 37 185 34N 338 334 324
18 Mar 8 10 25 40.1 r 159868 G8 8.4 7.8 60- 101 32 160 41N 328 344 319
18 Mar 9 8 38 52.1 r 160296pK2 8.1 7.3 51- 91 12 127 69S 254 295 250
*** A light curve is desired as 160296 is in the Kepler2 program {ID = 230779691}
160296 is double: AB 8.8 8.8 0.70" 181.0, dT = -0.6sec
160296 is a close double. Observations are highly desired
18 Mar 9 10 12 42.7 r 2463pB8 6.9 50- 90 24 146 55S 240 267 236
*** A light curve is desired as 2463 is in the Kepler2 program {ID = 230756009}
2463 is double: AB 7.18 8.71 0.10" 120.9, dT = +0.2sec
2463 is a close double. Observations are highly desired
18 Mar 10 9 41 33.4 R 2591cK0 6.2 5.5 41- 79 14 131 62N 298 337 300
18 Mar 10 10 29 44.4 r 186105 K5 8.7 7.4 40- 79 20 140 90S 270 302 271
18 Mar 10 11 20 52.7 R 2599kB2 6.8 6.7V 40- 79 25 152 49S 229 253 231
*** A light curve is desired as 2599 is in the Kepler2 program {ID = 226361653}
2599 = HD 164581, 6.793, , Type VAR
18 Mar 11 10 26 52.1 r 187375 F8 8.8 8.5 31- 68 13 131 82S 257 296 264
18 Mar 11 11 17 33.8 r 187416 F3 8.1 7.8 31- 68 19 140 36S 211 243 218
18 Mar 11 11 57 54.7 r 187427 B9 8.9 8.8 31- 68 -8 24 149 78S 253 278 260
18 Mar 12 10 59 14.9 r X 46704 K0 9.0 8.5 23- 57 11 127 72N 279 320 290
18 Mar 20 1 17 56.2 D 286 B9 7.6 7.6 7+ 30 -10 17 264 12N 1 310 22
18 Mar 22 3 16 34.1 d 93599 8.9 8.2 22+ 57 19 273 73N 64 10 76
18 Mar 22 3 24 47.3 d 93605kK0 8.7 8.1 23+ 57 18 274 65S 106 53 119
*** A light curve is desired as 93605 is in the Kepler2 program {ID = 210441618}
18 Mar 23 1 18 2.4 d 94065 K0 8.8 7.9 32+ 69 -9 53 245 57N 51 4 58
18 Mar 23 1 20 5.8 d 705kK0 7.9* 7.2 32+ 69 -10 53 245 14N 8 321 16
*** A light curve is desired as 705 is in the Kepler2 program {ID = 246975820}
18 Mar 23 1 51 8.0 d 94070kA2 8.4 8.2 32+ 69 47 252 60N 54 3 61
*** A light curve is desired as 94070 is in the Kepler2 program {ID = 246968035}
18 Mar 23 2 30 38.1 d 711 K5 8.2 7.3 32+ 69 40 260 88S 86 33 93
18 Mar 24 1 42 48.4 d 94751 A2 8.9* 8.9 43+ 82 60 237 76S 103 59 104
18 Mar 24 2 9 36.4 d 94763DA0 8.8 8.7 43+ 82 55 245 86N 85 36 86
94763 is double: AB 8.8 9.8 1.0" 329.5, dT = -1sec
94763 is a close double. Observations are highly desired
18 Mar 24 2 21 51.4 d 94767 A0 8.2 8.1 43+ 82 53 249 56N 55 4 55
18 Mar 24 2 35 46.0 d 94770 A 8.5 8.5 43+ 82 51 252 30N 29 337 29
18 Mar 24 2 54 1.4 d 862 K0 7.3* 6.6 44+ 83 47 255 35S 143 91 144
18 Mar 24 3 8 45.3 D 863 B9 6.7* 6.7 44+ 83 44 258 32S 147 93 147
R863 = 127 Tauri
18 Mar 25 1 12 17.7 d 1025 K0 7.3* 6.7 55+ 95 -8 70 195 28S 155 143 150
18 Mar 25 1 35 19.5 d 78639 A0 8.2 8.1 55+ 95 69 209 73N 77 53 71
18 Mar 25 2 15 11.2 d 78650 F8 8.7 8.4 55+ 96 64 229 28N 32 353 27
18 Mar 25 2 34 51.3 d 78669 B9 8.7 8.7 55+ 96 61 236 68N 72 28 66
18 Mar 25 3 32 38.8 d 78694 B2 8.7 8.7 55+ 96 51 252 55N 59 7 53
18 Mar 26 2 9 44.8 d 97183 K0 9.0 8.5 66+ 109 70 194 81N 90 79 79
18 Mar 26 4 30 45.7 d 97245 A2 8.7* 8.6 67+ 110 51 251 90N 99 48 87
18 Mar 26 4 47 21.7 d 97234cA0 8.3 67+ 110 47 255 17S 173 120 161
97234 is double: AB 8.98 9.17 0.33" 70.6, dT = -0.42sec
97234 is a close double. Observations are highly desired
18 Mar 26 7 0 52.9 d 97327cA3 8.4 8.3 68+ 111 23 276 75N 85 30 73
97327 is double: 8.4 103.0, dT = 0.00sec
18 Mar 27 2 0 8.4 d 98061kF2 8.8 8.5 77+ 122 66 152 33S 162 184 145
*** A light curve is desired as 98061 is in the Kepler2 program {ID = 211787179}
18 Mar 27 6 9 42.9 d 98159kA3 8.0 7.9 78+ 124 42 257 39N 54 2 37
*** A light curve is desired as 98159 is in the Kepler2 program {ID = 211779946}
18 Mar 27 7 42 17.4 d 98194kG5 7.8 7.3 78+ 125 24 272 25S 171 116 153
*** A light curve is desired as 98194 is in the Kepler2 program {ID = 211732180}
18 Mar 27 8 3 27.7 d 98223pG5 8.3 v 79+ 125 20 275 65N 81 27 63
*** A light curve is desired as 98223 is in the Kepler2 program {ID = 211750200}
98223 is triple: Aa,Ab 9.0 9.2 0.23" 92.5, dT = +0.45sec : AB 9.0 9.2 1.7" 166.9, dT = +0.22sec
98223 is a close double. Observations are highly desired
98223 = IK Cnc, 8.32, range 0.03, V, Type BY, Period 9.45 days
18 Mar 28 2 35 7.2 d X 14673dF8 9.0 8.7 86+ 136 61 145 67S 133 160 112
X 14673 is double: AB 9.0 11.8 6.0" 172.1, dT = +12sec
X 14673 is a close double. Observations are highly desired
18 Mar 28 3 4 30.9 D 1434wM2 5.4 4.5s 86+ 136 64 159 58S 142 159 121
R1434 = psi Leonis
1434 is double: AB 5.5 11.6 282" 139.0, dT = +819sec
1434 = NSV 4594, 5.35 to 5.39, V, Type LB
18 Mar 28 4 13 37.1 r 1434wM2 5.4 4.5s 86+ 137 64 198 -60S 260 246 239
R1434 = psi Leonis
1434 is double: AB 5.5 11.6 282" 139.0, dT = +421sec
1434 = NSV 4594, 5.35 to 5.39, V, Type LB
18 Mar 28 6 3 57.0 d 98781 ** 8.3 8.1s 87+ 137 51 240 75N 95 51 74
98781 = NSV 18274, 8.3 to 8.35, V
18 Mar 28 6 7 59.7 d 98773 K0 7.5* 6.9 87+ 137 50 241 15S 185 140 164
18 Mar 29 9 30 33.2 d 1580kK2 7.6 7.0 94+ 152 20 265 52N 77 25 53

*** A light curve is desired as 1580 is in the Kepler2 program {ID = 248735958}
 18 Mar 29 9 31 45.6 d 118535kF8 7.9 7.6 94+ 152 20 266 34N 59 7 35
 *** A light curve is desired as 118535 is in the Kepler2 program {ID = 248739265}
 18 Mar 30 6 34 25.2 d 1693kF5 7.5 7.3 98+ 164 53 207 61N 93 73 69
 *** A light curve is desired as 1693 is in the Kepler2 program {ID = 201787591}
 18 Mar 30 6 38 30.5 d 118978 K0 8.5* 8.0 98+ 164 53 209 47S 166 144 142
 18 Mar 30 6 58 6.2 d 118987pF2 8.3* 8.1 98+ 164 51 216 84N 117 90 93
 *** A light curve is desired as 118987 is in the Kepler2 program {ID = 201777168}
 118987 is double: AB 8.3 12.9 1.9" 128.3, dT = +5sec
 118987 is a close double. Observations are highly desired
 18 Mar 30 7 48 4.5 d 119000kG0 7.3 7.0 98+ 164 44 231 87S 126 89 102
 *** A light curve is desired as 119000 is in the Kepler2 program {ID = 201765225}
 18 Mar 30 8 1 37.7 d 118995KF0 8.0 7.8 98+ 164 42 234 35S 178 139 154
 *** A light curve is highly desired as 118995 is in the Kepler2 program {ID = 201756263}
 Distance of 118995 to Terminator = 11.6"; to 3km sunlit peak = 2.8"
 18 Apr 1 7 30 47.0 r 1923cK0 7.0* 99- 169 46 189 31N 329 323 307
 1923 is double: AB 7.02 10.85 0.27" 272.7, dT = -0.44sec
 1923 is a close double. Observations are highly desired
 Distance of 1923 to Terminator = 4.4"; to 3km sunlit peak = 0.0"
 18 Apr 1 7 40 0.6 r 139316 K0 7.7 7.3 99- 169 46 192 84N 276 267 254
 Distance of 139316 to Terminator = 16.6"; to 3km sunlit peak = 6.3"
 18 Apr 2 5 57 49.8 r 2035cK0 7.2* 6.6 96- 158 36 144 32N 336 3 317
 2035 is double: AB 7.0 8.1 132.0, dT = 0.00sec
 2035 is a close double. Observations are highly desired
 18 Apr 2 6 21 11.5 r 139792 K0 8.2 7.6 96- 157 38 151 79N 289 312 270
 18 Apr 2 8 27 44.3 R 2043cK0 6.5 5.8 96- 157 42 191 25N 344 335 324
 2043 is double: ** 7.4 7.4 0.10" 90.0, dT = +0.11sec
 2043 has been reported as non-instantaneous (OCc 16). Observations are highly desired
 Distance of 2043 to Terminator = 15.4"; to 3km sunlit peak = 5.0"
 18 Apr 2 9 5 40.0 r 2047 K0 6.6* 6.0 96- 157 39 203 43N 327 309 307
 18 Apr 3 8 16 39.4 r 2158 A0 7.5 7.5 91- 145 38 173 74N 295 301 280
 18 Apr 3 9 17 43 m 159045 K5 8.2 7.3 91- 145 37 191 14S 204 195 188
 Distance of 159045 to Terminator = 13.5"; to 3km sunlit peak = 3.1"
 18 Apr 3 10 0 55.4 r 159048 K5 8.5 7.6 91- 144 35 203 85N 284 266 269
 18 Apr 4 7 56 56.2 R 2280wM1 6.5 5.6s 84- 133 31 154 51N 316 337 305
 2280 is double: AB 6.8 13.7 36" 238.6, dT = -24sec
 2280 = NSV 7351, 6.59, range 0.05, V
 18 Apr 4 9 10 20.7 d 2291WF7 5.5 5.2v 84- 133 34 174 -60S 128 132 117
 R2291 = 49 Librae
 2291 is double: AB 5.5 11.5 144" 337.3, dT = -384sec
 2291 = HIP 78400, 5.47, range 0.00, 4V, Type VAR, Period 0.45326 days
 18 Apr 4 9 29 39.5 r 159619 F3 8.1 7.7 84- 133 35 180 47N 320 320 310
 18 Apr 4 10 35 32.2 R 2291WF7 5.5 5.2v 84- 133 32 199 83S 271 256 260
 R2291 = 49 Librae
 2291 is double: AB 5.5 11.5 144" 337.3, dT = -176sec
 2291 = HIP 78400, 5.47, range 0.00, 4V, Type VAR, Period 0.45326 days
 18 Apr 5 9 9 30.6 r 160114 K0 8.2 7.5 76- 122 30 162 59S 243 258 238
 18 Apr 7 7 58 15.3 r 2679 A0 7.6 7.6 59- 100 10 127 83N 273 315 278
 18 Apr 8 9 3 15.0 r 2829 K2 6.7* 6.2v 49- 89 12 130 51N 300 340 310
 2829 = V4138 Sgr, 6.46 to 6.87, V, Type RS, Period 62.02 days, Phase 26 %
 18 Apr 8 10 15 24.1 r 188091 K0 8.4 7.8 49- 88 22 144 30N 322 351 332
 18 Apr 19 1 30 7.6 d 93914dG2 7.8* 7.5v 11+ 39 -6 27 270 31N 28 333 36
 93914 is double: AB 6.4 9.1 1.3" 244.4, dT = -3sec
 93914 is a close double. Observations are highly desired
 93914 = V0897 Tau, 7.79 to 7.83, V, Type BY, Period 7.951 days, Phase 63 %
 18 Apr 19 1 43 45.5 r 650cA1 5.6* 5.5s 11+ 39 -9 24 273 -61N 296 241 304
 R650 = 63 Tauri
 650 = NSV 15964, 5.64, range 0.02, V, Type VAR:
 18 Apr 19 2 12 31.1 D 93933cG1 8.0* 7.7v 11+ 39 19 276 56N 53 359 61
 93933 is double: ** 8.7 8.7 0.020" 23.0, dT = +0.04sec
 93933 has been reported as non-instantaneous (OCc 553). Observations are highly desired
 93933 = V0906 Tau, 7.98 to 8.06, V, Type BY, Period 7.915 days, Phase 54 %
 18 Apr 19 2 13 54.1 D 93936PG8 8.1 7.8v 11+ 39 19 277 81N 78 24 87
 *** A light curve is highly desired as 93936 is in the Kepler2 program {ID = 210585085}
 93936 is double: AB 6.6 11.5 0.40" 192.0, dT = -0.3sec
 93936 is a close double. Observations are highly desired
 93936 = V0911 Tau, 8.09 to 8.13, V, Type BY, Period 8.561 days, Phase 3 %
 18 Apr 20 2 12 23.8 d 94541 A2 8.6 8.4 19+ 52 31 270 52N 52 356 54
 18 Apr 20 3 0 36.0 d 94558 A0 8.6 8.5 20+ 53 22 277 21S 159 104 161
 18 Apr 20 4 20 16.9 d 94609 K2 8.9 8.3 20+ 53 8 288 79N 79 28 81
 18 Apr 20 4 47 32.9 d 94634 F7 7.5 7.2 20+ 54 3 292 56N 57 7 59
 18 Apr 21 1 32 51.7 d 78363c++ 8.9 8.4 29+ 65 -7 50 254 61N 65 13 62
 78363 is double: ** 9.4 10.5 0.050" 350.0, dT = +0.03sec
 78363 has been reported as non-instantaneous (OCc1315). Observations are highly desired
 18 Apr 21 3 18 2.5 D 995SB6 4.1* 4.2v 30+ 66 31 272 18N 22 326 18
 R995 = nu Geminorum

995 is multiple: Aa,Ab 4.1 5.1 0.09" 127.5, dT = -0.17sec : AP 4.1 15.1 24.7" 359.1, dT = +154sec :
AD 4.1 12.9 53" 56.0, dT = +297sec : AQ 4.1 13.9 55" 14.1, dT = +371sec
995 is a close double. Observations are highly desired
995 = HIP 30883, 4.136 to 4.15, 6V, Type BCEP, Period 0.107322 days, Phase 92 %
18 Apr 21 3 24 47 m 78420SA0 8.0 8.0 30+ 66 29 273 1N 6 310 2
78420 is quadruple: ** 8.6 8.9 0.20" 246.0 : Ba,Bb 8.6 8.9 0.20" 316.1 : BA 8.0 4.1 113" 150.0
78420 has been reported as non-instantaneous (OCc1320). Observations are highly desired
18 Apr 21 3 35 31.1 R 995SB6 4.1* 4.2v 30+ 66 27 275 -15N 349 294 345
R995 = nu Geminorum
995 is multiple: Aa,Ab 4.1 5.1 0.09" 127.5, dT = +0.46sec : AP 4.1 15.1 24.7" 359.1, dT = -161sec :
AD 4.1 12.9 53" 56.0, dT = -138sec : AQ 4.1 13.9 55" 14.1, dT = -331sec
995 is a close double. Observations are highly desired
995 = HIP 30883, 4.136 to 4.15, 6V, Type BCEP, Period 0.107322 days, Phase 92 %
18 Apr 21 3 44 41.4 d 78446 F8 8.6 8.4 30+ 66 26 276 41N 45 350 41
18 Apr 21 4 18 21.2 d 95789 K2 8.3 7.7 30+ 67 19 280 83N 87 33 83
18 Apr 21 4 26 42.7 d 95790 G5 7.9 7.3 30+ 67 18 281 53S 131 77 127
18 Apr 21 4 49 39.3 d 95822 B8 8.0 8.0 30+ 67 14 285 88S 97 44 92
18 Apr 21 4 53 13.3 d X 9287 K7 8.8 8.0 30+ 67 13 285 40N 45 352 40
18 Apr 22 1 33 53.9 d 96913 A0 8.8 8.8 40+ 79 -7 60 238 67N 76 31 66
18 Apr 22 2 38 46.5 D 1135 K0 6.7 6.1 41+ 79 49 254 89S 100 47 90
18 Apr 22 3 15 17.8 D 1138 G0 7.1 6.8 41+ 79 42 262 37N 46 351 36
18 Apr 23 1 35 22.5 D 97833 F5 7.9 7.7 52+ 92 -7 66 212 76S 117 92 102
18 Apr 23 3 47 21.3 D 1275SK5 5.3* 4.5s 53+ 93 46 255 37N 51 359 36
R1275 = theta Cancr
1275 is multiple: ** 6.4 6.4 0.10" 100.0, dT = +0.26sec : AB 5.5 11.8 75" 62.0, dT = +284sec :
AD 5.3 12.6 225" 268.2, dT = -695sec : AC 5.5 10.5 344" 214.1, dT = -1262sec
1275 has been reported as non-instantaneous (OCc 690). Observations are highly desired
1275 = NSV 17911, 5.43 to 5.47, Hp
18 Apr 23 4 25 32.6 r 1275SK5 5.3* 4.5s 53+ 93 39 262 -31N 343 289 328
R1275 = theta Cancr
1275 is multiple: ** 6.4 6.4 0.10" 100.0, dT = +0.16sec : AB 5.5 11.8 75" 62.0, dT = -54sec :
AD 5.3 12.6 225" 268.2, dT = -211sec : AC 5.5 10.5 344" 214.1, dT = +794sec
1275 has been reported as non-instantaneous (OCc 690). Observations are highly desired
1275 = NSV 17911, 5.43 to 5.47, Hp
18 Apr 23 6 19 56.0 d 97955kK0 8.1 7.5 54+ 94 17 279 33S 161 108 145
*** A light curve is desired as 97955 is in the Kepler2 program {ID = 211798017}
18 Apr 24 2 52 3.3 d 98590 G0 8.5 8.2 64+ 106 61 218 81S 118 88 98
18 Apr 24 3 34 59.6 d 98599 G 8.9 8.4 64+ 106 56 235 27N 45 4 25
18 Apr 24 4 20 42.0 d 98613cF8 8.4 8.0 64+ 106 48 247 22N 40 352 20
98613 is double: ** 8.9 8.9 0.10" 120.0, dT = +0.13sec
98613 has been reported as non-instantaneous (OCc 609). Observations are highly desired
18 Apr 24 7 1 42.3 D 1415WA1 6.3 6.3 65+ 108 18 274 65S 134 81 114
R1415 = 7 Leonis
1415 is double: AB 6.3 9.4 41" 90.2, dT = +58sec
18 Apr 24 7 50 59.0 d 1420 F2 6.6 6.4 65+ 108 9 281 85N 104 52 84
R1420 = 11 Leonis
18 Apr 25 4 1 50.8 d 99111 K0 7.5 7.0 74+ 119 56 221 30S 172 140 149
18 Apr 25 4 33 43.0 d 1529 G5 6.6 6.2 75+ 119 52 232 70N 92 53 69
18 Apr 26 4 39 42.2 d 118803 G0 8.1 7.8 84+ 132 54 213 49N 75 50 50
18 Apr 26 5 17 9.9 D 1645cF8 6.7 6.4 84+ 133 49 225 54S 151 117 127
1645 is double: AB 6.7 16.2 271.0, dT = 0.00sec
18 Apr 26 6 9 57.0 d 1648 G5 6.9 6.5 84+ 133 41 239 88N 113 71 89
18 Apr 27 5 16 48.5 d 1758 G5 6.9 6.4 91+ 145 51 205 51N 79 60 55
18 Apr 27 7 59 37.5 d 1767kA2 7.6 7.5 92+ 146 27 248 82N 110 64 85
*** A light curve is desired as 1767 is in the Kepler2 program {ID = 201569326}
18 Apr 27 9 9 53.7 d 119325kK0 7.6 7.1 92+ 147 14 260 26S 182 132 158
*** A light curve is desired as 119325 is in the Kepler2 program {ID = 201541836}
18 Apr 28 1 43 20.4 d 139080 K0 7.8 7.2 96+ 156 -7 30 121 44S 168 210 145
18 Apr 28 5 48 31.1 d 139144 F0 8.4 8.2 96+ 158 47 197 41N 73 60 50
18 May 1 5 4 6.0 d 2223SK0 3.9 3.4 98- 165 28 142 -74N 71 101 58
R2223 = gamma Librae
2223 is triple: Aa,Ab 4.0 4.2 0.10" 191.0, dT = -0.18sec : AB 4.0 11.2 43" 157.2, dT = +11sec
2223 is a close double. Observations are highly desired
18 May 1 6 3 4.9 R 2223SK0 3.9 3.4 98- 165 33 158 20N 338 356 325
R2223 = gamma Librae
2223 is triple: Aa,Ab 4.0 4.2 0.10" 191.0, dT = +0.32sec : AB 4.0 11.2 43" 157.2, dT = +162sec
2223 is a close double. Observations are highly desired
Distance of 2223 to Terminator = 4.0"; to 3km sunlit peak = 0.0"
18 May 2 6 35 53.9 r 159919pF5 7.2 7.0 95- 153 29 155 41N 320 340 312
*** A light curve is desired as 159919 is in the Kepler2 program {ID = 205408249}
159919 is double: AB 7.3 13.7 180" 238.0, dT = -80sec
18 May 2 7 16 55.9 r 159927 G5 8.3 7.9 95- 153 32 166 39N 322 334 314
18 May 2 8 0 59.4 r 159935 A0 7.2 7.0 94- 153 33 178 58N 303 305 295
18 May 3 7 53 50.9 r 160464wF5 8.0 7.8 89- 142 29 163 65N 295 309 292
160464 is double: AB 8.1 12.7 14.8" 270.0, dT = -41sec
18 May 3 9 55 47.3 r 185337kK0 8.0 7.4 89- 141 29 196 88S 267 255 265

*** A light curve is desired as 185337 is in the Kepler2 program {ID = 234257385}
 18 May 3 10 6 27.1 r 2503kK0 7.8 7.1 89- 141 29 198 88N 272 257 269
 *** A light curve is desired as 2503 is in the Kepler2 program {ID = 234259578}
 18 May 4 7 59 22.3 d 2633SB2 3.8* 3.7e 82- 131 25 152 -72N 69 92 72
 R2633 = mu Sagittarii
 2633 is multiple: AB 3.8 10.5 17.0" 257.9, dT = -57sec : AC 3.8 12.8 25.5" 119.1, dT = +56sec :
 AD 3.8 10.0 48" 311.9, dT = -75sec : AE 3.8 9.2 50" 114.0, dT = +122sec
 2633 = mu. Sgr, 3.8 to 3.88, V, Type EA+ACYG, Period 180.55 days, Phase 69 %
 18 May 4 9 3 35.8 r 186483 B9 8.4* 8.3 82- 130 29 169 78S 254 264 257
 18 May 4 9 19 52.7 R 2633SB2 3.8* 3.7e 82- 130 30 173 51N 306 311 308
 R2633 = mu Sagittarii
 2633 is multiple: AB 3.8 10.5 17.0" 257.9, dT = -42sec : AC 3.8 12.8 25.5" 119.1, dT = +92sec :
 AD 3.8 10.0 48" 311.9, dT = -175sec : AE 3.8 9.2 50" 114.0, dT = +180sec
 2633 = mu. Sgr, 3.8 to 3.88, V, Type EA+ACYG, Period 180.55 days, Phase 69 %
 18 May 5 8 9 1 m X163643p 8.0 7.7 75- 120 21 144 11S 184 213 192
 *** A light curve is desired as X163643 is in the Kepler2 program {ID = 216896381}
 X163643 is double: BA 8.1 7.9 1.3" 3.1
 X163643 is a close double. Observations are highly desired
 18 May 5 8 9 1 m 2778DF8 7.3* 75- 120 21 144 11S 184 213 192
 2778 is double: AB 7.87 8.06 1.25" 183.1
 2778 is a close double. Observations are highly desired
 18 May 5 10 37 0.0 r 187687 A0 8.6 8.5 74- 119 -8 30 181 58S 231 230 239
 18 May 7 9 31 3.1 r 163866 K3 8.7 8.0 56- 97 22 140 77S 242 274 259
 18 May 7 10 14 33.4 r 163877wF7 8.1 7.8 56- 97 -11 27 150 68N 277 301 294
 163877 is double: AB 8.2 12.1 29.3" 284.0, dT = -92sec
 18 May 8 8 18 46.6 r 3157cF6 7.3 47- 87 6 117 58N 283 330 304
 3157 is double: AB 7.33 10.00 0.90" 6.5, dT = -0.28sec
 3157 is a close double. Observations are highly desired
 18 May 9 9 23 13.8 r 165049 M3 7.7 6.9s 37- 75 11 117 48S 206 251 229
 165049 = NSV 25892, 7.70, range 0.02, 2V, Type VAR, Period 16.15248 days
 18 May 9 9 50 50.8 r 165053 K2 7.8 7.1 37- 75 16 122 79N 258 301 281
 18 May 10 10 0 23.4 r 146570pF0 7.9 28- 64 13 113 28N 307 353 331
 *** A light curve is desired as 146570 is in the Kepler2 program {ID = 246022726}
 146570 is double: AB 8.09 9.52 0.86" 37.2, dT = +0.03sec
 146570 is a close double. Observations are highly desired
 18 May 10 10 23 37.1 d 3419SK0 4.2 3.7 28- 63 -9 17 117 -46S 109 154 133
 R3419 = psi 1 Aquarii
 3419 is triple: A,BC 4.4 9.9 49" 312.0, dT = -135sec : AD 4.4 13.5 114" 272.8, dT = -329sec
 18 May 10 10 31 36.0 r 146577MF9 7.7 28- 63 -8 18 118 51N 284 328 308
 146577 is triple: AB 7.6 8.2 24.8" 175.9, dT = +22sec : AC 7.6 9.1 78" 131.5, dT = +198sec
 18 May 10 10 31 58.3 r 146578MG3 8.3 28- 63 -8 18 118 53N 282 326 306
 146578 is triple: BA 8.2 7.6 24.8" 355.9, dT = -19sec : BC 8.2 9.1 62" 115.4, dT = +170sec
 18 May 18 2 59 7.4 d 930 F0 8.0 7.9 9+ 35 10 287 49S 136 84 134
 18 May 18 3 36 32.2 D 940SB9 5.8 5.8 9+ 36 4 293 83S 103 53 101
 R940 = 68 Orionis
 940 is triple: Aa,Ab 5.8 0.10" 294.0, dT = -0.15sec : AB 5.7 9.4 94" 202.3, dT = -23sec
 940 is a close double. Observations are highly desired
 18 May 19 2 11 37.3 d 96588 F5 7.8* 7.5 17+ 49 -8 30 272 36S 153 98 145
 18 May 19 2 31 20.7 D 96610cA2 8.1 17+ 49 -11 26 275 70S 119 64 111
 96610 is double: AB 8.23 10.10 0.52" 60.3, dT = +0.5sec
 96610 is a close double. Observations are highly desired
 18 May 19 2 32 4.6 D 79143 G5 7.6 7.1 17+ 49 -11 26 275 20N 29 333 21
 18 May 19 3 45 27.9 d 96669 F8 8.0* 7.7 18+ 49 13 285 52S 137 85 129
 18 May 19 4 1 58.6 D 96697 B9 7.5 7.5 18+ 50 10 288 87N 96 44 87
 18 May 20 2 18 52.0 d 97648kK2 9.0 8.5 27+ 62 -9 39 262 24S 169 114 155
 *** A light curve is desired as 97648 is in the Kepler2 program {ID = 211885626}
 18 May 20 3 30 28.3 d 1245pK0 7.7 7.0 27+ 63 26 274 61N 75 20 60
 *** A light curve is desired as 1245 is in the Kepler2 program {ID = 211897761}
 1245 is quadruple: Aa,Ab 7.5 7.5 0.033" 350.1, dT = +0.01sec : AB 7.7 10.5 4.4" 346.0, dT = +0.21sec :
 AC 7.7 9.8 67" 78.1, dT = +140sec
 1245 is a close double. Observations are highly desired
 18 May 20 4 45 16.3 d 97723 F8 8.4 8.1 28+ 64 12 284 77S 116 64 102
 18 May 21 2 10 46.2 d X113668DA0 7.8 7.7 38+ 76 -8 50 247 24N 41 353 22
 X113668 is double: BA 8.7 8.3 1.4" 236.1, dT = -9sec
 X113668 is a close double. Observations are highly desired
 18 May 21 2 10 50.7 d 98430DA0 7.7 7.6 38+ 76 -8 50 247 23N 41 352 22
 98430 is double: AB 8.32 8.71 1.39" 56.1, dT = +9sec
 98430 is a close double. Observations are highly desired
 18 May 21 3 16 50.6 d 1374kF5 8.3 8.1 38+ 76 38 260 79S 118 65 99
 *** A light curve is desired as 1374 is in the Kepler2 program {ID = 211706755}
 18 May 21 6 16 48.4 d 1385kA1 6.6 6.6 39+ 78 4 287 53S 144 94 125
 *** A light curve is desired as 1385 is in the Kepler2 program {ID = 251288572}
 18 May 23 5 54 37.8 d 118702 K5 7.5 6.6s 62+ 103 23 261 75N 98 47 74
 118702 = NSV 18681, 7.56 to 7.62, Hp
 18 May 24 2 6 24.8 d 119122kA2 8.6 8.4 71+ 115 -7 55 178 78N 103 105 79
 *** A light curve is desired as 119122 is in the Kepler2 program {ID = 201724878}

18 May 24 4 1 42.1 D 1728kM4 6.7 5.9s 71+ 115 47 222 33S 172 140 147
 *** A light curve is desired as 1728 is in the Kepler2 program {ID = 201690697}
 1728 = NSV 19065, 6.67 to 6.76, V

18 May 24 4 35 18.5 D 1733dA1 5.4 5.4 72+ 116 42 231 60N 85 47 60
 R1733 = 7 Virginis
 1733 is double: AB 5.3 14.5 3.2" 218.0, dT = -6sec
 1733 is a close double. Observations are highly desired

18 May 24 5 36 25.3 r 1733dA1 5.4 5.4 72+ 116 32 246 -54N 331 285 306
 R1733 = 7 Virginis
 1733 is double: AB 5.3 14.5 3.2" 218.0, dT = +3sec
 1733 is a close double. Observations are highly desired

18 May 25 2 9 8.9 d 138961 K0 8.3 7.8 80+ 127 -7 49 162 58S 148 162 125

18 May 27 4 10 32.4 D 2072 K0 6.6 5.9 94+ 152 41 174 81N 108 113 89

18 May 28 8 4 9.2 d 159219 K1 7.6 7.0 98+ 165 24 224 76N 106 72 92

18 May 28 8 24 37.6 d 2200 K0 7.5* 7.0 98+ 165 22 228 58N 88 51 73

18 Jun 2 9 45 5.1 r 188413wF2 8.5 8.2 87- 138 -12 30 188 85N 265 258 276
 188413 is double: AB 8.5 13.3 15.8" 75.4, dT = +50sec

18 Jun 2 10 21 48.0 r 2877cK0 7.8 7.1 87- 138 -6 28 197 53N 296 282 308
 2877 is double: ** 8.0 9.4 0.021" 32.0, dT = +0.01sec
 2877 has been reported as non-instantaneous (OCc1690). Observations are highly desired

18 Jun 4 6 17 25.2 r 3105 K0 6.1 5.5S 73- 117 6 118 23N 320 7 340
 3105 = NSV 25528, 6.04, , Type VAR:

18 Jun 4 8 32 28.9 r 3115 F0 7.1 6.9 72- 117 25 144 90S 253 281 272
 R3115 = 31 Capricorni

18 Jun 5 9 6 52.4 R 3240 A2 6.7 6.6 63- 105 27 140 81S 241 272 263

18 Jun 9 9 22 6.3 r 109815 K2 8.7 7.9 24- 59 12 96 43N 292 342 314

18 Jun 16 2 23 43.4 D 1186 K1 6.0 5.4 7+ 31 -7 14 284 89N 102 49 90

18 Jun 16 2 29 56.3 d 97319c 8.0 7.3 7+ 31 -8 13 285 59N 72 19 60
 97319 is double: ** 2.1 0.008" 71.0, dT = +0.01sec

18 Jun 16 3 28 35.4 d 97359SK2 7.8 7.3 8+ 32 3 293 79N 92 43 80
 97359 is quadruple: AD 7.9 11.7 80" 5.6, dT = +7sec : AB 7.9 10.8 98" 288.4, dT = -140sec :
 AC 7.9 10.6 126" 62.6, dT = +163sec

18 Jun 17 2 22 28.3 d 98213p 8.6 8.1 15+ 45 -7 24 273 88S 108 54 91
 *** A light curve is desired as 98213 is in the Kepler2 program {ID = 211790174}
 98213 is double: AB 8.7 13.6 4.4" 306.8, dT = -7sec
 98213 is a close double. Observations are highly desired

18 Jun 17 2 30 45 m 98204kA0 7.2 7.2 15+ 45 -8 23 275 1N 18 323 0
 *** A light curve is desired as 98204 is in the Kepler2 program {ID = 211816194}

18 Jun 17 2 51 23.7 D 1331 *6 6.3 4.7V 15+ 46 -11 19 277 63N 79 25 62
 R1331 = X Cancri
 1331 = X Cnc, 5.69 to 6.94, V, Type SRB, Period 180. days, Phase 1 %

18 Jun 17 3 35 33.4 D 1335 K1 6.2 5.7 15+ 46 11 283 54N 70 18 53

18 Jun 17 3 57 41.9 d 98258 8.7 7.8 15+ 46 7 287 28N 44 353 27

18 Jun 18 4 16 6.9 d 1463 K0 8.2 7.7 25+ 60 12 278 73N 92 40 71

18 Jun 20 4 29 3.9 d 119046 K2 8.4* 7.7 47+ 86 23 257 73N 97 47 72

18 Jun 21 4 57 48.5 d 119510PF5 8.5* 8.2 58+ 99 24 249 40N 64 17 40
 *** A light curve is highly desired as 119510 is in the Kepler2 program {ID = 229078032}
 119510 is double: ** 8.6 11.1 0.38" 295.0, dT = -0.8sec
 119510 has been reported as non-instantaneous (OCc1846). Observations are highly desired

18 Jun 22 2 34 29.8 D 1923cK0 7.0* 67+ 110 -8 45 198 66S 138 124 115
 1923 is double: AB 7.02 10.85 0.27" 273.0, dT = -0.5sec
 1923 is a close double. Observations are highly desired

18 Jun 22 5 36 15.8 d 139356kA3 8.4 8.3 68+ 112 22 244 16N 39 354 17
 *** A light curve is desired as 139356 is in the Kepler2 program {ID = 212833004}

18 Jun 23 2 49 45.9 d 139803SF2 8.5 77+ 123 -10 42 187 51N 74 69 54
 139803 is triple: AB 9.38 8.98 0.52" 35.2, dT = +1.6sec : AB,C 9.4 10.2 88" 282.1, dT = -307sec
 139803 is a close double. Observations are highly desired

18 Jun 23 4 49 39.3 D 2043cK0 6.5 5.8 77+ 123 32 221 60N 82 50 62
 2043 is double: ** 7.4 7.4 0.10" 90.0, dT = +0.31sec
 2043 has been reported as non-instantaneous (OCc 16). Observations are highly desired

18 Jun 23 5 13 34.2 D 2047 K0 6.6* 6.0 77+ 123 29 227 77N 99 64 79

18 Jun 24 3 8 54.4 d 2148 B9 7.7* 7.7 85+ 134 38 178 46S 154 155 138

18 Jun 24 5 19 52.0 d 2158 A0 7.5 7.5 85+ 135 31 215 62N 83 55 67

18 Jun 25 8 4 58.8 D 2291WF7 5.5 5.2v 92+ 147 12 237 73N 91 48 80
 R2291 = 49 Librae
 2291 is double: AB 5.5 11.5 144" 337.3, dT = -142sec
 2291 = HIP 78400, 5.47, range 0.00, 4V, Type VAR, Period 0.45326 days

18 Jun 26 3 41 14.3 d 160069 K2 7.5 6.6 96+ 157 30 162 24N 40 55 33
 Distance of 160069 to Terminator = 12.8"; to 3km sunlit peak = 3.4"

18 Jun 26 5 15 25 d 2408 K5 6.6 5.6s 96+ 158 32 187 16S 179 174 173
 2408 = NSV 20760, 6.66 to 6.71, Hp
 Distance of 2408 to Terminator = 5.9"; to 3km sunlit peak = 0.0"

18 Jun 27 5 7 5.0 d 2532 G5 8.4 7.8 99+ 169 30 172 85N 101 108 100
 Distance of 2532 to Terminator = 17.3"; to 3km sunlit peak = 6.8"

18 Jun 29 6 44 58.2 r 187999kB9 8.1 8.1 99- 168 29 173 61S 229 236 239
 *** A light curve is desired as 187999 is in the Kepler2 program {ID = 216893948}

Distance of 187999 to Terminator = 15.1"; to 3km sunlit peak = 5.3"

18 Jun 30 4 49 12 r 2938 F0 7.5 7.3 96- 158 16 135 23S 191 228 205

Distance of 2938 to Terminator = 11.6"; to 3km sunlit peak = 2.7"

18 Jun 30 6 30 41.1 r 188998 K0 7.8 7.2 96- 157 27 157 68N 280 299 294

18 Jun 30 10 17 27.4 r 2955 A3 7.9 7.8 96- 156 -7 23 215 74N 274 246 288

18 Jul 1 8 44 29.1 r 164111CF3 7.6 91- 146 33 179 56N 289 290 308

164111 is double: AB 7.91 8.79 1.01" 333.8, dT = -2.9sec
164111 is a close double. Observations are highly desired

18 Jul 3 9 9 31.1 R 3327 K2 6.8 6.1 78- 124 37 159 50S 211 227 234

18 Jul 4 6 11 22.5 r 3446pK0 7.2 6.5 70- 113 9 109 45N 294 342 318

*** A light curve is desired as 3446 is in the Kepler2 program {ID = 246040978}
3446 is triple: **Aa 7.9 7.9 0.050" 34.0, dT = +0.03sec : AB 7.2 7.7 6.9" 147.0, dT = +18sec
3446 has been reported as non-instantaneous (OCc1091). Observations are highly desired

18 Jul 5 8 23 55.6 r 25 G6 7.4 6.9 60- 101 28 121 53N 285 327 309

18 Jul 6 9 57 8.5 r 151 K5 8.2 7.4 49- 89 -11 39 129 62S 220 257 243

18 Jul 7 8 42 41.0 r 110173wK0 8.8 8.2 39- 77 21 101 68S 226 276 247

110173 is double: AB 10.1 10.6 31" 121.0, dT = +17sec

18 Jul 9 8 27 3.5 r 93514kA0 8.5 8.3 19- 52 4 76 61S 223 274 236

*** A light curve is desired as 93514 is in the Kepler2 program {ID = 210392554}

18 Jul 9 9 21 21.8 r 93529pF8 8.9 8.6 19- 51 15 84 86N 256 309 269

*** A light curve is desired as 93529 is in the Kepler2 program {ID = 210406057}
93529 is triple: Aa,Ab 9.0 12.2 0.27" 65.5, dT = +0.46sec : AB 9.0 11.5 77" 17.0, dT = +70sec
93529 is a close double. Observations are highly desired

18 Jul 9 9 35 59.8 R 526 G5 6.7 6.2 19- 51 17 86 33N 309 2 322

18 Jul 9 9 41 35.7 r 93531kA0 8.7 8.6 19- 51 18 87 75N 267 320 280

*** A light curve is desired as 93531 is in the Kepler2 program {ID = 210411411}

18 Jul 9 9 59 59.0 r 93548cG5 7.9 7.3 18- 51 -11 22 90 41S 204 257 216

93548 is double: ** 8.3 10.5 0.030" 276.0, dT = -0.02sec
93548 has been reported as non-instantaneous (OCc1015). Observations are highly desired

18 Jul 11 10 24 27 m 862 K0 7.3* 6.6 4- 23 -7 8 72 0S 169 220 169

18 Jul 16 3 8 37.9 d 1542KA2 8.3 8.2 13+ 42 8 277 82S 117 65 94

*** A light curve is highly desired as 1542 is in the Kepler2 program {ID = 248820353}

18 Jul 19 2 57 38.7 d 139201 G5 8.7* 8.4 42+ 81 29 239 41N 63 21 40

18 Jul 21 5 37 46.8 D 2128 G7 5.8 5.3 64+ 106 11 244 61N 79 33 63

R2128 = 13 Librae

18 Jul 22 6 2 1.9 D 2247 A6 5.4* 5.3 73+ 118 12 238 58S 137 93 124

R2247 = eta Librae

18 Jul 24 2 30 37.0 d 160464wF5 8.0 7.8 88+ 139 -9 29 163 62N 70 84 67

160464 is double: AB 8.1 12.7 14.8" 270.0, dT = -51sec

18 Jul 24 3 43 10.5 d 185314kG0 8.6 8.3 88+ 140 31 182 78S 110 108 107

*** A light curve is desired as 185314 is in the Kepler2 program {ID = 234254505}

18 Jul 24 4 27 32.9 d 185337kK0 8.0 7.4 88+ 140 30 194 89N 96 84 93

*** A light curve is desired as 185337 is in the Kepler2 program {ID = 234257385}

18 Jul 24 4 38 8.8 d 2503kk0 7.8 7.1 88+ 140 29 197 84N 91 78 89

*** A light curve is desired as 2503 is in the Kepler2 program {ID = 234259578}

18 Jul 25 3 57 11.5 d 186483 B9 8.4* 8.3 94+ 151 30 173 76N 78 84 81

18 Jul 25 5 4 44 m 2633SB2 3.8* 3.7e 94+ 151 29 191 0N 3 353 5

R2633 = mu Sagittarii

2633 is multiple: AB 3.8 10.5 17.0" 257.8 : AC 3.8 12.8 25.5" 119.1 : AD 3.8 10.0 48" 311.9 :
AE 3.8 9.2 51" 114.0

2633 = mu. Sgr, 3.8 to 3.88, V, Type EA+ACYG, Period 180.55 days, Phase 15 %

Distance of 2633 to Terminator = 0.0"; to 3km sunlit peak = 0.0"

18 Jul 26 3 45 9.1 d X163643p 8.0 7.7 97+ 162 26 158 82S 95 113 103

*** A light curve is desired as X163643 is in the Kepler2 program {ID = 216896381}
X163643 is double: BA 8.1 7.9 1.3" 2.9, dT = -0.13sec
X163643 is a close double. Observations are highly desired

18 Jul 26 3 45 9.2 d 2778DF8 7.3* 97+ 162 26 158 82S 95 113 103

2778 is double: AB 7.87 8.06 1.25" 182.9, dT = +0.12sec
2778 is a close double. Observations are highly desired

18 Jul 26 4 27 55.7 D 2779wK0 3.8 3.2 98+ 162 29 169 21S 156 166 164

R2779 = omicron Sagittarii

2779 is double: AB 3.8 13.8 39" 253.1, dT = -36sec
Distance of 2779 to Terminator = 6.1"; to 3km sunlit peak = 0.0"

18 Jul 26 5 4 17.1 r 2779wK0 3.8 3.2 98+ 162 29 178 -25S 201 203 209

R2779 = omicron Sagittarii

2779 is double: AB 3.8 13.8 39" 253.1, dT = -192sec

18 Jul 30 6 9 13.9 R 3288 K0 5.8 5.3 95- 153 30 144 59S 224 252 247

R3288 = 50 Aquarii

18 Jul 30 6 19 25.6 r 165049 M3 7.7 6.9s 95- 153 32 147 40N 305 331 328

165049 = NSV 25892, 7.70, range 0.02, 2V, Type VAR, Period 16.15248 days

18 Jul 30 10 30 0.3 R 3303kF2 6.4 6.2 94- 152 -9 30 218 51S 216 186 239

*** A light curve is desired as 3303 is in the Kepler2 program {ID = 206068930}

18 Jul 31 7 19 1.3 r 3409 K0 7.0 6.4 89- 142 36 149 80S 243 267 267

18 Jul 31 8 25 45.3 d 3419SK0 4.2 3.7 89- 142 41 168 -58N 40 49 64

R3419 = psi 1 Aquarii

3419 is triple: A,BC 4.4 9.9 49" 312.0, dT = +6sec : AD 4.4 13.5 114" 272.8, dT = -217sec

18 Jul 31 9 48 37.9 R 3419SK0 4.2 3.7 89- 141 41 196 81N 261 249 286
R3419 = psi 1 Aquarii
3419 is triple: A,BC 4.4 9.9 49" 312.0, dT = -96sec : AD 4.4 13.5 114" 272.8, dT = -347sec

18 Jul 31 9 59 51.4 d 3425cB5 4.4 4.5v 89- 141 40 199 -31S 131 117 156
R3425 = psi 2 Aquarii
3425 is double: ** 5.4 5.4 0.10" 90.0, dT = +0.7sec
3425 has been reported as non-instantaneous (OCc1639). Observations are highly desired
3425 = psi 2 Aqr, 4.40, range 0.06, b, Type BE:, Period 1.073 days

18 Jul 31 10 27 47.7 R 3425cB5 4.4 4.5v 89- 141 -10 38 207 7S 169 147 193
R3425 = psi 2 Aquarii
3425 is double: ** 5.4 5.4 0.10" 90.0, dT = -0.18sec
3425 has been reported as non-instantaneous (OCc1639). Observations are highly desired
3425 = psi 2 Aqr, 4.40, range 0.06, b, Type BE:, Period 1.073 days
Distance of 3425 to Terminator = 4.0"; to 3km sunlit peak = 0.0"

18 Aug 1 6 0 7.6 r 147000 F8 8.1 7.8 83- 131 23 118 54N 287 330 311
18 Aug 1 8 0 30 m 3534 G5 8.6 8.2 82- 130 40 146 9N 331 357 356
Distance of 3534 to Terminator = 16.6"; to 3km sunlit peak = 3.2"

18 Aug 1 8 56 45.7 r 147044 G5 8.5 8.0 82- 130 45 164 62S 223 235 247
18 Aug 1 9 16 54.0 r 128548 F2 8.5 8.3 82- 130 46 171 50S 210 218 235
18 Aug 2 8 17 50 m 128965 K0 7.6 6.9 74- 119 41 136 9N 331 4 354
18 Aug 2 9 36 55 M 106kK0 6.6 5.9 74- 118 49 161 11N 329 344 352
*** A light curve is desired as 106 is in the Kepler2 program {ID = 220194189}

18 Aug 2 10 50 41.9 r 128992 K0 8.7 8.1 73- 118 -6 50 189 44S 204 197 227
18 Aug 3 8 46 32.6 r 110007dA* 8.6 8.5 64- 107 42 128 87N 253 291 275
110007 is double: AB 8.7 14.2 3.8" 319.0, dT = -4sec
110007 is a close double. Observations are highly desired

18 Aug 4 6 15 32.5 r 346 A5 7.3 7.1 55- 96 10 88 71N 271 322 290
18 Aug 4 8 56 47.2 d 364 B9 4.3 4.3 54- 94 40 115 -69N 51 96 69
R364 = xi 2 Ceti

18 Aug 4 10 11 15.0 R 364 B9 4.3 4.3 53- 94 51 135 89N 253 287 272
R364 = xi 2 Ceti

18 Aug 4 10 29 41.5 r 110558 M0 8.9 7.9s 53- 94 -10 54 141 54S 216 245 234
110558 = NSV 15521, 8.87 to 9., Hp

18 Aug 4 10 33 11.1 r 110550cG0 9.0 8.7 53- 94 -9 54 142 59N 283 311 301
110550 is double: AB 9.5 9.8 0.61" 182.3, dT = +0.38sec
110550 is a close double. Observations are highly desired

18 Aug 4 10 36 44.5 r 110556 G5 8.4 7.7 53- 94 -9 55 144 36N 306 334 324
18 Aug 5 9 24 11.2 r 479 K5 8.2 7.2 43- 82 39 107 76N 269 319 283
18 Aug 5 9 26 6.9 r 93383 K2 8.7 8.0 43- 82 39 107 40N 305 355 319
18 Aug 5 9 56 19.7 r 93398 F5 7.3 7.1 43- 82 44 113 53S 217 264 231
18 Aug 6 7 47 31.2 r 93806cA0 7.7 7.6 33- 70 13 80 82N 266 318 275
93806 is double: AB 8.2 8.3 297.2, dT = +5sec
93806 is a close double. Observations are highly desired

18 Aug 6 10 31 21.1 R 627 K1 6.6 6.0 32- 68 -10 44 106 61N 287 338 296
18 Aug 7 10 32 26.2 r X 73437S 8.3 8.2 21- 55 -10 34 93 25S 198 253 201
X 73437 is triple: Ba,Bb 8.5 11.0 0.70" 160.7, dT = -2sec : BA 8.3 7.7 2.3" 335.6, dT = +6sec
X 73437 is a close double. Observations are highly desired

18 Aug 7 10 32 30.6 R 787DB3 7.1 7.1 21- 55 -10 34 93 25S 198 253 201
787 is double: AB 7.7 8.3 2.3" 155.6, dT = -6sec
787 is a close double. Observations are highly desired

18 Aug 8 8 36 13.4 r 95383 A9 8.3 8.2 13- 42 3 67 81S 259 309 256
18 Aug 9 9 58 21.4 R 79298 B9 8.2 8.2 6- 27 7 70 67N 297 348 288
18 Aug 16 3 29 37.9 d 139525kG5 8.8 8.5 28+ 63 7 256 85S 113 64 92
*** A light curve is desired as 139525 is in the Kepler2 program {ID = 212778628}

18 Aug 16 3 33 39.9 d 139528kK0 7.2 6.7 28+ 63 7 257 56N 75 25 54
*** A light curve is desired as 139528 is in the Kepler2 program {ID = 212784161}

18 Aug 18 2 21 14 d 159216kG0 8.7 8.4 47+ 87 27 220 13N 28 357 13
*** A light curve is desired as 159216 is in the Kepler2 program {ID = 250127975}

18 Aug 18 2 25 18.2 d 159219 K1 7.6 7.0 48+ 87 27 220 54S 141 109 127
18 Aug 18 2 38 14.0 d 2200 K0 7.5* 7.0 48+ 87 25 223 74S 121 87 107
18 Aug 20 5 4 33.0 d 160316 K0 8.0 7.4 68+ 111 14 230 68N 75 35 71
18 Aug 21 4 37 9.8 d 186057 K1 7.9 7.1 76+ 122 22 214 73N 74 46 75
18 Aug 22 6 45 55.6 d 2746 G8 5.7 5.1 84+ 133 12 230 68N 64 25 71
R2746 = 33 Sagittarii

18 Aug 23 3 9 3.3 d 188413wF2 8.5 8.2 90+ 143 29 168 71N 62 72 73
188413 is double: AB 8.5 13.3 15.8" 75.4, dT = +53sec

18 Aug 23 3 39 26.8 d 188422 B5 7.9 7.9 90+ 143 30 176 28S 143 146 154
18 Aug 23 3 43 39.9 d 188427 G5 8.2 7.9 90+ 143 30 177 43S 127 130 139
18 Aug 23 4 20 29.7 d 2877cK0 7.8 7.1 90+ 144 30 187 25N 15 10 27
2877 is double: ** 8.0 9.4 0.021" 32.0, dT = +0.16sec
2877 has been reported as non-instantaneous (OCc1690). Observations are highly desired

18 Aug 23 4 53 11.4 d 188460cG5 8.5 8.0 90+ 144 29 195 41N 32 19 43
188460 is double: ** 9.7 9.7 0.050" 350.0, dT = +0.17sec
188460 has been reported as non-instantaneous (OCc1583). Observations are highly desired

18 Aug 24 6 11 21.4 d 3003 B9 7.8 7.8 95+ 155 28 203 78N 62 43 78
18 Aug 25 1 59 1.2 d 3115 F0 7.1 6.9 98+ 165 -11 16 129 77N 53 92 72

R3115 = 31 Capricorni

18 Aug 26 2 29 17.0 d 3240 A2 6.7 6.6 100+ 175 16 124 72S 53 94 75
Distance of 3240 to Terminator = 3.1"; to 3km sunlit peak = 0.0"

18 Aug 28 8 5 2.4 R 3506cK4 6.1 5.3s 97- 159 45 188 41S 210 204 234
3506 is double: ** 7.1 7.1 0.10" 90.0, dT = +0.16sec
3506 has been reported as non-instantaneous (OCc 53). Observations are highly desired
3506 = NSV 14715, 5.01 to 5.26, I

18 Aug 29 3 30 49.9 r 60 K2 6.9 6.1 93- 149 12 103 20S 186 235 210
Distance of 60 to Terminator = 18.9"; to 3km sunlit peak = 6.9"

18 Aug 30 4 10 39.8 r 109787MK0 7.6 87- 137 14 99 65S 229 280 252
109787 is triple: AB 7.71 10.69 1.77" 277.0, dT = -2.6sec : AC 7.7 11.6 47" 176.0, dT = -61sec
109787 is a close double. Observations are highly desired

18 Aug 30 4 13 33.1 r 109783WG5 7.3 6.7 87- 137 15 99 75N 270 320 292
109783 is double: AB 7.4 9.6 39" 103.7, dT = +86sec

18 Aug 30 9 52 9.3 r 109875pF8 8.6 8.4 86- 135 53 197 80N 264 250 286
*** A light curve is desired as 109875 is in the Kepler2 program {ID = 220320436}
109875 is double: A,BC 9.4 11.9 34" 261.6, dT = -103sec

18 Aug 30 10 8 13.2 r 208pF0 7.0 6.8S 86- 135 52 203 63S 227 209 249
*** A light curve is desired as 208 is in the Kepler2 program {ID = 220315860}
208 is double: AB 7.0 11.1 127" 43.3, dT = +357sec
208 = NSV 15302, 7., , Type VAR:

18 Aug 30 10 55 4 M 210DB9 6.6 6.7 85- 135 -10 48 220 13N 331 301 353
210 is double: AB 6.7 9.5 5.7" 329.5
210 is a close double. Observations are highly desired

18 Aug 31 6 4 30.9 r 110365 G0 8.7 8.4 78- 125 30 107 80S 245 294 265

18 Sep 1 6 39 36.0 R 444cK6 5.9 5.1 69- 112 30 101 44S 211 262 226
444 is double: ** 6.7 6.7 0.10" 161.0, dT = -0.17sec
444 has been reported as non-instantaneous (OCc 596). Observations are highly desired

18 Sep 1 7 34 36.8 r 93249 F0 8.1 7.8 69- 112 40 111 18S 184 232 200

18 Sep 1 10 33 37.3 R 453cM1 7.1* 6.2v 68- 111 63 174 70S 237 241 252
453 is double: ** 8.1 8.1 0.10" 54.0, dT = +0.27sec
453 has been reported as non-instantaneous (OCc 595). Observations are highly desired
453 = AQ Ari, 7.14 to 7.27, Hp, Type SRS:, Period 4.17 days

18 Sep 1 10 37 22.1 r 93278 F8 8.8* 8.5 68- 111 63 176 62S 228 231 244

18 Sep 2 6 5 2.8 r 576pG5 8.1* 7.4 59- 100 16 84 19S 188 241 200
*** A light curve is desired as 576 is in the Kepler2 program {ID = 210442768}
576 is double: AB 8.1 11.2 8.9" 104.1, dT = -4sec
576 is a close double. Observations are highly desired

18 Sep 2 9 33 2.3 r 93697kG0 8.4 8.0 58- 99 55 124 60S 229 271 240
*** A light curve is desired as 93697 is in the Kepler2 program {ID = 210480958}

18 Sep 2 11 8 41.2 r 592kG5 7.7 7.1 57- 98 -9 66 164 86N 264 277 274
*** A light curve is desired as 592 is in the Kepler2 program {ID = 210503728}

18 Sep 4 8 17 45.3 r 94934cB9 7.3* 7.3s 36- 73 23 83 45S 223 278 222
94934 = NSV 16706, 7.34, range 0.02, V

18 Sep 4 8 38 59.8 R 888cB9 6.0 5.7s 35- 73 28 86 65N 293 349 293
888 is double: ** 6.8 6.8 0.050" 350.0, dT = -0.06sec
888 has been reported as non-instantaneous (OCc1284). Observations are highly desired
888 = NSV 16714, 5.97 to 6.09, V, Type RS:, Period 66.32 days, Phase 9 %

18 Sep 4 8 44 49.1 r 94948 K0 7.7 7.1 35- 73 29 87 88S 266 322 266

18 Sep 4 8 48 28.5 d 895cB2 5.9 6.0s 35- 73 29 87 -82S 96 152 96
R895 = 57 Orionis
895 is double: AB 6.1 8.3 0.015" 110.0, dT = +0.03sec
895 is a close double. Observations are highly desired
895 = NSV 2722, 5.90, range 0.02, V, Type BCEP:

18 Sep 4 9 33 15.3 r 94988 K0 8.2* 7.6 35- 73 37 94 21S 200 255 199

18 Sep 4 9 49 33.6 r 94991 A0 8.4 8.4 35- 73 41 97 43S 222 277 221

18 Sep 4 9 49 34.2 R 895cB2 5.9 6.0s 35- 73 41 97 61S 239 294 238
R895 = 57 Orionis
895 is double: AB 6.1 8.3 0.015" 110.0, dT = +0.02sec
895 is a close double. Observations are highly desired
895 = NSV 2722, 5.90, range 0.02, V, Type BCEP:

18 Sep 4 11 5 55.7 r 95034 B8 9.0 8.9 35- 72 -9 55 113 78S 257 307 256

18 Sep 5 7 25 13.6 r 78793 K2 8.0 7.2 25- 60 3 67 30S 214 263 207

18 Sep 5 7 58 7.1 r 1048dK0 8.5 7.9 25- 60 9 71 76N 288 340 281
1048 is double: AB 8.5 12.0 6.9" 229.5, dT = -6sec
1048 is a close double. Observations are highly desired

18 Sep 5 8 20 34.8 r 78825 A2 8.9 9.0 25- 60 13 75 73N 291 344 284

18 Sep 5 9 14 59.7 r 78875 M0 8.9 8.0 25- 59 23 82 20S 204 260 197

18 Sep 5 10 27 43.4 R 78915 B9 7.8 7.8 24- 59 37 93 81N 283 339 276

18 Sep 5 11 15 22.4 r 1063 G5 8.1 7.6 24- 58 -8 46 101 86S 271 326 264

18 Sep 6 8 40 33.0 r 97372 A0 8.6 8.6 15- 46 6 70 63S 253 304 240

18 Sep 6 10 42 28 M 97491 B9 7.7 7.7 15- 45 28 86 10N 1 56 347

18 Sep 6 10 47 0.3 r 97479SF5 8.6 8.4 15- 45 29 87 68N 303 359 290
97479 is triple: AB 8.7 12.7 5.8" 264.1, dT = -10sec : AC 8.7 12.2 55" 227.7, dT = -31sec
97479 is a close double. Observations are highly desired

18 Sep 7 10 11 13.4 r 98303kG5 8.7 8.3 7- 31 10 76 63N 314 6 296

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*** A light curve is desired as 98303 is in the Kepler2 program {ID = 211800702}
18 Sep 7 10 12 25.2 R 1345cB9 7.4 7.4 7- 31 10 76 62S 259 311 241
R1345 = 68 Cancri
1345 is double: ** 7.9 7.9 0.050" 350.0, dT = 0.00sec
1345 has been reported as non-instantaneous (OCc1399). Observations are highly desired
18 Sep 7 11 19 17 m 1353kA2 8.1 8.0 7- 31 -7 22 85 11N 7 61 348
R1353 = 71 Cancri
*** A light curve is desired as 1353 is in the Kepler2 program {ID = 211805152}
18 Sep 13 2 17 4.3 d 139792 K0 8.2 7.6 14+ 44 4 256 63N 78 29 59
18 Sep 14 1 20 47.2 d 2148 B9 7.7* 7.7 22+ 56 -10 19 235 89N 102 62 86
18 Sep 16 2 54 54.8 d 160106kG8 8.1 7.7 41+ 80 14 230 53S 133 94 127
*** A light curve is desired as 160106 is in the Kepler2 program {ID = 205123559}
18 Sep 16 3 15 29.3 d 160112kK5 8.3 7.4 41+ 80 11 233 66S 120 78 114
*** A light curve is desired as 160112 is in the Kepler2 program {ID = 205129674}
18 Sep 17 0 55 10.0 d 2532 G5 8.4 7.8 51+ 91 -6 30 191 60N 62 53 61
18 Sep 18 0 55 27.6 d 186876 A0 8.7 8.6 60+ 102 -7 29 178 89N 86 88 91
18 Sep 18 1 48 23.7 d 2683 B9 8.4 8.4 60+ 102 28 192 65S 112 102 116
18 Sep 18 2 10 46.0 d 186907 K5 8.5 7.6 61+ 102 28 198 61N 58 43 62
18 Sep 19 0 52 48.3 d 187999kB9 8.1 8.1 69+ 113 -7 28 165 82S 91 103 100
*** A light curve is desired as 187999 is in the Kepler2 program {ID = 216893948}
18 Sep 19 1 44 7.0 d 188027 F3 8.6 8.4 70+ 113 30 178 52S 121 122 130
18 Sep 19 4 54 3.2 d 188118 B8 8.0 8.1 70+ 114 16 223 31S 141 106 150
18 Sep 19 4 56 15.9 d 188123 K5 7.0 6.2 70+ 114 16 224 73N 65 30 75
18 Sep 20 0 51 27.8 d 188998 K0 7.8 7.2 78+ 124 -7 26 152 44N 31 54 45
18 Sep 20 1 21 48.4 d 189003 K5 8.6 7.8 78+ 124 28 160 27N 14 30 28
18 Sep 20 4 36 25.9 d 2955 A3 7.9 7.8 78+ 125 25 210 47N 34 10 49
18 Sep 20 5 16 27.9 d 189104 K0 7.9 7.3 79+ 125 21 219 50N 37 5 51
18 Sep 21 2 53 37.3 d 164113 F0 8.2 8.0s 85+ 135 32 171 39S 122 130 141
164113 = NSV 25446, 8.23 to 8.33, Hp
18 Sep 21 3 15 14.5 d 164111CF3 7.6 85+ 135 33 177 30N 12 14 30
164111 is double: AB 7.91 8.79 1.01" 333.8, dT = +5sec
164111 is a close double. Observations are highly desired
18 Sep 21 5 27 4.9 d X 49754 K2 8.2 7.4 86+ 136 27 212 78N 59 34 78
18 Sep 22 4 23 22.6 d 3210cK2 7.2 92+ 146 36 183 68N 44 42 66
3210 is double: AB 7.31 10.16 0.30" 79.0, dT = +0.8sec
3210 is a close double. Observations are highly desired
18 Sep 22 6 18 58.3 d 3217wA2 7.4 7.3 92+ 147 29 215 73S 83 56 104
3217 is double: AB 7.4 11.1 17.2" 326.4, dT = -22sec
18 Sep 23 2 46 8.4 d 3327 K2 6.8 6.1 96+ 157 31 143 53S 97 126 120
18 Sep 23 6 32 20.1 d 3338 K0 8.3 7.8 96+ 158 35 209 78S 71 49 95
18 Sep 24 8 31 37.8 d 146801pA3 7.9 99+ 170 30 230 66S 67 30 91
*** A light curve is desired as 146801 is in the Kepler2 program {ID = 246101155}
146801 is triple: AB 8.60 8.77 0.50" 134.0, dT = +0.5sec : AB,C 7.9 11.4 21.5" 301.0, dT = -32sec
146801 is a close double. Observations are highly desired
Distance of 146801 to Terminator = 12.8"; to 3km sunlit peak = 3.7"
18 Sep 26 6 29 4.0 r 109684kF2 8.7 8.4 98- 166 52 164 82S 261 273 284
*** A light curve is desired as 109684 is in the Kepler2 program {ID = 220240304}
18 Sep 27 8 38 39.7 r 110255 F8 8.7 8.5 95- 153 56 200 68N 283 268 304
18 Sep 27 9 24 5.7 r 292 K5 8.6 8.0 95- 153 52 217 52N 299 271 319
18 Sep 28 4 16 40.1 d 405SF1 4.3 4.1S 90- 143 26 98 -42N 32 84 49
R405 = mu Ceti
405 is multiple: Aa,Ad 2.6 0.021" 243.0, dT = -0.04sec : Aa,Ab 4.2 6.2 0.10" 193.0, dT = -0.23sec :
Aa,Ac 2.3 0.25" 63.0, dT = +0.5sec : AB 4.2 13.6 160" 342.5, dT = +253sec
405 is a close double. Observations are highly desired
405 = NSV 909, 4.27, , Type RS:
18 Sep 28 5 13 4.6 R 405SF1 4.3 4.1S 90- 142 36 108 73N 277 326 294
R405 = mu Ceti
405 is multiple: Aa,Ad 2.6 0.021" 243.0, dT = -0.05sec : Aa,Ab 4.2 6.2 0.10" 193.0, dT = -0.03sec :
Aa,Ac 2.3 0.25" 63.0, dT = +0.6sec : AB 4.2 13.6 160" 342.5, dT = -174sec
405 is a close double. Observations are highly desired
405 = NSV 909, 4.27, , Type RS:
18 Sep 28 11 38 23.4 r 426 A3 8.4 8.2 88- 140 -8 43 246 55N 295 248 311
18 Sep 29 5 57 45.7 R 526 G5 6.7 6.2 82- 130 38 103 45S 216 267 229
18 Sep 29 9 15 56.1 r 93570 F8 8.6 8.3 81- 128 66 170 89S 261 268 273
18 Sep 30 6 0 47.6 r 94018kK3 7.2 6.6 73- 117 30 92 16S 190 244 197
*** A light curve is desired as 94018 is in the Kepler2 program {ID = 246924831}
18 Sep 30 6 26 57.9 R 94019pK5 6.7 5.8 73- 117 35 96 67S 242 296 249
*** A light curve is desired as 94019 is in the Kepler2 program {ID = 246946353}
94019 is double: ** 7.9 7.9 0.050" 89.0, dT = +0.09sec
94019 has been reported as non-instantaneous (OCc 954). Observations are highly desired
18 Sep 30 8 20 8.4 r 94047kF0 7.9 7.7 72- 116 56 120 45S 219 264 226
*** A light curve is desired as 94047 is in the Kepler2 program {ID = 246967551}
18 Sep 30 9 2 22.4 r 705kK0 7.9* 7.2 72- 116 62 134 40S 214 250 221
*** A light curve is desired as 705 is in the Kepler2 program {ID = 246975820}
18 Oct 1 7 31 35.4 r 94662 G5 8.8 8.4 62- 103 38 95 57S 236 291 237
18 Oct 1 7 46 23.2 r 94670 A2 8.1 7.9 62- 103 41 97 65N 294 349 295

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18 Oct 1 8 7 27.5 r 94684cB9 7.2 61- 103 45 101 61S 240 294 241
 94684 is double: AB 7.23 10.88 0.80" 69.5, dT = +1.8sec
 94684 is a close double. Observations are highly desired
 18 Oct 1 8 12 4.3 r 94685 B8 8.6 8.6 61- 103 46 102 71S 250 304 251
 18 Oct 1 9 3 1.7 r 846 A0 8.9 8.8 61- 103 55 114 90N 269 319 270
 18 Oct 1 9 55 16.0 r 94723 K0 7.8 7.0 61- 103 64 130 70S 249 288 250
 18 Oct 1 10 18 28.6 r 94739 B9 7.6 7.6 61- 102 67 141 38S 217 249 218
 18 Oct 1 11 9 56.6 r 856 K5 8.1 7.2 60- 102 71 172 66N 293 300 294
 18 Oct 2 5 13 43.1 R 995SB6 4.1* 4.2v 51- 92 3 66 58S 241 290 237
 R995 = nu Geminorum
 995 is multiple: Aa,Ab 4.1 5.1 0.09" 129.3, dT = +0.06sec : AP 4.1 15.1 24.7" 359.1, dT = +20sec :
 AD 4.1 12.9 53" 56.0, dT = +89sec : AQ 4.1 13.9 55" 14.1, dT = +64sec
 995 is a close double. Observations are highly desired
 995 = HIP 30883, 4.136 to 4.15, 6V, Type BCEP, Period 0.107322 days, Phase 59 %
 18 Oct 2 7 21 1.3 r X 9337 K7 8.9 8.0 50- 91 26 84 64N 299 355 294
 18 Oct 2 10 5 55.5 r 78609 M0 8.0 7.2v 49- 89 56 114 36S 220 270 215
 78609 = ASAS J063959+2029.2, 7.89, range 0.16, V, Type MISC, Period 68.4 days, Phase 29 %
 18 Oct 2 10 25 34.0 r 78626cA0 8.5 8.5 49- 89 60 119 36N 328 15 323
 78626 is double: ** 9.4 9.4 0.10" 55.0, dT = -0.03sec
 78626 has been reported as non-instantaneous (OCc 884). Observations are highly desired
 18 Oct 2 10 54 39.0 r 78632wG5 7.4* 6.9 49- 89 65 130 69S 253 293 247
 78632 is double: AB 7.5 13.4 18.4" 203.0, dT = -30sec
 18 Oct 3 7 25 30.5 r 79526 K 8.3 7.5 39- 77 16 77 54N 315 9 304
 18 Oct 3 8 18 4.9 r 79547 K7 8.6 7.7 39- 77 25 84 61S 250 305 239
 18 Oct 3 8 24 10.4 R 1150cK0 6.7 6.1 39- 77 27 85 83S 272 328 261
 1150 is double: ** 7.6 7.6 0.10" 90.0, dT = +0.19sec
 1150 has been reported as non-instantaneous (OCc1368). Observations are highly desired
 18 Oct 3 8 33 36.5 r 79560 K5 8.8 8.0 39- 77 28 86 62N 307 3 296
 18 Oct 3 8 56 54.0 r 79577 A2 8.8 8.8 38- 77 33 89 41N 328 24 317
 18 Oct 3 9 25 22.5 R 79583cF0 7.3 7.1 38- 76 38 94 78S 267 323 256
 79583 is double: ** 8.0 9.5 0.050" 220.0, dT = -0.07sec
 79583 has been reported as non-instantaneous (OCc1370). Observations are highly desired
 18 Oct 3 11 26 45.0 r 79639 B9 8.2 8.2 38- 76 -11 60 121 73S 263 308 251
 18 Oct 4 8 0 52.0 r 1286 F8 8.8 8.6 28- 64 11 75 86N 289 341 273
 18 Oct 4 9 7 54.5 r 98008kA2 8.9 8.8s 27- 63 23 84 53N 322 16 305
 *** A light curve is desired as 98008 is in the Kepler2 program {ID = 211888138}
 98008 = NSV 17947, 8.88 to 9., Hp
 18 Oct 4 9 48 3.3 r 98036 G5 8.9 8.4 27- 63 30 90 64N 312 7 295
 18 Oct 4 10 38 0.7 D 1310SK0 3.9 3.4 27- 62 39 98 -80S 115 169 98
 R1310 = Asellus Australis = Delta Cancr
 1310 is triple: Aa,Ab 3.9 4.9 22.5, dT = +0.05sec : AB 3.9 12.2 41" 70.2, dT = +64sec
 18 Oct 4 10 55 22.4 r 1307 K0 8.0 7.4 27- 62 43 102 53S 248 301 231
 R1307 = 44 Cancr
 18 Oct 4 11 46 50.1 R 1310SK0 3.9 3.4 27- 62 -7 52 113 65S 261 310 244
 R1310 = Asellus Australis = Delta Cancr
 1310 is triple: Aa,Ab 3.9 4.9 22.5, dT = -0.7sec : AB 3.9 12.2 41" 70.2, dT = +97sec
 18 Oct 5 8 34 42.6 r 98676 F2 8.0 7.8S 18- 50 4 74 46S 246 296 225
 98676 = NSV 4550, 8.3,
 18 Oct 5 8 43 33.4 r 98678cF8 8.8 18- 50 6 75 87N 293 344 273
 98678 is double: AB 9.23 9.87 0.28" 254.3, dT = -0.37sec
 98678 is a close double. Observations are highly desired
 18 Oct 7 10 46 43.4 r 1682kG0 8.8 8.5 4- 22 3 84 83N 309 0 285
 *** A light curve is desired as 1682 is in the Kepler2 program {ID = 201860653}
 18 Oct 7 11 14 6.1 R 1684kK0 6.8 6.3 4- 22 8 89 21S 234 285 209
 *** A light curve is desired as 1684 is in the Kepler2 program {ID = 201839927}
 18 Oct 7 11 33 14 m 1690 K5 8.7 7.9 4- 22 -10 11 91 13N 19 71 355
 18 Oct 7 11 38 58.4 r 118952kA2 7.1 7.0 4- 22 -9 13 92 75S 287 339 263
 *** A light curve is desired as 118952 is in the Kepler2 program {ID = 201848261}
 18 Oct 12 1 17 31.8 d 159338 K5 8.5 7.7 10+ 36 4 246 32S 157 109 143
 18 Oct 13 1 54 0.8 D 2361 B2 4.2 4.1v 17+ 48 4 242 61S 125 78 117
 R2361 = chi Ophiuchi
 2361 = khi Oph, 4.14 to 4.77, V, Type GCAS+LERI, Period 0.649 days
 18 Oct 14 1 24 25.8 d 185258pF0 8.6* 8.4v 25+ 60 15 227 87S 95 58 92
 *** A light curve is desired as 185258 is in the Kepler2 program {ID = 234201903}
 185258 is double: AB 11.4 11.9 6.7" 72.8, dT = +16sec
 185258 is a close double. Observations are highly desired
 185258 = ASAS J171852-2030.0, 8.549, range 0.09, V, Type DSCT|BCEP|E, Period 0.141152 days, Phase 16 %
 18 Oct 14 1 31 16.5 d 185255 K0 8.6* 8.1 25+ 60 14 228 52S 131 92 128
 18 Oct 14 1 32 58.8 d X 42183wF2 8.8* 8.6 25+ 60 14 228 72S 111 72 108
 X 42183 is double: AB 8.8 13.0 19.9" 302.5, dT = -52sec
 18 Oct 15 0 12 22.4 d X 43428 B 8.5 8.2 33+ 71 -7 27 200 64N 63 46 65
 18 Oct 15 3 9 19.7 D 2635 K2 5.5 4.7s 34+ 72 6 236 72S 106 62 109
 R2635 = 14 Sagittarii
 2635 = NSV 10393, 5.36 to 5.50, V
 18 Oct 16 0 29 57.5 d 187591 A2 8.7 8.6v 43+ 82 -10 28 192 42S 132 122 140
 187591 = ASAS J190200-2205.6, 8.443, range 0.04, 7Ic, Type VAR, Period 0.14364 days

18 Oct 16 2 15 49.8 D 2779wK0 3.8 3.2 43+ 82 20 217 70N 63 33 71
R2779 = omicron Sagittarii
2779 is double: AB 3.8 13.8 39" 253.2, dT = -112sec

18 Oct 16 3 31 13.9 r 2779wK0 3.8 3.2 44+ 83 10 232 -76N 277 236 285
R2779 = omicron Sagittarii
2779 is double: AB 3.8 13.8 39" 253.2, dT = -92sec

18 Oct 18 0 37 11.2 d 3026 K1 7.4 6.9 62+ 104 31 169 57N 42 51 59
18 Oct 18 2 29 0.5 d 163857 G0 8.8 8.3 62+ 104 30 199 43N 27 12 44
18 Oct 18 2 29 37.1 d 163869 F0 7.6 7.4 62+ 104 30 199 55S 109 94 126
18 Oct 18 3 37 29.4 d 3035 F3 6.8 6.6 63+ 105 24 215 67S 98 69 115
18 Oct 19 1 52 28.1 d 164494 G5 8.8 8.3 71+ 115 34 176 62N 42 45 62
18 Oct 19 2 35 24.0 d 164504dK0 8.8 8.2 71+ 115 34 188 66N 46 39 66
164504 is double: AB 8.9 12.3 8.9" 148.1, dT = -6sec
164504 is a close double. Observations are highly desired

18 Oct 19 2 56 41.6 d 164510 A0 8.8 8.7 71+ 115 33 194 87S 73 61 93
18 Oct 20 2 42 0.5 D 3288 K0 5.8 5.3 80+ 126 38 177 78S 79 81 101
R3288 = 50 Aquarii

18 Oct 20 3 38 27.8 d 165049 M3 7.7 6.9s 80+ 126 37 195 21N 357 346 20
165049 = NSV 25892, 7.70, range 0.02, 2V, Type VAR, Period 16.15248 days

18 Oct 20 4 7 27.7 r 3288 K0 5.8 5.3 80+ 127 35 203 -71S 227 209 250
R3288 = 50 Aquarii

18 Oct 20 6 50 18.0 d 3303kF2 6.4 6.2 80+ 128 15 239 58S 98 54 121
*** A light curve is desired as 3303 is in the Kepler2 program {ID = 206068930}

18 Oct 21 3 24 24.9 d 3409 K0 7.0 6.4 87+ 138 42 176 75S 77 80 101
18 Oct 21 5 48 14.2 D 3419SK0 4.2 3.7 87+ 138 33 220 88S 65 34 89
R3419 = psi 1 Aquarii
3419 is triple: A,BC 4.4 9.9 49" 312.0, dT = -50sec : AD 4.4 13.5 114" 272.8, dT = -266sec

18 Oct 21 7 4 23.9 r 3419SK0 4.2 3.7 88+ 139 22 237 -85S 238 196 262
R3419 = psi 1 Aquarii
3419 is triple: A,BC 4.4 9.9 49" 312.0, dT = -32sec : AD 4.4 13.5 114" 272.8, dT = -224sec

18 Oct 22 1 35 12.1 d 147000 F8 8.1 7.8 93+ 148 32 130 74N 42 79 67
18 Oct 22 4 14 46.3 d 3534 G5 8.6 8.2 93+ 149 46 178 57N 25 27 50
18 Oct 22 4 45 31.4 d 147044 G5 8.5 8.0 93+ 149 46 189 23S 125 118 149
18 Oct 22 8 10 48.7 d 128587 F8 8.2* 7.9 94+ 151 22 244 69S 79 34 103
18 Oct 23 3 34 10.9 d 128965 K0 7.6 6.9 97+ 161 46 147 80N 42 66 65
18 Oct 23 4 51 45.0 D 106kK0 6.6 5.9 97+ 161 51 175 76N 37 41 61
*** A light curve is desired as 106 is in the Kepler2 program {ID = 220194189}

18 Oct 23 5 31 26.5 d 128980kG0 8.5 8.2 97+ 161 51 191 71N 32 24 56
*** A light curve is desired as 128980 is in the Kepler2 program {ID = 220197928}

18 Oct 24 0 40 28.3 d 109952 K0 7.4 6.6 99+ 170 13 96 74N 16 67 38
Distance of 109952 to Terminator = 12.2"; to 3km sunlit peak = 3.4"

18 Oct 25 3 36 30.6 d 364 B9 4.3 4.3 99- 172 40 115 -74S 131 176 149
R364 = xi 2 Ceti

18 Oct 25 4 3 0.4 r 364 B9 4.3 4.3 99- 172 44 122 -31S 173 215 192
R364 = xi 2 Ceti

18 Oct 25 5 50 25.2 r 110566 A5 7.0 6.8 99- 171 59 158 54S 255 272 273
Distance of 110566 to Terminator = 7.1"; to 3km sunlit peak = 0.3"

18 Oct 26 3 7 49.4 r 477 B8 7.8 7.6 97- 161 29 97 74N 287 340 302
18 Oct 26 7 50 22.1 r 93430 K0 8.7 7.9 97- 159 64 193 86N 273 263 287
18 Oct 27 5 12 25.6 r 93843 F2 8.4* 8.1 92- 147 44 106 75S 253 304 262
18 Oct 27 7 46 58.9 r 93886k 8.5 7.7 92- 147 67 159 78N 280 296 288
*** A light curve is desired as 93886 is in the Kepler2 program {ID = 210610210}

18 Oct 27 7 54 29 m 650cA1 5.6* 5.5s 92- 147 67 163 -17S 161 174 169
R650 = 63 Tauri
650 = NSV 15964, 5.64, range 0.02, V, Type VAR:

18 Oct 27 8 38 58.0 d 653SA7 4.8* 4.7 92- 146 68 191 -2N 359 350 7
R653 = 64 delta 2 Tauri
653 is triple: AC 4.4 9.6 10.9" 82.6, dT = +11sec : AB 4.8 14.6 148" 248.4, dT = -460sec

18 Oct 27 9 2 17.3 R 653SA7 4.8* 4.7 92- 146 67 205 31N 326 306 334
R653 = 64 delta 2 Tauri
653 is triple: AC 4.4 9.6 10.9" 82.6, dT = +43sec : AB 4.8 14.6 148" 248.4, dT = -275sec

18 Oct 27 9 21 22.8 r 93913cF6 7.0* 6.7 91- 146 65 215 52S 229 201 237
93913 is double: ** 7.6 10.6 0.18" 108.8, dT = +0.26sec
93913 has been reported as non-instantaneous (OCc 615). Observations are highly desired

18 Oct 27 10 25 46.0 r 93927kF0 7.5* 7.3 91- 146 56 240 69N 289 244 296
*** A light curve is desired as 93927 is in the Kepler2 program {ID = 210634047}

18 Oct 27 10 33 23.3 r 93934 G5 7.5 6.8 91- 146 54 242 38S 216 170 224
18 Oct 27 11 54 22.1 r 93958cG2 7.8 7.5v 91- 145 -10 40 260 45S 223 169 230
93958 is double: ** 9.0 9.0 0.50" 279.0, dT = -0.8sec
93958 has been reported as non-instantaneous (OCc 532). Observations are highly desired
93958 = V0920 Tau, 7.81 to 7.87, V, Type BY, Period 7.451 days, Phase 86 %

18 Oct 28 7 44 29 M 798pK0 6.2 5.6 84- 134 63 128 14N 345 26 348
*** A light curve is desired as 798 is in the Kepler2 program {ID = 247220058}

18 Oct 28 7 51 29.3 R 796kA0 6.7 6.7v 84- 134 64 131 84N 276 314 278
*** A light curve is desired as 796 is in the Kepler2 program {ID = 247195129}
796 = V1159 Tau, 6.63 to 6.66, Hp, Type ACV, Period 1.63988 days, Phase 17 %

18 Oct 28 8 50 14.2 r 94494kA2 8.6 8.4 84- 133 70 162 45N 314 330 317
 *** A light curve is desired as 94494 is in the Kepler2 program {ID = 247222140}

18 Oct 28 9 31 35 m 94517 F5 8.4 8.1 84- 133 71 190 10N 349 341 352
 Distance of 94517 to Terminator = 16.7"; to 3km sunlit peak = 3.7"

18 Oct 29 5 28 58.6 r 78157 A2 8.6 8.6 76- 121 28 86 63S 247 303 244
 18 Oct 29 6 4 34.5 r 78189 A2 8.5 8.4 76- 121 35 91 29S 212 269 209
 18 Oct 29 6 39 28.7 r 78221 A5 8.6 8.4 76- 121 41 97 10S 194 249 190
 18 Oct 29 6 59 44.0 r 78223 B2 8.5 8.1v 76- 121 45 100 48S 232 287 228
 78223 = V0963 Ori, 8.47 to 8.5, V, Type BCEP:, Period 0.2 days

18 Oct 29 7 17 45 m 78252 K0 7.7 7.0 75- 121 49 103 13N 350 45 347
 18 Oct 29 11 44 8.8 r 78391 A3 8.3 8.2 74- 119 64 233 83N 281 239 277
 18 Oct 29 11 54 2.8 r 78406 A0 7.6 7.6 74- 119 -10 63 236 35N 329 285 325
 18 Oct 29 11 54 21.3 r 78394WG0 8.4* 7.8 74- 119 -10 62 236 55S 239 195 235
 78394 is double: BA 8.2 6.7 24.7" 21.9, dT = +57sec

18 Oct 29 11 55 11.0 R 989SK0 6.7 5.9 74- 119 -10 62 236 56S 241 197 236
 R989 = 15 Geminorum
 989 is multiple: AB 6.7 8.2 24.7" 201.9, dT = -55sec : AC 6.7 12.7 83" 35.2, dT = +214sec :
 AD 6.7 12.7 87" 52.0, dT = +247sec : AE 6.7 13.6 111" 44.0, dT = +304sec

18 Oct 30 4 41 13.8 r 1098 K0 7.2 6.3 66- 109 9 71 63S 252 303 242
 18 Oct 30 5 47 25.3 r 79245 G5 7.8 7.2 66- 108 21 80 78N 290 345 281
 18 Oct 30 6 42 17.8 r 79288wG0 7.8* 7.2 65- 108 31 88 27S 215 271 206
 79288 is double: AB 7.9 12.9 21.6" 3.1, dT = +57sec

18 Oct 30 6 55 43.5 r 79291c++ 8.6 8.3 65- 108 34 89 66N 303 359 293
 79291 is double: ** 9.5 9.5 0.050" 350.0, dT = -0.08sec
 79291 has been reported as non-instantaneous (OCc1354). Observations are highly desired

18 Oct 30 7 14 4.4 d 1113wM0 5.1 4.3s 65- 108 37 93 -25S 163 220 154
 R1113 = 56 Geminorum
 1113 is double: AB 5.3 12.2 12.8" 185.7, dT = +105sec
 1113 = NSV 3550, 5.09, range 0.06, V

18 Oct 30 7 30 5.7 R 1113wM0 5.1 4.3s 65- 107 40 95 2S 190 246 181
 R1113 = 56 Geminorum
 1113 is double: AB 5.3 12.2 12.8" 185.7, dT = -116sec
 1113 = NSV 3550, 5.09, range 0.06, V
 Distance of 1113 to Terminator = 4.1"; to 3km sunlit peak = 0.0"

18 Oct 30 8 25 18.4 r 79343 F0 7.7 7.6 65- 107 50 106 42S 230 284 221
 18 Oct 30 8 44 21.9 r 79353 A5 8.6 8.4 65- 107 54 110 76S 265 317 255
 18 Oct 30 9 38 6.5 r 1123DA5 7.3 7.2 64- 107 63 126 20S 209 251 199
 1123 is double: AB 7.3 8.1 6.8" 46.0, dT = +34sec
 1123 is a close double. Observations are highly desired

18 Oct 30 9 38 39.0 r 79376DA5 8.1 7.9 64- 107 63 126 21S 210 252 200
 79376 is double: BA 8.1 7.3 6.8" 226.0, dT = -34sec
 79376 is a close double. Observations are highly desired

18 Oct 30 10 4 27 m 79392 M0 8.1 7.3 64- 106 67 136 7N 2 38 352
 18 Oct 30 11 38 5.6 r 79428 A5 8.2 8.0 64- 106 71 197 27N 342 327 331
 18 Oct 31 7 4 38.7 r 97737 K0 8.7 8.1 54- 94 24 84 67S 261 316 246
 18 Oct 31 7 30 43.4 r 97755 A5 8.8 8.6 54- 94 29 87 55N 319 14 304
 18 Oct 31 9 10 19.6 r 97798kK0 8.9 8.3 53- 93 47 105 64S 257 310 242
 *** A light curve is desired as 97798 is in the Kepler2 program {ID = 211929720}

18 Oct 31 10 24 26.4 r 1266 F0 8.3 8.1s 53- 93 60 124 85N 289 332 273
 1266 = NSV 17889, 8.33, range 0.02, 3V, Type VAR, Period 6.50576 days

18 Oct 31 10 27 46.6 r 97824kG0 9.0 8.8 53- 93 61 125 75N 299 342 284
 *** A light curve is desired as 97824 is in the Kepler2 program {ID = 211938161}

18 Nov 1 8 1 13.9 r 1387CA5 7.0 6.8 42- 81 22 86 73S 271 325 251
 1387 is double: ** 7.6 7.6 0.10" 90.0, dT = +0.19sec
 1387 has been reported as non-instantaneous (OCc1402). Observations are highly desired

18 Nov 1 9 55 47 m 98568 M* 8.0 7.1v 41- 80 43 105 6N 12 64 353
 98568 = HIP 46311, 7.97, range 0.01, 5V, Type VAR, Period 29.15452 days

18 Nov 1 9 58 5.7 R 1395 G9 6.3 5.8 41- 80 44 106 73N 306 357 286
 18 Nov 2 7 44 52.6 r 99039 K0 8.4 7.9 31- 68 7 79 76N 306 358 284
 18 Nov 2 11 9 45.5 r 1524 A2 8.2 8.0 30- 66 44 113 52N 331 18 308
 18 Nov 4 10 39 35.5 R 119272 F5 7.6 7.3 12- 40 14 97 29N 360 50 335
 18 Nov 5 11 51 50.0 R 1883 K2 8.4 7.8 5- 27 -12 15 105 25N 7 56 344
 18 Nov 10 0 26 44 m 184807 K5 8.9 7.9 6+ 28 4 240 -3S 184 138 179
 18 Nov 12 0 21 56.1 d 187169kB8 8.9 8.9 18+ 50 18 220 80S 95 63 101
 *** A light curve is desired as 187169 is in the Kepler2 program {ID = 216537689}

18 Nov 13 1 50 14.4 d 188349SK2 8.3 7.6 26+ 62 13 227 89S 82 44 93
 188349 is triple: AB 8.5 14.1 6.3" 1.7, dT = +2.8sec : AC 8.5 11.9 28.7" 299.6, dT = -58sec
 188349 is a close double. Observations are highly desired

18 Nov 15 2 14 3.1 D 3113cB5 5.4 5.5V 45+ 84 25 215 85S 78 50 97
 R3113 = 30 Capricorni
 3113 is double: ** 6.1 6.1 0.10" 87.0, dT = +0.28sec
 3113 has been reported as non-instantaneous (OCc1602). Observations are highly desired
 3113 = HD 202671, 5.40, Type ACV, Period 1.9917 days, Phase 62 %

18 Nov 15 3 31 15.3 r 3113cB5 5.4 5.5V 45+ 84 15 231 -74S 236 196 255
 R3113 = 30 Capricorni
 3113 is double: ** 6.1 6.1 0.10" 87.0, dT = +0.22sec

3113 has been reported as non-instantaneous (OCc1602). Observations are highly desired
3113 = HD 202671, 5.40, , Type ACV, Period 1.9917 days, Phase 62 %

18 Nov 16 2 22 38.0 d 3236KF3 7.1 6.9 54+ 95 32 208 74N 53 31 75
*** A light curve is highly desired as 3236 is in the Kepler2 program {ID = 205997466}

18 Nov 17 2 21 37 D 3356cB8 5.8 5.8v 64+ 106 38 196 22S 134 121 158
R3356 = 74 Aquarii
3356 is double: AB 5.8 6.4 0.029" 336.4, dT = -0.29sec
3356 is a close double. Observations are highly desired
3356 = HI Aqr, 5.80, range 0.01, V, Type ACV, Period 3.5892 days, Phase 9 %

18 Nov 17 2 45 49 r 3356cB8 5.8 5.8v 64+ 106 37 203 -9S 166 147 190
R3356 = 74 Aquarii
3356 is double: AB 5.8 6.4 0.029" 336.4, dT = +0.3sec
3356 is a close double. Observations are highly desired
3356 = HI Aqr, 5.80, range 0.01, V, Type ACV, Period 3.5892 days, Phase 9 %

18 Nov 18 23 47 34.0 d 128734 G5 7.8 7.4 80+ 128 -9 30 123 35N 7 48 31
18 Nov 20 3 12 18.0 d 109783WG5 7.3 6.7 89+ 141 53 168 53S 98 107 120
109783 is double: AB 7.4 9.6 39" 103.7, dT = +136sec

18 Nov 20 4 31 59.8 d 109795 A5 7.6 7.4 89+ 141 52 201 54N 25 9 48
18 Nov 20 5 39 57.3 d 109815 K2 8.7 7.9 89+ 141 45 223 51S 101 68 123
18 Nov 20 8 50 6.9 d 109873 A0 7.4 7.3 90+ 143 13 264 64N 35 344 57
18 Nov 21 2 20 34.2 d 110334 F2 7.8 7.6 94+ 152 47 130 73S 76 112 96
18 Nov 21 3 6 9.0 d 306 F0 6.8 6.6 94+ 153 53 145 23N 352 19 12
Distance of 306 to Terminator = 18.2"; to 3km sunlit peak = 6.7"

18 Nov 24 6 56 36.2 r X 6365kG5 8.7 8.4 98- 166 70 173 63N 306 311 311
*** A light curve is desired as X 6365 is in the Kepler2 program {ID = 247140768}

18 Nov 25 3 13 23.3 d 894cG0 4.4 4.1v 95- 154 27 85 -79S 107 163 106
R894 = chi 1 Orionis
894 is double: AB 4.5 7.5 0.013" 232.9, dT = -0.02sec
894 is a close double. Observations are highly desired
894 = khi 1 Ori, 4.38 to 4.41, V, Type RS

18 Nov 25 3 43 9.0 r 892 B9 6.7 6.7 95- 154 33 89 60S 246 302 245
18 Nov 25 4 7 17.7 R 894cG0 4.4 4.1v 95- 154 37 93 42S 228 284 227
R894 = chi 1 Orionis
894 is double: AB 4.5 7.5 0.013" 232.9, dT = -0.03sec
894 is a close double. Observations are highly desired
894 = khi 1 Ori, 4.38 to 4.41, V, Type RS

18 Nov 25 4 39 42.5 r 77718 F2 8.4 8.2 95- 153 43 98 70S 256 311 255
18 Nov 25 4 51 31.3 r 77726 K5 7.7 6.7S 95- 153 46 101 70S 255 310 254
77726 = NSV 16732, 6.8 to 7.4, V, Type LB:

18 Nov 25 6 30 22.0 r 77796 G0 8.8 8.6 94- 153 63 126 83N 282 324 281
18 Nov 25 6 37 48.3 r 903cG5 8.2 7.7 94- 153 64 129 80S 266 306 264
903 is double: ** 9.0 9.0 0.020" 188.0, dT = -0.01sec
903 has been reported as non-instantaneous (OCc1049). Observations are highly desired

18 Nov 25 8 45 12.9 r 77889 G5 6.9 6.4 94- 152 70 207 30S 215 193 213
18 Nov 25 11 17 28.2 r 77983 K2 7.1 6.3 94- 151 46 260 82S 268 212 265
18 Nov 26 3 2 57.1 r 1051DK1 6.6 S 89- 141 15 74 41N 326 20 319
1051 is double: AB 6.66 9.92 1.36" 194.2, dT = +3sec
1051 is a close double. Observations are highly desired
1051 = NSV 3261, 9.5 to 12., V

18 Nov 26 4 15 46.6 r 78896dB8 7.4 7.5 88- 140 28 85 72S 260 317 253
78896 is double: AB 10.7 11.8 1.7" 202.0, dT = -1.6sec
78896 is a close double. Observations are highly desired

18 Nov 26 4 37 4.3 r 78919cK2 8.3 7.7 88- 140 32 87 45N 323 19 316
78919 is double: ** 9.2 9.2 0.050" 17.7, dT = -0.11sec
78919 has been reported as non-instantaneous (OCc 852). Observations are highly desired

18 Nov 26 5 14 16.4 r 78936dA5 8.4 8.3 88- 140 39 93 84S 272 328 264
78936 is double: AB 8.4 12.9 3.9" 121.9, dT = +7sec
78936 is a close double. Observations are highly desired

18 Nov 26 5 31 13.1 r 78953cA2 8.5 8.4 88- 139 42 96 72S 260 316 253
78953 is double: ** 9.5 9.5 0.10" 270.0, dT = -0.2sec
78953 has been reported as non-instantaneous (OCc 291). Observations are highly desired

18 Nov 26 7 1 21 m 79019 F0 8.5 8.4 88- 139 59 115 11N 357 46 349
Distance of 79019 to Terminator = 13.0"; to 3km sunlit peak = 2.2"

18 Nov 26 7 23 23.9 r 79005 G5 7.7 7.2 88- 139 62 122 88S 276 321 268
18 Nov 26 8 41 32.6 r 79047DB9 7.8 87- 138 71 162 48S 236 251 228
79047 is double: AB 7.88 11.25 1.85" 268.0, dT = -5sec
79047 is a close double. Observations are highly desired

18 Nov 26 9 52 30.0 r 79096 F8 8.0 7.7 87- 138 70 211 12S 200 175 192
Distance of 79096 to Terminator = 15.1"; to 3km sunlit peak = 3.4"

18 Nov 26 11 8 33.7 R 1086cG9 6.4 6.0 87- 137 59 244 58N 310 261 301
1086 is double: ** 6.4 0.004" 96.1, dT = +0.01sec

18 Nov 26 11 13 14.0 r X 98662 8.9 8.3 87- 137 58 245 36S 225 176 216
18 Nov 26 12 35 3.3 r 79169 F5 8.2 8.0 86- 137 -8 43 263 81S 270 214 261
18 Nov 27 6 3 35.3 r 79899 G5 7.0 6.5 79- 126 36 92 45N 328 24 314
18 Nov 27 6 38 8.1 r 79912cF5 8.6 8.5 79- 125 43 98 78S 270 325 256
79912 is double: ** 9.3 9.3 0.10" 301.0, dT = -0.18sec

79912 has been reported as non-instantaneous (OCc 804). Observations are highly desired

18 Nov 27 6 53 2.1 r 79919 A2 8.9 8.9 79- 125 46 101 72N 300 355 287
18 Nov 27 7 59 2.2 r 1223 F8 7.7* 7.4 79- 125 57 116 15S 208 255 194
18 Nov 27 12 8 5.2 r 97665cK0 8.4 7.7 77- 123 58 242 64S 257 210 242
97665 is double: ** 9.2 9.2 0.10" 272.0, dT = -0.25sec
97665 has been reported as non-instantaneous (OCc 799). Observations are highly desired

18 Nov 28 8 46 33.1 r 1362pK3 7.2 6.6 68- 111 54 117 52S 249 296 230
R1362 = 78 Cancrī
*** A light curve is desired as 1362 is in the Kepler2 program {ID = 211810753}
1362 is triple: AB 7.5 9.0 350.0, dT = 0.00sec : ** 7.5 9.0 0.005" 341.0, dT = 0.00sec

18 Nov 28 11 1 16.5 r 98435 G5 8.7 8.4 67- 110 69 178 72N 305 306 286
18 Nov 29 6 15 58.3 r 98914 A1 8.0 7.9 58- 99 14 82 52N 328 21 306
18 Nov 29 8 42 55.1 r 1483 M0 9.0 8.1 57- 98 41 107 83N 297 347 275
18 Nov 30 7 23 9.7 r 1596pA2 7.2 7.1 46- 85 14 88 68S 271 323 247
*** A light curve is desired as 1596 is in the Kepler2 program {ID = 248769093}
1596 is double: AB 7.2 12.0 1.6" 114.6, dT = +2.8sec
1596 is a close double. Observations are highly desired

18 Nov 30 10 50 46 r 118669 K0 9.0 8.6 45- 84 50 130 12N 11 49 347
18 Nov 30 12 25 39.7 r 1613 F5 8.1 7.9 44- 83 -10 60 167 59S 262 272 238
18 Dec 1 8 7 17.3 r 1719 K5 7.8 7.0 35- 72 9 91 28S 233 285 209
18 Dec 1 10 28 45.7 r 119146cF5 8.4 8.2 34- 71 35 116 50N 335 20 311
119146 is double: ** 9.4 9.4 0.10" 131.0, dT = +0.26sec
119146 has been reported as non-instantaneous (OCc 665). Observations are highly desired

18 Dec 1 11 40 29 m 119163 M* 8.2 7.3 33- 70 46 134 4S 209 242 184
18 Dec 2 9 37 11.6 r 1840 F8 8.0 7.7 24- 59 14 102 36S 242 292 219
18 Dec 2 11 48 56 gr 1848 K5 7.7 7.0 23- 58 36 128 3S 209 247 186
18 Dec 3 10 38 11.4 r 139480KF5 8.1 7.8 15- 46 13 108 88N 298 346 277
*** A light curve is highly desired as 139480 is in the Kepler2 program {ID = 212809505}
18 Dec 3 12 23 27.9 R 1965pA1 6.5* 6.5 15- 45 -11 30 128 46N 340 18 319
*** A light curve is desired as 1965 is in the Kepler2 program {ID = 212801410}
1965 is double: ** 7.3 7.3 0.050" 350.0, dT = -0.15sec
1965 has been reported as non-instantaneous (OCc1453). Observations are highly desired

18 Dec 4 10 50 18 m 2082 G0 8.2* 7.9 8- 33 3 105 1N 24 74 6
18 Dec 5 11 57 13.7 r 2200 K0 7.5* 7.0 3- 21 4 112 61S 267 315 253
18 Dec 10 0 24 52.1 d 187894 F2 8.5 8.1 7+ 30 7 235 23N 15 332 24
18 Dec 10 0 38 20.6 d 187914wF5 8.3 8.1 7+ 30 5 237 72N 64 19 73
187914 is double: AB 14.8 16.1 134" 176.9, dT = -127sec
18 Dec 10 0 44 20.8 d 187912 F2 9.0 8.8 7+ 30 4 238 34S 138 93 147
18 Dec 11 0 37 26.9 d 188934 G3 8.3 8.0 12+ 41 13 229 17N 6 327 19
18 Dec 12 1 7 48.1 d 164032 G8 8.2 7.7 19+ 52 17 227 47N 32 355 50
18 Dec 12 1 13 1.3 D 3069 A* 6.3 6.3v 19+ 52 16 228 86N 72 34 89
R3069 = 20 Capricorni (A0)
3069 = A0 Cap, 6.25 to 6.30, V, Type ACV, Period 2.2411 days, Phase 62 %
18 Dec 12 2 19 14.6 d 164065 K0 9.0 8.6 19+ 52 6 240 83S 82 37 100
18 Dec 13 1 28 15 M 3190SA5 2.9 2.8e 27+ 63 23 224 -7N 335 300 356
R3190 = Deneb Algedi = delta Capricorni
3190 is triple: AB 2.9 15.0 46" 53.1 : AC 2.9 13.1 164" 306.6
3190 = del Cap, 2.81 to 3.05, V, Type EA, Period 1.0227688 days, Phase 82 %
18 Dec 13 2 40 7.1 d 164689 G6 8.3 7.9 28+ 63 12 237 70S 92 49 113
18 Dec 14 1 34 39.2 d 165179KF5 8.5 8.3 36+ 74 30 217 75N 54 26 77
*** A light curve is highly desired as 165179 is in the Kepler2 program {ID = 206070413}
18 Dec 14 2 24 21.3 d 165197cK3 7.5* 6.8 36+ 74 24 228 64S 96 59 119
165197 is double: ** 7.7 9.3 0.063" 246.0, dT = -0.17sec
165197 has been reported as non-instantaneous (OCc1656). Observations are highly desired

18 Dec 14 2 25 29.8 d 165184 M4 8.8 7.9v 36+ 74 24 229 34N 13 336 36
165184 = ASAS J223620-1237.7, 8.83, range 0.34, V, Type MISC, Period 128.930069 days, Phase 23 %
18 Dec 14 4 3 6.1 d 165218SG8 7.8 v 37+ 75 8 247 58S 101 54 124
165218 is quadruple: AB 8.63 8.78 3.06" 279.3, dT = -9sec : AC 8.6 13.0 115" 257.2, dT = -292sec :
AD 8.6 14.3 135" 37.5, dT = +167sec
165218 is a close double. Observations are highly desired
165218 = NV Aqr, 7.74, range 0.02, V, Type BY, Period 6.20 days

18 Dec 14 23 35 42 d 146640 G5 8.7 8.2 45+ 84 -7 41 170 16S 141 149 166
18 Dec 15 0 3 15.3 r 3428SA0 5.0 5.0s 45+ 84 42 179 -57S 215 215 239
R3428 = psi 3 Aquarii
3428 is triple: AB 5.0 9.0 1.5" 315.7, dT = +0.9sec : AC 5.0 13.1 133" 231.0, dT = -419sec
3428 is a close double. Observations are highly desired
3428 = NSV 14491, 4.97 to 5.00, V

18 Dec 15 2 29 30.0 d 146681 G0 8.9 8.6 46+ 85 32 222 87S 70 38 95
18 Dec 16 5 40 58.5 d 25 G6 7.4 6.9 56+ 97 12 255 82N 58 9 82
18 Dec 17 0 0 7.5 d 129007kG0 8.2 7.9 65+ 107 -12 46 146 64N 40 65 63
*** A light curve is desired as 129007 is in the Kepler2 program {ID = 220190134}
18 Dec 17 2 8 23.8 d 129029 K4 7.9 7.2 65+ 108 50 194 69N 44 33 67
18 Dec 17 3 37 14.5 d 126cK0 7.6 7.0 66+ 108 42 224 56N 31 358 54
126 is double: ** 7.7 11.2 0.037" 98.3, dT = +0.04sec
126 has been reported as non-instantaneous (OCc 676). Observations are highly desired

18 Dec 17 4 2 57 d 109548 F0 8.4 8.2 66+ 108 39 231 10N 345 308 8

18 Dec 17 5 19 11.8 d 109579 K0 8.6 7.9 66+ 109 27 247 55N 31 345 54
18 Dec 18 6 41 28.7 d 270 K0 8.4 7.9 76+ 121 23 258 32N 8 318 29
18 Dec 18 23 44 13.2 d 110576 K0 8.6 8.0 83+ 131 -9 37 111 51N 27 75 46
18 Dec 19 2 11 37.7 d 110616 F2 7.5 7.3 83+ 132 58 155 32S 125 145 143
18 Dec 19 4 23 18.0 d 110646 G5 8.4 7.9 84+ 133 56 215 70S 87 59 104
18 Dec 19 8 54 44.9 D 405SF1 4.3 4.1S 85+ 134 10 275 33S 124 72 142
R405 = mu Ceti
405 is multiple: Aa,Ad 2.6 0.021" 243.0, dT = -0.03sec : Aa,Ab 4.2 6.2 0.10" 193.8, dT = +0.1sec :
Aa,Ac 2.3 0.25" 63.0, dT = +0.35sec : AB 4.2 13.6 160" 342.5, dT = -367sec
405 is a close double. Observations are highly desired
405 = NSV 909, 4.27, , Type RS:
18 Dec 20 6 33 49.1 d 93496kF8 8.8 8.5 92+ 146 48 245 83S 76 29 89
*** A light curve is desired as 93496 is in the Kepler2 program {ID = 210432308}
18 Dec 20 23 39 45.7 d 636cF7 7.0* s 96+ 156 -8 21 85 59S 101 155 109
R636 = 55 Tauri
636 is double: AB 7.26 8.62 0.62" 12.5, dT = +0.04sec
636 is a close double. Observations are highly desired
636 = NSV 15952, 6.88, range 0.01, V, Type BY:
18 Dec 21 1 0 52.0 d 93895 G4 7.9* 7.5s 96+ 157 37 98 62S 97 151 106
93895 = NSV 15960, 7.86, range 0.04, V, Type BY:
18 Dec 21 1 24 52.3 D 650cA1 5.6* 5.5s 96+ 157 41 102 43S 116 169 125
R650 = 63 Tauri
650 = NSV 15964, 5.64, range 0.02, V, Type VAR:
18 Dec 21 1 54 9.7 d 93913cF6 7.0* 6.7 96+ 158 47 108 90N 70 121 78
93913 is double: ** 7.6 10.6 0.18" 108.8, dT = +0.3sec
93913 has been reported as non-instantaneous (OCc 615). Observations are highly desired
18 Dec 21 1 58 14.3 d 93914dG2 7.8* 7.5v 96+ 158 47 109 46S 114 164 122
93914 is double: AB 6.4 9.1 1.3" 245.5, dT = -2.6sec
93914 is a close double. Observations are highly desired
93914 = V0897 Tau, 7.79 to 7.83, V, Type BY, Period 7.951 days, Phase 58 %
18 Dec 21 3 5 14.0 d 93934 G5 7.5 6.8 96+ 158 59 127 65S 95 136 103
18 Dec 21 3 9 32.0 d 93927kF0 7.5* 7.3 96+ 158 60 128 40N 20 60 28
*** A light curve is desired as 93927 is in the Kepler2 program {ID = 210634047}
18 Dec 21 3 34 52 d 93938 K5 6.9 6.1 96+ 158 63 138 14S 146 179 154
Distance of 93938 to Terminator = 4.1"; to 3km sunlit peak = 0.0"
18 Dec 21 4 31 19.1 d 93958cG2 7.8 7.5v 97+ 159 68 168 48S 112 122 120
93958 is double: ** 9.0 9.0 0.50" 279.0, dT = -1.6sec
93958 has been reported as non-instantaneous (OCc 532). Observations are highly desired
93958 = V0920 Tau, 7.81 to 7.87, V, Type BY, Period 7.451 days, Phase 21 %
18 Dec 21 4 51 45.4 d 93962pF7 7.0 6.7s 97+ 159 69 180 86N 66 66 74
*** A light curve is desired as 93962 is in the Kepler2 program {ID = 210640991}
93962 is double: ** 7.0 0.014" 261.5, dT = -0.03sec
93962 has been reported as non-instantaneous (OCc1235). Observations are highly desired
93962 = NSV 16025, 7.05, range 0.03, b, Type BY:
18 Dec 21 5 17 4.7 d 93967pB7 7.8* 97+ 159 68 197 66N 46 33 54
*** A light curve is desired as 93967 is in the Kepler2 program {ID = 210650598}
93967 is double: AB 9.37 8.09 0.055" 242.7, dT = -0.14sec
93967 is a close double. Observations are highly desired
18 Dec 21 5 39 57.0 d 93976 K0 8.7 8.1 97+ 159 66 209 41S 119 96 127
18 Dec 21 5 58 17.6 d X 70160 8.7 8.0 97+ 159 64 218 68S 92 62 100
18 Dec 21 7 51 8.5 d X 70265p 7.0 7.0 97+ 160 47 254 28N 8 316 15
*** A light curve is desired as X 70265 is in the Kepler2 program {ID = 247031436}
X 70265 is double: BA 7.0 7.0 3.1" 96.0, dT = +0.8sec
X 70265 is a close double. Observations are highly desired
Distance of X 70265 to Terminator = 13.4"; to 3km sunlit peak = 3.8"
18 Dec 21 7 51 9.3 D 684pB9 6.2 97+ 160 47 254 28N 8 316 15
R684 = 119 H1. Tauri
*** A light curve is desired as 684 is in the Kepler2 program {ID = 247031423}
684 is double: AB 6.97 7.02 3.10" 276.0, dT = -0.8sec
684 is a close double. Observations are highly desired
Distance of 684 to Terminator = 13.4"; to 3km sunlit peak = 3.9"
18 Dec 21 7 56 25.4 d 689 F2 7.9* 7.7 97+ 160 46 255 69S 91 39 99
18 Dec 22 0 6 0.5 d 796kA0 6.7 6.7v 99+ 170 17 78 57N 31 86 34
*** A light curve is desired as 796 is in the Kepler2 program {ID = 247195129}
796 = V1159 Tau, 6.63 to 6.66, Hp, Type ACV, Period 1.63988 days, Phase 56 %
Distance of 796 to Terminator = 10.2"; to 3km sunlit peak = 2.1"
18 Dec 24 1 58 49.3 r 79443 A0 7.6 7.5 97- 161 16 76 84S 276 330 265
18 Dec 24 7 28 56.6 r 79623cK1 7.9 7.3 96- 158 71 163 54N 318 332 306
79623 is double: ** 8.7 8.7 0.040" 223.0, dT = +0.01sec
79623 has been reported as non-instantaneous (OCc1067). Observations are highly desired
18 Dec 24 9 9 56.5 r 79670wA0 8.2 8.2v 96- 158 66 227 56N 316 278 304
79670 is double: AB 8.2 11.2 14.9" 279.3, dT = -34sec
79670 = ASAS J074517+2052.0, 8.17, range 0.04, V, Type ACV|EC|ESD, Period 0.82654 days, Phase 90 %
18 Dec 24 10 42 3.1 r 79710 K0 7.8 7.2 96- 157 50 255 27N 345 292 333
Distance of 79710 to Terminator = 16.7"; to 3km sunlit peak = 5.9"
18 Dec 24 12 7 14.0 r 79743 A0 8.5 8.5v 96- 156 34 270 87N 285 229 272

79743 = HIP 38308, 8.48, range 0.00, 8V, Type VAR, Period 0.12603 days

18 Dec 25 3 20 46.8 r 1287kA5 6.7 6.6 91- 146 19 80 43N 331 25 315
 *** A light curve is desired as 1287 is in the Kepler2 program {ID = 211936163}

18 Dec 25 3 59 46.5 r 98009kA7 7.6 7.6v 91- 146 26 86 22N 352 47 335
 *** A light curve is desired as 98009 is in the Kepler2 program {ID = 211936696}

98009 = BU Cnc, 7.67, range 0.03, V, Type DSCTC, Period 0.071 days

18 Dec 25 4 32 40.9 r 98027kA8 7.8 7.7v 91- 145 32 91 39N 335 30 318
 *** A light curve is desired as 98027 is in the Kepler2 program {ID = 211933524}

98027 = BN Cnc, 7.8, range 0.03, V, Type DSCTC, Period 0.0388205 days

18 Dec 25 5 34 53.5 r 98054kA7 7.9 7.8v 91- 145 44 101 78S 272 326 256
 *** A light curve is desired as 98054 is in the Kepler2 program {ID = 211914004}

98054 = BY Cnc, 7.91, range 0.01, V, Type DSCTC, Period 0.058 days

18 Dec 25 6 21 57.3 r 98075PA0 8.3 8.3E 91- 145 52 111 69N 305 355 288
 *** A light curve is highly desired as 98075 is in the Kepler2 program {ID = 211920612}

98075 is double: AB 8.4 12.4 73" 270.0, dT = -145sec
 98075 = S Cnc, 8.29 to 10.25, V, Type EA/DS, Period 9.4845516 days, Phase 8 %

18 Dec 25 7 10 22.6 r 98100kA* 8.0 7.9 91- 144 60 125 46N 328 10 311
 *** A light curve is desired as 98100 is in the Kepler2 program {ID = 211921647}

18 Dec 25 7 13 7.5 r 98094PF0 8.4 8.3 91- 144 61 126 90S 284 325 267
 *** A light curve is highly desired as 98094 is in the Kepler2 program {ID = 211909987}

98094 is double: AB 8.5 9.7 64" 326.0, dT = -109sec

18 Dec 25 7 19 9.5 R 1312pF2 6.8 6.6 91- 144 62 129 79S 274 313 257
 *** A light curve is desired as 1312 is in the Kepler2 program {ID = 211906132}

1312 is double: AB 6.8 13.0 8.1" 298.0, dT = -17sec
 1312 is a close double. Observations are highly desired

18 Dec 25 9 39 5.0 R 1322kA2 6.4 6.4 90- 143 68 208 15N 360 337 343
 *** A light curve is desired as 1322 is in the Kepler2 program {ID = 211907093}

Distance of 1322 to Terminator = 15.9"; to 3km sunlit peak = 4.4"

18 Dec 25 11 14 45.7 r 98190kF0 7.3 7.1 90- 143 54 245 46S 241 193 224
 *** A light curve is desired as 98190 is in the Kepler2 program {ID = 211862520}

18 Dec 25 12 1 24.5 r 98207kG5 8.0 7.5V 90- 142 45 256 81S 276 224 259
 *** A light curve is desired as 98207 is in the Kepler2 program {ID = 211865588}

98207 = HD 75994, 7.98, , Type VAR

18 Dec 26 4 48 17.2 r 1430 K0 8.0 7.4 83- 131 22 87 60S 258 311 237

18 Dec 26 7 31 3.1 r 98764 F5 8.7 8.5 82- 130 52 118 76S 274 319 253

18 Dec 26 8 24 12.6 r 98780 G0 8.7 8.4 82- 130 60 135 69N 309 344 288

18 Dec 26 11 23 1.3 r 98832 G0 7.7 7.4 81- 129 59 225 34S 232 197 211

18 Dec 26 12 57 30.6 r 98853 8.8 8.1 81- 128 -8 44 251 79N 300 250 278

18 Dec 26 13 2 27.3 r 1459 G5 7.4 6.9 81- 128 -7 43 252 80N 299 249 277

18 Dec 27 8 21 55.0 r 1572 A0 8.8 8.7S 72- 116 48 122 75S 276 318 252

1572 = NSV 18519, 8.79, , Type VAR:

18 Dec 28 9 5 1.1 r 119008KF8 8.6 8.3 61- 102 43 124 73N 310 351 286
 *** A light curve is highly desired as 119008 is in the Kepler2 program {ID = 201853942}

18 Dec 28 11 53 2 m 119051cK0 8.8 8.2 60- 101 56 186 8S 211 206 187
 119051 is double: ** 9.5 9.5 0.10" 90.0
 119051 has been reported as non-instantaneous (OCc 102). Observations are highly desired

18 Dec 28 11 54 3.9 r 119045dK0 8.9 8.4 60- 101 56 186 44S 247 242 222
 119045 is double: AB 9.0 13.3 4.7" 65.2, dT = +20sec
 119045 is a close double. Observations are highly desired

18 Dec 28 11 56 37.0 r 119056kF5 8.9 8.7 60- 101 57 187 39N 344 338 320
 *** A light curve is desired as 119056 is in the Kepler2 program {ID = 201828507}

18 Dec 29 9 54 32.5 r 119493 G0 9.0 8.6 49- 89 39 128 79S 283 320 259

18 Dec 30 9 5 54.3 r 139336 K0 7.1* 6.6 39- 77 19 112 70N 313 359 291

18 Dec 31 10 59 47.9 r 139874 K5 8.7 7.9 28- 64 26 128 16N 5 44 347