

Occultation prediction for Nederland midden

E. Longitude 5 0 0.0, Latitude 52 0 0.0, Alt. 0m; Telescope dia 35cm; dMag 0.0

y	m	d	h	m	s	P	Star No	Sp D	Mag v	Mag r	V	% ill	Elon Alt	Sun Alt	Moon Az	CA	PA	VA	AA	Libration L	A B	RV	Cct o	durn sec	R.A. (J2000) h m s	Dec o m s	Mdist Mm	SV m/s						
21	May	1	3	34	54.7	r	2673SA3		6.3			78-	124	-6	11	181	31S	210	210	215	+5.6	+3.9	+1.6+0.8	.207	-118.2	18	28	6.2	-26	45	26	366.6	778.4	
2673 is triple: AB 6.4 9.3 0.36" 184.8, dT = -1.6sec : AC 6.3 8.7 54" 134.8, dT = -65sec																																		
2673 is a close double. Observations are highly desired																																		
21	May	1	3	38	28.5	r	2669CA7		6.4			78-	124	-5	12	182	67S	246	245	250	+5.6	+3.9	+1.5+0.2	.393	-153.8	18	27	43.7	-26	38	6	366.6	778.5	
2669 is double: AB 6.59 8.48 0.76" 231.6, dT = -1.9sec																																		
2669 is a close double. Observations are highly desired																																		
21	May	4	3	39	23.0	r	3141 K3		5.8	5.0		46-	86	-4	9	143	59S	220	244	239	+7.3	+7.2	+1.2+1.7	.352	-146.4	21	27	14.8	-21	11	46	383.9	785.9	
R3141 = 35 Capricorni																																		
21	May	7	8	44	32.6	d	3536cM3		4.4	3.5v		17-	49	41	32	181	-83S	69	68	92	+5.2	+7.2	+1.5+0.5	.372	-13.3	.02	0	1	57.6	-6	0	51	395.9	733.7
R3536 = 30 Piscium (YY)																																		
3536 is double: ** 5.2 5.2 0.050" 140.0, dT = +0.04sec																																		
3536 has been reported as non-instantaneous (OCcl092). Observations are highly desired																																		
3536 = YY Psc, 4.31 to 4.41, V, Type SR																																		
21	May	7	10	0	34.3	R	3536cM3		4.4	3.5v		17-	49	50	30	203	70S	222	208	245	+5.0	+7.1	+0.9+0.6	.381	-166.4	.02	0	1	57.6	-6	0	51	396.3	753.2
R3536 = 30 Piscium (YY)																																		
3536 is double: ** 5.2 5.2 0.050" 140.0, dT = -0.02sec																																		
3536 has been reported as non-instantaneous (OCcl092). Observations are highly desired																																		
3536 = YY Psc, 4.31 to 4.41, V, Type SR																																		
21	May	14	14	40	53.4	D	839 B2		5.4	5.4s		7+	30	41	60	206	57S	119	102	120	-4.0	-1.2	+1.7-2.0	.287	-37.0		5	35	27.1	24	2	23	398.5	694.6
R839 = 121 Tauri																																		
839 = NSV 16369, 5.38, range 0.06, V																																		
21	May	14	20	6	4.7	d	77502c*5		8.3		V	8+	33	-6	17	288	51N	48	8	48	-4.7	-1.2	+0.4-0.6	.372	42.4		5	45	13.7	24	25	12	401.7	982.5
77502 is double: AB 8.92 9.20 0.20" 292.0, dT = -0.24sec																																		
77502 is a close double. Observations are highly desired																																		
77502 = TU Tau, 7.7 to 8.8, V, Type SRB, Period 200.2 days, Phase 90%																																		
21	May	14	20	17	59.0	d	77524cA3		8.0			8+	33	-7	16	290	80S	97	57	97	-4.7	-1.2	-0.2-1.6	.508	-6.3		5	45	56.6	24	13	30	401.8	996.7
77524 is double: AB 8.46 9.13 0.10" 207.3, dT = -0.07sec																																		
77524 is a close double. Observations are highly desired																																		
21	May	14	21	44	29.0	D	77597 K0		7.6	7.0		8+	33		4	305	81S	97	63	96	-4.7	-1.2	-0.5-1.3	.558	-6.4		5	49	20.4	24	13	22	403.01097.3	
21	May	14	21	52	16	m	77581 A0		8.4	8.3		8+	33		3	307	2N	0	327	360	-4.7	-1.2	+9.9+9.9	.000	90.0		5	48	35.1	24	32	37	403.01106.6	
21	May	15	20	28	58.3	d	78590 K8		8.4	7.5		14+	44	-8	22	283	77N	79	38	74	-5.9	-2.5	+0.2-1.3	.477	17.2		6	39	25.7	25	4	19	398.7	964.9
21	May	15	20	51	26.1	D	78606 K2		8.7	8.1		14+	44	-11	19	287	48N	50	10	45	-5.9	-2.5	+0.4-0.7	.356	46.0		6	40	1.5	25	9	49	399.0	992.4
21	May	15	22	39	19.3	D	1030WA3		3.1	2.3s		15+	45		4	306	22N	25	351	19	-5.9	-2.5	+0.5+0.4	.189	70.8	.04	6	43	55.9	25	7	52	400.31116.7	
R1030 = Mebsuta = epsilon Geminorum																																		
1030 is double: AB 3.1 9.6 110" 94.1, dT = +205sec																																		
1030 = NSV 3183, 2.97 to 3.09, V																																		
21	May	16	14	50	35.0	D	1117cG8		5.0	4.6		20+	53	40	62	162	67N	73	85	63	-6.0	-3.8	+1.6+1.1	.341	21.7		7	23	28.5	25	3	2	393.0	700.1
R1117 = 57 Geminorum																																		
1117 is double: ** 5.9 5.9 0.10" 90.0, dT = +0.28sec																																		
1117 has been reported as non-instantaneous (OCcl358). Observations are highly desired																																		

y	m	d	h	m	s	P	Star No	Sp D	Mag v	Mag r V	% ill	Elon Alt	Sun Alt	Moon Az	CA °	PA °	VA °	AA °	Libration L	Libration B	A m/o	B m/o	RV "/s	Cct °	durn sec	R.A. (J2000) h m s	Dec ° m s	Mdist Mm	SV m/s					
21	May	16	16	6	36.3	r	1117cG8		5.0	4.6	20+	53	29	62	200	-67N	299	286	290	-6.2	-3.8	+1.4	-1.6	.344	158.3		7	23	28.5	25	3	2	392.8	705.0
R1117 = 57 Geminorum																																		
1117 is double: ** 5.9 5.9 0.10" 90.0, dT = +0.25sec																																		
1117 has been reported as non-instantaneous (OCc1358). Observations are highly desired																																		
21	May	16	19	49	22.3	d	1140 R9		8.0	6.9V	21+	55	-3	35	266	64S	123	80	113	-6.8	-3.8	+0.2	-2.2	.430	-20.4		7	31	54.5	24	30	13	394.2	876.2
R1140 = NQ Geminorum																																		
1140 = NQ Gem, 7.4 to 8.18, V, Type ZAND+SR, Period 58.2 days, Phase 66%																																		
21	May	16	21	26	4.5	D	79523wM5		7.7	6.8s	22+	56		20	284	42S	145	104	135	-6.9	-3.7	-0.5	-2.4	.379	-42.8		7	34	59.3	24	15	56	395.4	990.2
79523 is double: AB 7.8 11.1 92" 180.0, dT = +199sec																																		
79523 = NSV 17512, 7.69 to 7.78, Hp																																		
21	May	16	22	38	15.6	D	1155 F0		6.4	6.2	22+	56		10	296	78N	85	48	75	-6.9	-3.7	-0.2	-1.3	.538	15.9		7	38	14.4	24	21	38	396.3	1074.5
21	May	16	22	59	15.3	d	79578cA0		8.8	8.8	22+	56		8	300	80N	87	52	77	-6.9	-3.7	-0.3	-1.2	.555	13.6		7	39	5.6	24	18	51	396.5	1097.9
79578 is double: ** 9.6 9.6 0.10" 92.0, dT = +0.18sec																																		
79578 has been reported as non-instantaneous (OCc 762). Observations are highly desired																																		
21	May	16	23	2	59.5	D	1157 A2		6.2	6.2	22+	56		7	301	81S	107	71	96	-6.9	-3.7	-0.5	-1.4	.570	-6.1		7	39	12.0	24	13	21	396.6	1101.9
21	May	18	22	17	2.5	d	98547 G0		8.7	8.4	41+	79		24	271	76S	121	81	103	-8.0	-5.4	+0.1	-1.9	.510	-8.9		9	24	6.9	19	28	31	385.8	965.5
21	May	18	22	48	47	M	1393 G7		6.5	6.0	41+	79		20	277	5N	22	341	3	-8.0	-5.4	+9.9	+9.9	.000	90.0		9	24	45.3	19	47	12	386.2	1002.5
21	May	18	23	46	9.9	d	98567 A3		7.5	7.4	41+	80		11	287	29S	169	130	150	-8.0	-5.4	-0.7	-2.3	.299	-58.3		9	26	34.5	19	3	36	386.9	1067.2
21	May	19	16	39	23.5	D	1484cA0		3.5	3.5s	49+	89	24	52	149	49N	70	89	49	-7.4	-6.2	+1.8	+1.8	.293	44.6		10	7	20.0	16	45	46	379.3	756.4
R1484 = eta Leonis																																		
1484 is double: AB 3.5 8.4 0.10" 240.6, dT = -0.34sec																																		
1484 is a close double. Observations are highly desired																																		
1484 = NSV 4738, 3.46 to 3.60, V																																		
21	May	19	17	33	18.2	R	1484cA0		3.5	3.5s	49+	89	16	55	170	-40N	341	347	320	-7.5	-6.1	+0.8	-2.6	.290	135.3		10	7	20.0	16	45	46	378.9	750.9
R1484 = eta Leonis																																		
1484 is double: AB 3.5 8.4 0.10" 240.6, dT = +0.06sec																																		
1484 is a close double. Observations are highly desired																																		
1484 = NSV 4738, 3.46 to 3.60, V																																		
21	May	19	22	9	11.8	d	99030 F8		8.8	8.4	51+	91		30	256	70S	131	92	110	-8.0	-5.9	+0.3	-2.0	.484	-13.8		10	16	0.0	15	23	42	379.8	918.5
21	May	20	0	52	53.9	D	1514 A1		6.2	6.2s	52+	93		5	287	60N	81	44	60	-8.0	-5.8	-0.2	-1.4	.504	31.8		10	21	50.3	14	58	33	381.7	1097.1
R1514 = 42 Leonis																																		
1514 = NSV 4828, 6.09 to 6.17, V																																		
21	May	20	22	29	53.7	D	1612 F5		7.3	7.1	62+	104		30	247	19S	185	149	162	-7.7	-6.0	-0.6	-3.0	.214	-64.6		11	7	13.3	10	12	44	373.9	904.5
21	May	20	23	19	44.2	d	99474cF8		8.4		62+	104		23	257	89S	115	77	92	-7.7	-5.9	+0.4	-1.8	.524	3.7		11	9	48.2	10	9	26	374.4	952.9
99474 is double: AB 8.59 9.87 0.59" 302.5, dT = -1.1sec																																		
99474 is a close double. Observations are highly desired																																		
21	May	21	14	16	51.7	d	1702 M0		4.0	3.3v	70+	113	46	12	95	64S	141	179	118	-6.2	-6.2	+0.3	+0.0	.487	-26.5	.01	11	45	51.6	6	31	46	371.9	982.5
R1702 = nu Virginis																																		
1702 = nu. Vir, 4.1 to 4.16, Hp, Type SRB																																		

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	
21	May	21	15	11	39.6	r	1702	M0	4.0	3.3v	70+	114	38	21	107	-64S	270	306	247	-6.2	-6.2	+0.6+1.6	.460	-153.4	.01	11	45	51.6	6	31	46	370.8	925.0	
R1702 = nu Virginis																																		
1702 = nu. Vir, 4.1 to 4.16, Hp, Type SRB																																		
21	May	21	20	50	30.7	D	1725cK0		7.6	7.1	72+	116	-9	41	204	23N	48	34	25	-6.7	-5.8	+4.0+2.5	.116	75.4		11	56	48.3	5	20	41	367.5	818.7	
1725 is double: AB 7.4 7.6 0.10" 105.1, dT = +0.47sec																																		
1725 is a close double. Observations are highly desired																																		
21	May	21	20	57	55	Gr	1725cK0		7.6	7.1	72+	116	-9	40	**	GRAZE: CA	7.7N;	Dist.	83km	in	az.	53deg.	[Lat = 53.23-0.81(E.Long-5.00)]											
21	May	21	21	56	29.6	d	119146cF5		8.4	8.2	72+	117	35	223	75N	101	76	78	-6.8	-5.7	+1.2-1.3	.443	22.0		11	58	47.6	4	49	53	367.7	851.8		
119146 is double: ** 9.4 9.4 0.10" 131.0, dT = +0.2sec																																		
119146 has been reported as non-instantaneous (OCc 665). Observations are highly desired																																		
21	May	23	20	33	10.2	d	139493KF5		8.0	7.8	90+	143	-7	30	168	57S	148	156	128	-3.7	-4.0	+0.7-0.9	.440	-24.7		13	41	48.0	-	7	33	23	358.7	842.1
*** A light curve is highly desired as 139493 is in the Kepler2 program (ID = 212728118)																																		
21	May	23	21	23	20.5	d	139508kM*		8.1	7.3v	90+	144	-12	31	182	41N	66	65	46	-3.8	-3.9	+2.3+0.8	.259	57.3		13	43	35.2	-	7	25	38	358.5	833.8
*** A light curve is desired as 139508 is in the Kepler2 program (ID = 212733214)																																		
139508 = HIP 66972, 8.10, range 0.01, 5V, Type VAR, Period 0.09078 days																																		
21	May	23	22	14	21.8	D	1969kK0		7.1	6.4	91+	144	29	196	38N	63	53	43	-3.9	-3.8	+2.3+0.3	.243	59.6		13	44	56.9	-	7	38	4	358.5	836.5	
*** A light curve is desired as 1969 is in the Kepler2 program (ID = 212725073)																																		
21	May	24	0	29	44.3	d	139567kK2		7.8	7.1	91+	145	18	229	36N	61	32	41	-4.0	-3.6	+1.3-0.9	.277	57.4		13	48	49.4	-	8	11	26	359.3	897.8	
*** A light curve is desired as 139567 is in the Kepler2 program (ID = 212702731)																																		
21	May	24	22	0	33.8	D	2092 K4		7.0	6.1	96+	158	24	177	51S	151	153	135	-1.9	-2.4	+0.8-0.9	.417	-31.1		14	40	32.2	-14	2	48	356.0	840.2		
21	May	24	22	33	52.3	d	2096 G6		8.0	7.6	97+	158	24	186	51N	73	69	57	-2.0	-2.3	+1.9+0.2	.335	46.2		14	42	2.9	-13	51	15	356.0	836.3		
21	May	25	21	23	36.5	d	2233cG8		5.5		100+	172	-11	15	155	30S	166	182	154	+0.1	-0.8	+0.2-0.8	.327	-49.9		15	38	54.6	-19	18	7	355.7	876.4	
R2233 = 41 Librae																																		
2233 is double: AB 5.57 8.80 0.42" 103.9, dT = +0.6sec																																		
2233 is a close double. Observations are highly desired																																		
Distance of 2233 to Terminator = 2.2"; to 3km sunlit peak = 0.0"																																		
21	Jun	12	17	47	52.8	d	1099wM1		5.8	5.0s	5+	25	17	35	267	83S	99	56	91	-5.4	-3.4	+0.5-1.7	.457	1.6		7	14	42.0	24	53	6	395.5	876.6	
R1099 = 52 Geminorum																																		
1099 is double: AB 6.0 12.7 31" 281.6, dT = -69sec																																		
1099 = NSV 3469, 5.79, range 0.08, V																																		
21	Jun	13	20	14	23.3	d	1239 A4		6.6	6.5	10+	38	-3	20	283	55S	133	92	119	-6.3	-4.5	-0.3-2.0	.469	-27.0		8	13	41.7	23	8	16	393.61004.9		
21	Jun	14	22	18	55.0	d	1369 G5		8.9	8.3	18+	50	7	294	69N	83	46	65	-6.8	-5.2	-0.2-1.3	.522	26.0		9	11	45.7	20	21	13	390.91100.6			
21	Jun	14	22	21	24.2	d	80684kG		8.7	8.4	18+	50	7	294	50N	64	27	46	-6.8	-5.2	-0.1-1.1	.410	45.2		9	11	45.2	20	25	39	391.01103.5			
*** A light curve is desired as 80684 is in the Kepler2 program (ID = 212010389)																																		