

2017occ7mag

Occultation prediction for Big Bear City

E. Longitude -116 50 46.9, Latitude 34 16 5.4, Alt. 2060m; Telescope dia 15cm; dMag 0.0

y	m	d	h	m	s	P	Star No	Sp D	Mag v	Mag r	% ill	Elon Alt	Sun Alt	Moon Az	CA o	PA o	VA o	AA o		
17	Jan	2	2	41	21	D	3196	A1	6.3	6.2	14+	43		18	240	88S	72	25	93	
17	Jan	3	1	55	28	D	3325	PG0	6.9	6.6	21+	55		36	224	73S	85	50	109	
*** A light curve is highly desired as 3325 is in the Kepler2 program {ID = 206225297}																				
3325 is double: ** 7.5 7.5 0.004" 350.0, dT = 0.00sec																				
17	Jan	6	2	45	26	D	192	A3	5.1	5.1	53+	93		58	201	39S	119	102	142	
R192 = 89 Piscium																				
17	Jan	6	3	31	10	r	192	A3	5.1	5.1	53+	94		53	219	-29S	187	155	210	
R192 = 89 Piscium																				
17	Jan	9	1	55	31	D	608	DF3	6.0	5.8s	84+	134		48	107	72S	92	147	103	
608 is double: AB 6.11 8.77 3.60" 222.2, dT = -5sec																				
608 is a close double. Observations are highly desired																				
608 = NSV 1466, 6.00 to 6.05, V																				
17	Jan	9	9	20	48	Gr	635	CG8	3.7	3.1s	86+	136		27	**	GRAZE: CA -9.9S;	Dist. 36km	in az.	13deg.	
[Lat = 34.60-0.20(E.Long+116.85)]																				
17	Jan	9	9	21	9	m	635	CG8	3.7	3.1s	86+	136		27	271	-10S	175	115	184	
R635 = Hyadum I = gamma Tauri																				
635 is double: AB 3.7 0.40" 179.0																				
635 is a close double. Observations are highly desired																				
635 = NSV 1553, 3.60 to 3.67, V																				
17	Jan	10	11	26	58	D	814	SB5	5.4	5.5	94+	151		16	281	84N	71	13	74	
R814 = 115 Tauri																				
814 is quadruple: Aa,Ab 5.4 6.4 0.051" 288.5, dT = -0.07sec : AC 5.4 11.8 10.1" 347.0, dT = +1.8sec : AB 5.4 10.1 10.3" 304.6, dT = -11sec																				
814 is a close double. Observations are highly desired																				
17	Jan	11	2	57	22	d	943	B8	6.6	6.6	97+	162		39	93	66N	53	114	51	
17	Jan	11	9	53	46	d	985	SK0	6.8	6.3v	98+	164		47	261	70N	56	356	52	
985 is triple: AB 0.3 0.005" 80.0, dT = +0.01sec : AB 6.7 11.5 3.1" 316.4, dT = -1.4sec																				
985 is a close double. Observations are highly desired																				
985 = OU Gem, 6.76, range 0.05, v, Type BY																				
17	Jan	14	13	49	36	r	1405	CK0	6.9*	6.4	95-	153		30	265	84S	286	228	266	
17	Jan	25	14	18	27	m	2699	M3	6.8	5.8v	6-	27	-7	14	126	-4N	7	52	11	
2699 = V4401 Sgr, 6.64 to 6.77, Hp, Type SRB																				
17	Jan	31	3	21	21	D	3432	CK0	6.2	5.6	10+	37		10	256	56N	35	341	59	
17	Feb	3	6	26	58	D	303	CK0	6.4	5.9	39+	77		11	272	63N	44	348	65	
303 is double: ** 7.2 7.4 0.40" 115.0, dT = +0.28sec																				
303 has been reported as non-instantaneous (OCC1174). Observations are highly desired																				
17	Feb	3	21	11	20	d	405	SF1	4.3	4.1s	47+	87		37	25	95	89S	73	130	92
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" 343.3, dT = 0.00sec : Aa,Ac 2.3 0.25" 63.0, dT = +0.48sec :																				
AB 4.2 13.6 160" 342.7, dT = -4sec																				
405 is a close double. Observations are highly desired																				
405 = NSV 909, 4.27, , Type RS:																				
17	Feb	6	6	56	49	D	741	CK1	5.5*	4.8	73+	117		43	262	82S	89	30	95	
741 is double: ** 6.5 6.5 0.08" 240.0, dT = -0.15sec																				

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741 has been reported as non-instantaneous (OCC1248). Observations are highly desired

17 Feb 7 3 8 54 D 886ck0 6.8 6.1 82+ 129 66 126 41N 36 81 36
886 is double: ** 7.7 7.7 0.030" 63.0, dT = +0.1sec
886 has been reported as non-instantaneous (OCC 494). Observations are highly desired

17 Feb 7 3 9 26 D 94927 G5 7.0 6.5 82+ 129 66 126 70N 65 110 66
17 Feb 9 8 1 37 D 1207ck3 5.6 4.9 96+ 158 64 236 59N 62 16 49
R1207 = 3 Cancrī
1207 is double: ** 6.0 7.6 0.003" 240.6, dT = -0.01sec

17 Feb 10 3 1 10 d 1323cG2 6.4 6.0 99+ 169 30 91 83N 87 146 70
R1323 = 54 Cancrī
1323 is double: ** 6.6 8.0 0.050" 272.0, dT = -0.1sec
1323 has been reported as non-instantaneous (OCC1396). Observations are highly desired
Distance of 1323 to Terminator = 16.6"; to 3km sunlit peak = 6.3"

17 Feb 17 12 19 19 R 2128 G7 5.8 5.3 62- 104 43 169 60N 316 325 299
R2128 = 13 Librae

17 Feb 18 9 48 0 r 2231 K1 6.8 6.2 53- 94 18 122 86N 287 333 273
17 Feb 18 13 34 30 R 2245 K0 6.3* 5.7 52- 93 -12 41 179 86S 278 279 265
17 Feb 22 11 54 47 R 2774cF5 6.4 6.1 17- 49 4 116 45N 311 3 319
2774 is double: ** 7.1 7.1 0.10" 19.0, dT = -0.1sec
2774 has been reported as non-instantaneous (OCC 408). Observations are highly desired

17 Feb 22 12 1 14 R 2773SK0 6.2 5.4 17- 49 5 117 80N 276 327 284
2773 is multiple: AB 6.2 9.0 7.6" 89.0, dT = +17sec : AB 11.0 11.5 16.1" 248.3, dT = -32sec :
AC 6.2 10.8 20.0" 112.1, dT = +43sec : AD 6.2 13.7

25.9" 262.4, dT = -56sec
2773 is a close double. Observations are highly desired

17 Mar 2 1 19 58 d 249 K3 4.5 3.7 14+ 44 4 45 239 44S 119 73 141
R249 = nu Piscium

17 Mar 2 1 43 4 Gr 249 K3 4.5 3.7 14+ 44 0 42 ** GRAZE: CA 6.0s; Dist.380km in az.
167deg. [Lat = 30.76+0.19(E.Long+116.85)]

17 Mar 2 2 5 38 R 249 K3 4.5 3.7 14+ 44 -5 36 249 -33S 196 145 218
R249 = nu Piscium

17 Mar 3 4 28 8 D 398ck0 6.5 5.9 24+ 59 22 268 28N 14 317 32
398 is double: ** 6.9 8.5 0.006" 298.5, dT = +0.01sec

17 Mar 3 23 24 23 M 508ck0 4.1 3.6 33+ 70 27 64 140 10S 158 191 172
R508 = 5 Tauri
508 is double: AB 4.5 6.5 0.005" 29.8

17 Mar 3 23 28 3 Gr 508ck0 4.1 3.6 33+ 70 25 62 ** GRAZE: CA 9.3s; Dist.264km in az.
334deg. [Lat = 36.92+0.41(E.Long+116.85)]

17 Mar 4 4 15 3 D 526 G5 6.7 6.2 35+ 72 37 261 82N 71 13 84
17 Mar 4 21 35 54 d 661wF0 4.5 4.3v 44+ 83 44 36 95 37S 135 194 144
R661 = 71 Tauri (v777)
661 is double: AB 4.5 12.0 132" 153.7, dT = +544sec
661 = v0777 Tau, 4.73, range 0.02, B, Type DSCTC, Period 0.16 days

17 Mar 4 21 47 44 Gr 661wF0 4.5 4.3v 44+ 83 44 39 ** GRAZE: CA 9.4s; Dist.240km in az.
151deg. [Lat = 31.80+0.45(E.Long+116.85)]

17 Mar 4 22 37 10 D 669SG7 3.8 3.3s 44+ 83 35 48 105 83S 89 145 98
R669 = theta 1 Tauri
669 is triple: Aa,Ab 3.8 7.3 0.20" 355.1, dT = -0.03sec : AB 3.8 12.0 266" 75.0, dT =
+600sec
669 is a close double. Observations are highly desired

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669 = NSV 16016, 3.84, range 0.21, v
 17 Mar 4 22 42 39 D 671SA7 3.4 3.3v 44+ 83 34 49 106 61S 111 167 120
 R671 = theta 2 Tauri
 671 is triple: Aa,Ab 3.7 4.9 0.025" 42.4, dT = +0.03sec : AB 3.4 3.9 341" 347.0, dT =
 -552sec
 671 is a close double. Observations are highly desired
 671 = tet 2 Tau, 3.35 to 3.42, v, Type DSCTC+E:, Period 0.07564 days
 17 Mar 4 23 42 14 r 671SA7 3.4 3.3v 45+ 84 24 61 122 -42S 214 261 222
 R671 = theta 2 Tauri
 671 is triple: Aa,Ab 3.7 4.9 0.025" 42.4, dT = +0.08sec : AB 3.4 3.9 341" 347.0, dT =
 +728sec
 671 is a close double. Observations are highly desired
 671 = tet 2 Tau, 3.35 to 3.42, v, Type DSCTC+E:, Period 0.07564 days
 17 Mar 4 23 48 54 d 677WA6 4.8 4.7S 45+ 84 23 62 123 81N 73 119 81
 677 is double: AB 4.8 6.5 254" 130.0, dT = +334sec
 677 = NSV 1627, 4.78, , Type DSCT:
 17 Mar 4 23 50 29 r 669SG7 3.8 3.3s 45+ 84 22 62 124 -64S 236 281 245
 R669 = theta 1 Tauri
 669 is triple: Aa,Ab 3.8 7.3 0.20" 355.1, dT = +0.25sec : AB 3.8 12.0 266" 75.0, dT =
 +642sec
 669 is a close double. Observations are highly desired
 669 = NSV 16016, 3.84, range 0.21, v
 17 Mar 5 1 43 28 d 685 F0 6.6 6.5 45+ 85 0 72 191 84S 88 79 97
 17 Mar 5 3 11 29 D 692SK5 0.9* 0.1v 46+ 85 62 238 81N 73 26 82
 R692 = Aldebaran = alpha Tauri
 692 is multiple: AE 0.9 12.0 31" 331.0, dT = -17sec : AB 0.9 13.6 32" 113.3, dT = +61sec : AC
 0.9 11.3 131" 31.9, dT = +247sec : AF 0.9 13.6 309"
 121.7, dT = +519sec
 692 = alf Tau, 0.86 to 0.89, v, Type LB:
 17 Mar 5 4 29 8 R 692SK5 0.9* 0.1v 46+ 86 47 258 -81N 271 214 279
 R692 = Aldebaran = alpha Tauri
 692 is multiple: AE 0.9 12.0 31" 331.0, dT = -36sec : AB 0.9 13.6 32" 113.3, dT = +68sec : AC
 0.9 11.3 131" 31.9, dT = +154sec : AF 0.9 13.6 309"
 121.7, dT = +613sec
 692 = alf Tau, 0.86 to 0.89, v, Type LB:
 17 Mar 7 9 33 15 d 1040CA2 6.4 70+ 114 10 285 72S 111 54 105
 1040 is double: AB 6.61 8.04 0.22" 141.7, dT = +0.32sec
 1040 is a close double. Observations are highly desired
 17 Mar 8 6 13 30 D 1158cM0 5.0* 4.2s 79+ 126 60 243 81S 106 55 95
 R1158 = 74 Geminorum
 1158 is double: ** 6.0 6.0 0.030" 24.0, dT = +0.01sec
 1158 has been reported as non-instantaneous (Occ 367). Observations are highly desired
 1158 = NSV 3671, 5.05, range 0.08, v
 17 Mar 10 8 1 4 D 1413 B9 6.8* 6.8 94+ 152 57 236 56S 140 95 120
 17 Mar 10 10 5 1 d 1422 G8 6.7 6.3 94+ 153 34 262 18N 34 337 13
 Distance of 1422 to Terminator = 11.6"; to 3km sunlit peak = 2.4"
 17 Mar 11 12 2 50 D 1550DA2 5.6 5.6e 99+ 166 18 268 71N 91 34 68
 R1550 = TX Leonis = 49 Leonis
 1550 is double: AB 5.80 7.90 2.09" 156.8, dT = +1.8sec

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1550 is a close double. Observations are highly desired
 1550 = TX Leo, 5.66 to 5.75, V, Type EA/DM, Period 2.4450566 days, Phase 46 %
 17 Mar 14 9 55 56 R 1864 K2 6.7 5.9 97- 159 52 195 39N 336 324 313
 17 Mar 14 11 53 53 R 1869SK2 6.2* s 96- 158 38 232 84N 291 250 267
 R1869 = 46 Virginis
 1869 is triple: AB 6.18 8.78 0.64" 182.0, dT = +0.6sec : AC 6.2 13.2 42" 127.3, dT = +108sec
 1869 is a close double. Observations are highly desired
 1869 = NSV 6053, 8.0 to 11.0, V
 17 Mar 15 13 43 55 r 1985 K0 6.9 6.3 92- 146 -4 24 242 35S 231 183 209
 17 Mar 16 6 24 0 r 2072 K0 6.6 5.9 87- 137 15 113 83N 290 341 271
 17 Mar 19 10 35 49 R 2441 G0 6.6 6.3 61- 103 27 141 81S 266 299 260
 17 Mar 20 11 41 20 R 2571 A9 6.8 6.6 51- 92 29 146 51S 231 261 232
 17 Mar 22 12 42 50 R 2863 F0 6.1 6.0v 32- 69 25 138 75N 276 312 287
 2863 = V4333 Sgr, 5.48 to 5.6, V, Type DSCT
 17 Mar 23 12 32 17 R 2989 G2 6.7 6.4 23- 57 17 125 61S 228 273 244
 17 Apr 1 3 46 54 D 635cG8 3.7 3.1s 21+ 55 30 269 21S 154 94 163
 R635 = Hyadum I = gamma Tauri
 635 is double: AB 3.7 0.40" 179.0, dT = +2sec
 635 is a close double. Observations are highly desired
 635 = NSV 1553, 3.60 to 3.67, V
 17 Apr 1 3 59 22 Gr 635cG8 3.7 3.1s 21+ 55 27 ** GRAZE: CA -0.2S; Dist.120km in az.
 194deg. [Lat = 33.16-0.20(E.Long+116.85)]
 17 Apr 1 4 9 34 R 635cG8 3.7 3.1s 21+ 55 25 273 -21S 195 136 205
 R635 = Hyadum I = gamma Tauri
 635 is double: AB 3.7 0.40" 179.0, dT = -2.1sec
 635 is a close double. Observations are highly desired
 635 = NSV 1553, 3.60 to 3.67, V
 17 Apr 1 6 0 19 D 659SF7 6.6 s 22+ 56 4 287 77S 98 42 107
 R659 = 70 Tauri
 659 is triple: Aa,Ab 7.74 7.00 0.10" 116.0, dT = +0.15sec : AB 6.4 13.4 129" 339.4, dT =
 -99sec
 659 is a close double. Observations are highly desired
 659 = NSV 15985, 6.46, range 0.02, V, Type BY:
 17 Apr 2 6 40 24 D 814SB5 5.4 5.5 33+ 70 8 286 69N 67 11 70
 R814 = 115 Tauri
 814 is quadruple: Aa,Ab 5.4 6.4 0.055" 286.2, dT = -0.08sec : AC 5.4 11.8 10.1" 347.0, dT =
 +3sec : AB 5.4 10.1 10.3" 304.6, dT = -10sec
 814 is a close double. Observations are highly desired
 17 Apr 3 6 25 36 D 985SK0 6.8 6.3v 44+ 83 23 278 35N 38 338 35
 985 is triple: AB 0.3 0.005" 80.0, dT = +0.01sec : AB 6.7 11.5 3.1" 316.4, dT = +1.6sec
 985 is a close double. Observations are highly desired
 985 = OU Gem, 6.76, range 0.05, V, Type BY
 17 Apr 4 5 4 27 D 1114 F2 6.8 6.5 54+ 95 50 257 59N 66 8 57
 17 Apr 4 6 35 38 D 1124SG5 6.9 6.5 55+ 96 32 271 53N 61 1 52
 1124 is triple: AB 7.0 11.7 13.5" 58.0, dT = +36sec : AC 7.0 13.3 72" 10.9, dT = +124sec
 17 Apr 5 6 31 37 D 1258 K0 6.7 6.1 66+ 108 43 260 29S 163 105 148
 17 Apr 10 8 8 38 D 1821SF0 2.8 s 99+ 169 52 202 17N 54 36 30
 R1821 = Porrima = gamma Virginis
 1821 is multiple: AB 3.48 3.53 2.59" 1.6, dT = +11sec : AC 3.5 15.1 97" 117.7, dT = +302sec
 : AD 3.5 12.1 177" 90.0, dT = +1003sec : AE 3.5 8.9

259" 167.3, dT = -711sec

1821 is a close double. Observations are highly desired

1821 = NSV 5859, 2.452, range 0.72, 6Ic, Type VAR

Distance of 1821 to Terminator = 1.5"; to 3km sunlit peak = 0.0"

17 Apr 10 8 9 51 D X 54027SF0 3.5 3.3s 99+ 169 52 203 16N 53 34 29

X 54027 is multiple: BA 3.5 3.5 2.6" 181.6, dT = -12sec : BD 3.5 12.1 188" 97.8, dT = +969sec :

BE 3.5 8.9 259" 167.1, dT = -763sec : BF 3.5 9.5 419"

268.0, dT = -2490sec

X 54027 is a close double. Observations are highly desired

X 54027 = NSV 5859, 2.452, range 0.72, 6Ic, Type VAR

Distance of X 54027 to Terminator = 1.3"; to 3km sunlit peak = 0.0"

17 Apr 10 8 23 54 Gr 1821SF0 2.8 s 99+ 169 49 ** GRAZE: CA -8.0N; Dist.213km in az.
36deg. [Lat = 36.64-0.60(E.Long+116.85)]17 Apr 10 8 24 42 GrX 54027SF0 3.5 3.3s 99+ 169 49 ** GRAZE: CA -8.0N; Dist.196km in az.
36deg. [Lat = 36.46-0.60(E.Long+116.85)]

17 Apr 10 8 45 33 r X 54027SF0 3.5 3.3s 99+ 169 48 216 -32N 5 336 341

X 54027 is multiple: BA 3.5 3.5 2.6" 181.6, dT = +18sec : BD 3.5 12.1 188" 97.8, dT = +64sec :

BE 3.5 8.9 259" 167.1, dT = +1750sec : BF 3.5 9.5 419"

268.0, dT = +365sec

X 54027 is a close double. Observations are highly desired

X 54027 = NSV 5859, 2.452, range 0.72, 6Ic, Type VAR

17 Apr 10 8 45 37 R 1821SF0 2.8 s 99+ 169 48 216 -33N 4 335 340

R1821 = Porrima = gamma Virginis

1821 is multiple: AB 3.48 3.53 2.59" 1.6, dT = -18sec : AC 3.5 15.1 97" 117.7, dT = +266sec

: AD 3.5 12.1 177" 90.0, dT = -86sec : AE 3.5 8.9

259" 167.3, dT = +1693sec

1821 is a close double. Observations are highly desired

1821 = NSV 5859, 2.452, range 0.72, 6Ic, Type VAR

17 Apr 11 11 42 17 r 1941 M3 4.7 3.8s 100- 176 24 244 75N 250 202 228

R1941 = 74 Virginis

1941 = NSV 6297, 4.68, range 0.07, V

Distance of 1941 to Terminator = 2.1"; to 3km sunlit peak = 0.0"

17 Apr 14 13 11 36 r 2280WM1 6.5 5.6s 90- 144 -2 24 228 83S 268 229 257

2280 is double: AB 6.6 13.7 36" 238.5, dT = -92sec

2280 = NSV 7351, 6.59, range 0.05, V

17 Apr 15 9 30 4 R 2399 G8 4.9* 4.3 85- 134 34 155 72N 292 313 284

R2399 = 24 (Scorpii)/Ophiuchi

17 Apr 20 10 22 16 R 3064 A2 5.9 5.8v 39- 78 9 116 41N 303 353 321

3064 = HD 199443, 5.88, , Type ACV, Period 0.2220 days, Phase 51 %

17 Apr 28 16 2 31 D 692SK5 0.9* 0.1v 7+ 32 36 10 77 40N 41 99 49

R692 = Aldebaran = alpha Tauri

692 is multiple: AE 0.9 12.0 31" 331.0, dT = +20sec : AB 0.9 13.6 32" 113.3, dT = +19sec : AC

0.9 11.3 131" 31.9, dT = +245sec : AF 0.9 13.6 309"

121.7, dT = +99sec

692 = alf Tau, 0.86 to 0.89, V, Type LB:

17 Apr 28 16 47 47 R 692SK5 0.9* 0.1v 8+ 32 45 20 83 -73N 288 347 296

R692 = Aldebaran = alpha Tauri

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692 is multiple: AE 0.9 12.0 31" 331.0, dT = -46sec : AB 0.9 13.6 32" 113.3, dT = +64sec : AC 0.9 11.3 131" 31.9, dT = +62sec : AF 0.9 13.6 309"

121.7, dT = +610sec

692 = alf Tau, 0.86 to 0.89, V, Type LB:

17 Apr 29 2 59 7 D 741ck1 5.5* 4.8 10+ 36 -7 25 274 42S 139 80 145

741 is double: ** 6.5 6.5 0.08" 240.0, dT = -0.04sec

741 has been reported as non-instantaneous (OCC1248). Observations are highly desired

17 May 2 2 26 23 D 1207ck3 5.6 4.9 39+ 77 0 66 231 51S 141 99 128

R1207 = 3 Cancrī

1207 is double: ** 6.0 7.6 0.003" 240.6, dT = 0.00sec

17 May 3 1 33 23 d 1336cA5 5.2 5.1V 50+ 90 11 70 160 83N 99 116 81

R1336 = omicron 1 Cancrī

1336 is double: AB 5.2 5.7 18.0, dT = 0.00sec

1336 = HD 76543, 5.18, , Type ACV, Period 0.4592 days, Phase 3 %

17 May 3 2 59 4 r 1336cA5 5.2 5.1V 50+ 90 -6 67 219 -78N 298 266 280

R1336 = omicron 1 Cancrī

1336 is double: AB 5.2 5.7 18.0, dT = 0.00sec

1336 = HD 76543, 5.18, , Type ACV, Period 0.4592 days, Phase 3 %

17 May 9 5 52 35 D 2008ck0 6.6* 6.0 97+ 162 46 163 81N 113 127 92

2008 is double: ** 7.4 7.4 0.050" 350.0, dT = -0.08sec

2008 has been reported as non-instantaneous (OCC1456). Observations are highly desired

17 May 9 10 48 27 d 2020cA0 6.5 6.5 98+ 163 18 245 88N 120 70 99

R2020 = 94 Virginis

2020 is double: ** 7.4 7.4 0.10" 90.0, dT = +0.22sec

2020 has been reported as non-instantaneous (OCC1457). Observations are highly desired

17 May 11 6 11 49 d 2223SK0 3.9 3.4 100- 174 34 146 -35S 113 142 99

R2223 = gamma Librae

2223 is triple: Aa,Ab 4.0 4.2 0.10" 191.0, dT = +0.06sec : AB 4.0 11.2 43" 157.2, dT = +89sec

2223 is a close double. Observations are highly desired

17 May 11 7 43 2 R 2223SK0 3.9 3.4 100- 174 41 172 38N 293 300 280

R2223 = gamma Librae

2223 is triple: Aa,Ab 4.0 4.2 0.10" 191.0, dT = +0.07sec : AB 4.0 11.2 43" 157.2, dT = +98sec

2223 is a close double. Observations are highly desired

Distance of 2223 to Terminator = 2.3"; to 3km sunlit peak = 0.0"

17 May 12 6 31 47 r 2352pF0 7.0 98- 164 29 141 48N 306 338 296

*** A light curve is desired as 2352 is in the Kepler2 program {ID = 205523624}

2352 is double: AB 7.6 7.8 0.045" 121.7, dT = +0.13sec

2352 is a close double. Observations are highly desired

17 May 13 12 35 44 r 2497SG1 6.5 6.2 94- 152 -3 23 224 58S 234 197 231

2497 is triple: **Aa,Ab 7.8 7.8 1.3" 105.0, dT = +2.9sec : AB 6.6 14.1 4.8" 72.6, dT = +16sec

2497 has been reported as non-instantaneous (OCC 529). Observations are highly desired

17 May 16 11 50 29 R 2902ck0 5.9 5.4 74- 119 -11 37 176 73S 241 245 254

R2902 = 57 Sagittarii

2902 is double: ** 6.8 6.8 0.050" 350.0, dT = +0.05sec

2902 has been reported as non-instantaneous (OCC1587). Observations are highly desired

17 May 17 10 14 36 r 3022 K0 7.0 6.3 66- 108 27 138 63S 228 263 245

17 May 19 12 32 24 r 3295kA3 7.0 6.8 45- 84 -3 37 144 62S 220 250 243

R3295 = 54 Aquarii

*** A light curve is desired as 3295 is in the Kepler2 program {ID = 206133310}

17 May 19 15 43 2 r 3307DA0 4.8 4.8 44- 83 35 42 205 82S 240 219 263

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R3307 = sigma Aquarii
 3307 is double: AB 4.8 8.5 3.7" 10.0, dT = +7sec
 3307 is a close double. Observations are highly desired
 17 May 20 12 3 19 R 3422 F0 6.7 6.5 34- 72 -8 29 123 73N 263 307 287
 17 May 21 12 30 32 r 128618 K2 6.8 6.0 24- 59 -3 29 115 51N 283 332 308
 17 May 31 4 54 30 D 1427 F8 7.0 6.7 36+ 73 32 264 47N 67 9 46
 17 Jun 1 4 24 4 D 1547cB1 3.8 3.9v 46+ 85 45 246 77S 125 75 102
 R1547 = rho Leonis
 1547 is double: AB 3.8 4.8 101.5, dT = -0.03sec
 1547 = rho Leo, 3.83 to 3.9, V, Type ACYG, Period 3.4271 days, Phase 69 %
 17 Jun 1 5 35 5 R 1547cB1 3.8 3.9v 46+ 86 31 259 -83S 285 229 262
 R1547 = rho Leonis
 1547 is double: AB 3.8 4.8 101.5, dT = -0.03sec
 1547 = rho Leo, 3.83 to 3.9, V, Type ACYG, Period 3.4271 days, Phase 69 %
 17 Jun 2 2 51 11 M 1644 B9 4.1 4.1 56+ 97 0 61 193 6N 29 19 5
 R1644 = Shang Tseang = sigma Leo
 17 Jun 2 2 56 25 Gr 1644 B9 4.1 4.1 56+ 97 -3 65 ** GRAZE: CA 6.9N; Dist.376km in az.
 216deg. [Lat = 30.11-0.59(E.Long+116.85)]
 17 Jun 4 4 1 26 D 1864 K2 6.7 5.9 76+ 121 53 182 76S 128 126 105
 17 Jun 4 6 14 29 D 1869SK2 6.2* s 76+ 122 40 228 29S 176 138 152
 R1869 = 46 Virginis
 1869 is triple: AB 6.18 8.78 0.64" 182.0, dT = +3sec : AC 6.2 13.2 42" 127.3, dT = +150sec
 1869 is a close double. Observations are highly desired
 1869 = NSV 6053, 8.0 to 11.0, V
 17 Jun 4 8 16 54 d 1875cF0 6.7* s 77+ 122 19 252 53S 152 100 128
 R1875 = 48 Virginis
 1875 is double: AB 7.12 7.65 0.50" 192.2, dT = +1.2sec
 1875 is a close double. Observations are highly desired
 1875 = NSV 19585, 6.59, , Type DSCT:
 17 Jun 11 6 38 51 r 2710 A8 6.7 6.5 97- 160 25 141 66N 281 315 286
 17 Jun 11 12 8 22 r 2729cB9 6.9 6.9E 97- 159 -6 22 224 43S 211 173 216
 2729 is double: ** 7.1 7.9 350.0, dT = 0.00sec
 2729 = V0356 Sgr, 6.84 to 7.66, V, Type EA/DS:, Period 8.8961 days, Phase 51 %
 17 Jun 13 9 54 20 R 2981SB4 5.1 5.1 87- 137 36 164 44S 209 223 224
 R2981 = pi Capricorni
 2981 is quadruple: Aa,Ab 5.3 7.9 0.10" 101.7, dT = +0.14sec : AB 5.1 8.5 3.2" 146.1, dT =
 -7sec : AC 5.2 14.1 42" 39.6, dT = +199sec
 2981 is a close double. Observations are highly desired
 17 Jun 13 11 30 0 R 2987SF3 4.9 87- 137 37 192 63N 282 271 297
 R2987 = rho Capricorni
 2987 is quadruple: AB 4.97 6.88 1.82" 188.2, dT = +0.38sec : AC 5.0 13.3 56" 151.0, dT =
 +129sec : AD 5.0 6.7 260" 150.0, dT = +609sec
 2987 is a close double. Observations are highly desired
 17 Jun 13 11 30 1 r X174647S 6.8 6.5 87- 137 37 192 63N 282 271 297
 X174647 is triple: BA 6.9 5.0 1.8" 8.2, dT = -0.38sec : BC 6.9 13.3 56" 150.0, dT = +130sec
 X174647 is a close double. Observations are highly desired
 17 Jun 13 11 37 52 R 2990SK0 6.6 6.0 87- 137 -11 37 194 80N 265 252 280
 2990 is triple: DE 6.7 10.6 53" 93.9, dT = +165sec : DA 6.7 5.0 260" 330.0, dT = -341sec
 17 Jun 16 11 14 11 R 3375 F2 6.8 6.6 61- 102 39 142 70S 228 259 252
 17 Jun 17 17 4 9 r 3526cG9 4.9 4.4S 48- 88 53 33 238 88S 244 199 269
 R3526 = 27 Piscium

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3526 is double: AB 4.9 8.9 0.9" 330.2, dT = -0.14sec
3526 is a close double. Observations are highly desired
3526 = NSV 14785, 9.0 to 11.5, V

17 Jun 18 9 3 37 r 83wk2 6.6 6.0 40- 78 5 94 82N 254 310 278
R83 = 15 Ceti

83 is double: AB 6.7 13.5 25.9" 311.6, dT = -25sec
17 Jun 19 14 51 23 Gr 249 K3 4.5 3.7 27- 63 26 56 ** GRAZE: CA 4.4N; Dist.344km in az.
327deg. [Lat = 37.98+0.55(E.Long+116.85)]

17 Jun 19 15 9 13 r 249 K3 4.5 3.7 27- 63 29 61 165 39N 298 310 320
R249 = nu Piscium

17 Jun 20 10 52 27 R 110566 A5 7.0 6.8 19- 51 11 87 48N 289 346 308
17 Jun 21 12 11 6 R 508ck0 4.1 3.6 10- 37 -5 18 86 69S 227 285 241
R508 = 5 Tauri

508 is double: AB 4.5 6.5 0.004" 54.6, dT = +0.01sec
17 Jun 22 11 47 8 r 677WA6 4.8 4.7S 4- 23 -9 3 73 59N 279 334 287
677 is double: AB 4.8 6.5 254" 130.0, dT = +353sec
677 = NSV 1627, 4.78, , Type DSCT:

17 Jun 22 13 2 19 D 692SK5 0.9* 0.1v 4- 22 4 18 82 -81N 59 118 67
R692 = Aldebaran = alpha Tauri

692 is multiple: AE 0.9 12.0 31" 331.0, dT = +2sec : AB 0.9 13.6 32" 113.3, dT = +31sec : AC
0.9 11.3 131" 31.9, dT = +199sec : AF 0.9 13.6 309"

121.7, dT = +240sec
692 = alf Tau, 0.86 to 0.89, V, Type LB:

17 Jun 22 13 57 50 R 692SK5 0.9* 0.1v 4- 22 15 29 89 69N 268 328 276
R692 = Aldebaran = alpha Tauri

692 is multiple: AE 0.9 12.0 31" 331.0, dT = -27sec : AB 0.9 13.6 32" 113.3, dT = +53sec : AC
0.9 11.3 131" 31.9, dT = +133sec : AF 0.9 13.6 309"

121.7, dT = +479sec
692 = alf Tau, 0.86 to 0.89, V, Type LB:

17 Jun 26 1 39 22 m 1236SG0 5.1 5+ 27 15 35 268 -2N 16 316 2
R1236 = Tegmine = zeta Cancri

1236 is multiple: AB 5.30 6.25 1.13" 11.8 : AB,C 4.9 5.8 5.9" 65.1 : AC 5.3 5.8 6.4" 60.5 :
AB,D 4.9 8.9 275" 107.0

1236 is a close double. Observations are highly desired

17 Jun 29 3 17 53 D 1609SF2 4.6 4.5 31+ 67 -4 42 246 25N 48 358 23
R1609 = chi Leonis

1609 is quadruple: AB 4.7 11.0 4.9" 267.9, dT = -24sec : AC 4.7 10.6 253" 310.3, dT = -212sec
: AD 4.7 11.7 289" 297.7, dT = -643sec

1609 is a close double. Observations are highly desired

17 Jun 29 3 28 11 Gr 1609SF2 4.6 4.5 31+ 67 -4 39 ** GRAZE: CA 3.7N; Dist.171km in az.
33deg. [Lat = 36.10-0.53(E.Long+116.85)]

17 Jun 29 3 44 34 r 1609SF2 4.6 4.5 31+ 67 -8 37 252 -18N 5 312 340
R1609 = chi Leonis

1609 is quadruple: AB 4.7 11.0 4.9" 267.9, dT = +4sec : AC 4.7 10.6 253" 310.3, dT = -929sec :
AD 4.7 11.7 289" 297.7, dT = -710sec

1609 is a close double. Observations are highly desired

17 Jul 1 2 41 30 m X 54027SF0 3.5 3.3s 51+ 91 3 53 200 -7s 210 193 186
X 54027 is multiple: BA 3.5 3.5 2.6" 181.2 : BD 3.5 12.1 188" 97.8 : BE 3.5 8.9 259" 167.0 : BF
3.5 9.5 419" 268.0

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X 54027 is a close double. Observations are highly desired
X 54027 = NSV 5859, 2.452, range 0.72, 6Ic, Type VAR

17 Jul 1 3 32 59 D 1825 G8 5.9 5.5 51+ 91 -6 47 218 41S 163 132 138
17 Jul 5 6 30 54 D 2280wM1 6.5 5.6s 87+ 137 35 209 73S 123 98 112
2280 is double: AB 6.6 13.7 36" 238.6, dT = -52sec
2280 = NSV 7351, 6.59, range 0.05, V

17 Jul 6 2 51 55 d 2399 G8 4.9* 4.3 92+ 147 1 26 137 69N 84 120 76
R2399 = 24 (Scorpii)/Ophiuchi

17 Jul 6 3 16 55 d 2396cA3 6.7* 6.6 92+ 147 -3 29 143 25S 169 201 162
2396 is double: ** 7.1 7.5 0.040" 141.0, dT = +0.21sec
2396 has been reported as non-instantaneous (Occ 36). Observations are highly desired

17 Jul 12 8 22 1 R 3206 F3 5.1 4.9s 90- 144 35 144 34N 307 337 328
R3206 = Kuh = mu Capricorni
3206 = NSV 25781, 5.07, range 0.03, V, Type VAR:

17 Jul 14 6 56 2 r 3463 K0 6.4 5.7 76- 121 10 105 35N 303 357 328
17 Jul 18 12 43 44 R 462cB8 6.0 6.0 31- 67 -2 49 114 78N 264 314 279
462 is double: ** 6.7 6.7 0.10" 90.0, dT = +0.23sec
462 has been reported as non-instantaneous (Occ1200). Observations are highly desired

17 Jul 19 11 57 33 R 608DF3 6.0 5.8s 21- 54 -10 31 92 71N 274 334 285
608 is double: AB 6.11 8.77 3.60" 222.2, dT = -5sec
608 is a close double. Observations are highly desired
608 = NSV 1466, 6.00 to 6.05, V

17 Jul 21 12 44 7 r 943 B8 6.6 6.6 5- 26 -2 18 80 66S 238 297 235
17 Jul 21 12 56 32 m 947SF6 5.2* 5.0 5- 26 0 21 80 1N 351 51 349
R947 = 71 Orionis
947 is quadruple: AB 5.2 11.2 6.7" 185.2 : AC 5.2 12.7 65" 283.9 : AD 5.2 12.0 70" 265.7
947 is a close double. Observations are highly desired
Distance of 947 to Terminator = 14.1"; to 3km sunlit peak = 0.0"

17 Jul 26 17 49 58 d 1644 B9 4.1 4.1 15+ 45 59 16 93 19S 182 238 158
R1644 = Shang Tseang = sigma Leo

17 Jul 31 6 18 43 D 2128 G7 5.8 5.3 56+ 96 15 244 69N 87 37 70
R2128 = 13 Librae

17 Aug 1 2 7 28 D 2223SK0 3.9 3.4 64+ 106 7 40 168 7S 188 198 175
R2223 = gamma Librae
2223 is triple: Aa,Ab 4.0 4.2 0.10" 191.0, dT = +1.2sec : AB 4.0 11.2 43" 157.2, dT = +437sec
2223 is a close double. Observations are highly desired

17 Aug 1 2 20 15 Gr 2223SK0 3.9 3.4 64+ 106 4 42 ** GRAZE: CA -8.4s; Dist. 78km in az.
213deg. [Lat = 33.43-0.55(E.Long+116.85)]

17 Aug 1 2 31 58 r 2223SK0 3.9 3.4 64+ 106 2 41 176 -23S 218 221 205
R2223 = gamma Librae
2223 is triple: Aa,Ab 4.0 4.2 0.10" 191.0, dT = -1.1sec : AB 4.0 11.2 43" 157.2, dT = -251sec
2223 is a close double. Observations are highly desired

17 Aug 1 4 10 9 m 2231 K1 6.8 6.2 64+ 107 37 206 3N 18 356 5
Distance of 2231 to Terminator = 15.4"; to 3km sunlit peak = 0.0"

17 Aug 1 7 10 0 d 2245 K0 6.3* 5.7 65+ 108 11 243 82N 96 46 83
17 Aug 3 6 54 31 d 2497SG1 6.5 6.2 82+ 130 25 220 34S 153 118 150
2497 is triple: **Aa,Ab 7.8 7.8 1.3" 105.0, dT = +5sec : AB 6.6 14.1 4.8" 72.6, dT = +5sec
2497 has been reported as non-instantaneous (Occ 529). Observations are highly desired

17 Aug 4 6 41 32 D 2629SA2 6.4 89+ 140 32 206 45N 48 25 50
2629 is triple: Aa,Ab 6.60 9.60 0.10" 28.0, dT = +0.39sec : AB 7.01 7.13 1.40" 186.8, dT = -4sec

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2629 is a close double. Observations are highly desired

17 Aug 6 4 52 49 D 2902cK0 5.9 5.4 98+ 162 31 150 51N 46 72 58
R2902 = 57 Sagittarii
2902 is double: ** 6.8 6.8 0.050" 350.0, dT = +0.11sec
2902 has been reported as non-instantaneous (OCC1587). Observations are highly desired

17 Aug 6 7 17 19 d 2908cF0 6.9 6.7 98+ 163 36 190 38S 136 128 149
2908 is double: ** 7.5 7.7 0.060" 143.0, dT = +0.36sec
2908 has been reported as non-instantaneous (OCC1588). Observations are highly desired
Distance of 2908 to Terminator = 16.0"; to 3km sunlit peak = 5.7"

17 Aug 9 9 57 14 R 3310pA8 6.4 6.2 97- 161 44 197 62N 281 266 304
*** A light curve is desired as 3310 is in the Kepler2 program {ID = 206145793}
3310 is double: AB 7.2 7.2 0.001" 126.6, dT = 0.00sec

17 Aug 10 5 56 56 R 3421cM3 4.9 4.1v 93- 150 21 116 90s 252 300 276
R3421 = chi Aquarii
3421 is double: AB 0.5 0.003" 39.4, dT = +0.01sec
3421 = khi Aqr, 4.75 to 5.10, V, Type SR, Period 35.250 days

17 Aug 11 7 48 6 r 20 G5 6.7 6.2 87- 137 35 124 26s 186 230 211
17 Aug 12 8 54 5 R 150SF1 6.1 5.9v 78- 124 41 124 30S 191 234 214
R150 = 26 Ceti
150 is triple: AB 6.1 9.5 16.2" 254.0, dT = -28sec : AC 6.1 14.1 120" 291.0, dT = +85sec
150 = HIP 4979, 6.06, range 0.01, 0V, Type VAR, Period 369.00369 days

17 Aug 12 12 7 21 R 165 K0 6.4 6.0 77- 123 57 196 41s 202 188 225
R165 = 29 Ceti

17 Aug 17 12 27 18 R 886cK0 6.8 6.1 22- 57 -9 41 95 76s 252 312 252
886 is double: ** 7.7 7.7 0.030" 63.0, dT = +0.06sec
886 has been reported as non-instantaneous (OCC 494). Observations are highly desired

17 Aug 17 12 30 0 R 94927 G5 7.0 6.5 22- 57 -9 42 95 48s 224 284 224
17 Aug 19 21 42 29 r 1236SG0 5.1 5- 25 57 39 265 25N 342 282 328
R1236 = Tegmine = zeta Cancri
1236 is multiple: AB 5.30 6.25 1.13" 11.4, dT = -4sec : AB,C 4.9 5.8 5.9" 65.0, dT = -2.8sec
: AC 5.3 5.8 6.4" 60.4, dT = -5sec : AB,D 4.9 8.9

275" 107.0, dT = +572sec
1236 is a close double. Observations are highly desired

17 Aug 31 5 38 10 d 2571 A9 6.8 6.6 67+ 110 25 221 22N 24 349 25
17 Sep 1 2 58 42 D 2710 A8 6.7 6.5 75+ 120 -10 35 166 76N 74 86 79
17 Sep 3 5 56 26 D 2981SB4 5.1 5.1 90+ 144 37 189 53s 115 107 130
R2981 = pi Capricorni
2981 is quadruple: Aa,Ab 5.3 7.9 0.10" 103.1, dT = +0.39sec : AB 5.1 8.5 3.2" 146.1, dT = +11sec : AC 5.2 14.1 42" 39.6, dT = +44sec
2981 is a close double. Observations are highly desired

17 Sep 3 7 11 22 D 2990SK0 6.6 6.0 91+ 144 32 210 77N 65 39 80
2990 is triple: DE 6.7 10.6 53" 93.8, dT = +134sec : DA 6.7 5.0 260" 330.0, dT = -65sec

17 Sep 3 7 12 2 d X174647S 6.8 6.5 91+ 144 32 210 61N 49 23 64
X174647 is triple: BA 6.9 5.0 1.8" 8.2, dT = +4sec : BC 6.9 13.3 56" 150.0, dT = -34sec
X174647 is a close double. Observations are highly desired

17 Sep 3 7 12 4 D 2987SF3 4.9 91+ 144 32 210 61N 48 23 64
R2987 = rho Capricorni
2987 is quadruple: AB 4.97 6.88 1.82" 188.2, dT = -4sec : AC 5.0 13.3 56" 151.1, dT = -38sec :
AD 5.0 6.7 260" 150.0, dT = -162sec
2987 is a close double. Observations are highly desired

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17 Sep 7 10 26 35 Gr 3526CG9 4.9 4.4S 99- 166 45 ** GRAZE: CA 19.2N; Dist. 47km in az.
 151deg. [Lat = 33.78+0.46(E.Long+116.85)]
 Distance of 3526 to Terminator = 4.1"; to 3km sunlit peak = 0.0"

17 Sep 7 10 26 46 M 3526CG9 4.9 4.4S 99- 166 45 219 19N 331 300 356
 R3526 = 27 Piscium
 3526 is double: AB 4.9 8.9 0.9" 330.4
 3526 is a close double. Observations are highly desired
 3526 = NSV 14785, 9.0 to 11.5, V
 Distance of 3526 to Terminator = 3.1"; to 3km sunlit peak = 0.0"

17 Sep 10 5 1 29 r 364 B9 4.3 4.3 82- 129 5 83 70S 237 293 255
 R364 = xi 2 Ceti

17 Sep 10 14 53 19 r 405SF1 4.3 4.1S 79- 126 17 35 258 42S 208 153 226
 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" 341.8, dT = +0.21sec : Aa,Ac 2.3 0.25" 63.0, dT = +0.6sec :

AB 4.2 13.6 160" 342.6, dT = +341sec
 405 is a close double. Observations are highly desired
 405 = NSV 909, 4.27, , Type RS:

17 Sep 11 6 53 27 R 498CA0 6.3 6.3 71- 115 19 87 88S 257 315 271
 498 is double: ** 7.0 7.0 0.050" 350.0, dT = +0.01sec
 498 has been reported as non-instantaneous (OCc1203). Observations are highly desired

17 Sep 11 7 33 42 d 508CK0 4.1 3.6 71- 115 27 92 -81S 88 146 102
 R508 = 5 Tauri
 508 is double: AB 4.5 6.5 0.003" 91.6, dT = +0.01sec

17 Sep 11 8 35 25 R 508CK0 4.1 3.6 71- 115 40 102 60S 229 285 243
 R508 = 5 Tauri
 508 is double: AB 4.5 6.5 0.003" 91.6, dT = 0.00sec

17 Sep 12 7 12 14 R 661WF0 4.5 4.3v 60- 102 13 80 6S 178 236 187
 R661 = 71 Tauri (V777)
 661 is double: AB 4.5 12.0 132" 153.8, dT = -835sec
 661 = V0777 Tau, 4.73, range 0.02, B, Type DSCTC, Period 0.16 days

17 Sep 12 7 23 26 r 659SF7 6.6 s 60- 102 16 81 78N 275 333 283
 R659 = 70 Tauri
 659 is triple: Aa,Ab 7.74 7.00 0.10" 105.0, dT = +0.18sec : AB 6.4 13.4 129" 339.4, dT = -103sec
 659 is a close double. Observations are highly desired
 659 = NSV 15985, 6.46, range 0.02, V, Type BY:

17 Sep 12 7 42 14 d 669SG7 3.8 3.3s 60- 102 19 83 -80S 92 151 101
 R669 = theta 1 Tauri
 669 is triple: Aa,Ab 3.8 7.3 0.22" 354.7, dT = -0.05sec : AB 3.8 12.0 266" 75.0, dT = +481sec
 669 is a close double. Observations are highly desired
 669 = NSV 16016, 3.84, range 0.21, V

17 Sep 12 7 47 26 D 671SA7 3.4 3.3v 60- 102 20 84 -57S 115 174 124
 R671 = theta 2 Tauri
 671 is triple: Aa,Ab 3.7 4.9 0.011" 111.7, dT = +0.03sec : AB 3.4 3.9 341" 347.0, dT = -511sec
 671 is a close double. Observations are highly desired
 671 = tet 2 Tau, 3.35 to 3.42, V, Type DSCTC+E:, Period 0.07564 days

17 Sep 12 8 20 25 M 667CK2 5.0 4.4 60- 101 27 88 10N 342 42 351

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R667 = 75 Tauri
 667 is double: AB 5.0 30.0
 17 Sep 12 8 32 12 R 671SA7 3.4 3.3v 60- 101 30 90 38S 210 270 219
 R671 = theta 2 Tauri
 671 is triple: Aa,Ab 3.7 4.9 0.011" 111.7, dT = 0.00sec : AB 3.4 3.9 341" 347.0, dT = +649sec
 671 is a close double. Observations are highly desired
 671 = tet 2 Tau, 3.35 to 3.42, v, Type DSCTC+E:, Period 0.07564 days
 17 Sep 12 8 39 17 d 677WA6 4.8 4.7S 60- 101 31 91 -83N 75 135 84
 677 is double: AB 4.8 6.5 254" 130.0, dT = +286sec
 677 = NSV 1627, 4.78, , Type DSCT:
 17 Sep 12 8 39 35 R 669SG7 3.8 3.3s 60- 101 31 91 61S 233 293 242
 R669 = theta 1 Tauri
 669 is triple: Aa,Ab 3.8 7.3 0.22" 354.7, dT = +0.24sec : AB 3.8 12.0 266" 75.0, dT = +511sec
 669 is a close double. Observations are highly desired
 669 = NSV 16016, 3.84, range 0.21, v
 17 Sep 12 8 58 56 R 672cF7 6.7 60- 101 35 94 86N 266 326 275
 672 is double: AB 6.85 8.38 0.22" 262.3, dT = -0.45sec
 672 is a close double. Observations are highly desired
 17 Sep 12 9 46 3 R 677WA6 4.8 4.7S 59- 101 45 101 76S 248 306 256
 677 is double: AB 4.8 6.5 254" 130.0, dT = +260sec
 677 = NSV 1627, 4.78, , Type DSCT:
 17 Sep 12 9 49 23 R 680SF5 6.5 6.3 59- 101 45 102 63S 235 293 244
 680 is double: AB 6.5 0.30" 297.0, dT = -0.32sec
 680 is a close double. Observations are highly desired
 17 Sep 12 11 24 13 R 685 F0 6.6 6.5 59- 100 63 125 51S 224 269 232
 17 Sep 12 11 37 57 D 692SK5 0.9* 0.1v 59- 100 65 129 -74S 99 140 106
 R692 = Aldebaran = alpha Tauri
 692 is multiple: AE 0.9 12.0 31" 331.0, dT = -52sec : AB 0.9 13.6 32" 113.3, dT = +84sec : AC 0.9 11.3 131" 31.9, dT = +142sec : AF 0.9 13.6 309"
 121.7, dT = +781sec
 692 = alf Tau, 0.86 to 0.89, v, Type LB:
 17 Sep 12 12 53 31 R 692SK5 0.9* 0.1v 58- 100 -8 72 177 56S 229 231 236
 R692 = Aldebaran = alpha Tauri
 692 is multiple: AE 0.9 12.0 31" 331.0, dT = +19sec : AB 0.9 13.6 32" 113.3, dT = +39sec : AC 0.9 11.3 131" 31.9, dT = +361sec : AF 0.9 13.6 309"
 121.7, dT = +261sec
 692 = alf Tau, 0.86 to 0.89, v, Type LB:
 17 Sep 13 8 28 28 R 814SB5 5.4 5.5 48- 88 19 81 68S 244 304 247
 R814 = 115 Tauri
 814 is quadruple: Aa,Ab 5.4 6.4 0.063" 282.5, dT = -0.09sec : AC 5.4 11.8 10.1" 347.0, dT = +4sec : AB 5.4 10.1 10.2" 304.6, dT = -9sec
 814 is a close double. Observations are highly desired
 17 Sep 13 9 22 7 R 823DA2 6.7 48- 88 29 87 46N 311 11 313
 823 is double: AB 6.77 10.42 3.12" 128.9, dT = +10sec
 823 is a close double. Observations are highly desired
 17 Sep 13 10 29 26 Gr 832 M2 4.3 3.2v 48- 87 43 ** GRAZE: CA 10.5N; Dist. 82km in az. 153deg. [Lat = 33.44+0.41(E.Long+116.85)]
 17 Sep 13 10 30 31 M 832 M2 4.3 3.2v 48- 87 43 96 10N 347 47 349

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R832 = 119 Tauri (CE)
 832 = CE Tau, 4.23 to 4.54, V, Type SRC, Period 165. days
 17 Sep 13 10 38 23 R 829 K5 6.8 5.9 47- 87 45 98 74S 251 311 253
 17 Sep 13 11 39 16 R 836 B2 5.7 5.7v 47- 87 57 109 64N 293 349 295
 R836 = 120 Tauri
 836 = V0960 Tau, 5.53 to 5.69, V, Type GCAS, Period 1.03747 days, Phase 4 %
 17 Sep 14 8 7 28 r 985SK0 6.8 6.3v 37- 75 4 70 65S 247 302 243
 985 is triple: AB 0.3 0.005" 80.0, dT = +0.01sec : AB 6.7 11.5 3.1" 316.5, dT = -1.8sec
 985 is a close double. Observations are highly desired
 985 = OU Gem, 6.76, range 0.05, V, Type BY
 17 Sep 15 18 8 5 r 1175CK5 4.9 4.1 23- 58 52 57 251 39N 330 274 318
 R1175 = 81 Geminorum
 1175 is double: ** 5.8 5.8 0.10" 90.0, dT = +0.17sec
 1175 has been reported as non-instantaneous (Occ 229). Observations are highly desired
 17 Sep 22 2 39 6 D 1924cF3 5.8 5.5 4+ 23 -12 3 262 38S 155 99 132
 R1924 = 66 Virginis
 1924 is double: AB 5.8 0.016" 90.4, dT = +0.02sec
 1924 is a close double. Observations are highly desired
 17 Sep 26 3 37 54 D 2396CA3 6.7* 6.6 31+ 68 18 232 64S 122 79 115
 2396 is double: ** 7.1 7.5 0.040" 141.0, dT = +0.11sec
 2396 has been reported as non-instantaneous (Occ 36). Observations are highly desired
 17 Sep 26 3 56 44 D 2399 G8 4.9* 4.3 31+ 68 15 236 32N 38 352 31
 R2399 = 24 (Scorpii)/Ophiuchi
 17 Sep 29 2 0 49 m 2798CK1 6.1 5.5 59+ 100 -6 36 173 3N 357 3 5
 2798 is double: AB 7.0 7.1 0.08" 210.3
 2798 is a close double. Observations are highly desired
 17 Oct 2 8 0 7 D 3206 F3 5.1 4.9s 86+ 137 25 231 89N 68 27 90
 R3206 = Kuh = mu Capricorni
 3206 = NSV 25781, 5.07, range 0.03, V, Type VAR:
 17 Oct 4 4 23 28 D 3463 K0 6.4 5.7 97+ 160 40 138 53N 21 55 46
 17 Oct 7 9 53 2 r 110464 K0 6.8 6.3 96- 158 62 207 48S 223 200 242
 17 Oct 8 6 52 22 R 462CB8 6.0 6.0 91- 146 44 108 75S 248 302 264
 462 is double: ** 6.7 6.7 0.10" 90.0, dT = +0.2sec
 462 has been reported as non-instantaneous (Occ1200). Observations are highly desired
 17 Oct 9 6 11 18 R 608DF3 6.0 5.8s 84- 133 26 89 74S 249 308 259
 608 is double: AB 6.11 8.77 3.60" 222.2, dT = -6sec
 608 is a close double. Observations are highly desired
 608 = NSV 1466, 6.00 to 6.05, V
 17 Oct 9 11 10 53 R 627 K1 6.6 6.0 83- 131 72 195 36N 319 306 328
 17 Oct 11 9 19 34 R 947SF6 5.2* 5.0 62- 104 43 95 83S 266 326 263
 R947 = 71 Orionis
 947 is quadruple: AB 5.2 11.2 6.7" 185.1, dT = -2.4sec : AC 5.2 12.7 65" 284.0, dT = -131sec
 : AD 5.2 12.0 70" 265.7, dT = -150sec
 947 is a close double. Observations are highly desired
 17 Oct 13 8 19 20 R 1236SG0 5.1 40- 78 7 74 84S 276 332 262
 R1236 = Tegmine = zeta Cancri
 1236 is multiple: AB 5.30 6.25 1.13" 10.9, dT = +0.17sec : AB,C 4.9 5.8 5.9" 65.0, dT =
 +9sec : AC 5.3 5.8 6.4" 60.4, dT = +9sec : AB,D 4.9 8.9
 275" 107.0, dT = +460sec
 1236 is a close double. Observations are highly desired

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17 Oct 13 8 19 21 R X108006M 6.2 5.9 40- 78 7 74 84S 276 332 262
 X108006 is triple: BA 6.3 5.3 1.1" 190.9, dT = -0.17sec : BC 6.3 5.8 5.4" 67.1, dT = +8sec
 X108006 is a close double. Observations are highly desired

17 Oct 13 8 19 29 R 97646SG0 6.2 40- 78 7 74 84S 276 333 262
 97646 is multiple: Ca,Cb 6.2 7.1 0.17" 264.4, dT = -0.28sec : CB 5.8 6.3 5.4" 247.1, dT = -8sec
 : C,AB 5.8 4.9 5.9" 245.0, dT = -9sec

6.4" 240.4, dT = -9sec
 97646 is a close double. Observations are highly desired

17 Oct 13 9 8 14 R 1241SA0 6.5 6.3 40- 78 17 80 87N 285 344 271
 1241 is quadruple: AB 6.4 12.3 1.6" 327.6, dT = -2.3sec : AC 6.4 10.9 63" 300.0, dT = -114sec
 : AB,D 6.5 8.9 228" 323.0, dT = -339sec
 1241 is a close double. Observations are highly desired

17 Oct 14 9 33 38 R 1371SG9 6.5 6.1 29- 65 9 78 38S 235 292 216
 R1371 = 81 Cancrī
 1371 is multiple: Aa,Ab 7.2 7.2 0.063" 336.4, dT = +0.03sec : AE 6.6 17.0 43" 262.0, dT =
 -92sec : AB 6.6 14.2 101" 116.8, dT = +115sec : AC 6.6

10.4 202" 213.8, dT = -452sec
 1371 is a close double. Observations are highly desired

17 Oct 14 10 58 43 R 1375 K1 5.4 4.7 28- 64 26 89 48S 246 305 226
 R1375 = pi Cancrī

17 Oct 15 10 13 9 R 1487SB7 1.4 1.4s 19- 52 5 79 73N 308 5 286
 R1487 = Regulus = alpha Leonis
 1487 is triple: AB 1.4 8.2 175" 307.0, dT = -351sec : AD 1.4 12.1 195" 274.0, dT = -324sec
 1487 = NSV 4750, 1.33 to 1.40, V

17 Oct 17 13 6 57 M 1728KM4 6.7 5.9s 5- 26 -11 15 96 9N 20 76 356
 *** A light curve is desired as 1728 is in the Kepler2 program {ID = 201690697}
 1728 = NSV 19065, 6.67 to 6.76, V

17 Oct 26 1 14 56 r 2734wk2 5.2 4.5 32+ 69 -4 34 196 -53N 301 287 308
 R2734 = 29 Sagittarii
 2734 is double: AB 5.2 14.0 13.2" 0.0

17 Oct 27 4 25 38 D 2886 K0 4.9 4.3 42+ 81 19 228 20S 149 108 161
 R2886 = 56 Sagittarii

17 Oct 27 4 36 15 Gr 2886 K0 4.9 4.3 42+ 81 18 ** GRAZE: CA 4.9S; Dist. 71km in az.
 151deg. [Lat = 33.54+0.46(E.Long+116.85)]

17 Nov 5 3 20 30 r 526 G5 6.7 6.2 98- 166 18 85 68N 302 360 315
 17 Nov 9 16 24 27 r 1236SG0 5.1 64- 106 22 38 266 33S 226 166 212
 R1236 = Tegmine = zeta Cancrī
 1236 is multiple: AB 5.30 6.25 1.13" 10.6, dT = +4sec : AB,C 4.9 5.8 5.9" 64.9, dT = +23sec
 : AC 5.3 5.8 6.4" 60.3, dT = +25sec : AB,D 4.9 8.9

275" 107.0, dT = +553sec
 1236 is a close double. Observations are highly desired

17 Nov 11 16 54 23 D 1487SB7 1.4 1.4s 41- 80 26 51 244 -69N 90 40 67
 R1487 = Regulus = alpha Leonis
 1487 is triple: AB 1.4 8.2 175" 307.0, dT = -372sec : AD 1.4 12.1 195" 274.0, dT = -521sec
 1487 = NSV 4750, 1.33 to 1.40, V

17 Nov 11 18 0 31 R 1487SB7 1.4 1.4s 41- 79 34 38 258 60N 320 264 298
 R1487 = Regulus = alpha Leonis
 1487 is triple: AB 1.4 8.2 175" 307.0, dT = -415sec : AD 1.4 12.1 195" 274.0, dT = -329sec

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1487 = NSV 4750, 1.33 to 1.40, V
 17 Nov 22 1 31 22 D 2697 F0 6.5 6.3v 11+ 39 -11 18 227 21S 153 112 157
 2697 = V4190 Sgr, 6.44 to 6.48, V, Type DSCTC
 17 Nov 22 1 45 45 Gr 2697 F0 6.5 6.3v 11+ 39 17 ** GRAZE: CA 1.3S; Dist.124km in az.
 153deg. [Lat = 33.01+0.43(E.Long+116.85)]
 17 Nov 25 1 13 52 M 3079 A1 4.1 4.1 34+ 71 -7 38 191 4S 159 150 178
 R3079 = Tsin = theta Capricorni
 17 Nov 25 1 14 36 Gr 3079 A1 4.1 4.1 34+ 71 -8 37 ** GRAZE: CA 3.7S; Dist.136km in az.
 327deg. [Lat = 35.72+0.53(E.Long+116.85)]
 17 Nov 25 3 24 18 D 3091 K4 6.7 5.9 34+ 72 26 224 85N 68 31 87
 17 Nov 29 8 24 50 D 76 F5 5.9 5.7 75+ 121 17 257 57N 31 337 55
 R76 = 14 Ceti
 17 Dec 1 5 23 3 D 110464 K0 6.8 6.3 91+ 146 64 178 79S 74 76 94
 17 Dec 2 2 0 14 D 462CB8 6.0 6.0 96+ 158 28 95 81S 69 126 85
 462 is double: ** 6.7 6.7 0.10" 90.0, dT = +0.17sec
 462 has been reported as non-instantaneous (OCC1200). Observations are highly desired
 17 Dec 3 5 3 51 d 627 K1 6.6 6.0 100+ 172 55 113 82N 31 84 40
 Distance of 627 to Terminator = 8.7"; to 3km sunlit peak = 1.3"
 17 Dec 3 9 7 54 D 650CA1 5.6 5.5s 100+ 173 61 240 67N 9 320 18
 R650 = 63 Tauri
 650 is double: ** 5.9 7.9 350.0, dT = 0.00sec
 650 = NSV 15964, 5.64, range 0.02, V, Type VAR:
 Distance of 650 to Terminator = 5.3"; to 3km sunlit peak = 0.0"
 17 Dec 3 9 21 14 Gr 650CA1 5.6 5.5s 100+ 173 58 ** GRAZE: CA 47.1N; Dist.121km in az.
 358deg. [Lat = 35.36+0.03(E.Long+116.85)]
 Distance of 650 to Terminator = 3.7"; to 3km sunlit peak = 0.0"
 17 Dec 8 8 1 29 R 1415WA1 6.3 6.3 71- 114 30 93 61S 260 318 239
 R1415 = 7 Leonis
 1415 is double: AB 6.3 9.4 41" 80.0, dT = +90sec
 17 Dec 8 9 10 28 R 1420 F2 6.6 6.4 70- 114 44 103 78S 277 333 256
 R1420 = 11 Leonis
 17 Dec 8 12 41 27 R 1434WM2 5.4 4.5s 69- 113 69 193 76N 303 292 282
 R1434 = psi Leonis
 1434 is double: AB 5.5 11.6 284" 138.9, dT = +713sec
 1434 = NSV 4594, 5.35 to 5.39, V, Type LB
 17 Dec 15 14 11 55 D 2223SK0 3.9 3.4 6- 29 -7 19 124 -39S 163 208 149
 R2223 = gamma Librae
 2223 is triple: Aa,Ab 4.0 4.2 0.10" 191.0, dT = +0.33sec : AB 4.0 11.2 43" 157.2, dT = +159sec
 2223 is a close double. Observations are highly desired
 17 Dec 15 15 3 5 R 2223SK0 3.9 3.4 6- 29 2 28 135 45S 246 284 233
 R2223 = gamma Librae
 2223 is triple: Aa,Ab 4.0 4.2 0.10" 191.0, dT = -0.23sec : AB 4.0 11.2 43" 157.2, dT = -2.5sec
 2223 is a close double. Observations are highly desired
 17 Dec 23 2 58 28 D 3181CA7 6.0 5.8 19+ 52 20 236 72N 53 8 74
 R3181 = 45 Capricorni
 3181 is double: ** 6.7 6.7 0.050" 350.0, dT = +0.06sec
 3181 has been reported as non-instantaneous (OCC1610). Observations are highly desired
 17 Dec 26 3 54 19 D 20 G5 6.7 6.2 47+ 87 41 227 76S 81 43 105
 17 Dec 26 6 28 5 d 128661 M0 6.6 5.9s 48+ 88 14 257 29S 128 74 152
 128661 = NSV 15057, 6.74 to 6.79, Hp
 17 Dec 27 6 8 54 D 150SF1 6.1 5.9v 58+ 100 29 250 9S 147 96 171

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R150 = 26 Ceti
 150 is triple: AB 6.1 9.5 16.2" 254.0, dT = -74sec : AC 6.1 14.1 120" 291.0, dT = -1554sec
 150 = HIP 4979, 6.06, range 0.01, 0V, Type VAR, Period 369.00369 days
 17 Dec 27 6 13 49 Gr 150SF1 6.1 5.9v 58+ 100 28 ** GRAZE: CA 1.0s; Dist. 17km in az.
 168deg. [Lat = 34.11+0.18(E.Long+116.85)]
 17 Dec 29 2 24 58 D 405SF1 4.3 4.1s 78+ 124 57 131 71N 50 89 67
 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" 341.0, dT = +0.09sec : Aa,Ac 2.3 0.25" 63.0, dT = +0.6sec :

AB 4.2 13.6 160" 342.6, dT = +152sec
 405 is a close double. Observations are highly desired
 405 = NSV 909, 4.27, , Type RS:
 17 Dec 29 3 42 57 r 405SF1 4.3 4.1s 78+ 125 66 168 -83N 256 266 274
 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" 341.0, dT = -0.02sec : Aa,Ac 2.3 0.25" 63.0, dT = +0.6sec :

AB 4.2 13.6 160" 342.6, dT = -26sec
 405 is a close double. Observations are highly desired
 405 = NSV 909, 4.27, , Type RS:
 17 Dec 30 0 55 47 d 526 G5 6.7 6.2 87+ 137 -2 33 95 36N 16 75 29
 17 Dec 30 23 51 58 R 692SK5 0.9* 0.1v 93+ 150 9 10 77 -84s 246 304 254
 R692 = Aldebaran = alpha Tauri
 692 is multiple: AE 0.9 12.0 31" 331.0, dT = -4sec : AB 0.9 13.6 32" 113.3, dT = +34sec : AC 0.9 11.3 131" 31.8, dT = +172sec : AF 0.9 13.6 309"

121.7, dT = +278sec
 692 = alf Tau, 0.86 to 0.89, v, Type LB: