

Occultation prediction for Nederland midden

E. Longitude 5 0 0.0, Latitude 52 0 0.0, Alt. 0m;

Events excluded: Daytime,

y	m	d	h	m	s	P	Star No	Sp D	Mag v	Mag r	Mag V	% ill	Elon Alt	Sun Alt	Moon Az	CA o	PA o	VA o	AA o	Libration L	A B	RV "/s	Cct o	durn sec	R.A. (J2000) h m s	Dec o m s	Mdist Mm	SV m/s		
22	May	3	20	17	37	M	742pG8		5.8	5.2		8+	33	-10	15	290	-5S	176	137	181	+0.2	-2.2	+9.9+9.9	.000	-90.0		4 57 48.6	23 56 55	402.3	991.3
R742 = 99 Tauri																														
*** A light curve is desired as 742 is in the Kepler2 program {ID = 247733919}																														
742 is triple: AB 5.8 12.3 6.3" 7.1 : AC 5.8 13.2 104" 353.0																														
742 is a close double. Observations are highly desired																														
22	May	3	20	41	58.0	D	76868	B5	8.0	7.9e		8+	33		12	295	21N	13	335	17	+0.1	-2.2	+1.4+2.0	.150	73.4		4 58 52.8	24 29 45	402.6	1020.2
76868 = V1061 Tau, 7.95 to 8.45, V, Type EB/KE, Period 1.385217 days, Phase 11%																														
22	May	3	20	48	31	Gr	76868	B5	8.0	7.9e		8+	33		11	**	GRAZE: CA	4.4N;	Dist.109km	in az.	38deg.									
[Lat = 53.25-0.49(E.Long-5.00)]																														
22	May	3	21	2	14.6	D	76885kF2		7.8	7.6		8+	33		9	298	57S	115	78	119	+0.1	-2.2	-0.5-1.8	.468	-28.7		5 0 24.3	24 9 46	402.9	1043.4
*** A light curve is desired as 76885 is in the Kepler2 program {ID = 247764363}																														
22	May	3	21	58	19.6	d	76916kB9		8.6	8.5		8+	34		2	308	85S	86	54	91	+0.1	-2.2	-0.5-1.1	.565	-0.4		5 2 45.1	24 19 1	403.7	1105.8
*** A light curve is desired as 76916 is in the Kepler2 program {ID = 247786632}																														
22	May	3	21	59	45.8	d	76911pG5		8.9	8.5		8+	34		2	308	47N	39	7	44	+0.1	-2.2	-0.1-0.3	.387	46.8		5 2 24.8	24 29 34	403.8	1107.7
*** A light curve is desired as 76911 is in the Kepler2 program {ID = 247812100}																														
76911 is double: ** 9.7 9.7 0.020" 282.0, dT = -0.02sec																														
76911 has been reported as non-instantaneous (OCc1037). Observations are highly desired																														
22	May	4	20	11	54.8	D	77622	A3	7.6	7.5		14+	44	-9	25	281	66N	62	20	62	-1.1	-3.4	+0.5-0.9	.411	30.3		5 50 47.8	26 3 16	402.4	930.1
22	May	4	21	30	2.8	D	77682cB1		8.4	8.3v		14+	44		13	295	43S	134	95	133	-1.2	-3.4	-0.7-2.2	.392	-41.5		5 53 31.1	25 44 32	403.6	1024.6
77682 is double: ** 9.2 9.2 0.030" 236.0, dT = -0.02sec																														
77682 has been reported as non-instantaneous (OCc1045). Observations are highly desired																														
77682 = V1167 Tau, 8.36 to 8.62, Hp, Type BE																														
22	May	4	23	13	11.6	D	900cB1		4.8	4.9		15+	45		1	313	76N	73	44	73	-1.2	-3.4	-0.5-0.9	.551	17.9		5 57 59.7	25 57 14	405.0	1136.9
R900 = 139 Tauri																														
900 is double: ** 5.6 5.6 0.060" 221.0, dT = -0.09sec																														
900 has been reported as non-instantaneous (OCc1048). Observations are highly desired																														
22	May	5	20	59	25.1	D	78708	A0	8.8	8.8		21+	55		25	281	67S	115	73	110	-2.4	-4.4	-0.1-2.0	.460	-16.6		6 45 32.9	26 15 22	402.5	937.5
22	May	5	21	39	34.5	D	78736	K2	8.4	7.8		22+	55		19	288	89S	94	53	88	-2.5	-4.4	-0.1-1.5	.502	5.0		6 47 6.5	26 17 51	403.1	985.9
22	May	5	21	56	5.0	D	78744	A0	8.5	8.4		22+	55		17	291	51S	131	91	126	-2.5	-4.4	-0.5-2.0	.432	-32.9		6 47 27.5	26 7 46	403.3	1005.9
22	May	5	23	16	19.8	D	78792	K0	8.3	7.7		22+	56		7	305	62N	65	31	59	-2.5	-4.4	-0.3-0.9	.471	32.6		6 50 47.9	26 17 58	404.4	1096.9
22	May	5	23	45	3.2	d	78817	K7	8.6	7.8		22+	56		3	310	74N	77	45	71	-2.5	-4.4	-0.5-1.0	.538	20.4		6 52 4.4	26 13 6	404.8	1126.3
22	May	8	19	56	25.1	D	80764cK2		7.8	7.0v		48+	88	-6	51	229	84N	102	72	84	-5.6	-6.2	+1.2-1.4	.389	14.4		9 19 39.5	20 32 47	394.1	768.0
80764 is double: ** 7.8 10.7 0.042" 73.0, dT = +0.09sec																														
80764 has been reported as non-instantaneous (OCc1108). Observations are highly desired																														
80764 = HIP 45747, 7.77, range 0.01, 2V, Type VAR, Period 6.12595 days																														

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	
22	May	8	20	29	47.7	D	80772	K5	8.7	7.9	48+	88	-10	46	238	89N	107	73	89	-5.7	-6.2	+1.0	-1.7	.409	9.8	9	20	30.3	20	25	32	394.3	794.2	
22	May	8	23	7	46.3	D	1393	G7	6.5	6.0	49+	89		23	273	57S	141	100	123	-6.0	-6.0	-0.2	-2.1	.444	-26.6	9	24	45.3	19	47	12	396.0	954.7	
22	May	9	20	56	9	M	98979	G5	8.3	7.8S	58+	100		46	230	9N	31	1	10	-6.4	-6.1	+9.9	+9.9	.000	90.0	10	10	7.5	16	31	0	389.9	795.7	
98979 = NSV 18342, 8.34, , Type VAR:																																		
22	May	9	20	58	6	Gr	98979	G5	8.3	7.8S	58+	100		46	**	GRAZE: CA	9.4N;	Dist.	79km	in	az.	233deg.	[Lat = 50.82-0.80(E.Long-5.00)]											
22	May	9	21	12	6.3	D	98983wK2		8.4	8.0	58+	100		43	234	62S	140	109	119	-6.5	-6.1	+0.6	-2.2	.403	-19.3	10	10	39.7	16	2	15	390.0	807.5	
98983 is double: AB 7.0 10.4 18.6" 302.1, dT = -44sec																																		
22	May	11	20	35	53.2	d	119032	F5	8.4	8.2	78+	123	-10	43	189	40S	166	160	143	-6.8	-5.1	+0.4	-2.1	.325	-40.0	11	45	40.8	5	30	1	379.0	779.1	
22	May	11	20	58	23.9	d	119045dK0		8.9	8.4	78+	124		42	197	86S	120	110	97	-6.8	-5.1	+1.2	-1.2	.425	5.9	11	46	51.4	5	31	51	379.0	784.5	
119045 is double: AB 9.0 13.3 5.1" 66.1, dT = +7sec																																		
119045 is a close double. Observations are highly desired																																		
22	May	11	21	20	45.2	d	119051cK0		8.8	8.2	78+	124		41	204	72S	134	119	111	-6.9	-5.1	+1.0	-1.5	.426	-8.2	11	47	13.3	5	23	12	379.0	791.9	
119051 is double: ** 9.5 9.5 0.10" 90.0, dT = +0.17sec																																		
119051 has been reported as non-instantaneous (OCc 102). Observations are highly desired																																		
22	May	11	22	30	4.7	D	1709	K0	6.6	6.0	78+	124		35	224	85N	111	85	88	-7.0	-5.0	+1.1	-1.5	.437	13.8	11	49	7.1	5	11	0	379.2	826.9	
22	May	13	0	59	55.9	D	1821SF0		2.8	s	87+	138		17	245	53N	79	45	57	-6.8	-3.7	+0.8	-1.5	.377	41.5	12	41	39.6	-	1	26	58	374.5	914.6
R1821 = Porrima = gamma Virginis																																		
1821 is multiple: AB 3.48 3.53 3.20" 354.6, dT = +0.8sec : AC 3.5 15.1 99" 116.1, dT = +210sec : AD 3.5 12.1 182" 91.1, dT = +472sec : AE 3.5 8.																																		
1821 is a close double. Observations are highly desired																																		
1821 = NSV 5859, 2.452, range 0.72, 6Ic, Type VAR																																		
22	May	13	1	0	37.1	D	X 54027SF0		3.5	3.3s	87+	138		17	245	53N	79	45	57	-6.8	-3.7	+0.8	-1.5	.374	42.1	12	41	39.8	-	1	26	58	374.5	915.2
X 54027 is multiple: BA 3.5 3.5 3.2" 174.6, dT = -0.9sec : BD 3.5 12.1 191" 98.2, dT = +482sec : BE 3.5 8.9 259" 166.4, dT = +27sec : BF 3.5 9.5 41																																		
X 54027 is a close double. Observations are highly desired																																		
X 54027 = NSV 5859, 2.452, range 0.72, 6Ic, Type VAR																																		
22	May	13	1	46	45.1	R	1821SF0		2.8	s	87+	138		10	255	-45N	341	304	319	-6.8	-3.6	+0.2	-2.1	.395	138.5	12	41	39.6	-	1	26	58	375.0	960.8
R1821 = Porrima = gamma Virginis																																		
1821 is multiple: AB 3.48 3.53 3.20" 354.6, dT = -8sec : AC 3.5 15.1 99" 116.1, dT = +178sec : AD 3.5 12.1 182" 91.1, dT = +161sec : AE 3.5 8.9																																		
1821 is a close double. Observations are highly desired																																		
1821 = NSV 5859, 2.452, range 0.72, 6Ic, Type VAR																																		
22	May	13	1	47	1.1	r	X 54027SF0		3.5	3.3s	87+	138		10	255	-45N	341	304	319	-6.8	-3.6	+0.2	-2.1	.392	137.9	12	41	39.8	-	1	26	58	375.0	961.1
X 54027 is multiple: BA 3.5 3.5 3.2" 174.6, dT = +8sec : BD 3.5 12.1 191" 98.2, dT = +222sec : BE 3.5 8.9 259" 166.4, dT = +658sec : BF 3.5 9.5 418																																		
X 54027 is a close double. Observations are highly desired																																		
X 54027 = NSV 5859, 2.452, range 0.72, 6Ic, Type VAR																																		
22	May	13	20	34	36.4	d	139327	K2	8.0	7.2	93+	149	-9	30	161	77S	129	140	108	-5.6	-2.8	+1.0	-0.3	.462	-3.1	13	24	48.3	-	6	50	25	368.5	826.4
22	May	14	0	32	2.5	d	139377kK5		8.0	7.2	94+	151		20	225	76S	129	102	108	-6.0	-2.3	+0.9	-1.6	.477	-7.6	13	30	53.9	-	7	51	48	368.6	859.8
*** A light curve is desired as 139377 is in the Kepler2 program {ID = 212716078}																																		
22	May	14	21	37	3.5	D	2053SA1		4.5	4.5s	98+	163		24	166	56S	145	154	127	-4.5	-1.1	+0.8	-0.6	.439	-21.8	14	19	6.6	-13	22	16	364.0	835.6	
R2053 = lambda Virginis																																		
2053 is quadruple: AB 4.5 13.0, dT = 0.00sec : 4.5 13.0, dT = 0.00sec : AB 4.9 6.3 0.017" 208.2, dT = +0.02sec																																		
2053 is a close double. Observations are highly desired																																		
2053 = NSV 6621, 4.52 to 4.55, V																																		

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	o	L	B	m/o	m/o	"/s	o	sec	h	m	s	o	m	s	Mm	m/s		
22	May	14	22	42	0.7	r		2053SA1	4.5	4.5s	98+	163		25	183	-80S	280	278	263	-4.6	-0.9	+1.5	-0.3	.432	-158.3		14	19	6.6	-13	22	16	363.7	819.6		
R2053 = lambda Virginis																																				
2053 is quadruple: AB 4.5 13.0, dT = 0.00sec : 4.5 13.0, dT = 0.00sec : AB 4.9 6.3 0.017" 208.2, dT = -0.01sec																																				
2053 is a close double. Observations are highly desired																																				
2053 = NSV 6621, 4.52 to 4.55, V																																				
22	May	15	0	47	43.9	d		158546	K0	7.3	6.8	98+	164		18	214	73S	127	106	110	-4.8	-0.7	+1.0	-1.4	.471	-9.2		14	24	35.9	-14	4	53	364.0	843.0	
22	May	17	0	32	11.1	r		184337	B6	7.0	7.0	99-	168		14	182	55N	325	324	317	-1.6	+2.8	+1.0	-0.6	.381	144.3		16	21	19.2	-23	42	29	359.0	816.1	
Distance of 184337 to Terminator = 14.2"; to 3km sunlit peak = 4.7"																																				
22	May	24	2	28	40.8	r		3458	K0	6.2	5.5	36-	73	-8	6	112	39N	296	331	319	+6.9	+7.0	+0.5	+1.4	.301	127.8		23	29	0.6	-	9	15	58	382.1	910.3
22	Jun	1	21	31	1.0	d		78468cA2	8.2	8.1	5+	26	-11	4	309	83S	94	61	90	-1.5	-4.1	-0.5	-1.2	.567	1.5		6	32	15.3	26	11	6	405.7	1117.0		
78468 is double: ** 8.8 8.8 0.10" 90.0, dT = +0.18sec																																				
78468 has been reported as non-instantaneous (OCc 63). Observations are highly desired																																				
22	Jun	3	22	55	59.0	D		80105	A0	7.9	7.9	17+	49		4	304	77N	87	53	73	-4.1	-5.5	-0.5	-1.2	.540	18.5		8	20	0.7	23	48	34	404.1	11116.8	
22	Jun	4	21	8	54.9	d		80626	K0	8.7	8.1	24+	59	-9	23	275	42S	152	111	135	-5.2	-5.9	-0.3	-2.3	.382	-39.1		9	5	52.8	21	3	15	400.0	953.8	
22	Jun	4	21	51	56.1	D		80648	K0	8.7	8.2	24+	59		17	283	73S	121	81	104	-5.2	-5.9	-0.2	-1.8	.510	-9.0		9	7	43.5	21	0	32	400.6	1002.4	
22	Jun	5	21	35	57.0	d		1456	F2	8.4	8.2	33+	70	-11	23	269	36N	54	14	34	-6.2	-6.0	+1.0	-1.0	.226	62.4		9	55	56.0	17	32	29	396.7	940.1	
22	Jun	7	21	13	28.5	D		1669pF5	6.7	6.5	53+	93	-9	31	238	58N	82	50	59	-7.4	-5.2	+1.2	-1.4	.338	41.5		11	29	40.0	7	35	58	386.5	844.9		
*** A light curve is desired as 1669 is in the Kepler2 program (ID = 201913061)																																				
1669 is double: AB 6.8 13.1 17.9" 282.8, dT = -49sec																																				
22	Jun	8	21	39	35.4	d		119305pA2	8.9	v	63+	105	-11	28	230	52N	76	48	54	-7.6	-4.3	+1.5	-1.2	.308	47.4		12	17	7.6	1	42	45	380.8	838.6		
*** A light curve is desired as 119305 is in the Kepler2 program (ID = 201578486)																																				
119305 is double: AB 8.94 12.46 1.91" 176.0, dT = -1sec																																				
119305 is a close double. Observations are highly desired																																				
119305 = HD 106832A, 9.0, range 0.00, 4CR, Type DSCT, Period 0.042765 days																																				
22	Jun	8	22	11	53.9	D		1767kA2	7.6	7.5	63+	105		24	238	52N	77	45	54	-7.7	-4.2	+1.2	-1.4	.324	46.1		12	17	57.5	1	34	31	381.1	863.1		
*** A light curve is desired as 1767 is in the Kepler2 program (ID = 201569326)																																				
22	Jun	8	22	57	41.7	d		119325kK0	7.6	7.1	64+	106		18	248	77S	127	92	104	-7.7	-4.2	+0.5	-1.9	.485	-5.7		12	19	1.0	1	9	57	381.6	902.6		
*** A light curve is desired as 119325 is in the Kepler2 program (ID = 201541836)																																				
22	Jun	9	22	36	11.3	d		139157kK0	8.3	7.7v	74+	118		21	230	77S	126	98	105	-7.4	-3.0	+0.8	-1.7	.468	-4.3		13	6	26.0	-	4	50	45	375.1	852.9	
*** A light curve is desired as 139157 is in the Kepler2 program (ID = 251498896)																																				
139157 = IS Vir, 8.432, range 0.05, 4V, Type RS, Period 23.50 days																																				
22	Jun	10	1	0	25.8	D		1891SA1	4.4		74+	119		1	259	31S	172	135	152	-7.6	-2.8	+0.2	-2.4	.301	-56.0		13	9	57.0	-	5	32	20	376.6	985.1	
R1891 = Apami-Atsa = theta Vir.																																				
1891 is quadruple: Aa,Ab 4.49 6.83 0.39" 358.5, dT = -1.3sec : AB 4.4 9.4 6.8" 342.1, dT = -22sec : AC 4.4 10.4 72" 300.0, dT = -145sec																																				
1891 is a close double. Observations are highly desired																																				