Occultation prediction for Nederland midden
E. Longitude 5 0 0.0, Latitude 52 0 0.0, Alt. 0m;

y	m	day d	Time h	m	s	P	Star No	Sp D	Mag v	Mag r	V % ill	Elon	Sun Alt	Moon Alt	Moon Az	CA o	PA o	VA o	AA o	Libration L	Libration B	A m/o	B m/o	RV "/s	Cct o	durn sec	R.A. (J2000) h	m	s	Dec o	m	s	Mdist Mm	SV m/s
23	May	17	6	58	35.5	r	247	cF2	6.3	6.1	6-	29	28	36	127	60S	217	247	236	+4.6	+1.6	+0.5	+2.0	.451	-160.9		1	40	34.9	8	45	39	375.0	868.0
		247 is double: ** 7.1 7.1 0.10" 111.0, dT = +0.06sec																																
		247 has been reported as non-instantaneous (OCc1030). Observations are highly desired																																
23	May	21	18	56	57.5	d	844	SB9	5.8	S	5+	25	4	25	283	77N	67	24	68	+3.2	-4.7	+0.4	-1.0	.458	25.2		5	37	8.8	26	55	28	392.5	962.5
		844 is triple: AB 6.54 6.55 1.18" 318.1, dT = -0.8sec : AC 6.5 10.5 182" 298.6, dT = -247sec																																
		844 is a close double. Observations are highly desired																																
		844 = NSV 2426, 3.5 to 5.78, B																																
23	May	21	19	49	37.6	r	844	SB9	5.8	S	5+	25	-3	17	292	-53N	297	257	298	+3.1	-4.7	-0.4	-1.8	.487	154.8		5	37	8.8	26	55	28	393.4	1028.3
		844 is triple: AB 6.54 6.55 1.18" 318.1, dT = -2.3sec : AC 6.5 10.5 182" 298.6, dT = -373sec																																
		844 is a close double. Observations are highly desired																																
		844 = NSV 2426, 3.5 to 5.78, B																																
23	May	21	19	50	58.3	D	849	cG9	6.5	5.9	5+	25	-3	17	292	32S	139	99	140	+3.1	-4.7	-0.7	-2.4	.368	-46.9		5	38	57.4	26	37	5	393.5	1027.9
		849 is double: ** 7.3 7.3 0.10" 90.0, dT = +0.18sec																																
		849 has been reported as non-instantaneous (OCc 210). Observations are highly desired																																
23	May	21	20	53	4.5	D	77398	cB9	8.0	8.0	5+	26	-10	8	303	37S	134	99	135	+3.2	-4.7	-0.8	-1.9	.425	-42.3		5	41	36.8	26	36	56	394.5	1099.9
		77398 is double: ** 8.8 8.8 0.10" 90.0, dT = +0.17sec																																
		77398 has been reported as non-instantaneous (OCc 211). Observations are highly desired																																
23	May	21	21	0	36	M	77389	A0	8.1	8.1	5+	26	-10	8	305	11N	2	327	3	+3.2	-4.7	+9.9	+9.9	.000	90.0		5	41	9.2	27	2	44	394.6	1109.0
23	May	21	21	1	28	Gr	77389	A0	8.1	8.1	5+	26	-11	6	** GRAZE: CA 10.7N; Dist. 58km in az. 226deg. [Lat = 51.25-0.65(E.Long-5.00)]																					
23	May	21	21	43	13.3	d	77472	F0	8.7	8.3	5+	26		3	312	79S	92	61	93	+3.2	-4.7	-0.6	-1.1	.601	-1.2		5	44	7.9	26	46	8	395.3	1152.5
23	May	22	20	24	11.9	D	1013	cG0	7.0		10+	37	-6	20	289	82N	80	39	75	+2.4	-5.5	+0.1	-1.3	.494	19.2		6	36	26.3	27	16	42	396.7	1007.4
		1013 is double: AB 7.14 8.97 0.71" 273.8, dT = -1.4sec																																
		1013 is a close double. Observations are highly desired																																
23	May	22	21	34	49.5	D	78576	A0	8.3	8.3s	10+	37		10	301	20S	159	123	155	+2.4	-5.4	-1.1	-2.4	.274	-61.0		6	38	35.5	26	54	20	397.9	1089.7
		78576 = NSV 16939, 8.31 to 8.46, V, Type EA																																
23	May	22	22	30	48.2	D	1028	G8	7.5	7.1	11+	38		4	311	88N	87	56	82	+2.4	-5.4	-0.5	-1.1	.584	10.2		6	41	42.7	27	4	54	398.7	1147.2
23	May	23	21	24	8.1	D	79495	dA2	8.3	8.3	17+	49	-12	18	289	86S	99	58	90	+1.5	-5.9	-0.1	-1.6	.523	6.0		7	33	12.7	26	6	50	399.8	1019.9
		79495 is double: AB 8.4 14.0 4.5" 70.4, dT = +7sec																																
		79495 is a close double. Observations are highly desired																																
23	May	24	19	17	5.7	d	1251	B9	5.9	5.9	24+	59		2	42	254	20S	171	130	158	+0.6	-6.2	-0.6	-3.7	.222	-58.6		8	20	32.1	24	1	20	399.2	825.9
		R1251 = lambda Cancri																																
23	May	24	19	52	42.4	r	1251	B9	5.9	5.9	24+	59	-2	37	262	-43S	233	191	220	+0.5	-6.1	+1.6	-0.5	.232	-121.4		8	20	32.1	24	1	20	399.7	863.7
		R1251 = lambda Cancri																																

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      day  Time      P   Star  Sp  Mag  Mag     % Elon Sun  Moon   CA   PA  VA  AA Libration    A    B   RV    Cct durn  R.A. (J2000)   Dec    Mdist   SV
 y   m  d  h  m   s        No  D    v    r V  ill     Alt Alt Az   o    o   o   o   L    B   m/o m/o  "/s     o  sec  h  m   s    o  m  s    Mm   m/s

23 May 24 21  9  9.8 D   80165 F2  7.5  7.3   25+  60 -10 26 276  81N  92  50  78 +0.4 -6.0 +0.3-1.6 .459   19.5      8 24 55.2  23 56 43 400.9 947.4
23 May 24 22 11 55.0 D   80192kG5  8.5  8.0   25+  60      16 287  88N 100  60  86 +0.4 -6.0 -0.1-1.6 .514   10.4      8 27  4.2  23 43 39 401.91018.9
23 May 25 20 13 30.5 d   80693 G0  8.4  8.1   33+  70  -5 39 253  62S 133  94 116 -0.7 -6.0 +0.3-2.2 .415  -16.1      9 12 42.5  20 40 24 400.5 839.0
23 May 25 22 33 57   m   80735 K0  8.7  8.1   34+  71      18 281   8N  24 344   7 -0.9 -5.8 +9.9+9.9 .000   90.0      9 16 39.7  20 37 24 402.6 991.2
23 May 26 22  3  9.6 d   98916 G   9.0  8.7   43+  82      25 264  38S 161 122 142 -2.0 -5.4 -0.2-2.4 .345  -42.2     10  2 30.9  16  3  9 401.3 906.9
23 May 26 23 35 24.5 D    1479 F2  6.4  6.2   44+  83      11 281  64S 136  97 116 -2.1 -5.3 -0.3-1.9 .487  -19.1     10  5 40.9  15 45 27 402.71005.9
23 May 29 22 55 22   m   1766kK0  7.9  7.3   72+ 116      23 238  10N  34   2  12 -5.3 -2.5 +9.9+9.9 .000   90.0     12 16 58.4   0 21  8 392.8 837.2
23 May 30  1  4 20.8 D   1772cA2  3.9  3.9s  72+ 117       4 264  32S 172 134 150 -5.5 -2.3 +0.1-2.3 .297  -53.6     12 19 54.3 - 0 40  1 394.5 959.4
   R1772 = Zaniah = eta Virginis
      1772 is double: AB 3.9 5.9 0.14"   2.6, dT = -0.47sec
      1772 is a close double. Observations are highly desired
      1772 = NSV 5555, 3.86 to 3.93, V
23 May 31 20 41 42.3 d  158151SF8  7.7  7.4   87+ 139  -7 27 178  83N 103 105  84 -5.8 +0.2 +1.6-0.2 .385   22.4     13 45 52.3 -11 13 16 382.8 773.0
    158151 is triple: **AB 8.5 8.5 0.10"       : AC 7.3 17.2 243" 213.0, dT = -215sec
    158151 has been reported as non-instantaneous (OCc 458). Observations are highly desired
23 Jun  2 21 49 23.3 d   2216pB9  7.2  7.2   98+ 164      16 170  86N  90  97  78 -5.4 +3.5 +1.6+0.3 .395   25.9     15 32 10.3 -21 58  1 373.3 796.2
      2216 is double: AB 7.1 10.9 0.70"  41.0, dT = +1.2sec
      2216 is a close double. Observations are highly desired
23 Jun 12  1 40 51.3 r     61cG6  7.8  7.3   36-  74 -10  8 100  77S 232 270 254 +5.3 +3.8 +0.2+1.9 .537 -172.0      0 29 51.0 - 0 19 15 375.1 986.6
       61 is double: ** 8.5 8.5 0.050"
       61 has been reported as non-instantaneous (OCc1141). Observations are highly desired
23 Jun 13  2 23 34.1 r  109810 M4  7.8  7.0v  25-  61  -7 12  95  67S 224 262 244 +5.6 +2.2 +0.1+1.9 .522 -164.1      1 19 44.7   6  9 43 378.2 996.6
    109810 = CV Psc, 7.76 to 7.9, Hp, Type SRB, Period 22.525075 days, Phase  79%
23 Jun 13  8  2 50.7 r     214WK1  6.2  5.6s  24-  58  40 46 187  44N 294 289 314 +5.1 +1.6 +2.6-1.6 .219  120.6      1 28 22.9   7 57 41 375.7 784.9
      214 is double: AB 6.3 8.0 69" 100.1, dT = +306sec
      214 = NSV 519, 6.19 to 6.23, V
23 Jun 15  7 34 53.5 r     457 M0  6.2  5.4s   8-  34  36 52 139  41N 305 330 319 +5.4 -1.4 +2.7-1.0 .187  115.8 .01  3  8 21.1  18 47 42 382.3 798.2
   R457 = 54 Arietis
      457 = NSV 15637, 6.25 to 6.28, V, Type SRB:
23 Jun 15 10 36 49.3 r     467 K5  6.5  5.7    8-  33  59 54 211  14S 180 160 194 +5.0 -1.8 +0.4+4.8 .173 -115.3 .01  3 13 54.9  18 58 24 382.6 753.2
23 Jun 20  7 38 12.9 d    1169 K5  5.3  4.5s   5+  25  36 21  74  70S 110 151 100 +2.6 -6.0 +0.2+1.1 .470  -17.9      7 44  6.9  25 47  3 400.3 958.8
   R1169 = 76 Geminorum
      1169 = NSV 3703, 5.28 to 5.32, V
23 Jun 20 17 45 20.5 d    1211SA1  6.3  6.3    6+  29  18 38 263  85N  89  46  77 +1.1 -6.0 +0.7-1.5 .415   21.4      8  1 43.8  25  5 22 399.5 863.1
   R1211 = 4 Cancri
      1211 is triple: AB 6.3 11.0 45"  27.3, dT = +52sec : AC 6.3 11.6 106" 295.0, dT = -229sec
23 Jun 21 20 14 25.7 d    1334kG5  7.0  6.6   12+  41  -2 21 279  45N  56  15  40 -0.2 -5.8 +0.6-1.1 .272   57.1      8 57  5.1  21 51 38 402.7 978.1
23 Jun 21 21 56 11.2 d   80574cG5  8.8  8.3   13+  41 -11  6 297  63N  75  39  59 -0.2 -5.7 -0.3-1.2 .449   35.9      9  0 47.4  21 27 13 404.31088.3
     80574 is double: ** 9.5 9.5 0.10" 140.0, dT = +0.09sec
     80574 has been reported as non-instantaneous (OCc 706). Observations are highly desired
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      day  Time      P   Star  Sp  Mag  Mag     % Elon Sun  Moon   CA   PA  VA  AA Libration    A    B    RV    Cct durn  R.A. (J2000)   Dec    Mdist    SV
 y   m  d  h  m    s       No  D    v    r V    ill     Alt Alt Az   o    o   o   o   L    B   m/o m/o  "/s     o  sec  h  m    s     o  m  s    Mm     m/s

23 Jun 22 21  2 40    m   98751 G5  8.3  7.7    19+  52  -7 17 277  10N  27 347   8 -1.5 -5.4 +9.9+9.9 .000   90.0      9 46  1.1  17 53 21 403.5 978.5
23 Jun 23 21 15 41.4 D    1545 F2  8.0  7.8    27+  63  -8 18 268  84N 104  65  84 -2.8 -4.7 +0.2-1.8 .464   15.1     10 32 16.9  12 55  9 402.7 939.6
23 Jun 23 21 34 41.0 d   99175kF5  8.8  8.6    27+  63 -10 15 272  65S 135  96 114 -2.8 -4.7 -0.1-2.0 .471  -16.3     10 32 33.7  12 43 50 403.1 959.7
23 Jun 23 22 46 45.5 d   99185pA3  7.9  7.7    28+  64       4 285  23S 177 140 157 -2.8 -4.6 -0.5-2.2 .257  -60.9     10 34  7.3  12 22 28 404.21037.0
     99185 is double: AB 7.7      0.20" 180.0, dT = +0.8sec
     99185 is a close double. Observations are highly desired
23 Jun 24 19 55 44.6 D    1625SK3  5.8  5.2    36+  73   0 31 239  87N 109  77  87 -3.8 -4.0 +0.9-1.8 .407   15.4     11 14  1.8   8  3 39 399.7 819.0
     1625 is triple: **Aa,Ab 6.7 6.7 0.10"  90.0, dT = +0.23sec : AB 5.8 11.8 23.8" 259.9, dT = -51sec
     1625 has been reported as non-instantaneous (OCc 137). Observations are highly desired
23 Jun 24 21  1 56.4 r    1625SK3  5.8  5.2    36+  74  -7 22 254 -65N 318 281 296 -4.0 -3.9 +0.3-2.1 .437  164.6     11 14  1.8   8  3 39 400.5 879.9
     1625 is triple: **Aa,Ab 6.7 6.7 0.10"  90.0, dT = +0.15sec : AB 5.8 11.8 23.8" 259.9, dT = -29sec
     1625 has been reported as non-instantaneous (OCc 137). Observations are highly desired
23 Jun 25 22  8 59.6 D    1732cK0  6.8  6.1v   46+  85     13 256  17S 187 150 165 -5.2 -2.7 -0.2-2.7 .192  -65.6     11 59 23.9   1 49 36 398.2 899.4
     1732 is double: ** 7.6 7.6 0.10" 129.0, dT = +0.28sec
     1732 has been reported as non-instantaneous (OCc 708). Observations are highly desired
     1732 = HIP 58466, 6.82, range 0.00, 6V, Type VAR, Period 0.08566 days
23 Jun 26 22 59 54.2 d    1830WA3  7.3  7.1    56+  97      7 254  72N  95  58  74 -6.3 -1.3 +0.4-1.8 .432   24.0     12 45 17.4 - 3 53 17 394.5 906.2
     1830 is double: AB 7.3 8.1 16.0" 348.0, dT = -11sec
23 Jun 30 21 46 36.6 D    2299kK2  6.2  5.5    91+ 145 -11 13 188  16S 169 164 160 -6.4 +4.5 +0.7-1.2 .217  -59.8     16  3 54.7 -24 43 35 371.4 778.0
   Distance of 2299 to Terminator = 17.7"; to 3km sunlit peak = 5.7"
23 Jul  3  0  0 58.9 d    2645 A5  6.2  6.1    99+ 171      9 190  88N  48  41  50 -4.0 +6.8 +1.3+0.0 .346   40.8     18 17 24.1 -28 39  7 362.3 802.8
   Distance of 2645 to Terminator = 10.9"; to 3km sunlit peak = 2.6"
23 Jul  4  0 43 52.5 r    2831kB2  6.0  6.1s   99- 171     10 186  74S 284 280 293 -2.3 +7.4 +1.5-0.3 .422  155.2     19 24 30.2 -27 51 57 359.7 811.7
     2831 = NSV 24772, 5.98 to 6.03, V, Type SXARI, Period 0.5214404 days
   Distance of 2831 to Terminator = 11.8"; to 3km sunlit peak = 3.1"
23 Jul  5  1 36 21.6 r  189406 K4  7.3  6.5v   96- 157 -11 13 183  79N 280 278 295 -0.3 +7.5 +1.6-0.2 .405  149.2     20 32 18.9 -24 52 14 358.7 821.1
    189406 = HIP 101336, 7.33, range 0.00, 9V, Type VAR, Period 3.93345 days
23 Jul  5  1 52 51.9 R    2998 A0  6.4  6.4    96- 157 -10 13 187  76S 256 251 270 -0.3 +7.5 +1.3-0.1 .472  173.5     20 32 52.4 -24 56 38 358.7 825.9
23 Jul  6  1 29 24   M    3158 F5  5.7  5.5    90- 144 -12 17 167  15N 334 342 352 +1.7 +7.2 +9.9+9.9 .000   90.0     21 34 51.1 -20  5  3 359.3 822.0
   R3158 = 37 Capricorni
   Distance of 3158 to Terminator = 16.0"; to 3km sunlit peak = 4.5"
23 Jul  6  1 50 55.3 R    3160 F7  6.7  6.5    90- 143 -10 18 173  70N 278 283 297 +1.6 +7.1 +1.7+0.2 .386  145.0     21 34 55.0 -20 15 10 359.3 821.6
   R3160 = 38 Capricorni
23 Jul  8  0 22 53.7 r    3446pK0  7.2  6.5    72- 117     14 124  58N 281 312 303 +5.0 +5.3 +0.9+1.4 .389  139.6     23 23 45.3 - 8 27 36 365.6 905.6
     3446 is triple: **Aa 7.9 7.9 0.050"  34.0, dT = +0.05sec : AB 7.2 7.7 6.9" 143.8, dT = +13sec
     3446 has been reported as non-instantaneous (OCc1091). Observations are highly desired
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      day  Time      P   Star  Sp  Mag  Mag     % Elon Sun  Moon   CA   PA  VA  AA Libration    A    B   RV     Cct durn  R.A. (J2000)   Dec    Mdist   SV
 y   m  d  h  m    s       No  D    v    r V  ill     Alt Alt Az    o    o   o   o   L    B   m/o m/o  "/s      o  sec  h  m    s    o  m  s    Mm   m/s

23 Jul  8  0 23   7.2 r X185486p    7.6  7.2   72- 117     14 124  59N 280 311 302 +5.0 +5.3 +0.9+1.4 .392  140.1     23 23 45.5 - 8 27 42 365.6 905.4
   X185486 is double: BA 7.7 7.2 6.9" 323.8, dT = -13sec
   X185486 is a close double. Observations are highly desired
23 Jul  9  0  3 23.9 r  128654cK0  7.2  6.5   62- 104     10 106  60S 218 254 240 +6.1 +4.0 +0.3+1.9 .499 -157.8      0 14 24.5 - 2 11 53 370.3 968.9
    128654 is double: ** 8.2 8.2 0.050" 143.0, dT = -0.03sec
    128654 has been reported as non-instantaneous (OCc 593). Observations are highly desired
23 Jul  9  1 29 13.6 R      36 G5  7.1  6.6   61- 103     22 124  11S 169 200 191 +6.0 +3.9 -0.3+2.6 .185 -111.8      0 17 48.4 - 1 51 46 369.3 892.9
23 Jul  9  1 30  8.1 r  128673 F8  8.5  8.4   61- 103     22 124  52N 285 316 307 +6.0 +3.9 +1.2+1.3 .332  131.8      0 16 35.1 - 1 31 24 369.2 891.8
23 Jul  9  1 45 19.2 r  128677cG5  8.4  8.0   61- 103 -11 24 127  84S 242 271 264 +6.0 +3.9 +0.8+1.7 .490  174.8      0 17  5.6 - 1 39 11 369.1 880.2
    128677 is double: ** 9.1 9.1 0.10"  84.0, dT = +0.19sec
    128677 has been reported as non-instantaneous (OCc 594). Observations are highly desired
23 Jul 10  1 27 15.1 R     155PF4  6.4  6.2   50-  90     21 109  63N 274 310 295 +6.7 +2.4 +0.7+1.6 .412  143.2      1  5 49.2   4 54 30 374.1 934.4
   R155 = 77 Piscium
       155 is multiple: AB 6.4 7.3 33"  84.0, dT = +79sec : AD 6.4 14.6 43" 323.8, dT = -68sec : AE 6.4 14.4 91" 352.0, dT = -48sec : AC 6.4 13.1 158
23 Jul 10  1 28 33.3 R  109667MF6  7.3  7.0   50-  90     21 110  64N 273 309 294 +6.7 +2.4 +0.7+1.6 .417  144.2      1  5 51.4   4 54 34 374.1 933.1
    109667 is quadruple: Ba,Bb 7.3 12.0 0.30"  41.0, dT = +0.44sec :  7.3 9.0 1.1" 247.6, dT = -2.4sec : BA 7.3 6.4 33" 264.0, dT = -78sec
    109667 is a close double. Observations are highly desired
23 Jul 10  2 14 42.1 r  109685 K2  8.7  8.1   50-  90  -9 27 120  89N 248 281 269 +6.7 +2.3 +0.7+1.7 .482  167.9      1  7 14.0   5  0 20 373.6 892.3
23 Jul 10  2 14 48.4 r  109689kF5  8.7  8.5   50-  90  -9 27 120  72S 229 262 250 +6.7 +2.3 +0.6+1.9 .489 -173.2      1  7 25.1   4 55 54 373.6 892.2
23 Jul 10  2 26 43.0 r  109690kF5  8.8  8.5   50-  90  -8 29 122  61N 277 309 298 +6.7 +2.3 +1.2+1.4 .367  138.9      1  7 29.4   5 11 29 373.5 882.8
23 Jul 11  0 49 58.2 R    92688 F5  6.8  6.5   39-  78     13  89  70S 229 268 248 +7.0 +0.9 +0.0+1.9 .541 -168.1      1 53 57.7  10 36 50 379.61018.5
23 Jul 12  0 58 36.0 r X 63209C    8.6  8.3   29-  65     11  78  81S 244 283 260 +7.0 -0.7 -0.2+1.7 .567  179.7      2 43 49.1  16  6 14 384.41057.5
   X 63209 is double: AB 8.76 10.95 0.90" 339.0, dT = +0.14sec
   X 63209 is a close double. Observations are highly desired
23 Jul 12  0 58 36.0 r   93076CG5  8.7        29-  65     11  78  81S 244 283 260 +7.0 -0.7 -0.2+1.7 .567  179.7      2 43 49.1  16  6 14 384.41057.5
     93076 is double: BA 10.9 8.8 0.9" 159.0, dT = -0.14sec
     93076 is a close double. Observations are highly desired
23 Jul 12  8 29 31.9 r     433cF6  5.6  5.3S  27-  62  42 53 209  51N 293 274 308 +6.3 -1.5 +2.0-2.1 .261  129.9      2 56 26.2  18  1 24 381.9 752.3
   R433 = rho Arietis
       433 is double: ** 4.5 8.1 0.24" 238.0, dT = -0.5sec
       433 has been reported as non-instantaneous (OCc 901). Observations are highly desired
       433 = NSV 15612, 5.63, , Type BY:
23 Jul 13  0 29 59.7 r   76000kK5  8.1  7.2   20-  54      4  61  36S 204 239 216 +6.7 -2.0 -0.6+1.7 .421 -134.6      3 34 25.3  20 22 27 389.41133.6
23 Jul 13  2 43  3.2 R     525 A*  6.5  6.4   20-  53  -7 23  85  59S 227 268 238 +6.7 -2.2 -0.1+2.0 .496 -160.8      3 39  0.1  20 54 57 387.7 988.4
   R525 = 14 Hl. Tauri
```

```
      day  Time      P   Star  Sp  Mag  Mag     % Elon Sun  Moon   CA   PA  VA  AA Libration    A    B   RV    Cct durn  R.A. (J2000)   Dec    Mdist   SV
 y   m d  h m   s        No  D    v    r V  ill     Alt Alt Az   o    o   o   o   L    B   m/o m/o  "/s     o  sec  h  m   s    o  m  s   Mm   m/s

23 Jul 13  3 25 43.9 r   76070dA5  7.2  7.0   19-  52  -2 30  93  40N 309 350 320 +6.7 -2.3 +1.4+0.6 .221  116.2      3 40 21.6  21 24 21 387.2 941.4
     76070 is double: AB 7.2 14.7 3.7" 294.3, dT = -16sec
     76070 is a close double. Observations are highly desired
23 Jul 13  9 17 48.0 r     566 B8  6.1  6.1s  18-  50  49 57 211  88S 258 237 268 +5.9 -2.9 +1.5-0.1 .388  172.1      3 49 55.1  22 14 39 386.0 733.6
      566 = NSV 15801, 5.74, range 0.01, U, Type ACV, Period 3.2509 days, Phase  73%
23 Jul 13 12 55 49.5 r     582kF2  5.6  5.4   17-  49  57 29 270  39S 209 167 219 +5.4 -3.0 +1.0+0.7 .302 -130.1      3 56 52.1  22 28 41 388.8 885.2
   R582 = 32 Tauri
23 Jul 14  1 12  2.1 R   76621 K7  8.5  7.5   13-  42      6  58  89S 263 298 271 +6.2 -3.3 -0.4+1.3 .585  169.8      4 28 20.2  24  7  4 393.2 1133.1
23 Jul 14  3 10 57.5 r   76651kF0  7.8  7.6   12-  41  -4 22  79  38S 213 255 220 +6.2 -3.5 -0.4+2.2 .415 -142.0      4 33 28.9  24 16 46 391.7 1001.3
23 Jul 15  7 51 10.9 R     844SB9  5.8    S    6-  27  36 57 128  66S 251 284 252 +5.1 -4.9 +1.2+1.6 .390 -172.5      5 37  8.8  26 55 28 392.8 749.8
      844 is triple: AB 6.54 6.55 1.18" 318.1, dT = -1.2sec : AC 6.5 10.5 182" 298.5, dT = -315sec
      844 is a close double. Observations are highly desired
      844 = NSV 2426, 3.5 to 5.78, B
23 Jul 15  7 51 11.9 r X 75950     6.6  6.6S   6-  27  36 57 128  66S 251 284 252 +5.1 -4.9 +1.2+1.6 .390 -172.4      5 37  8.9  26 55 27 392.8 749.8
   X 75950 = NSV 2426, 3.5 to 5.78, B
23 Jul 20 12 29  6.5 d    1479 F2  6.4  6.2    7+  31  58 50 147  33S 160 181 141 -0.7 -5.3 +0.9-2.2 .277  -41.2     10  5 40.9  15 45 27 401.4 716.5
23 Jul 23 14 57 40.5 D    1772cA2  3.9  3.9s  28+  64  41 36 162  59S 143 155 121 -4.7 -2.1 +0.9-1.0 .372  -15.3     12 19 54.3 - 0 40  1 397.4 743.2
   R1772 = Zaniah = eta Virginis
      1772 is double: AB 3.9 5.9 0.14"   5.0, dT = -0.28sec
      1772 is a close double. Observations are highly desired
      1772 = NSV 5555, 3.86 to 3.93, V
23 Jul 23 16 13 31.1 R    1772cA2  3.9  3.9s  29+  65  30 37 185 -89N 293 290 271 -4.9 -2.0 +1.5-0.8 .369 -164.9     12 19 54.3 - 0 40  1 397.1 735.7
   R1772 = Zaniah = eta Virginis
      1772 is double: AB 3.9 5.9 0.14"   5.0, dT = -0.12sec
      1772 is a close double. Observations are highly desired
      1772 = NSV 5555, 3.86 to 3.93, V
23 Jul 24 20 13 53.2 d    1890 K0  7.3  6.8   39+  77  -5 15 235  34S 169 138 148 -6.5 -0.3 +0.5-2.2 .287  -47.9     13  9 46.3 - 7 39 19 394.7 820.1
23 Jul 27 20 35 24.7 D    2227SK0  5.8  5.2   70+ 113  -8 12 203  22S 170 155 158 -7.7 +4.1 +0.9-1.6 .210  -59.9     15 37 48.0 -23  8 30 378.2 768.6
      2227 is triple: **     5.5 0.010" 102.0, dT = +0.02sec : ** 3.4 8.9 0.010" 102.0, dT = +0.02sec
23 Jul 27 20 42 26.7 d  183654 K4  7.2  6.3   70+ 113  -8 12 204  67S 125 109 113 -7.7 +4.1 +1.3-1.1 .407  -14.7     15 38 44.6 -23  2 58 378.2 770.8
23 Jul 27 21  8 33.1 D    2235kB9  6.3  6.3   70+ 113 -11 10 210  56S 136 116 124 -7.8 +4.1 +1.2-1.4 .380  -27.0     15 39 21.4 -23  9  1 378.3 782.0
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