

## Occultations table

Observation point: VladimirNebotov  
EMail: nebotov@ukr.net  
Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')  
Maximal Distance = 250.0  
Maximal Mv = 14.00  
Minimal Duration = 0.5s  
Maximal Sun Elevation = 0.0  
Minimal drop: 0.5  
Minimal probability: 0.0  
Minimal probability in nearest point: 0.5  
Minimal star elevation: 0.0  
Program: LinOccult 2.3.0  
Author: Plekhanov Andrey andyplekhanov@gmail.com  
Events number: 221

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/ time.			Table 1		Page 1		LinOccult 2.3.0			
		Asteroid			Nearest point			Star			Sun			Moon						
Date Time (UTC)	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Dist	Alt	Phase (%)	$\sigma_{km}$
2017/06/01 17:32:17	1099 Figneria	29.4	15.86	2.63	47	2.4	35°47'27'' 49°46'04''	229	7.5	UCAC4 339-68119	13.34	14 <sup>h</sup> 27 <sup>m</sup> 40.890 <sup>s</sup> -22°15'32.861''	13.9	154	149.8	-0.7	58.8	43.3	52.2	148
2017/06/01 17:51:12	53124 AC23	5.8	17.96	4.45	135	0.6	36°28'43'' 48°50'37''	174	1.0	UCAC4 457-56114	13.52	15 <sup>h</sup> 49 <sup>m</sup> 12.538 <sup>s</sup> 1°15'49.136''	29.3	129	153.7	-3.1	71.7	41.4	52.3	144
2017/06/01 19:37:05	6782 SU10	8.3	17.29	4.78	106	0.8	37°36'31'' 50°29'37''	62	1.9	UCAC4 323-126648	12.52	17 <sup>h</sup> 57 <sup>m</sup> 39.905 <sup>s</sup> -25°31'23.860''	3.2	137	161.7	-13.7	104.9	28.0	53.1	110
2017/06/01 19:44:56	49604 FP25	5.8	18.47	4.85	147	0.5	37°24'36'' 51°09'14''	33	0.9	UCAC4 369-114693	13.63	17 <sup>h</sup> 56 <sup>m</sup> 57.990 <sup>s</sup> -16°14'09.093''	12.3	135	160.7	-14.2	104.2	26.9	53.2	132
2017/06/01 19:46:03	633 Zelima	34.4	14.30	2.46	207	3.1	35°56'13'' 48°12'16''	187	2.0	UCAC4 437-60323	11.96	15 <sup>h</sup> 34 <sup>m</sup> 35.294 <sup>s</sup> -2°47'39.635''	36.6	167	155.2	-14.3	67.7	26.7	53.2	107
2017/06/01 21:06:18	253347 FJ64	8.3	19.96	8.16	109	0.6	36°06'18'' 49°04'39''	187	0.9	UCAC4 348-122513	11.80	17 <sup>h</sup> 52 <sup>m</sup> 59.980 <sup>s</sup> -20°34'31.402''	16.1	156	162.7	-17.8	102.8	14.4	53.8	342
2017/06/01 21:18:24	3949 Mach	6.9	16.06	3.36	51	0.9	36°43'20'' 50°24'41''	38	3.0	UCAC4 340-119296	12.75	17 <sup>h</sup> 59 <sup>m</sup> 34.805 <sup>s</sup> -22°03'40.123''	15.1	158	161.4	-17.9	104.3	12.5	53.8	69
2017/06/01 23:07:21	3106 Mora-bito	16.6	17.04	3.70	164	1.5	35°38'37'' 51°27'34''	344	2.4	UCAC4 384-115795	13.38	18 <sup>h</sup> 43 <sup>m</sup> 56.048 <sup>s</sup> -13°22'51.896''	26.4	172	149.2	-14.9	113.6	-4.6	54.7	190
2017/06/02 00:52:18	59920 RO162	1999	18.28	4.73	247	1.1	32°51'24'' 49°50'56''	265	0.2	UCAC4 285-215564	13.56	20 <sup>h</sup> 09 <sup>m</sup> 27.193 <sup>s</sup> -33°05'27.410''	6.9	178	132.8	-5.4	129.0	-19.4	55.5	118
2017/06/02 01:15:21	41418 AR233	2000	18.04	4.35	250	0.5	39°33'13'' 49°18'09''	110	0.4	UCAC4 298-138361	13.71	17 <sup>h</sup> 52 <sup>m</sup> 48.294 <sup>s</sup> -30°29'04.970''	2.9	212	161.6	-2.7	100.8	-22.2	55.6	137
2017/06/02 20:20:16	65217 EY16	2002	19.77	7.35	5	0.7	36°19'39'' 50°00'27''	147	1.3	UCAC4 356-120734	12.43	17 <sup>h</sup> 55 <sup>m</sup> 26.895 <sup>s</sup> -18°59'15.386''	14.1	145	162.8	-16.2	90.9	25.0	63.5	301
2017/06/02 21:42:07	6459 Hidesan	11.0	17.27	4.91	109	1.3	36°52'25'' 50°57'12''	23	2.0	UCAC4 409-91629	12.37	18 <sup>h</sup> 49 <sup>m</sup> 04.696 <sup>s</sup> -8°23'05.348''	26.5	148	146.8	-17.8	102.9	12.8	64.0	183
2017/06/03 01:14:12	377 Campa-nia	91.0	14.21	1.03	218	2.1	35°04'21'' 51°50'55''	337	9.0	UCAC4 524-4149	13.71	2 <sup>h</sup> 22 <sup>m</sup> 49.351 <sup>s</sup> 14°40'52.080''	11.7	81	34.2	-2.7	142.0	-19.8	65.5	158
2017/06/03 18:05:58	6101 Tomoki	5.8	15.70	2.32	70	0.9	35°42'57'' 49°32'26''	216	2.0	UCAC4 376-84969	13.52	17 <sup>h</sup> 25 <sup>m</sup> 07.285 <sup>s</sup> -14°56'08.359''	5.9	122	168.3	-4.6	72.2	38.8	71.9	63
2017/06/03 19:03:35	31056 RK25	1996	17.25	3.97	100	1.4	36°37'54'' 50°55'05''	14	1.5	UCAC4 458-103942	13.30	19 <sup>h</sup> 36 <sup>m</sup> 35.728 <sup>s</sup> 1°30'41.907''	7.9	97	132.2	-10.6	104.2	35.3	72.2	88
2017/06/03 19:22:27	14739 Edgar-chavez	9.1	17.32	4.49	195	0.7	34°50'38'' 48°34'22''	212	0.9	UCAC4 359-113885	12.85	17 <sup>h</sup> 45 <sup>m</sup> 45.237 <sup>s</sup> -18°23'22.305''	10.0	135	165.7	-12.3	76.7	33.6	72.4	125
2017/06/03 19:22:28	2982 Muriel	14.5	17.14	4.80	210	3.1	38°59'17'' 49°20'03''	112	1.6	UCAC4 446-55358	12.36	12 <sup>h</sup> 43 <sup>m</sup> 30.424 <sup>s</sup> 0° - 57'38.398''	33.6	215	117.2	-12.3	0.5	33.6	72.6	168
2017/06/03 23:19:34	3839 Bo-gaevskij	7.6	16.52	3.04	230	1.1	38°57'37'' 48°55'38''	123	0.1	UCAC4 384-153292	13.55	21 <sup>h</sup> 07 <sup>m</sup> 20.956 <sup>s</sup> -13°20'25.849''	18.5	141	118.0	-13.9	123.2	1.1	73.9	82
2017/06/03 23:53:55	45714 FV58	2000	18.54	6.71	125	0.7	36°40'17'' 51°08'46''	13	1.0	UCAC4 407-100654	11.83	18 <sup>h</sup> 56 <sup>m</sup> 19.166 <sup>s</sup> -8°41'24.748''	31.4	184	146.3	-11.2	91.3	-4.3	74.1	125
2017/06/04 00:34:14	497 Iva	45.3	14.21	0.92	130	20.6	34°28'01'' 50°08'25''	275	7.1	UCAC4 313-254299	13.90	20 <sup>h</sup> 04 <sup>m</sup> 55.601 <sup>s</sup> -27°33'51.193''	12.4	177	135.4	-7.3	105.1	-10.6	74.6	90

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.		Table 1		Page 2		LinOccult 2.3.0				
		Asteroid			Nearest point			Star			Sun			Moon						
Date Time (UTC)	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Dist	Alt	Phase (%)	$\sigma_{km}$
2017/06/04 00:47:37	4678 Nimian	6.0	16.34	2.83	44	0.9	36°42'58" 49°45'56"	136	2.9	UCAC4	13.60	18 <sup>h</sup> 08 <sup>m</sup> 51.877 <sup>s</sup> -28°54'22.312"	7.2	205	160.6	-5.8	79.8	-12.7	74.5	66
2017/06/04 00:59:15	10757 SF3	5.8	16.91	3.02	236	0.6	37°51'41" 48°11'23"	151	0.0	UCAC4	13.96	17 <sup>h</sup> 45 <sup>m</sup> 29.929 <sup>s</sup> -19°25'46.518"	13.2	216	166.3	-4.4	73.7	-14.5	74.5	77
2017/06/04 19:08:35	14578 QO93	6.9	17.35	5.98	188	0.5	37°58'45" 51°21'04"	40	0.6	UCAC4	11.38	17 <sup>h</sup> 23 <sup>m</sup> 08.825 <sup>s</sup> -15°56'24.386"	13.6	137	170.0	-11.0	59.0	33.9	80.6	112
2017/06/04 19:21:55	39969 GT8	7.6	17.25	6.12	130	0.7	37°44'59" 49°21'46"	126	1.4	UCAC4	11.14	13 <sup>h</sup> 48 <sup>m</sup> 11.707 <sup>s</sup> 4°19'44.963"	43.1	198	127.9	-12.1	10.4	33.1	80.7	107
2017/06/04 19:36:05	24275 XW167	19.1	18.18	5.31	119	1.2	37°08'46" 50°57'45"	31	2.5	UCAC4	12.88	17 <sup>h</sup> 32 <sup>m</sup> 18.778 <sup>s</sup> -27°14'37.987"	5.3	146	169.5	-13.2	62.2	32.2	80.8	271
2017/06/04 21:30:19	16432 VL2	7.2	17.18	3.29	157	0.7	34°58'12" 48°55'27"	217	0.8	UNKNOWN	13.95	18 <sup>h</sup> 30 <sup>m</sup> 50.068 <sup>s</sup> -14°17'54.892"	22.0	153	155.1	-17.6	74.1	20.5	81.3	94
									3.1	UN-KNOWN										
2017/06/04 22:52:18	8149 Ruff	6.9	15.43	2.27	30	1.1	36°39'06" 49°55'06"	119	3.6	UCAC4	13.31	17 <sup>h</sup> 56 <sup>m</sup> 12.163 <sup>s</sup> -23°30'23.472"	16.5	184	165.1	-15.5	65.4	8.9	81.8	70
2017/06/04 23:48:54	14703 AX243	5.8	16.62	3.78	91	0.6	36°43'17" 49°16'37"	160	1.4	UCAC4	12.87	16 <sup>h</sup> 33 <sup>m</sup> 08.524 <sup>s</sup> -15°01'59.324"	16.6	219	171.4	-11.5	44.5	0.2	82.1	124
2017/06/05 00:25:58	5875 Kuga	10.0	15.72	2.61	94	0.9	35°29'37" 50°43'06"	323	2.5	UCAC4	13.21	16 <sup>h</sup> 57 <sup>m</sup> 07.753 <sup>s</sup> -28°25'36.637"	3.2	216	173.9	-8.0	52.5	-5.6	82.3	113
2017/06/05 00:29:10	50866 Davesprizzi	7.2	17.38	3.88	115	0.6	35°07'56" 49°20'23"	226	1.5	UCAC4	13.53	17 <sup>h</sup> 52 <sup>m</sup> 19.766 <sup>s</sup> -34°47'09.006"	1.4	204	161.9	-7.7	65.3	-6.1	82.3	109
2017/06/05 01:22:55	6259 Maillol	6.0	16.84	3.87	155	1.0	34°14'33" 50°32'18"	291	0.5	UCAC4	13.00	19 <sup>h</sup> 24 <sup>m</sup> 35.672 <sup>s</sup> -31°27'56.315"	6.8	197	145.1	-1.5	83.8	-14.6	82.6	81
2017/06/05 18:39:43	22656 Aaronburrows	5.0	17.04	4.16	150	0.9	36°58'53" 51°19'19"	19	0.5	UCAC4	12.90	14 <sup>h</sup> 57 <sup>m</sup> 58.380 <sup>s</sup> -11°12'49.363"	27.7	165	149.9	-8.1	11.7	31.7	87.5	88
2017/06/05 19:32:49	263814 RS122	8.3	20.26	7.77	68	0.6	36°23'13" 50°39'03"	6	1.0	UCAC4	12.49	18 <sup>h</sup> 23 <sup>m</sup> 10.087 <sup>s</sup> -11°11'54.069"	14.0	127	156.1	-12.8	61.4	30.9	87.7	327
2017/06/05 19:53:56	46212 FD162	5.2	18.58	5.41	246	0.7	37°41'21" 52°04'25"	24	0.3	UCAC4	13.18	19 <sup>h</sup> 25 <sup>m</sup> 21.290 <sup>s</sup> -5°20'45.870"	13.2	115	139.9	-14.3	77.1	30.0	87.8	143
2017/06/05 20:04:29	23480 EL	18.2	18.03	5.90	241	1.2	39°18'20" 51°03'21"	63	1.8	UCAC4	12.13	18 <sup>h</sup> 08 <sup>m</sup> 14.836 <sup>s</sup> -29°35'22.973"	2.8	146	162.2	-15.0	58.3	29.4	87.8	271
2017/06/05 21:47:01	43706 Iphiklos	11.0	19.80	5.87	3	0.9	36°16'06" 50°01'40"	211	1.4	UCAC4	13.93	19 <sup>h</sup> 16 <sup>m</sup> 23.795 <sup>s</sup> -6°13'10.772"	27.6	144	142.3	-17.5	73.8	20.4	88.3	309
2017/06/05 22:01:15	16441 Kirchner	6.0	17.64	4.36	42	0.5	35°43'07" 49°56'18"	253	2.0	UCAC4	13.30	16 <sup>h</sup> 19 <sup>m</sup> 13.375 <sup>s</sup> -35°20'11.768"	3.5	193	164.9	-17.2	38.2	18.7	88.4	110
2017/06/05 23:38:31	83909 UB189	6.0	19.35	7.66	228	0.7	34°07'47" 48°33'17"	223	0.6	UCAC4	11.69	19 <sup>h</sup> 57 <sup>m</sup> 22.496 <sup>s</sup> -21°05'15.003"	17.9	166	138.0	-12.3	81.1	5.5	88.7	187
2017/06/06 18:24:28	3342 Fivesparks	12.0	17.04	4.34	19	0.9	36°16'03" 50°12'60"	356	3.6	UCAC4	12.72	17 <sup>h</sup> 29 <sup>m</sup> 56.173 <sup>s</sup> -15°21'36.416"	9.0	127	169.7	-6.3	37.0	26.6	93.0	133
2017/06/06 18:43:28	1942 Jablunka	14.0	17.54	4.17	211	3.0	33°38'13" 50°55'13"	297	0.8	UCAC4	13.39	12 <sup>h</sup> 30 <sup>m</sup> 05.951 <sup>s</sup> -34°05'08.841"	3.1	201	120.8	-8.3	40.4	27.4	93.0	109

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.				Table 1		Page 3		LinOccult 2.3.0			
Date Time (UTC)	Asteroid			Nearest point			Star			Sun			Moon								
	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Phase (%)	$\sigma_{km}$			
2017/06/06 18:54:11	1224 Fantasia	13.9	15.63	3.55	229	1.7	39°18'20" 50°45'59"	70	0.4	UCAC4 355-68374	12.12	14 <sup>h</sup> 13 <sup>m</sup> 41.717 <sup>s</sup> −19°03'01.339"	21.0	182	141.3	−9.4	27.7	93.1	101		
2017/06/06 19:08:35	25911 2001 BC76	15.1	19.24	6.37	236	1.1	36°26'02" 52°09'52"	3	1.5	UCAC4 463-93184	12.88	19 <sup>h</sup> 13 <sup>m</sup> 33.828 <sup>s</sup> 2°26'35.747"	14.9	104	138.7	−10.7	28.0	93.1	280		
2017/06/06 21:36:06	25890 Louis- burg	7.6	17.91	4.56	103	0.6	35°34'27" 49°14'54"	210	1.7	UCAC4 360-158680	13.37	18 <sup>h</sup> 31 <sup>m</sup> 53.199 <sup>s</sup> −18°09'13.579"	19.2	158	158.0	−17.4	50.3	22.7	93.6	121	
2017/06/06 23:43:15	77777 2001 QW16	6.9	18.07	4.19	232	0.6	33°37'38" 51°16'37"	306	0.4	UCAC4 302-222113	13.90	18 <sup>h</sup> 20 <sup>m</sup> 10.135 <sup>s</sup> −29°36'48.122"	9.7	191	160.8	−11.9	47.5	8.3	94.0	128	
2017/06/06 23:54:45	131382 2001 KY39	5.2	18.24	4.34	113	0.6	37°48'12" 50°20'14"	73	1.1	UCAC4 476-114119	13.92	19 <sup>h</sup> 58 <sup>m</sup> 37.652 <sup>s</sup> 5°09'40.028"	44.7	167	128.2	−10.9	74.1	6.7	94.0	122	
2017/06/07 00:16:35	26355 Grue- ber	9.1	16.28	4.17	174	0.9	37°54'32" 48°53'18"	138	1.0	UCAC4 347-130993	12.13	18 <sup>h</sup> 14 <sup>m</sup> 53.766 <sup>s</sup> −20°37'16.911"	16.7	202	162.5	−8.8	44.9	3.7	94.1	114	
2017/06/07 01:25:33	10525 1990 TO	5.0	16.81	3.81	17	0.6	36°03'11" 50°03'22"	273	2.8	UCAC4 320-148666	13.03	18 <sup>h</sup> 12 <sup>m</sup> 58.617 <sup>s</sup> −26°09'58.318"	6.0	216	163.1	−1.0	44.4	−6.7	94.4	70	
2017/06/07 18:16:13	56739 2000 NG21	5.5	17.05	4.05	14	0.6	36°25'31" 50°08'17"	44	2.0	UCAC4 312-80904	13.03	15 <sup>h</sup> 42 <sup>m</sup> 53.165 <sup>s</sup> −27°45'24.041"	8.1	154	161.2	−5.3	13.2	20.4	96.9	109	
2017/06/07 18:17:02	197563 2004 FH148	9.1	19.74	6.45	21	0.6	36°12'12" 50°13'33"	343	1.1	UCAC4 498-80088	13.29	18 <sup>h</sup> 08 <sup>m</sup> 23.473 <sup>s</sup> 9°33'26.702"	23.2	103	143.9	−5.4	43.0	20.4	97.0	319	
2017/06/07 20:31:49	3965 Konopl- eva	12.6	16.53	4.87	181	1.1	37°56'40" 51°17'03"	41	1.5	UCAC4 315-215836	11.67	18 <sup>h</sup> 44 <sup>m</sup> 11.210 <sup>s</sup> −27°11'37.602"	4.9	145	156.8	−16.1	42.3	25.1	97.2	137	
2017/06/07 21:06:08	11252 Laertes	24.0	17.50	3.68	214	1.5	37°02'14" 51°54'37"	15	2.7	UCAC4 338-89182	13.86	17 <sup>h</sup> 00 <sup>m</sup> 31.322 <sup>s</sup> −22°29'43.230"	17.4	174	179.2	−17.1	18.1	24.4	97.3	239	
2017/06/07 21:24:38	2605 Sahade	10.5	17.21	5.79	189	1.4	35°32'36" 48°25'04"	196	1.0	UCAC4 404-108566	11.42	19 <sup>h</sup> 12 <sup>m</sup> 19.757 <sup>s</sup> −9°21'04.547"	23.7	143	146.4	−17.3	49.3	23.6	97.3	119	
2017/06/08 00:26:51	3609 Liloketai	11.5	18.18	4.39	137	1.0	37°47'18" 49°17'45"	128	2.0	UCAC4 322-207121	13.81	19 <sup>h</sup> 26 <sup>m</sup> 58.723 <sup>s</sup> −25°42'36.739"	14.0	187	147.5	−7.7	49.8	6.1	97.7	158	
2017/06/08 00:45:28	1482 Sebas- tiana	20.5	14.98	1.48	173	2.1	37°55'57" 48°55'06"	137	1.7	UCAC4 327-128275	13.82	18 <sup>h</sup> 15 <sup>m</sup> 39.246 <sup>s</sup> −24°42'56.297"	10.6	208	163.6	−5.7	33.5	3.6	97.8	98	
2017/06/08 19:24:57	15954 1998 BG11	6.6	18.23	5.95	129	1.4	38°04'38" 49°53'45"	98	1.2	UCAC4 457-51132	12.29	13 <sup>h</sup> 08 <sup>m</sup> 08.546 <sup>s</sup> 1°20'31.715"	36.0	215	116.9	−11.9	54.5	19.8	99.3	123	
2017/06/08 20:04:48	5348 Kennoguchi	9.5	17.34	4.42	75	1.3	35°14'59" 49°55'53"	260	2.5	UCAC4 330-72243	12.93	14 <sup>h</sup> 23 <sup>m</sup> 23.534 <sup>s</sup> −24°07'44.052"	14.0	198	142.5	−14.7	32.0	21.8	99.4	127	
2017/06/08 21:18:35	5227 Bo- cacara	6.9	16.54	2.67	165	1.4	37°48'17" 51°10'37"	41	0.3	UCAC4 375-170104	13.96	19 <sup>h</sup> 42 <sup>m</sup> 29.598 <sup>s</sup> −15°05'47.449"	15.1	138	142.8	−17.2	44.0	22.8	99.4	75	
2017/06/08 22:16:55	228011 2007 RB288	8.3	20.28	7.48	13	0.5	36°17'05" 49°55'58"	181	0.9	UCAC4 312-134853	12.81	18 <sup>h</sup> 00 <sup>m</sup> 56.604 <sup>s</sup> −27°36'38.201"	12.4	178	167.1	−16.6	21.0	21.1	99.5	359	
2017/06/08 23:05:14	983 Gunila	73.9	13.50	1.05	70	6.1	35°29'17" 49°40'60"	235	23.3	UCAC4 356-98318	12.98	17 <sup>h</sup> 30 <sup>m</sup> 19.355 <sup>s</sup> −18°58'24.900"	19.4	198	173.6	−14.4	11.3	18.0	99.5	96	
2017/06/09 00:22:49	3873 Roddy	9.1	15.55	1.85	201	0.8	33°41'20" 49°23'42"	249	0.0	UCAC4 444-110092	13.91	19 <sup>h</sup> 35 <sup>m</sup> 31.477 <sup>s</sup> −1°13'48.309"	38.7	187	138.2	−8.1	44.7	10.5	99.6	59	

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.				Table 1		Page 4		LinOccult 2.3.0			
		Asteroid			Nearest point			Star			Sun			Moon							
Date Time (UTC)	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Dist	Alt	Phase (%)	$\sigma_{km}$	
2017/06/09 01:16:45	22708 1998 RK66	6.0	18.55	6.17	119	1.1	37°42'10" 49°29'29"	121	1.2	UCAC4 390-135537	12.38	21 <sup>h</sup> 35 <sup>m</sup> 31.307 <sup>s</sup> -12°03'22.456"	27.3	168	115.9	-2.0	69.4	3.8	99.6	124	
2017/06/09 18:59:25	9670 Magni	10.5	16.88	3.39	194	0.9	37°08'15" 51°42'08"	18	1.0	UCAC4 412-68046	13.54	17 <sup>h</sup> 23 <sup>m</sup> 24.344 <sup>s</sup> -7°47'04.155"	22.0	135	164.6	-9.6	10.8	12.3	99.8	125	
2017/06/09 20:21:32	4437 Yaroshenko	9.1	15.65	2.60	233	1.3	37°52'29" 51°53'03"	29	0.0	UCAC4 367-147570	13.16	18 <sup>h</sup> 49 <sup>m</sup> 13.721 <sup>s</sup> -16°43'17.085"	13.7	139	156.3	-15.4	19.7	18.8	99.8	73	
2017/06/09 20:42:09	197630 2004 KJ4	10.0	19.89	9.70	148	0.6	37°21'06" 51°11'35"	31	1.0	UCAC4 304-200604	10.19	18 <sup>h</sup> 14 <sup>m</sup> 18.424 <sup>s</sup> -29°18'57.344"	6.8	155	164.6	-16.3	15.0	19.9	99.8	357	
2017/06/09 21:12:12	17410 1988 CQ4	5.2	16.55	4.39	170	1.0	34°48'01" 48°51'43"	219	0.2	UCAC4 352-160597	12.18	18 <sup>h</sup> 59 <sup>m</sup> 20.515 <sup>s</sup> -19°37'03.050"	14.9	149	154.8	-17.0	21.4	20.9	99.7	72	
2017/06/10 00:46:14	1019 Strackea	8.4	14.96	1.45	115	1.5	36°20'01" 49°00'53"	178	0.5	UCAC4 570-68995	13.84	18 <sup>h</sup> 33 <sup>m</sup> 49.100 <sup>s</sup> 23°51'46.114"	56.2	230	129.1	-5.5	45.0	11.7	99.6	51	
2017/06/10 01:22:06	26355 Grueber	9.1	16.18	3.13	97	0.9	35°21'39" 50°41'16"	317	2.2	UCAC4 346-130705	13.11	18 <sup>h</sup> 12 <sup>m</sup> 04.497 <sup>s</sup> -20°51'35.291"	9.9	220	166.1	-1.3	8.3	7.8	99.6	112	
2017/06/10 17:56:32	7238 Kobori	6.9	15.28	1.87	62	1.0	36°02'16" 49°30'36"	197	2.7	UCAC4 347-85587	13.63	17 <sup>h</sup> 00 <sup>m</sup> 33.522 <sup>s</sup> -20°36'37.760"	6.6	133	175.8	-2.7	16.8	-1.7	98.6	70	
2017/06/10 19:07:37	5124 Muraoka	6.0	16.13	4.43	82	0.9	36°48'55" 49°23'44"	152	1.6	UCAC4 328-166977	11.72	18 <sup>h</sup> 35 <sup>m</sup> 42.573 <sup>s</sup> -24°31'29.585"	0.4	131	161.7	-10.3	7.2	7.3	98.5	63	
2017/06/10 19:50:19	3195 Fedchenko	10.0	16.28	3.22	50	0.9	35°50'46" 49°41'52"	219	3.3	UCAC4 333-103825	13.11	17 <sup>h</sup> 19 <sup>m</sup> 43.620 <sup>s</sup> -23°26'54.868"	12.9	155	179.0	-13.6	13.8	11.9	98.4	109	
2017/06/10 20:02:24	19825 2000 SN179	5.2	18.35	5.00	31	0.8	35°55'42" 49°53'15"	235	1.9	UCAC4 433-114072	13.36	20 <sup>h</sup> 41 <sup>m</sup> 12.238 <sup>s</sup> -3°32'22.742"	7.4	105	126.7	-14.3	38.8	13.1	98.4	106	
2017/06/10 21:04:30	4585 Aionnai	8.7	15.79	4.06	211	1.5	38°20'31" 48°42'04"	136	0.2	UCAC4 398-59503	11.76	15 <sup>h</sup> 05 <sup>m</sup> 38.105 <sup>s</sup> -10°26'25.488"	25.7	208	146.4	-16.8	47.5	17.8	98.3	89	
2017/06/10 22:02:46	32020 2000 HZ87	6.0	18.73	6.15	251	0.9	37°38'49" 47°58'31"	157	0.3	UCAC4 413-59345	12.58	13 <sup>h</sup> 58 <sup>m</sup> 43.703 <sup>s</sup> -7°25'04.202"	14.6	239	130.1	-16.8	64.6	20.3	98.2	132	
2017/06/10 22:13:15	28059 Kiliaan	8.3	16.77	5.99	47	0.8	36°20'10" 49°37'35"	176	2.8	UCAC4 424-68665	10.78	17 <sup>h</sup> 02 <sup>m</sup> 46.265 <sup>s</sup> -5°13'42.656"	33.7	196	161.9	-16.5	23.8	20.5	98.2	107	
2017/06/10 22:51:02	10805 Iwano	7.2	17.36	3.53	12	0.5	36°19'44" 50°09'15"	14	2.6	UCAC4 342-104129	13.87	17 <sup>h</sup> 39 <sup>m</sup> 41.262 <sup>s</sup> -21°43'02.005"	17.3	193	174.5	-15.1	10.3	20.7	98.1	110	
2017/06/10 23:06:36	5134 Ebilson	13.8	15.77	2.15	79	1.5	37°06'52" 49°35'12"	131	4.1	UCAC4 333-190610	13.79	18 <sup>h</sup> 44 <sup>m</sup> 32.831 <sup>s</sup> -23°35'08.624"	16.5	181	159.8	-14.2	6.5	20.5	98.1	96	
2017/06/10 23:27:41	56262 1999 JE89	5.5	16.99	4.78	60	0.7	37°06'16" 49°55'45"	103	1.9	UCAC4 351-169688	12.23	19 <sup>h</sup> 07 <sup>m</sup> 04.273 <sup>s</sup> -19°56'50.440"	20.1	181	154.2	-12.8	10.1	19.9	98.0	94	
2017/06/10 23:44:03	22769 Aurelianora	6.6	17.17	3.36	96	0.7	35°29'34" 50°44'35"	324	1.6	UCAC4 309-137235	13.86	17 <sup>h</sup> 54 <sup>m</sup> 12.499 <sup>s</sup> -28°12'05.973"	9.2	201	170.1	-11.5	11.2	19.3	98.0	117	
2017/06/11 01:09:04	35643 1998 KN55	6.3	18.42	4.60	99	0.6	36°20'23" 49°09'17"	178	1.5	UCAC4 400-98188	13.83	18 <sup>h</sup> 51 <sup>m</sup> 54.456 <sup>s</sup> -10°04'04.430"	24.5	213	153.9	-2.9	11.0	13.6	97.9	125	
2017/06/11 19:08:22	32404 2000 RN	6.3	17.53	4.17	8	0.7	36°10'54" 50°04'44"	295	2.4	UCAC4 378-158410	13.38	19 <sup>h</sup> 29 <sup>m</sup> 41.823 <sup>s</sup> -14°26'13.498"	2.0	115	148.2	-10.2	7.6	1.6	95.4	103	

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 5		LinOccult 2.3.0			
Asteroid				Nearest point			Star			Sun			Moon							
Date Time (UTC)	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Dist	Alt	Phase (%)	$\sigma_{km}$
2017/06/11 19:51:34	28187 1998 WP19	6.6	16.76	2.85	233	0.6	34°10'04" 48°28'39"	221	0.2	UCAC4 349-111367	13.99	17 <sup>h</sup> 42 <sup>m</sup> 40.380 <sup>s</sup> -20°22'51.887"	14.5	150	174.1	-13.6	19.8	6.9	95.3	100
2017/06/11 20:39:14	25627 2000 AU50	6.9	17.43	4.35	211	0.6	34°18'22" 48°39'49"	223	0.5	UCAC4 318-127663	13.10	17 <sup>h</sup> 47 <sup>m</sup> 56.483 <sup>s</sup> -26°29'28.451"	11.4	161	172.8	-16.0	19.9	12.1	95.2	119
2017/06/11 22:00:38	15538 2000 BW14	7.2	17.57	4.04	22	0.6	36°04'27" 50°11'34"	317	2.3	UCAC4 329-146769	13.56	18°24 <sup>m</sup> 04.074 <sup>s</sup> -24°19'32.301"	15.3	171	165.4	-16.8	12.2	18.5	94.9	122
2017/06/11 23:38:25	4175 Bill-baum	11.0	17.70	4.12	124	2.9	35°49'22" 48°58'41"	196	2.0	UCAC4 427-118749	13.60	20 <sup>h</sup> 47 <sup>m</sup> 20.098 <sup>s</sup> -4°47'36.851"	32.5	156	127.0	-11.9	26.8	20.9	94.7	172
2017/06/12 00:39:39	8149 Ruff	6.9	15.20	1.69	216	1.0	38°26'43" 48°42'52"	134	0.0	UCAC4 330-119160	13.76	17 <sup>h</sup> 49 <sup>m</sup> 23.905 <sup>s</sup> -24°06'09.112"	8.1	216	173.4	-6.2	21.0	19.3	94.4	69
2017/06/12 20:32:02	20975 1981 ER4	6.0	18.75	4.96	124	0.8	37°31'06" 50°50'40"	45	1.2	UCAC4 397-57426	13.80	14 <sup>h</sup> 53 <sup>m</sup> 38.389 <sup>s</sup> -10°41'25.142"	26.4	204	142.0	-15.7	73.8	6.9	90.3	136
2017/06/12 22:01:31	5 Astraea	119.1	11.12	1.24	299	10.9	35°46'49" 52°42'52"	353	0.5	UCAC4 366-158184	10.29	18 <sup>h</sup> 59 <sup>m</sup> 49.899 <sup>s</sup> -16°58'59.083"	21.5	163	156.8	-16.7	14.9	16.2	89.9	94
2017/06/12 22:36:03	8882 Sakaeta-mura	7.2	17.70	5.19	126	0.6	36°27'33" 48°55'32"	174	1.3	UCAC4 484-75184	12.52	18 <sup>h</sup> 14 <sup>m</sup> 02.099 <sup>s</sup> 6°41'01.038"	46.8	185	147.8	-15.7	36.6	18.8	89.8	105
2017/06/13 18:34:41	3422 Reid	12.0	16.88	3.32	58	1.6	35°28'43" 50°05'59"	276	3.6	UNKNOWN UN- KNOWN	13.62	13 <sup>h</sup> 36 <sup>m</sup> 29.242 <sup>s</sup> 8°29'00.588"	47.2	199	115.1	-6.8	108.9	-15.2	84.4	118
2017/06/13 20:36:22	7971 Meck-bach	6.3	16.83	2.98	206	0.7	35°18'56" 48°18'29"	200	0.3	UCAC4 441-69646	13.92	17 <sup>h</sup> 23 <sup>m</sup> 06.040 <sup>s</sup> -1°49'09.351"	37.1	164	158.5	-15.8	52.8	2.8	83.8	98
2017/06/13 22:28:33	29555 MACEK	12.6	16.47	4.05	6	1.3	36°12'25" 50°01'27"	245	4.4	UCAC4 364-159764	12.45	19 <sup>h</sup> 02 <sup>m</sup> 44.986 <sup>s</sup> -17°15'23.639"	22.3	170	157.2	-15.9	26.5	16.2	83.2	113
2017/06/13 22:44:33	1823 Gliese	9.5	14.26	2.36	139	1.5	36°34'30" 51°17'06"	9	0.3	UCAC4 312-120793	12.03	17 <sup>h</sup> 42 <sup>m</sup> 00.752 <sup>s</sup> -27°43'45.658"	11.3	193	174.6	-15.2	45.7	17.6	83.2	55
2017/06/13 22:59:14	7478 Hasse	5.5	17.82	4.48	236	0.6	37°34'19" 48°06'04"	157	0.2	UCAC4 346-153507	13.36	18 <sup>h</sup> 35 <sup>m</sup> 50.364 <sup>s</sup> -20°48'03.635"	19.2	185	164.3	-14.5	33.2	18.9	83.1	108
2017/06/13 23:36:04	46602 1993 FP34	6.0	18.20	7.07	132	0.5	34°28'37" 50°18'56"	283	1.1	UCAC4 302-94422	11.13	16 <sup>h</sup> 41 <sup>m</sup> 57.763 <sup>s</sup> -29°44'45.949"	1.9	216	167.6	-12.0	59.4	21.5	82.9	145
2017/06/13 23:36:26	1040 Klump-kea	42.5	16.09	4.57	129	1.2	38°02'33" 49°47'41"	103	7.3	UCAC4 575-3324	11.53	1 <sup>h</sup> 32 <sup>m</sup> 24.341 <sup>s</sup> 24°53'13.089"	18.7	73	53.6	-12.0	78.8	21.5	82.9	177
2017/06/14 00:12:43	4106 Nada	13.2	15.06	3.50	122	1.6	34°38'09" 49°45'57"	255	2.1	UCAC4 273-183419	11.60	18 <sup>h</sup> 37 <sup>m</sup> 25.596 <sup>s</sup> -35°32'10.229"	2.2	198	160.7	-8.9	36.8	23.3	82.7	81
2017/06/14 17:42:28	5838 Hamsun	6.9	16.31	2.82	5	0.9	36°15'05" 50°05'22"	332	2.8	UCAC4 461-65605	13.57	17 <sup>h</sup> 16 <sup>m</sup> 21.065 <sup>s</sup> 2°03'00.924"	24.0	118	154.4	-0.7	65.6	-28.8	77.0	98
2017/06/14 18:18:45	3333 Schaber	14.5	17.56	4.92	138	1.0	36°07'55" 51°17'12"	355	2.5	UCAC4 423-56559	12.65	11 <sup>h</sup> 35 <sup>m</sup> 31.456 <sup>s</sup> -5°34'42.281"	24.5	225	93.0	-5.0	144.2	-23.2	76.7	157
2017/06/14 18:57:39	49564 1999 CN103	5.2	17.26	3.45	198	0.5	35°08'01" 48°26'09"	205	0.3	UCAC4 381-117822	13.86	18 <sup>h</sup> 34 <sup>m</sup> 12.279 <sup>s</sup> -13°52'06.900"	10.3	126	162.6	-9.0	44.0	-17.1	76.5	97
2017/06/14 20:15:26	28022 1998 BA9	8.7	17.61	3.98	42	0.7	35°54'30" 49°45'38"	220	2.5	UCAC4 318-143309	13.66	18 <sup>h</sup> 07 <sup>m</sup> 59.819 <sup>s</sup> -26°28'53.315"	9.5	154	171.3	-14.8	50.7	-5.0	76.1	133

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 6		LinOccult 2.3.0			
Date Time (UTC)	Asteroid			Nearest point			Star			Sun			Moon							
	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Dist	Alt	Phase (%)	$\sigma_{km}$
2017/06/14 20:17:18	9857 1991 EN	30.2	17.10	3.79	36	2.0	36°18'20" 49°43'13"	178	4.4	UCAC4 314-227830	13.35	18 <sup>h</sup> 58 <sup>m</sup> 08.739 <sup>s</sup> -27°18'33.975"	4.8	145	160.3	-14.9	39.8	-4.7	76.0	272
2017/06/14 21:12:56	31382 1998 XN89	7.6	16.05	3.52	174	0.8	33°55'04" 49°41'37"	257	0.7	UCAC4 326-83341	12.58	16 <sup>h</sup> 38 <sup>m</sup> 37.686 <sup>s</sup> -24°54'35.598"	14.8	188	167.5	-16.7	71.3	3.5	75.7	100
2017/06/14 22:53:55	22321 1991 RP	5.0	17.38	4.71	57	0.6	36°09'49" 49°32'22"	189	1.8	UCAC4 545-69482	12.69	18 <sup>h</sup> 12 <sup>m</sup> 21.402 <sup>s</sup> 18°54'10.187"	58.1	198	136.7	-14.7	61.4	16.4	75.1	87
2017/06/14 23:58:57	3408 Shala- mov	7.2	15.48	2.06	167	1.1	35°05'22" 51°20'25"	329	0.2	UCAC4 353-132375	13.59	18 <sup>h</sup> 25 <sup>m</sup> 43.464 <sup>s</sup> -19°32'00.670"	17.6	203	167.3	-10.1	48.5	22.5	74.7	65
2017/06/15 01:16:03	3027 Shavarsh	7.2	16.49	3.20	44	0.9	35°58'23" 50°23'04"	329	3.1	UCAC4 351-149319	13.34	18 <sup>h</sup> 39 <sup>m</sup> 13.205 <sup>s</sup> -19°50'36.124"	12.2	217	164.4	-1.9	46.0	26.6	74.2	82
2017/06/15 18:28:06	5676 Voltaire	11.0	15.69	2.68	200	1.2	36°58'15" 51°47'37"	14	0.4	UCAC4 444-79772	13.10	18 <sup>h</sup> 37 <sup>m</sup> 33.509 <sup>s</sup> -1°12'06.975"	16.7	113	153.4	-6.0	57.1	-26.5	67.7	89
2017/06/15 19:00:31	75608 2000 AC34	5.8	16.73	2.92	208	0.8	37°55'12" 48°30'42"	146	0.6	UCAC4 253-82449	13.89	15 <sup>h</sup> 42 <sup>m</sup> 40.867 <sup>s</sup> -39°34'57.538"	0.0	172	150.9	-9.3	91.3	-21.5	67.5	277
2017/06/15 19:48:07	2147 Kharadze	29.0	18.11	7.01	89	1.2	35°30'06" 49°26'01"	219	6.0	UCAC4 518-52087	11.10	10 <sup>h</sup> 42 <sup>m</sup> 45.754 <sup>s</sup> 13°29'05.721"	18.7	269	72.5	-13.1	175.2	-14.0	67.1	169
2017/06/15 21:38:59	4182 Mount Locke	12.0	15.28	2.46	238	1.3	34°03'56" 48°28'26"	222	0.1	UCAC4 343-132146	12.94	18 <sup>h</sup> 11 <sup>m</sup> 51.544 <sup>s</sup> -21°31'15.737"	18.2	173	171.8	-16.8	63.0	3.2	66.4	87
2017/06/15 22:21:01	31315 1998 FS132	7.9	17.57	4.23	154	0.6	36°46'53" 48°42'16"	167	1.2	UCAC4 331-108332	13.36	17 <sup>h</sup> 34 <sup>m</sup> 21.893 <sup>s</sup> -23°55'14.138"	15.3	192	179.1	-16.1	72.0	9.2	66.1	126
2017/06/15 22:48:22	3949 Mach	6.9	15.61	2.29	101	0.8	35°57'35" 49°09'48"	193	1.3	UCAC4 343-116685	13.46	17 <sup>h</sup> 44 <sup>m</sup> 55.754 <sup>s</sup> -21°27'51.758"	17.1	196	177.5	-15.0	69.9	13.0	65.9	68
2017/06/16 00:22:58	5373 1988 VV3	7.6	16.45	2.58	145	0.7	37°39'19" 49°05'35"	137	1.0	UCAC4 320-122436	13.97	17 <sup>h</sup> 45 <sup>m</sup> 12.504 <sup>s</sup> -26°02'52.469"	6.1	216	176.7	-7.8	70.5	23.8	65.2	92
2017/06/16 00:42:36	11409 Horkheimer	9.1	16.87	3.87	253	0.8	38°01'10" 48°04'53"	150	0.3	UCAC4 343-105980	13.03	17 <sup>h</sup> 37 <sup>m</sup> 13.082 <sup>s</sup> -21°33'04.048"	7.3	223	178.3	-5.8	72.7	25.5	65.1	120
2017/06/16 17:40:50	41051 1999 VR10	9.5	18.63	4.84	196	0.8	38°58'34" 50°24'49"	78	1.1	UCAC4 490-56242	13.80	12 <sup>h</sup> 36 <sup>m</sup> 22.474 <sup>s</sup> 7°49'05.109"	45.5	205	99.5	-0.4	159.3	-36.5	58.0	163
2017/06/16 19:00:00	14091 1997 MQ4	6.3	18.34	4.72	83	0.7	36°57'40" 49°26'38"	144	1.7	UCAC4 421-61715	13.63	14 <sup>h</sup> 54 <sup>m</sup> 55.441 <sup>s</sup> -5°57'49.691"	34.1	183	136.5	-9.2	123.9	-25.7	57.4	119
2017/06/16 21:50:01	5982 Polykle- tus	9.1	17.56	5.84	198	2.3	35°54'46" 51°48'43"	352	0.8	UCAC4 433-61546	11.72	14 <sup>h</sup> 47 <sup>m</sup> 44.747 <sup>s</sup> -3°26'02.909"	23.0	233	133.6	-16.7	127.7	0.8	56.1	121
2017/06/16 21:57:41	34647 2000 WV97	5.5	15.91	2.65	113	0.7	34°56'18" 50°34'49"	302	0.9	UCAC4 312-118703	13.36	17 <sup>h</sup> 33 <sup>m</sup> 46.503 <sup>s</sup> -27°40'57.651"	12.1	187	175.3	-16.6	84.5	2.0	56.1	70
2017/06/16 22:02:25	15110 2000 CE62	8.7	16.93	3.31	140	0.8	37°58'30" 50°41'20"	59	1.5	UCAC4 293-123643	13.68	17 <sup>h</sup> 08 <sup>m</sup> 50.815 <sup>s</sup> -31°31'08.282"	7.4	193	169.1	-16.5	89.5	2.7	56.1	119
2017/06/16 22:53:25	3651 Fried- man	6.3	16.06	4.89	150	0.7	34°31'16" 50°47'05"	303	0.4	UCAC4 314-124241	11.18	17 <sup>h</sup> 59 <sup>m</sup> 52.624 <sup>s</sup> -27°15'21.905"	11.7	194	174.2	-14.7	79.2	10.4	55.7	74
2017/06/16 23:47:11	34774 2001 QX261	6.3	19.25	7.07	20	1.3	36°33'41" 50°05'58"	74	1.6	UCAC4 415-144315	12.18	22 <sup>h</sup> 02 <sup>m</sup> 12.352 <sup>s</sup> -7°09'54.592"	26.5	144	115.6	-11.1	20.6	17.9	55.5	158

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 7		LinOccult 2.3.0				
		Asteroid			Nearest point			Star				Sun			Moon						
Date Time (UTC)	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Dist	Alt	Phase (%)	$\sigma_{km}$	
2017/06/16 23:54:16	30443 Stieltjes	6.6	17.36	3.85	205	0.7	36°22'01" 48°12'34"	178	0.3	UCAC4 333-201666	13.55	19 <sup>h</sup> 05 <sup>m</sup> 44.889 <sup>s</sup> -23°25'31.272"	15.6	193	160.7	-10.5	64.8	18.8	55.3	99	
2017/06/17 00:18:42	191028 ASI68	9.5	20.11	6.39	13	0.6	36°20'02" 49°56'03"	165	1.0	UCAC4 443-72015	13.72	17 <sup>h</sup> 34 <sup>m</sup> 16.154 <sup>s</sup> -1°35'23.680"	26.8	230	158.2	-8.2	88.0	21.9	55.1	376	
2017/06/17 17:53:47	40717 SC2	5.0	18.19	4.39	136	0.5	35°44'36" 51°13'05"	343	0.8	UCAC4 540-136484	13.82	20 <sup>h</sup> 37 <sup>m</sup> 51.012 <sup>s</sup> 17°54'14.693"	8.3	72	120.9	-1.9	54.7	-36.4	47.3	96	
2017/06/17 18:07:34	3412 Kafka	6.9	17.32	4.31	47	2.0	36°51'56" 50°14'48"	62	2.6	UCAC4 354-68534	13.03	14 <sup>h</sup> 30 <sup>m</sup> 33.490 <sup>s</sup> -19°14'29.646"	20.8	177	134.8	-3.6	137.7	-35.0	47.3	93	
2017/06/17 18:17:40	18848 RH41	9.1	16.67	3.02	114	1.0	36°52'22" 49°05'43"	158	1.9	UCAC4 503-90418	13.71	18 <sup>h</sup> 43 <sup>m</sup> 12.616 <sup>s</sup> 10°34'54.623"	24.8	104	143.1	-4.7	80.9	-33.9	47.1	99	
2017/06/17 21:16:07	3834 Zap-pafrank	6.3	16.12	2.29	216	0.7	33°16'29" 49°55'22"	266	0.2	UCAC4 259-152099	13.97	18 <sup>h</sup> 06 <sup>m</sup> 22.641 <sup>s</sup> -38°14'48.927"	1.4	172	164.4	-16.6	89.6	-8.7	45.7	96	
2017/06/17 22:11:14	30331 JT26	6.3	18.23	7.29	68	1.7	37°13'21" 49°55'51"	101	1.8	UCAC4 326-206486	10.94	21 <sup>h</sup> 57 <sup>m</sup> 37.382 <sup>s</sup> -24°54'41.476"	1.2	133	123.0	-16.3	40.1	-0.0	45.1	121	
2017/06/17 23:35:31	913 Otila	13.2	14.30	1.14	25	4.4	35°57'16" 49°59'00"	253	9.1	UCAC4 351-189615	13.63	20 <sup>h</sup> 57 <sup>m</sup> 53.060 <sup>s</sup> -19°51'53.336"	18.4	162	135.4	-12.0	51.9	13.1	44.5	52	
2017/06/18 19:50:33	15829 BAI	5.5	18.76	5.60	154	0.5	35°05'07" 51°11'49"	326	0.8	UCAC4 442-60263	13.17	15 <sup>h</sup> 29 <sup>m</sup> 45.768 <sup>s</sup> -1°39'46.523"	37.9	191	139.8	-13.1	142.4	-24.6	35.5	127	
2017/06/18 22:19:01	76261 EU103	5.0	19.21	7.96	222	0.6	34°57'44" 51°51'20"	335	0.4	UCAC4 492-59105	11.25	14 <sup>h</sup> 09 <sup>m</sup> 50.765 <sup>s</sup> 8°17'26.068"	21.8	257	117.6	-16.1	160.5	-3.0	34.4	143	
2017/06/18 23:51:56	46629 PS38	8.3	18.01	4.71	35	0.7	36°04'43" 50°20'04"	335	2.0	UCAC4 330-174260	13.31	18 <sup>h</sup> 44 <sup>m</sup> 01.315 <sup>s</sup> -24°09'38.067"	13.7	199	167.6	-10.7	96.7	11.7	33.8	160	
2017/06/19 00:26:50	16568 DX5	6.6	17.77	6.83	129	0.6	37°23'26" 49°07'59"	142	1.2	UCAC4 337-172561	10.94	18 <sup>h</sup> 47 <sup>m</sup> 53.832 <sup>s</sup> -22°45'44.876"	13.0	207	166.7	-7.4	96.1	17.1	33.5	124	
2017/06/19 18:46:51	20395 MY29	10.0	16.10	2.99	203	0.9	34°04'58" 48°54'51"	231	0.5	UCAC4 315-104262	13.18	17 <sup>h</sup> 03 <sup>m</sup> 53.165 <sup>s</sup> -27°02'45.286"	8.6	153	168.3	-7.8	129.6	-31.3	25.6	101	
2017/06/19 19:31:07	15156 FK38	6.0	17.72	3.98	133	0.5	35°33'13" 48°57'18"	203	1.1	UCAC4 334-97317	13.77	17 <sup>h</sup> 16 <sup>m</sup> 24.027 <sup>s</sup> -23°18'15.111"	14.2	159	171.5	-11.7	128.2	-28.0	25.3	116	
2017/06/19 19:38:04	24374 AV143	7.2	17.23	3.65	164	0.7	36°19'21" 48°34'36"	179	0.8	UCAC4 414-76578	13.62	18 <sup>h</sup> 18 <sup>m</sup> 41.265 <sup>s</sup> -7°21'46.305"	24.9	140	162.8	-12.2	113.9	-27.4	25.2	106	
2017/06/19 20:52:12	45445 AR181	7.6	16.38	3.98	142	0.8	37°59'43" 50°42'37"	59	1.3	UCAC4 352-93232	12.43	17 <sup>h</sup> 19 <sup>m</sup> 51.509 <sup>s</sup> -19°37'55.332"	20.4	178	171.3	-16.1	128.7	-19.2	24.7	120	
2017/06/19 21:36:10	5776 UT2	8.3	15.97	2.77	16	1.4	36°29'19" 50°06'16"	66	3.4	UCAC4 401-62331	13.28	15 <sup>h</sup> 58 <sup>m</sup> 12.542 <sup>s</sup> -9°59'34.670"	24.9	212	149.4	-16.7	149.8	-13.4	24.4	95	
2017/06/19 21:37:37	24342 AV87	6.0	17.61	6.48	39	0.5	36°00'03" 50°20'52"	329	1.9	UCAC4 383-104406	11.13	18 <sup>h</sup> 22 <sup>m</sup> 43.714 <sup>s</sup> -13°32'58.326"	26.3	173	168.0	-16.7	114.4	-13.2	24.4	123	
2017/06/19 21:50:33	5539 Limporyen	5.8	18.34	4.56	178	1.0	37°10'49" 51°32'41"	21	0.6	UCAC4 357-69658	13.80	14 <sup>h</sup> 52 <sup>m</sup> 09.088 <sup>s</sup> -18°42'42.421"	8.8	226	137.6	-16.6	162.2	-11.3	24.3	111	
2017/06/19 22:48:09	27340 CH97	5.8	17.19	3.86	31	0.7	36°17'34" 49°45'53"	179	2.1	UCAC4 462-75407	13.36	18 <sup>h</sup> 13 <sup>m</sup> 50.760 <sup>s</sup> 2°12'35.079"	41.1	198	153.9	-14.9	115.8	-2.8	23.9	104	



Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 8		LinOccult 2.3.0				
Asteroid			Nearest point			Star				Sun			Moon								
Date Time (UTC)	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Dist	Alt	Phase (%)	$\sigma_{km}$	
2017/06/20 00:19:50	1741 Giclas	26.2	17.09	3.35	223	0.6	38°34'37'' 48°42'41''	132	2.8	UCAC4 537-5723	13.79	3 <sup>h</sup> 13 <sup>m</sup> 41.756 <sup>s</sup> 17°13'34.645''	7.7	72	38.0	-8.1	19.8	11.5	23.2	210	
2017/06/20 19:00:02	26350 1998 XU94	6.3	18.62	5.59	173	0.8	34°07'54'' 49°22'04''	244	0.9	UCAC4 348-75198	13.04	15 <sup>h</sup> 13 <sup>m</sup> 48.805 <sup>s</sup> -20°33'28.999''	19.5	182	142.1	-9.0	168.2	-28.8	16.0	151	
2017/06/20 19:05:15	228090 2008 RE127	8.7	19.87	8.34	158	0.5	37°45'01'' 51°06'57''	41	0.8	UCAC4 345-149890	11.53	18 <sup>h</sup> 29 <sup>m</sup> 32.771 <sup>s</sup> -21°05'40.719''	8.3	138	172.2	-9.5	125.7	-28.6	16.0	398	
2017/06/21 17:52:40	46590 1992 WP1	8.3	17.66	4.35	131	0.6	35°23'31'' 49°01'18''	209	1.5	UCAC4 345-118892	13.33	17 <sup>h</sup> 48 <sup>m</sup> 32.002 <sup>s</sup> -21°00'41.167''	5.2	132	176.2	-1.7	149.3	-23.1	8.6	134	
2017/06/21 19:22:16	25874 2000 OS39	5.0	19.16	7.01	239	0.8	35°39'26'' 47°56'35''	191	0.2	UCAC4 435-113240	12.15	20 <sup>h</sup> 46 <sup>m</sup> 44.459 <sup>s</sup> -3°01'47.746''	7.5	104	135.2	-11.0	105.0	-25.5	8.2	123	
2017/06/21 19:57:03	10809 Ma-jsterrojr	8.3	17.76	5.66	71	0.6	36°02'46'' 49°25'41''	194	2.1	UCAC4 342-132340	12.11	18 <sup>h</sup> 21 <sup>m</sup> 31.214 <sup>s</sup> -21°36'33.324''	13.8	152	175.1	-13.5	142.9	-24.9	8.0	137	
2017/06/21 20:18:47	34705 2001 OA81	6.6	17.73	3.90	126	0.6	35°40'10'' 48°59'13''	200	1.2	UCAC4 420-126644	13.86	19 <sup>h</sup> 24 <sup>m</sup> 38.943 <sup>s</sup> -6°06'14.677''	24.2	136	153.6	-14.7	126.3	-24.2	7.9	103	
2017/06/21 21:13:14	29891 1999 GQ37	8.3	17.23	3.69	237	0.7	38°19'48'' 48°23'30''	142	0.4	UCAC4 326-124851	13.57	18 <sup>h</sup> 06 <sup>m</sup> 09.240 <sup>s</sup> -24°51'37.482''	15.0	174	178.2	-16.5	146.8	-20.9	7.6	124	
2017/06/21 22:01:25	42787 1998 WC16	7.6	17.15	3.65	34	0.7	36°30'43'' 49°46'58''	151	2.1	UCAC4 328-89057	13.54	16 <sup>h</sup> 53 <sup>m</sup> 50.689 <sup>s</sup> -24°27'38.549''	12.7	202	164.4	-16.5	162.9	-16.7	7.4	141	
2017/06/21 22:31:56	14995 Archy-tas	8.3	17.41	4.24	54	0.7	36°18'37'' 49°33'37''	178	2.5	UCAC4 354-152745	13.19	18 <sup>h</sup> 44 <sup>m</sup> 08.874 <sup>s</sup> -19°12'48.157''	20.8	184	169.4	-15.7	139.3	-13.5	7.3	120	
2017/06/21 23:18:35	4316 Babinkova	10.0	16.78	4.64	205	1.0	34°44'24'' 51°36'20''	327	0.6	UCAC4 329-83660	12.16	16 <sup>h</sup> 52 <sup>m</sup> 15.794 <sup>s</sup> -24°23'45.954''	6.4	219	164.0	-13.2	163.9	-7.8	7.1	108	
2017/06/22 00:17:46	216613 2002 TU281	6.6	18.37	5.21	126	1.2	34°33'24'' 49°51'03''	260	1.2	UCAC4 437-113626	13.16	21 <sup>h</sup> 28 <sup>m</sup> 53.080 <sup>s</sup> -2°46'17.395''	36.5	166	126.0	-8.4	97.8	0.2	6.9	170	
2017/06/22 00:56:58	19749 2000 CG19	6.0	17.98	5.16	234	0.5	37°36'43'' 48°08'08''	156	0.3	UCAC4 401-89424	12.83	18 <sup>h</sup> 47 <sup>m</sup> 42.220 <sup>s</sup> -9°51'23.206''	21.2	222	162.7	-4.2	138.9	6.0	6.6	118	
2017/06/22 00:59:10	19661 1999 RR130	7.2	16.66	2.86	117	0.7	36°18'59'' 48°59'51''	179	1.4	UCAC4 298-212066	13.88	18 <sup>h</sup> 35 <sup>m</sup> 56.045 <sup>s</sup> -30°34'58.631''	1.1	216	169.6	-4.0	141.4	6.3	6.6	93	
2017/06/22 17:40:07	7630 1979 MR2	7.9	17.24	5.71	66	0.7	37°05'25'' 50°20'24''	60	2.4	UCAC4 342-96645	11.54	17 <sup>h</sup> 30 <sup>m</sup> 04.937 <sup>s</sup> -21°46'34.669''	5.7	134	171.7	-0.1	168.1	-14.7	3.1	107	
2017/06/22 19:05:34	647 Adel-gunde	17.3	15.35	1.96	1	1.4	36°16'29'' 50°03'18''	314	7.3	UCAC4 358-168771	13.58	18 <sup>h</sup> 45 <sup>m</sup> 52.767 <sup>s</sup> -18°35'28.052''	9.6	135	169.5	-9.5	151.8	-20.8	2.8	94	
2017/06/22 20:26:51	10260 1972 TC	7.9	17.17	5.44	118	0.8	35°37'16'' 49°04'30''	204	1.6	UCAC4 405-118283	11.73	19 <sup>h</sup> 35 <sup>m</sup> 50.714 <sup>s</sup> -9°11'25.511''	21.5	137	154.2	-15.1	139.0	-22.5	2.6	98	
2017/06/22 21:27:13	6093 Makoto	8.3	16.07	4.49	221	0.9	36°29'13'' 48°04'11''	176	0.1	UCAC4 386-105478	11.60	18 <sup>h</sup> 34 <sup>m</sup> 16.075 <sup>s</sup> -12°57'28.258''	26.6	170	167.6	-16.7	155.3	-21.0	2.4	86	
2017/06/22 22:24:27	3651 Fried-man	6.3	16.05	3.07	68	0.7	35°32'04'' 50°25'25''	308	2.2	UCAC4 312-126380	13.05	17 <sup>h</sup> 53 <sup>m</sup> 16.955 <sup>s</sup> -27°38'43.769''	11.2	194	174.8	-15.9	163.5	-17.4	2.3	75	
2017/06/22 23:21:06	414 Liriope	69.9	15.08	1.64	211	6.6	38°44'09'' 49°01'22''	123	6.9	UCAC4 348-187657	13.71	20 <sup>h</sup> 13 <sup>m</sup> 32.171 <sup>s</sup> -20°30'10.751''	19.4	175	150.5	-13.1	134.1	-12.2	2.1	148	

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 9		LinOccult 2.3.0			
Date Time (UTC)	Asteroid			Nearest point			Star			Sun			Moon							
	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Dist	Alt	Phase (%)	$\sigma_{km}$
2017/06/22 23:37:52	13059 Ducuroir	6.3	17.20	4.09	151	0.7	35°09'08" 51°11'45"	328	0.8	UCAC4 369-78518	13.13	16 <sup>h</sup> 49 <sup>m</sup> 43.840 <sup>s</sup> −16°18'21.729"	10.7	228	160.6	−11.9	177.2	−10.4	2.1	104
2017/06/23 00:14:10	16592 TM1	12.6	17.33	5.29	52	1.2	37°01'05" 50°05'13"	85	3.6	UCAC4 478-136453	12.05	22 <sup>h</sup> 49 <sup>m</sup> 02.897 <sup>s</sup> 5°33'09.878"	38.6	139	105.3	−8.8	91.0	−6.2	2.0	126
2017/06/23 01:17:37	15985 WU20	5.2	16.67	3.21	185	0.7	36°27'52" 51°42'24"	4	0.1	UCAC4 402-108013	13.52	19 <sup>h</sup> 17 <sup>m</sup> 13.983 <sup>s</sup> −9°38'42.383"	21.9	221	158.3	−1.8	146.6	2.2	1.9	67
2017/06/23 18:08:51	11522 1991 JF	5.2	16.59	4.71	82	0.8	36°43'32" 50°43'60"	22	1.5	UCAC4 380-149632	11.90	19 <sup>h</sup> 24 <sup>m</sup> 57.495 <sup>s</sup> −14°02'48.567"	1.2	114	159.9	−3.5	156.2	−9.8	0.3	69
2017/06/23 18:09:22	4678 Ninian	6.0	15.90	3.57	157	0.7	37°04'09" 48°44'07"	159	0.2	UCAC4 303-147118	12.37	17 <sup>h</sup> 47 <sup>m</sup> 04.485 <sup>s</sup> −29°34'41.160"	0.6	141	172.0	−3.6	169.4	−9.8	0.3	62
2017/06/23 19:38:08	37519 Am- phios	20.9	19.01	7.60	205	0.6	39°02'09" 49°33'42"	105	2.1	UCAC4 617-46373	11.41	10 <sup>h</sup> 04 <sup>m</sup> 59.423 <sup>s</sup> 33°18'35.658"	23.9	294	52.0	−12.2	57.5	−17.5	0.3	323
2017/06/23 19:54:27	83431 2001 SR47	5.8	19.03	6.37	209	0.6	35°53'55" 51°54'42"	352	0.6	UCAC4 353-76863	12.67	15 <sup>h</sup> 53 <sup>m</sup> 10.031 <sup>s</sup> −19°29'04.503"	20.2	189	148.0	−13.3	151.7	−18.5	0.3	157
2017/06/23 20:33:20	4066 Haa- pavesi	6.9	14.88	2.09	37	1.1	35°57'23" 49°47'45"	220	4.2	UCAC4 365-129462	12.96	18 <sup>h</sup> 24 <sup>m</sup> 35.069 <sup>s</sup> −17°09'20.297"	20.8	160	172.9	−15.4	172.6	−20.2	0.2	51
2017/06/23 21:27:07	29867 1999 FA55	6.3	17.83	6.38	69	0.5	36°24'53" 50°39'56"	8	1.9	UCAC4 430-92310	11.45	19 <sup>h</sup> 04 <sup>m</sup> 04.389 <sup>s</sup> −4°07'18.245"	34.3	161	156.7	−16.7	157.8	−20.9	0.2	107
2017/06/23 21:42:31	49381 1998 XX4	7.2	18.13	4.22	85	0.6	37°04'21" 49°28'17"	139	1.7	UCAC4 336-85956	13.93	16 <sup>h</sup> 50 <sup>m</sup> 20.283 <sup>s</sup> −22°50'16.534"	14.8	201	161.6	−16.7	163.8	−20.8	0.2	141
2017/06/23 22:58:00	31056 1996 RK25	6.3	16.87	3.21	204	1.0	36°33'43" 51°52'24"	6	0.1	UCAC4 463-103130	13.71	19 <sup>h</sup> 27 <sup>m</sup> 45.643 <sup>s</sup> 2°34'32.494"	42.7	182	147.9	−14.5	149.5	−18.0	0.2	81
2017/06/23 23:37:49	11251 Icarion	12.6	18.79	8.93	133	0.8	35°14'57" 51°02'41"	326	1.7	UCAC4 338-126986	9.86	18 <sup>h</sup> 12 <sup>m</sup> 04.116 <sup>s</sup> −22°33'54.197"	12.8	208	179.2	−11.9	176.1	−15.2	0.2	266
2017/06/24 00:25:12	80047 1999 JN50	6.9	17.95	5.27	26	0.5	36°22'37" 49°49'10"	166	2.0	UCAC4 298-224272	12.69	18 <sup>h</sup> 55 <sup>m</sup> 35.715 <sup>s</sup> −30°33'12.358"	4.9	206	167.7	−7.7	164.0	−10.8	0.1	138
2017/06/24 18:55:03	15613 2000 GH136	6.6	17.51	3.70	23	0.6	36°14'15" 50°15'13"	351	2.4	UCAC4 428-86763	13.85	18 <sup>h</sup> 51 <sup>m</sup> 35.229 <sup>s</sup> −4°32'23.254"	20.8	126	159.1	−8.5	165.1	−7.7	0.8	106
2017/06/24 19:21:16	5388 Mottola	6.3	18.54	7.41	143	0.8	38°15'10" 49°49'05"	100	1.1	UCAC4 279-78754	11.13	15 <sup>h</sup> 08 <sup>m</sup> 55.330 <sup>s</sup> −34°21'57.418"	5.0	190	138.4	−10.9	128.0	−10.5	0.8	142
2017/06/24 22:10:28	6463 Isoda	15.1	15.07	3.82	251	1.7	33°59'33" 48°21'33"	221	0.0	UCAC4 342-187445	11.28	19 <sup>h</sup> 45 <sup>m</sup> 09.190 <sup>s</sup> −21°46'20.286"	17.2	166	159.0	−16.4	169.8	−20.7	1.1	79
2017/06/24 22:24:12	29492 1997 WP2	8.3	17.39	5.06	42	0.8	36°51'31" 49°56'44"	105	2.9	UCAC4 311-257456	12.34	20 <sup>h</sup> 22 <sup>m</sup> 30.026 <sup>s</sup> −27°55'17.149"	10.1	162	150.9	−16.0	160.1	−20.8	1.1	107
2017/06/24 23:42:49	217612 2008 TD126	10.0	19.82	6.45	145	0.6	36°22'42" 51°21'10"	3	1.0	UCAC4 415-107054	13.37	18 <sup>h</sup> 56 <sup>m</sup> 23.508 <sup>s</sup> −7°10'20.899"	30.0	204	161.0	−11.6	167.6	−19.0	1.3	371
2017/06/25 00:27:57	11544 1992 UD3	6.3	17.32	3.48	253	0.8	35°05'18" 47°54'55"	200	0.0	UCAC4 408-132935	13.88	20 <sup>h</sup> 07 <sup>m</sup> 22.457 <sup>s</sup> −8°35'06.263"	30.1	197	149.3	−7.5	162.4	−16.2	1.4	84
2017/06/25 00:29:55	38611 2000 AS74	11.5	19.73	6.51	107	0.7	37°07'19" 49°15'06"	146	1.3	UCAC4 351-109649	13.22	17 <sup>h</sup> 43 <sup>m</sup> 47.737 <sup>s</sup> −19°54'19.824"	6.8	228	172.0	−7.3	159.8	−16.0	1.4	342

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.		Table 1		Page 10		LinOccult 2.3.0				
Asteroid			Nearest point				Star				Sun		Moon							
Date Time (UTC)	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Dist	Alt	Phase (%)	$\sigma_{km}$
2017/06/25 19:39:22	53516 2000 AV136	5.8	18.26	5.18	43	0.9	36°39'19'' 49°44'47''	142	1.4	UCAC4 295-75917	13.09	13 <sup>h</sup> 44 <sup>m</sup> 26.268 <sup>s</sup> -31°01'54.156''	1.9	213	119.6	-12.3	96.4	-6.6	4.4	158
2017/06/25 19:43:07	24100 1999 VH8	8.3	17.11	3.79	9	0.7	36°15'52'' 49°58'06''	190	3.0	UCAC4 363-166303	13.36	18 <sup>h</sup> 51 <sup>m</sup> 36.545 <sup>s</sup> -17°28'24.869''	15.2	144	170.3	-12.6	163.8	-7.1	4.4	109
2017/06/25 20:27:42	26985 1997 VP3	7.9	18.17	5.15	48	0.9	36°14'29'' 50°28'25''	356	1.8	UCAC4 371-65338	13.03	13 <sup>h</sup> 34 <sup>m</sup> 48.921 <sup>s</sup> -15°53'48.297''	9.0	232	113.5	-15.2	88.9	-12.1	4.5	169
2017/06/25 20:32:25	51911 2001 QD68	7.2	18.03	5.23	89	0.8	35°03'26'' 50°11'22''	280	1.5	UCAC4 321-77839	12.80	15 <sup>h</sup> 15 <sup>m</sup> 30.503 <sup>s</sup> -25°53'17.288''	9.7	207	138.6	-15.4	114.1	-12.6	4.6	173
2017/06/26 00:22:21	30885 1992 UU4	6.6	17.79	5.23	210	0.5	35°38'15'' 48°12'22''	193	0.4	UCAC4 410-107738	12.57	18 <sup>h</sup> 58 <sup>m</sup> 52.590 <sup>s</sup> -8°03'16.197''	25.9	215	162.0	-8.1	159.8	-21.3	5.4	112
2017/06/26 00:37:11	667 Denise	81.3	15.41	1.81	160	5.8	35°31'40'' 48°41'51''	200	12.3	UCAC4 429-119948	13.83	23 <sup>h</sup> 59 <sup>m</sup> 42.652 <sup>s</sup> -4°13'05.225''	25.9	135	96.1	-6.6	122.8	-20.7	5.5	158
2017/06/26 18:12:30	1124 Stroobantia	24.6	14.91	2.24	123	2.7	37°39'19'' 50°43'13''	53	4.8	UCAC4 289-93996	12.82	16 <sup>h</sup> 39 <sup>m</sup> 21.424 <sup>s</sup> -32°17'19.885''	4.7	159	155.6	-4.0	120.1	12.0	10.0	109
2017/06/26 18:50:33	1507 Vaasa	6.3	15.49	1.98	113	0.8	37°13'48'' 50°51'56''	37	0.6	UNKNOWN UN- KNOWN	13.70	18 <sup>h</sup> 10 <sup>m</sup> 11.197 <sup>s</sup> -29°32'12.215''	3.5	147	173.2	-8.1	139.4	6.2	10.2	57
2017/06/26 19:42:20	5118 El-napoul	11.0	15.02	2.66	56	1.3	36°55'51'' 50°20'21''	55	4.3	UCAC4 363-85238	12.46	17 <sup>h</sup> 13 <sup>m</sup> 01.058 <sup>s</sup> -17°34'05.217''	21.8	168	162.8	-12.5	126.0	-1.3	10.4	79
2017/06/26 20:51:20	959 Arne	57.4	15.67	2.51	22	4.1	36°15'40'' 49°51'13''	185	17.3	UCAC4 317-119577	13.27	17 <sup>h</sup> 48 <sup>m</sup> 18.445 <sup>s</sup> -26°43'07.284''	13.3	177	171.5	-16.1	133.7	-10.3	10.8	130
2017/06/26 21:30:53	7551 Ed-stolper	10.0	17.74	5.50	21	0.8	36°14'53'' 49°51'23''	187	2.9	UCAC4 385-136682	12.25	19 <sup>h</sup> 14 <sup>m</sup> 18.959 <sup>s</sup> -13°07'11.073''	25.7	164	164.1	-16.8	153.3	-14.8	11.0	136
2017/06/26 22:03:19	691 Lehigh	87.7	13.69	0.69	282	6.5	39°12'53'' 48°23'22''	131	1.4	UCAC4 327-118790	13.82	17 <sup>h</sup> 59 <sup>m</sup> 11.635 <sup>s</sup> -24°39'14.300''	14.6	192	174.4	-16.6	135.5	-18.0	11.2	111
2017/06/27 01:03:15	56262 1999 JE89	5.5	16.46	2.60	32	0.6	35°54'43'' 49°53'04''	236	2.3	UCAC4 338-180148	13.96	18 <sup>h</sup> 54 <sup>m</sup> 48.016 <sup>s</sup> -22°27'59.670''	7.9	220	172.7	-3.7	146.5	-24.4	12.2	88
2017/06/27 18:15:24	7578 Georg-bohm	8.7	16.52	3.29	75	0.8	35°25'11'' 49°39'60''	236	2.7	UCAC4 320-128428	13.29	17 <sup>h</sup> 57 <sup>m</sup> 00.877 <sup>s</sup> -26°09'51.120''	4.8	142	172.7	-4.3	123.3	17.7	17.9	97
2017/06/27 19:00:44	17562 1994 BG4	5.2	16.50	3.23	235	0.6	34°10'18'' 48°27'17''	220	0.0	UCAC4 336-127852	13.33	18 <sup>h</sup> 10 <sup>m</sup> 19.132 <sup>s</sup> -22°53'06.025''	10.8	147	176.3	-9.1	125.9	10.5	18.2	75
2017/06/27 20:04:49	7257 Yoshiya	6.3	16.81	3.33	128	0.6	37°03'11'' 51°05'07''	25	0.9	UCAC4 341-128218	13.53	18 <sup>h</sup> 15 <sup>m</sup> 33.923 <sup>s</sup> -21°57'12.112''	15.9	160	177.1	-14.0	126.5	0.7	18.6	84
2017/06/27 20:34:03	1138 Attica	17.4	16.20	2.50	36	1.7	36°36'31'' 50°17'49''	40	5.4	UCAC4 372-172582	13.81	20 <sup>h</sup> 17 <sup>m</sup> 50.716 <sup>s</sup> -15°38'01.986''	14.1	137	152.8	-15.5	155.4	-3.5	18.7	124
2017/06/27 21:08:32	50847 2000 FG46	6.3	18.62	6.41	60	0.5	36°38'54'' 49°33'29''	155	1.6	UCAC4 317-90555	12.21	16 <sup>h</sup> 42 <sup>m</sup> 37.707 <sup>s</sup> -26°47'49.972''	11.4	197	156.2	-16.6	105.0	-8.4	19.0	144
2017/06/27 23:29:34	16039 Zeglin	6.6	17.35	5.03	106	0.6	37°19'55'' 49°22'50''	135	1.5	UCAC4 324-164807	12.33	18 <sup>h</sup> 25 <sup>m</sup> 29.139 <sup>s</sup> -25°20'09.193''	10.6	206	177.8	-12.7	126.6	-23.8	19.9	116
2017/06/28 00:40:24	55188 2001 QF292	6.0	18.33	4.36	148	0.6	37°42'54'' 49°05'34''	136	1.0	UCAC4 345-191106	13.99	19 <sup>h</sup> 42 <sup>m</sup> 28.127 <sup>s</sup> -21°03'13.285''	15.1	206	162.5	-6.3	144.0	-27.6	20.3	129

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 11		LinOccult 2.3.0			
Date Time (UTC)	Asteroid			Nearest point			Star				Sun			Moon						
	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Dist	Alt	Phase (%)	$\sigma_{km}$
2017/06/28 18:44:09	3022 Dobermann	5.2	17.18	3.30	78	0.6	35°45'41" 50°39'49"	331	1.6	UCAC4 542-60920	13.93	17 <sup>h</sup> 11 <sup>m</sup> 31.859 <sup>s</sup> 18°20'51.728"	53.4	141	134.1	-7.4	92.6	18.3	27.4	71
2017/06/28 18:51:36	66774 1999 TD220	5.5	18.02	4.24	175	0.5	35°46'34" 48°30'26"	192	0.6	UCAC4 442-105306	13.80	19°30 <sup>m</sup> 37.070 <sup>s</sup> -1°37'13.078"	19.6	118	153.9	-8.2	130.3	17.1	27.4	117
2017/06/28 19:37:25	45572 2000 CR71	7.6	17.53	7.88	185	0.6	36°49'58" 51°40'20"	12	0.7	UCAC4 405-95757	9.65	18 <sup>h</sup> 53 <sup>m</sup> 12.970 <sup>s</sup> -9°01'30.756"	23.4	141	164.8	-12.2	121.6	9.9	27.7	111
2017/06/28 20:02:16	3760 Poutanen	10.5	15.93	2.53	105	1.7	34°53'34" 50°21'39"	289	2.3	UCAC4 422-61094	13.51	15 <sup>h</sup> 12 <sup>m</sup> 23.777 <sup>s</sup> -5°37'29.426"	30.1	210	129.2	-13.9	66.6	6.0	28.0	89
2017/06/28 20:44:32	28721 2000 GW107	6.9	16.81	4.61	208	0.7	36°14'24" 48°10'33"	181	0.3	UNKNOWN UN- KNOWN	12.21	18 <sup>h</sup> 32 <sup>m</sup> 40.938 <sup>s</sup> 0°43'03.375"	39.5	162	156.0	-16.0	114.7	-0.6	28.2	101
2017/06/28 21:06:41	79904 1999 BO13	5.5	19.47	5.54	130	0.5	37°55'44" 49°33'25"	115	1.0	UCAC4 448-140841	13.94	23 <sup>h</sup> 50 <sup>m</sup> 26.457 <sup>s</sup> 0° - 25°58.795"	1.3	92	99.5	-16.6	163.6	-4.0	28.4	142
2017/06/28 23:23:00	15521 1999 XH133	19.1	18.29	4.32	149	1.2	38°19'18" 49°46'13"	102	2.4	UCAC4 273-195091	13.99	19 <sup>h</sup> 16 <sup>m</sup> 07.523 <sup>s</sup> -35°32'55.352"	3.4	192	164.3	-13.2	122.6	-22.1	29.3	271
2017/06/29 17:48:21	79997 1999 FW22	7.6	17.55	4.80	74	1.6	35°19'15" 49°49'14"	250	2.0	UCAC4 275-73597	12.76	14 <sup>h</sup> 30 <sup>m</sup> 21.094 <sup>s</sup> -35°10'12.557"	4.8	183	126.2	-1.1	57.5	30.3	36.8	129
2017/06/29 18:53:45	7179 Gassendi	8.3	17.85	3.93	91	0.7	35°44'53" 49°18'23"	205	2.0	UCAC4 344-87369	13.95	17 <sup>h</sup> 02 <sup>m</sup> 54.845 <sup>s</sup> -21°21'54.671"	17.0	163	158.7	-8.4	83.5	20.9	37.4	127
2017/06/29 19:59:32	4189 Sayany	6.6	15.79	3.38	73	1.2	36°30'16" 50°41'10"	12	2.1	UCAC4 397-118036	12.46	19 <sup>h</sup> 43 <sup>m</sup> 07.180 <sup>s</sup> -10°46'01.006"	19.3	136	159.6	-13.8	120.8	10.7	37.8	60
2017/06/29 20:28:13	54372 2000 KN53	6.6	18.37	4.72	119	0.6	35°10'42" 50°51'02"	318	1.3	UCAC4 333-86798	13.66	16 <sup>h</sup> 45 <sup>m</sup> 09.884 <sup>s</sup> -23°24'33.177"	16.1	190	154.8	-15.4	78.8	6.2	38.1	152
2017/06/29 21:04:33	49564 1999 CN103	5.2	17.14	3.83	184	0.5	37°43'06" 51°25'30"	34	0.4	UCAC4 388-93871	13.34	18 <sup>h</sup> 19 <sup>m</sup> 53.581 <sup>s</sup> -12°34'28.098"	27.4	175	168.8	-16.6	99.9	0.5	38.3	97
2017/06/29 21:59:26	16995 1999 CX14	5.0	16.33	4.80	203	0.6	37°22'39" 48°22'06"	157	0.0	UCAC4 289-177828	11.55	18 <sup>h</sup> 25 <sup>m</sup> 27.832 <sup>s</sup> -32°20'41.491"	7.4	187	170.5	-16.8	100.8	-8.0	38.7	70
2017/06/29 23:09:32	19727 Allen	7.9	15.67	3.92	3	0.8	36°19'39" 50°02'51"	90	4.4	UCAC4 400-110330	11.78	19 <sup>h</sup> 07 <sup>m</sup> 03.505 <sup>s</sup> -10°02'15.813"	28.6	197	164.9	-14.1	110.2	-18.2	39.2	72
2017/06/30 18:51:47	210 Isabella	86.7	13.74	1.52	111	7.9	37°20'19" 50°47'20"	42	18.8	UCAC4 305-113021	12.53	17 <sup>h</sup> 05 <sup>m</sup> 19.345 <sup>s</sup> -29°04'33.726"	9.4	164	158.2	-8.3	72.6	24.3	47.6	101
2017/06/30 19:00:50	23978 1999 JF21	7.6	16.35	4.55	141	0.7	37°13'10" 51°10'15"	28	0.9	UCAC4 376-132591	11.81	18 <sup>h</sup> 37 <sup>m</sup> 41.263 <sup>s</sup> -14°55'03.342"	16.7	141	171.8	-9.2	92.6	23.1	47.6	83
2017/06/30 19:31:57	20031 1992 OO	6.6	15.98	2.77	52	0.7	36°45'28" 49°41'36"	139	3.0	UCAC4 391-130057	13.30	21 <sup>h</sup> 12 <sup>m</sup> 17.437 <sup>s</sup> -11°50'08.333"	3.5	113	141.9	-11.9	129.9	18.6	47.9	65
2017/06/30 19:38:07	33116 1998 BO12	6.0	15.99	6.34	92	1.0	37°25'19" 50°26'19"	62	1.3	UCAC4 355-194548	9.66	20 <sup>h</sup> 23 <sup>m</sup> 02.459 <sup>s</sup> -19°00'43.436"	5.3	128	155.4	-12.3	117.0	17.7	47.9	61
2017/06/30 21:07:19	55761 1992 CM2	5.5	19.50	5.58	119	0.7	37°07'23" 50°58'13"	30	1.0	UCAC4 450-134618	13.93	22 <sup>h</sup> 01 <sup>m</sup> 04.623 <sup>s</sup> 0° - 8°52.457"	19.8	116	125.9	-16.7	142.4	3.9	48.5	164
2017/06/30 21:08:06	13486 1981 UT29	9.5	16.63	3.70	27	0.9	36°18'30" 50°17'13"	3	3.5	UCAC4 401-105587	12.97	19 <sup>h</sup> 08 <sup>m</sup> 33.537 <sup>s</sup> -9°50'14.507"	28.9	163	165.0	-16.7	99.1	3.8	48.5	105

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 12		LinOccult 2.3.0			
Asteroid			Nearest point			Star				Sun			Moon							
Date Time (UTC)	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Dist	Alt	Phase (%)	$\sigma_{km}$
2017/06/30 22:10:58	29867 FA55	1999 6.3	17.76	4.15	108	0.5	36°24'20'' 49°04'59''	175	1.4 2.4	UCAC4 430-88423	13.64	18 <sup>h</sup> 58 <sup>m</sup> 00.791 <sup>s</sup> −4°10'03.893''	35.9	185	160.5	-16.6	96.0	-6.1	49.0	106