

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 2.3.1
Author: Plekhanov Andrey andyplekhanov@gmail.com
Events number: 517

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/ time.			Table 1		Page 1		LinOccult 2.3.1			
		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 (%)	σ_{km}
2018/09/30 23:54:07	8022 Scottcross-field	5.5	18.05	5.10	206	0.8	38°02'60'' 48°35'50''	142	0.2 2.4	UCAC4 585-14218	12.96	5 ^h 03 ^m 00.078 ^s 26°55'37.357''	56.9	122	110.2	-33.4	8.0	49.3	65.7	92
2018/10/01 00:30:47	5221 Fab-ribudweis	10.5	18.71	6.12	234	1.0	37°22'05'' 48°04'07''	161	1.0 2.4	UCAC4 574-23966	12.59	6 ^h 07 ^m 53.383 ^s 24°39'56.475''	51.2	116	95.7	-28.7	13.0	53.6	65.4	174
2018/10/01 00:55:49	1287 Lorcía	27.0	16.69	3.95	142	1.0	36°02'24'' 48°47'06''	187	4.6 6.8	UCAC4 511-42626	12.77	7 ^h 47 ^m 25.512 ^s 12°02'49.280''	30.3	109	71.2	-25.3	36.8	56.0	65.2	158
2018/10/01 01:17:13	11078 1992 WH2	11.5	18.00	4.33	203	1.2	37°02'57'' 51°48'33''	16	1.2 3.0	UCAC4 558-19499	13.69	5 ^h 44 ^m 25.953 ^s 21°24'03.201''	57.2	143	101.2	-22.2	6.4	57.7	65.1	153
2018/10/01 02:26:44	3365 Recogne	11.0	16.48	5.93	223	1.4	37°26'11'' 48°11'20''	158	0.6 3.8	TYC 643-126-1	10.56	2 ^h 43 ^m 37.132 ^s 11°32'56.873''	38.6	237	145.3	-11.5	38.7	59.8	64.5	115
2018/10/01 15:42:06	10124 Hemse	5.8	15.91	2.64	40	1.0	35°44'36'' 49°59'00''	260	2.9 3.4	UCAC4 544-3813	13.37	2 ^h 03 ^m 02.982 ^s 18°44'32.047''	2.9	64	152.4	-5.5	53.8	-18.6	58.7	67
2018/10/01 16:59:22	21688 1999 RK37	6.0	15.96	2.21	140	0.5	35°29'52'' 51°12'14''	336	0.3 4.0	UCAC4 702-6231	13.90	0 ^h 50 ^m 52.822 ^s 50°17'12.946''	46.2	61	132.7	-17.8	65.7	-13.9	58.0	60
2018/10/01 17:39:25	28292 1999 CX54	10.0	17.86	5.79	146	0.5	34°20'26'' 49°40'16''	253	1.7 2.8	UCAC4 288-181490	12.08	18 ^h 20 ^m 43.568 ^s -32°35'17.828''	1.4	210	86.2	-23.8	166.9	-10.3	57.7	143
2018/10/01 17:48:23	979 Ilsewa	36.8	13.48	0.56	125	3.3	37°48'60'' 49°31'06''	118	6.6 15.4	UCAC4 517-483	13.92	0 ^h 16 ^m 29.990 ^s 13°22'53.913''	35.3	114	169.3	-25.1	81.2	-9.4	57.6	95
2018/10/01 18:59:43	5871 Bobbell	5.2	15.94	3.77	217	0.6	36°08'28'' 51°59'38''	357	0.0 3.4	UCAC4 679-4179	12.21	0 ^h 44 ^m 29.878 ^s 45°42'58.184''	63.5	84	137.4	-34.4	67.9	-1.1	57.1	62
2018/10/01 19:43:22	14726 2000 DD3	10.0	18.00	5.01	239	3.4	38°32'44'' 48°29'08''	137	0.7 2.8	UCAC4 330-201421	13.00	20 ^h 34 ^m 46.285 ^s -24°01'54.089''	10.1	211	116.5	-38.8	144.7	4.7	56.9	145
2018/10/01 19:44:05	15033 1998 VY29	25.1	18.82	5.64	55	2.3	35°35'58'' 49°49'40''	244	2.9 2.9	UCAC4 366-139610	13.19	18 ^h 37 ^m 14.945 ^s -16°51'27.353''	3.0	239	90.6	-38.9	171.0	4.8	56.8	345
2018/10/01 21:13:37	10048 Gron-bech	10.5	17.22	3.85	127	1.5	34°30'14'' 50°03'28''	271	2.0 3.1	UCAC4 357-198224	13.40	21 ^h 46 ^m 26.442 ^s -18°46'24.840''	13.3	217	133.9	-43.4	128.5	17.9	56.1	136
2018/10/01 21:58:14	51026 2000 GL111	5.8	18.66	5.06	212	0.6	34°31'49'' 51°35'24''	324	0.5 1.6	UCAC4 449-134849	13.61	22 ^h 17 ^m 42.741 ^s 0° -22°49.906''	28.3	229	146.5	-42.9	116.0	24.8	55.6	143
2018/10/01 22:16:56	15302 1992 TJ1	8.3	16.43	3.08	223	1.0	39°22'27'' 49°49'37''	96	0.1 3.9	UCAC4 428-3520	13.42	2 ^h 48 ^m 12.134 ^s -4°30'07.785''	32.7	155	144.8	-42.1	55.5	27.7	55.5	86
2018/10/01 22:30:08	51912 2001 QS69	7.2	17.81	5.46	195	0.7	35°53'30'' 51°46'50''	352	0.8 1.9	UCAC4 496-146675	12.36	22 ^h 53 ^m 03.613 ^s 9°05'14.076''	36.9	234	155.0	-41.4	104.4	29.8	55.4	151
2018/10/01 23:50:39	3774 Megumi	19.1	16.90	5.11	170	1.6	35°11'40'' 51°24'24''	333	2.7 4.3	UCAC4 599-29507	11.80	6 ^h 11 ^m 43.267 ^s 29°41'03.199''	48.7	101	95.9	-34.1	8.9	42.0	54.8	177
2018/10/01 23:57:23	270 Anahita	50.8	13.57	0.58	74	2.1	36°39'23'' 49°25'53''	159	13.9 16.8	UCAC4 553-41340	13.96	7 ^h 46 ^m 56.980 ^s 20°31'43.005''	28.1	91	73.6	-33.3	21.8	43.0	54.7	120
2018/10/02 00:23:26	5762 Wanke	5.2	15.89	3.98	94	0.7	35°48'18'' 50°50'17''	339	1.2 3.0	UCAC4 477-1125	11.94	0 ^h 47 ^m 41.686 ^s 5°16'55.980''	33.8	232	175.5	-30.0	80.5	46.7	54.5	70
2018/10/02 00:32:15	3974 Verveer	12.0	17.25	3.80	6	0.8	36°22'33'' 50°03'06''	86	3.8 3.8	UCAC4 624-29083	13.48	6 ^h 03 ^m 33.636 ^s 34°46'49.483''	60.0	107	97.6	-28.8	14.2	47.9	54.5	125

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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 (%)	σ_{km}	
2018/10/02 00:39:50	5070 Arai	15.1	17.34	3.82	173	1.5	37°38'09" 48°45'43"	146	2.1 3.0	UCAC4 602-24819	13.56	5 ^h 49 ^m 00.886 ^s 30°12'19.708"	60.0	120	100.8	-27.8	11.1	48.9	54.4	199	
2018/10/02 00:56:28	1523 Piek- samaki	11.5	15.88	2.57	34	2.4	36°25'35" 50°20'05"	17	5.1 5.5	UCAC4 572-6193	13.42	2 ^h 54 ^m 43.142 ^s 24°19'20.324"	61.2	214	139.6	-25.5	46.4	51.1	54.3	83	
2018/10/02 01:14:23	1435 Garlanda	17.6	17.32	6.28	128	0.7	36°10'07" 51°11'27"	356	3.2 6.6	UCAC4 541-40490	11.05	7 ^h 22 ^m 37.798 ^s 18°05'33.296"	42.1	115	78.9	-22.9	15.7	53.3	54.1	106	
2018/10/02 01:41:29	6669 Obi	7.9	17.62	4.01	72	0.8	35°52'28" 50°38'01"	336	2.4 3.0	UCAC4 578-22249	13.64	6 ^h 01 ^m 27.034 ^s 25°28'26.353"	62.0	144	98.2	-18.8	6.0	56.2	53.9	105	
2018/10/02 02:09:07	32566 2001 QC70	6.3	18.97	5.04	160	0.5	37°17'25" 51°20'20"	27	0.9 1.8	UCAC4 522-18067	13.94	5 ^h 56 ^m 12.359 ^s 14°14'27.534"	53.6	164	99.4	-14.5	8.6	58.6	53.7	143	
2018/10/02 03:00:11	76801 2000 PF24	9.5	18.28	8.23	24	0.9	36°00'42" 49°55'09"	234	2.5 2.5	UCAC4 618-8213	10.05	2 ^h 49 ^m 58.543 ^s 33°30'44.513"	50.4	265	135.9	-6.3	48.1	61.0	53.3	151	
2018/10/02 15:08:23	16394 1981 QD4	7.9	17.86	5.20	82	0.5	37°24'38" 49°53'56"	102	2.1 2.6	UCAC4 316-228773	12.67	19 ^h 21 ^m 21.332 ^s -26°57'28.014"	11.9	166	99.0	-0.4	170.9	-18.7	47.6	120	
2018/10/02 16:07:54	64588 2001 XX3	5.8	16.53	3.85	124	3.8	35°07'33" 49°13'48"	222	0.9 2.7	UCAC4 531-137901	12.71	20 ^h 59 ^m 04.755 ^s 16°08'16.640"	50.7	140	125.8	-10.0	132.0	-18.9	46.8	86	
2018/10/02 16:49:13	24171 1999 XE1	6.3	18.26	5.77	215	0.7	35°48'25" 48°08'31"	189	0.4 2.1	UCAC4 365-178472	12.50	19 ^h 45 ^m 50.351 ^s -17°06'22.436"	22.9	184	106.0	-16.5	167.6	-17.7	46.8	118	
2018/10/02 18:12:15	350198 2012 AL14	7.2	21.23	7.24	246	1.0	33°52'50" 51°39'09"	316	0.5 0.5	UCAC4 358-188466	13.99	19 ^h 16 ^m 24.703 ^s -18°28'39.254"	16.1	211	98.9	-28.8	175.2	-12.3	46.2	556	
2018/10/02 18:40:32	9241 Ros- franklin	11.5	17.82	5.25	125	0.6	36°43'27" 48°57'51"	165	2.1 2.9	UCAC4 343-130295	12.58	18 ^h 10 ^m 17.807 ^s -21°31'24.352"	3.4	230	83.1	-32.5	168.3	-9.7	45.9	159	
2018/10/02 18:49:29	267099 1999 XG227	8.3	20.74	7.29	26	1.5	36°04'13" 50°13'55"	323	0.6 0.6	UCAC4 348-183289	13.46	19 ^h 43 ^m 08.777 ^s -20°30'14.133"	13.3	213	104.8	-33.6	170.0	-8.8	45.9	527	
2018/10/02 19:16:13	2165 Young	18.2	16.02	2.49	62	2.2	35°45'15" 50°29'27"	322	5.4 6.2	UCAC4 570-16294	13.65	5 ^h 19 ^m 09.718 ^s 23°51'34.712"	10.2	65	108.6	-36.6	24.0	-5.9	45.6	117	
2018/10/02 19:43:49	28285 1999 CP39	5.2	19.32	6.24	58	0.7	36°18'14" 50°34'08"	1	1.3 1.5	UCAC4 321-222021	13.08	19 ^h 50 ^m 40.416 ^s -25°50'42.788"	3.9	220	105.4	-39.3	168.0	-2.6	45.5	143	
2018/10/02 20:10:25	34783 2001 RB75	5.8	17.61	4.18	236	0.5	38°06'14" 48°17'45"	146	0.2 2.0	UCAC4 477-1099	13.46	0 ^h 46 ^m 42.724 ^s 5°16'10.442"	42.0	151	176.5	-41.3	92.2	0.8	45.2	116	
2018/10/02 22:14:44	1413 Roucarie	21.4	16.66	3.18	253	4.4	34°30'54" 52°01'30"	330	1.3 6.0	UCAC4 398-132292	13.54	20 ^h 56 ^m 21.864 ^s -10°28'48.750"	5.9	246	123.8	-42.6	152.5	18.5	44.1	143	
2018/10/03 00:24:00	8276 Shigei	6.3	17.63	7.35	42	0.7	36°31'06" 49°42'04"	157	2.4 2.6	TYC 5238- 1284-1	10.28	22 ^h 57 ^m 09.889 ^s -4°27'07.682"	9.4	251	154.2	-30.2	123.8	38.3	43.1	97	
2018/10/03 00:24:56	118624 2000 HR24	8.3	20.95	10.94	189	0.8	35°01'44" 48°33'21"	208	0.9 1.0	UCAC4 516-21853	10.01	6 ^h 11 ^m 31.690 ^s 13°07'28.608"	41.6	126	96.5	-30.1	17.1	38.5	43.1	328	
2018/10/03 01:21:42	10711 Pskov	8.7	15.34	3.37	89	1.0	36°20'49" 50°50'41"	3	2.4 3.6	UCAC4 433-37	12.02	0 ^h 01 ^m 19.477 ^s -3°27'59.227"	11.2	251	168.9	-22.0	109.0	46.7	42.7	98	
2018/10/03 03:05:17	6783 Gulyaev	8.3	17.23	3.73	104	1.7	37°41'06" 49°48'08"	105	1.9 3.1	UCAC4 587-10782	13.53	4 ^h 05 ^m 36.207 ^s 27°13'43.644"	56.2	240	124.7	-5.8	44.9	58.3	42.0	107	

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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 (%)	σ_{km}	
2018/10/03 15:18:08	22014 1999 XQ96	31.6	18.25	5.04	265	3.0	37°52'07" 52°12'53"	25	2.7	UCAC4 422-91401	13.22	18 ^h 46 ^m 03.571 ^s −5°37'53.940"	34.4	176	91.8	-2.3	158.2	-17.6	36.2	345	
2018/10/03 17:00:16	2478 Tokai	12.6	16.49	2.67	200	1.2	36°29'06" 48°15'05"	176	0.7	UCAC4 369-172026	13.91	19 ^h 38 ^m 37.726 ^s −16°19'28.824"	23.3	189	103.5	-18.6	174.3	-19.8	35.4	100	
2018/10/03 17:34:06	107004 YC112	10.0	20.75	11.64	142	0.8	37°33'19" 49°04'22"	140	0.9	TYC 6866-630-1	9.11	18 ^h 41 ^m 46.248 ^s −26°25'50.765"	8.6	208	89.2	-23.7	161.4	-19.1	35.2	426	
2018/10/03 17:43:34	82040 SZ189	7.6	18.36	5.38	146	0.5	34°52'18" 51°00'24"	317	1.2	UCAC4 561-3	12.99	0 ^h 00 ^m 03.632 ^s 22°10'20.730"	45.1	111	159.7	-25.1	107.4	-18.8	35.1	158	
2018/10/03 18:21:45	9067 Katsuno	11.5	16.59	3.44	6	1.9	36°19'22" 50°05'33"	27	4.3	UCAC4 558-6462	13.20	3 ^h 12 ^m 54.974 ^s 21°35'36.262"	20.1	80	138.4	-30.4	66.4	-16.9	34.9	106	
2018/10/03 18:42:17	55761 CM2	5.5	18.35	5.13	243	0.7	39°40'59" 50°00'08"	91	0.4	UCAC4 660-30639	13.23	5 ^h 04 ^m 58.916 ^s 41°50'41.627"	21.8	50	109.8	-33.1	43.0	-15.5	34.6	142	
2018/10/03 19:53:17	220 Stephania	31.1	14.72	1.83	265	1.5	36°49'34" 47°41'47"	172	0.1	UCAC4 373-139512	13.11	18 ^h 38 ^m 22.673 ^s −15°33'51.345"	1.8	243	89.0	-40.5	159.2	-9.2	34.1	79	
2018/10/03 20:21:19	2660 Wasser- man	10.3	17.47	4.88	190	0.8	36°43'36" 51°43'59"	10	1.2	UCAC4 515-23394	12.61	6 ^h 17 ^m 22.321 ^s 12°48'17.738"	3.3	74	95.9	-42.4	26.9	-6.1	33.8	139	
2018/10/03 20:37:28	6164 Ger- hardmuller	6.6	18.10	6.52	90	0.6	37°11'12" 49°28'55"	134	1.7	UCAC4 594-29379	11.58	6 ^h 20 ^m 52.182 ^s 28°46'50.934"	17.4	66	95.7	-43.2	25.5	-4.1	33.7	108	
2018/10/03 21:20:52	97592 ER34	2000	18.84	5.62	53	1.1	35°37'38" 50°15'54"	297	1.3	UCAC4 332-212087	13.22	22 ^h 22 ^m 43.798 ^s −23°46'55.035"	10.6	211	136.8	-44.2	148.7	1.4	33.3	153	
2018/10/03 21:46:43	4460 Bihoro	39.9	15.99	3.47	140	2.7	34°19'30" 50°00'50"	268	6.9	UCAC4 716-43163	12.57	6 ^h 28 ^m 07.425 ^s 53°00'51.808"	41.9	53	94.8	-44.0	38.5	4.9	33.2	138	
2018/10/03 22:06:13	74549 JU80	5.2	19.59	7.28	182	0.5	34°06'50" 50°55'03"	302	0.7	UCAC4 447-4349	12.31	3 ^h 18 ^m 39.291 ^s 0° − 38'03.034"	33.6	144	139.6	-43.3	74.0	7.7	33.1	168	
2018/10/03 22:53:19	16368 Citta di Alba	9.5	17.50	5.05	178	0.8	36°34'42" 51°38'25"	7	1.1	UCAC4 587-4090	12.47	1 ^h 47 ^m 06.647 ^s 27°19'53.184"	67.2	192	151.5	-40.4	86.2	14.5	32.7	130	
2018/10/03 23:04:44	3501 Olegiya	20.8	17.94	5.50	30	0.7	36°02'12" 50°15'55"	324	4.4	UCAC4 515-49559	12.45	9 ^h 07 ^m 22.215 ^s 12°49'12.604"	2.4	73	55.1	-39.5	14.9	16.3	32.6	187	
2018/10/03 23:25:45	3912 Troja	7.9	17.59	4.78	106	0.5	35°29'01" 50°50'52"	327	1.8	UCAC4 577-28545	12.82	6 ^h 25 ^m 32.249 ^s 25°14'05.225"	40.7	99	94.7	-37.4	25.4	19.5	32.5	104	
2018/10/04 01:02:25	10262 Samoilov	11.5	17.47	5.95	129	0.6	35°03'45" 50°54'04"	317	2.2	UCAC4 615-39344	11.53	7 ^h 07 ^m 03.340 ^s 32°48'16.536"	54.7	103	86.3	-25.2	20.5	34.3	31.8	135	
2018/10/04 01:41:25	7570 1989 CP	5.5	17.05	5.02	169	0.6	36°11'04" 51°33'49"	358	0.3	UCAC4 513-2689	12.04	1 ^h 39 ^m 59.027 ^s 12°31'32.932"	35.2	245	162.7	-19.3	94.8	40.1	31.4	82	
2018/10/04 15:02:26	4498 Shinkoyama	15.8	15.26	2.31	77	1.5	35°29'21" 50°30'57"	312	4.6	UCAC4 536-464	13.08	0 ^h 14 ^m 54.759 ^s 17°06'47.110"	13.9	80	165.7	-0.1	118.8	-14.1	25.7	103	
2018/10/04 15:52:08	2691 Sersic	7.6	17.34	5.01	195	0.5	37°53'06" 48°38'10"	144	0.4	UCAC4 341-190398	12.34	19 ^h 32 ^m 20.541 ^s −21°52'27.315"	18.0	175	100.2	-8.1	160.5	-18.2	25.3	97	
2018/10/04 15:59:47	1573 Vaisala	9.8	15.54	2.81	220	0.6	33°55'25" 48°48'32"	231	0.1	UCAC4 489-120231	12.81	19 ^h 59 ^m 39.820 ^s 7°36'14.720"	46.9	165	110.1	-9.4	150.9	-18.8	25.2	77	

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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 (%)	σ_{km}
2018/10/04 16:45:49	19728 XQ14	5.8	17.54	3.67	38	0.5	36°48'19" 49°58'44"	102	2.1	UCAC4 618-137223	13.91	22 ^h 39 ^m 53.207 ^s 33°29'30.954"	57.2	105	139.5	-16.7	122.8	-21.1	24.9	100
2018/10/04 16:51:36	13387 Irus	13.2	19.81	7.70	179	0.8	34°20'38" 51°04'43"	310	1.3	UCAC4 300-220172	12.12	18 ^h 25 ^m 15.326 ^s -30°05'34.779"	6.6	203	84.4	-17.6	143.7	-21.3	24.9	358
2018/10/04 17:07:00	51069 GV157	6.9	18.68	5.20	131	0.6	37°55'19" 49°31'19"	117	1.3	UCAC4 338-197044	13.49	19 ^h 44 ^m 53.547 ^s -22°24'29.215"	17.1	190	102.9	-20.0	162.6	-21.8	24.8	151
2018/10/04 17:36:41	222831 EE8	9.5	20.76	7.31	169	0.6	33°58'56" 49°43'15"	258	0.7	UCAC4 285-195100	13.45	18 ^h 38 ^m 45.211 ^s -33°03'59.807"	1.6	208	87.1	-24.5	145.3	-22.2	24.6	480
2018/10/04 17:46:12	25268 VP23	5.8	18.85	4.89	171	0.7	38°04'28" 51°04'54"	48	0.8	UCAC4 409-128104	13.97	20 ^h 07 ^m 11.034 ^s -8°13'30.923"	30.5	197	110.5	-25.9	164.1	-22.2	24.5	149
2018/10/04 18:12:54	24689 OH1	9.1	17.23	3.36	216	0.6	33°48'16" 48°58'09"	236	0.7	UCAC4 529-117384	13.92	19 ^h 54 ^m 44.085 ^s 15°45'46.935"	50.7	218	108.9	-29.6	142.7	-21.9	24.3	131
2018/10/04 18:26:38	65661 VB1	5.5	18.01	7.15	226	1.2	33°09'10" 49°47'48"	263	0.5	TYC 6951- 255-1	10.86	21 ^h 32 ^m 52.583 ^s -28°57'22.679"	11.1	183	123.8	-31.4	166.6	-21.6	24.1	152
2018/10/04 19:00:59	24709 Mitau	6.6	17.58	5.24	169	0.6	35°08'53" 51°23'17"	331	0.8	UCAC4 445-133	12.35	0 ^h 06 ^m 10.047 ^s -1°00'16.582"	34.3	147	169.7	-35.7	131.7	-20.2	24.0	115
2018/10/04 21:34:47	51811 OP5	5.2	18.73	5.72	5	0.8	36°20'46" 50°01'19"	124	1.4	UCAC4 453-122395	13.01	21 ^h 57 ^m 02.267 ^s 0°26'48.661"	27.9	232	138.7	-44.6	158.5	-6.3	22.8	148
2018/10/04 22:10:55	30882 Tomhenning	6.9	18.71	4.87	92	0.6	36°35'33" 50°51'09"	14	1.6	UCAC4 494-17701	13.85	6 ^h 00 ^m 35.789 ^s 8°38'01.024"	21.0	102	100.9	-43.5	46.8	-1.7	22.6	134
2018/10/05 01:03:57	14213 NX54	9.1	17.81	4.21	134	0.6	37°43'34" 50°49'18"	50	1.6	UCAC4 419-10884	13.63	5 ^h 53 ^m 01.057 ^s -6°14'22.757"	30.6	154	101.7	-25.2	55.5	23.7	21.5	126
2018/10/05 01:08:23	15077 Edvalge	7.9	18.48	5.04	95	0.5	36°33'40" 49°12'47"	168	1.8	UCAC4 573-31410	13.45	6 ^h 35 ^m 23.293 ^s 24°29'39.434"	54.7	124	93.5	-24.5	38.4	24.4	21.5	143
2018/10/05 01:33:12	16385 EQ32	5.0	18.18	4.69	234	1.4	33°51'60" 48°39'10"	228	0.1	UCAC4 560-12128	13.50	4 ^h 55 ^m 12.558 ^s 21°50'03.835"	62.0	179	116.5	-20.8	61.8	28.2	21.2	102
2018/10/05 01:39:08	134 Sophrosyne	123.3	13.89	0.74	71	2.9	37°00'27" 50°28'60"	47	25.7	UCAC4 509-50932	13.92	10 ^h 42 ^m 51.485 ^s 11°39'15.635"	11.5	86	33.9	-19.9	21.1	29.1	21.3	173
2018/10/05 16:25:22	30494 QD67	6.9	19.22	5.55	236	0.6	38°29'54" 48°29'56"	137	0.6	UCAC4 640-14152	13.67	3 ^h 29 ^m 26.747 ^s 37°58'35.233"	14.7	47	129.9	-13.8	85.6	-19.6	15.7	167
2018/10/05 17:12:16	36780 SL2	5.2	18.00	5.68	148	0.6	34°16'29" 50°23'21"	285	0.8	UCAC4 305-280516	12.33	20 ^h 47 ^m 57.149 ^s -29°00'37.709"	11.0	177	113.9	-21.1	158.7	-23.0	15.4	113
2018/10/05 18:16:49	13811 XP92	11.0	16.68	3.96	174	1.6	38°32'58" 49°29'42"	111	1.2	UCAC4 468-138382	12.75	22 ^h 16 ^m 02.339 ^s 3°29'43.786"	43.0	168	142.9	-30.5	161.5	-25.5	15.0	115
2018/10/05 18:49:46	53776 EO92	5.0	17.30	3.41	239	0.6	33°02'12" 49°35'27"	258	0.0	UCAC4 443-129514	13.93	21 ^h 22 ^m 01.776 ^s -1°34'49.988"	37.4	196	128.9	-34.7	164.1	-25.7	14.8	85
2018/10/05 19:31:18	1455 Mitchella	9.1	16.98	3.54	27	0.7	36°23'00" 50°17'04"	15	3.6	UCAC4 334-207561	13.48	19 ^h 46 ^m 07.706 ^s -23°15'55.987"	5.8	222	102.0	-39.3	146.8	-24.8	14.6	97
2018/10/05 21:55:08	29080 Astro- courier	10.5	17.11	3.25	222	1.1	33°40'22" 48°59'51"	238	0.7	UCAC4 657-23717	13.92	4 ^h 37 ^m 49.420 ^s 41°20'15.129"	54.8	85	116.8	-44.5	75.2	-13.7	13.8	124

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 5		LinOccult 2.3.1			
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 (%)	σ_{km}
2018/10/05 22:29:18	10909 XB10	7.2	17.05	4.94	242	0.6	37°41'07" 48°04'21"	156	0.2	UCAC4 389-1060	12.12	1 ^h 00 ^m 41.753 ^s −12°15'50.400"	26.8	194	162.4	-42.9	138.2	-9.6	13.6	100
2018/10/05 22:37:11	3177 Chilli- cothe	14.5	14.84	1.75	231	1.3	36°26'50" 52°07'01"	3	0.2	UCAC4 442-1689	13.33	1 ^h 18 ^m 58.230 ^s −1°47'33.244"	37.6	193	169.3	-42.3	131.6	-8.7	13.5	85
2018/10/06 01:52:00	79481 EO12	5.5	19.11	5.65	194	0.8	34°14'09" 48°55'18"	229	0.6	UCAC4 586-8916	13.47	3 ^h 40 ^m 10.769 ^s 27°08'56.689"	60.9	228	133.0	-18.2	91.9	19.6	12.5	143
2018/10/06 02:02:23	26895 MC	10.5	16.84	3.02	118	1.2	35°08'38" 49°17'30"	224	2.2	UCAC4 673-11194	13.89	2 ^h 11 ^m 43.070 ^s 44°31'56.339"	57.2	279	136.1	-16.6	101.6	21.2	12.4	118
2018/10/06 02:17:24	1497 Tampere	16.6	17.35	5.54	119	0.7	36°08'18" 51°06'37"	355	3.1	TYC 1375- 1425-1	11.81	7 ^h 59 ^m 58.311 ^s 20°57'13.809"	50.3	124	74.7	-14.2	33.8	23.5	12.3	163
2018/10/06 03:40:47	51327 LA19	11.0	17.56	3.82	207	0.8	34°47'11" 48°28'12"	211	1.1	UCAC4 581-1016	13.77	0 ^h 26 ^m 14.965 ^s 26°04'50.538"	13.9	294	158.3	-0.8	130.5	35.7	11.9	141
2018/10/06 15:27:47	202752 PX30	13.8	19.82	5.92	134	0.6	35°03'18" 50°57'57"	319	1.2	UCAC4 316-114722	13.90	17 ^h 33 ^m 22.629 ^s −26°48'52.430"	11.2	198	71.0	-4.9	104.7	-10.7	8.5	448
2018/10/06 15:44:35	5831 Dizzy	8.3	17.94	4.49	159	0.5	38°22'08" 49°34'17"	110	1.2	UCAC4 273-198007	13.47	19 ^h 34 ^m 04.743 ^s −35°27'22.440"	4.4	175	96.3	-7.6	129.4	-12.9	8.4	132
2018/10/06 16:00:28	8292 SU14	10.0	18.02	4.86	182	0.7	33°45'22" 49°51'44"	263	1.2	UCAC4 285-211717	13.17	19 ^h 33 ^m 08.732 ^s −33°11'43.357"	6.8	179	96.5	-10.1	129.7	-15.0	8.3	145
2018/10/06 16:59:28	22503 Thalpius	12.0	20.18	8.95	142	0.8	35°59'21" 48°47'27"	189	1.2	UCAC4 383-120125	11.23	18 ^h 41 ^m 19.904 ^s −13°35'22.473"	22.5	208	87.1	-19.5	118.7	-21.7	8.0	369
2018/10/06 17:09:08	33257 HS37	5.8	17.75	3.94	202	0.5	38°09'46" 48°42'31"	138	0.4	UCAC4 469-136440	13.84	23 ^h 56 ^m 52.056 ^s 3°36'08.800"	27.3	120	167.1	-21.0	158.7	-22.6	8.0	110
2018/10/06 17:56:16	10597 TR10	8.3	15.92	4.41	228	0.8	37°34'31" 51°55'30"	24	0.1	UCAC4 364-180986	11.53	20 ^h 51 ^m 17.807 ^s −17°19'55.237"	22.4	188	117.3	-28.0	149.3	-26.6	7.8	78
2018/10/06 18:04:34	49181 SU67	5.0	19.47	5.82	128	0.5	34°52'34" 50°46'15"	309	0.9	UCAC4 312-249237	13.65	19 ^h 56 ^m 52.889 ^s −27°36'20.475"	9.7	201	102.5	-29.2	134.9	-27.1	7.8	144
2018/10/06 19:11:33	28933 SZ22	6.3	19.45	6.05	236	1.3	37°48'24" 48°10'28"	152	0.5	UCAC4 552-16370	13.41	5 ^h 35 ^m 01.370 ^s 20°14'32.250"	6.7	66	109.1	-37.6	78.0	-29.9	7.4	160
2018/10/06 19:42:10	70411 SF3	7.6	16.14	2.97	181	0.7	33°45'04" 50°05'20"	271	0.4	UCAC4 726-35926	13.25	5 ^h 25 ^m 03.644 ^s 55°08'47.737"	37.0	46	106.1	-40.7	78.1	-30.1	7.3	89
2018/10/06 20:09:20	226033 FR18	6.3	20.94	9.67	168	0.7	37°45'48" 48°52'53"	141	0.6	UCAC4 348-182884	11.27	19 ^h 41 ^m 10.421 ^s −20°26'41.455"	2.6	233	100.3	-42.8	131.2	-29.7	7.3	419
2018/10/06 21:22:08	21691 RC42	5.2	16.50	2.94	2	0.6	36°19'01" 50°02'34"	103	2.9	UCAC4 510-1268	13.64	0 ^h 51 ^m 00.426 ^s 11°50'56.086"	52.0	179	173.3	-45.4	145.5	-26.1	6.9	73
2018/10/06 22:22:46	6952 Niccolo	8.3	19.42	5.69	187	0.6	35°39'21" 51°40'52"	346	1.1	UCAC4 531-35383	13.73	6 ^h 57 ^m 09.719 ^s 16°00'41.508"	20.7	89	89.5	-43.6	60.6	-20.6	6.6	184
2018/10/06 22:40:11	2447 Kron- stadt	8.7	17.24	6.06	188	0.6	35°58'13" 51°43'34"	353	0.7	UCAC4 517-30008	11.19	6 ^h 41 ^m 18.178 ^s 13°20'09.838"	24.0	98	93.1	-42.5	64.8	-18.7	6.6	107
2018/10/06 23:06:28	84 Klio	79.2	13.23	0.57	200	9.2	33°54'19" 51°00'57"	302	2.9	UCAC4 628-27961	13.64	5 ^h 49 ^m 03.908 ^s 35°35'11.237"	52.3	93	105.3	-40.3	76.0	-15.6	6.5	86

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 6		LinOccult 2.3.1			
Date Time (UTC)	Asteroid			Nearest point			Star					Sun			Moon			σ_{km}		
	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 (%)
2018/10/07 01:38:47	64795 XC207	6.3	18.48	4.96	56	1.6	36°09'30" 50°32'35"	351	1.7	UCAC4 497-10714	13.54	5 ^h 15 ^m 20.039 ^s 9°20'26.453"	49.5	177	114.1	-20.5	87.8	5.8	5.9	140
2018/10/07 02:18:59	32127 LK12	5.5	19.69	6.89	14	0.6	36°25'48" 50°08'11"	46	1.3	UCAC4 516-17848	12.80	5 ^h 55 ^m 51.977 ^s 13°11'06.531"	53.3	176	104.3	-14.2	77.9	11.9	5.7	165
2018/10/07 15:54:03	2000 Herschel	18.6	16.96	3.52	155	0.7	34°47'55" 51°04'03"	317	2.9	UCAC4 311-114795	13.48	17 ^h 16 ^m 16.343 ^s -27°59'44.193"	7.0	208	66.4	-9.5	86.5	-11.0	3.1	176
2018/10/07 16:33:50	14185 Ness	6.6	16.31	3.96	120	0.9	36°59'28" 49°04'05"	155	1.0	UCAC4 534-4205	12.38	2 ^h 25 ^m 42.502 ^s 16°42'14.765"	9.3	75	154.5	-15.8	134.5	-16.6	3.0	76
2018/10/07 17:25:35	191102 EW14	9.1	20.79	7.37	241	0.6	38°17'58" 48°19'36"	143	0.8	UCAC4 331-180624	13.42	18 ^h 44 ^m 33.406 ^s -23°59'45.620"	10.5	210	86.0	-23.9	105.1	-23.2	2.9	365
2018/10/07 17:36:04	395 Delia	51.0	15.53	2.93	198	2.2	34°52'33" 51°35'03"	329	5.4	UCAC4 344-136202	12.68	18 ^h 20 ^m 37.040 ^s -21°15'12.897"	9.9	219	80.7	-25.4	99.4	-24.4	2.8	139
2018/10/07 18:36:32	2292 Seili	15.1	15.57	2.48	172	0.8	36°50'35" 51°33'12"	13	1.3	UCAC4 389-121461	13.21	19 ^h 29 ^m 03.777 ^s -12°20'46.933"	18.8	221	97.7	-33.8	115.1	-30.4	2.7	96
2018/10/07 18:47:14	25285 WB7	5.5	17.86	4.25	177	0.5	34°46'46" 51°19'06"	323	0.5	UCAC4 516-3179	13.63	1 ^h 54 ^m 33.270 ^s 13°02'23.014"	32.7	110	162.9	-35.2	144.3	-31.2	2.7	109
2018/10/07 18:53:08	264166 AA123	8.3	21.05	7.75	223	0.6	33°33'23" 51°02'28"	300	0.7	UCAC4 329-174818	13.31	18 ^h 52 ^m 50.185 ^s -24°16'28.659"	2.3	227	87.8	-35.9	106.2	-31.7	2.6	434
2018/10/07 19:22:48	944 Hidalgo	23.2	14.54	2.13	103	0.8	36°53'15" 50°53'27"	25	4.1	UCAC4 759-36934	12.58	6 ^h 42 ^m 54.783 ^s 61°37'02.837"	32.2	30	96.1	-39.2	79.5	-33.5	2.6	197
2018/10/07 21:06:50	3374 Namur	9.5	18.28	4.42	71	0.6	35°35'13" 50°30'29"	316	2.3	UCAC4 567-34637	13.88	6 ^h 58 ^m 56.379 ^s 23°13'43.784"	14.4	71	90.8	-45.7	73.9	-34.6	2.3	147
2018/10/07 21:47:43	10292 PM	5.8	18.83	6.72	17	0.5	36°27'46" 49°56'50"	132	1.9	UCAC4 586-31826	12.11	6 ^h 34 ^m 33.704 ^s 27°10'44.534"	27.4	79	96.6	-45.4	79.8	-32.7	2.2	122
2018/10/07 23:01:18	36307 JY65	6.3	17.81	5.81	197	0.7	36°50'59" 48°19'04"	168	0.4	UCAC4 509-17340	12.01	5 ^h 59 ^m 52.714 ^s 11°47'20.912"	33.1	113	104.1	-41.1	89.4	-26.6	2.0	105
2018/10/07 23:41:34	17573 PJ13	6.6	18.78	9.15	223	0.5	35°28'28" 51°58'59"	345	0.5	TYC 1340- 1733-1	9.63	6 ^h 31 ^m 14.946 ^s 21°48'22.903"	42.3	108	97.1	-37.0	81.8	-22.1	2.0	141
2018/10/08 01:06:13	5940 Felik- sobolev	13.8	16.41	10.01	69	1.6	36°38'58" 50°37'03"	22	4.8	HIP 14203	6.40	3 ^h 03 ^m 09.591 ^s 20°20'10.320"	55.1	221	145.2	-25.7	130.1	-10.8	1.8	60
2018/10/08 01:06:34	8767 Com- montern	5.2	18.96	5.42	204	0.5	35°58'49" 51°52'16"	354	0.5	UCAC4 564-21164	13.54	5 ^h 55 ^m 40.553 ^s 22°41'35.993"	58.9	144	105.5	-25.6	90.8	-10.7	1.8	132
2018/10/08 01:18:23	56938 RO65	7.2	17.90	4.60	12	0.6	36°18'03" 49°56'40"	175	2.4	UCAC4 540-4693	13.31	2 ^h 33 ^m 48.557 ^s 17°57'12.328"	48.1	233	152.5	-23.9	137.5	-9.0	1.8	119
2018/10/08 01:50:38	27217 CC154	8.7	18.53	5.24	109	0.5	36°16'26" 49°04'19"	180	1.8	UCAC4 553-37505	13.30	7 ^h 12 ^m 40.958 ^s 20°24'11.324"	53.4	134	87.5	-18.9	73.4	-4.3	1.7	151
2018/10/08 02:02:04	15779 Scot- troberts	7.2	16.15	3.07	167	2.0	38°10'33" 50°56'45"	53	0.4	UCAC4 731-26411	13.15	2 ^h 45 ^m 26.538 ^s 56°07'12.224"	64.3	300	124.8	-17.1	112.0	-2.5	1.7	82
2018/10/08 02:13:53	3328 Inter- posita	17.4	17.57	5.86	177	0.6	36°48'21" 48°29'43"	168	2.4	UCAC4 581-43112	11.71	8 ^h 55 ^m 04.941 ^s 26°03'52.964"	46.8	106	65.9	-15.2	51.3	-0.7	1.6	184

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 7		LinOccult 2.3.1			
		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 (%)	σ_{km}
2018/10/08 18:32:42	27135 1998 XB12	6.3	16.17	4.58	205	0.8	33°28'34" 49°43'52"	260	0.1	UCAC4 598-131111	11.60	21 ^h 36 ^m 36.005 ^s 29°27'14.409"	68.9	199	127.6	-33.7	126.3	-29.7	0.4	77
2018/10/08 19:10:03	26419 1999 XR95	7.6	18.18	4.40	5	0.9	36°19'31" 50°04'58"	35	2.4	UCAC4 416-139869	13.80	20 ^h 07 ^m 24.510 ^s -6°51'24.058"	23.8	223	106.9	-38.2	110.3	-33.7	0.3	125
2018/10/08 19:29:38	2126 Gerasi-movich	9.5	15.24	2.61	48	1.3	36°05'18" 50°27'29"	343	4.3	UCAC4 497-144722	12.74	23 ^h 44 ^m 37.297 ^s 9°14'58.481"	48.6	165	162.0	-40.3	162.0	-35.5	0.3	71
2018/10/08 20:43:41	84 Klio	79.2	13.21	0.67	162	10.1	34°03'05" 50°19'36"	281	6.7	UCAC4 629-27755	13.38	5 ^h 50 ^m 30.413 ^s 35°44'05.042"	30.7	70	106.8	-45.4	102.0	-39.9	0.3	86
2018/10/08 20:54:33	48300 Kronk	7.6	17.73	4.64	239	0.7	34°33'12" 51°53'44"	329	0.3	UCAC4 568-3688	13.10	1 ^h 46 ^m 44.463 ^s 23°28'35.479"	59.7	143	158.7	-45.8	152.9	-40.2	0.3	120
2018/10/08 21:05:26	57821 2001 WD44	5.5	17.87	6.58	170	0.5	34°42'49" 51°12'08"	319	0.7	UCAC4 424-2083	11.30	1 ^h 45 ^m 23.934 ^s -5°15'48.098"	33.1	161	163.3	-46.0	165.1	-40.4	0.3	139
2018/10/08 23:05:19	9165 Raup	6.3	16.21	2.54	184	0.5	34°12'39" 49°05'24"	234	0.0	UCAC4 647-16207	13.78	3 ^h 45 ^m 23.594 ^s 39°17'01.246"	74.5	127	129.5	-41.1	125.1	-35.9	0.2	58
2018/10/08 23:46:40	27541 2000 JU2	5.8	19.07	5.47	146	0.7	37°21'15" 48°56'00"	148	1.0	UCAC4 542-23027	13.60	6 ^h 08 ^m 49.565 ^s 18°20'07.033"	44.3	118	103.2	-36.7	101.5	-31.9	0.2	148
2018/10/09 00:28:57	2887 Krinov	8.7	15.65	3.30	9	0.9	36°24'59" 50°03'53"	78	4.7	UCAC4 433-885	12.41	0 ^h 41 ^m 29.542 ^s -3°33'02.264"	21.1	236	169.6	-31.2	173.9	-27.1	0.2	74
2018/10/09 00:55:22	1547 Nele	23.4	14.14	1.13	68	4.1	35°43'34" 50°32'49"	324	8.2	UCAC4 641-19113	13.48	4 ^h 37 ^m 52.969 ^s 38°11'48.618"	78.4	173	120.7	-27.5	117.6	-23.6	0.2	76
2018/10/09 01:21:31	33750 Dave-higgins	10.0	16.75	3.33	51	0.5	37°00'14" 50°02'43"	90	2.3	UCAC4 690-33345	13.47	4 ^h 55 ^m 46.921 ^s 47°52'49.525"	88.1	186	114.5	-23.6	111.0	-20.1	0.2	169
2018/10/09 01:56:39	4716 Urey	15.8	16.84	3.32	62	1.4	35°47'21" 50°30'06"	325	4.2	UCAC4 614-29482	13.57	6 ^h 03 ^m 19.716 ^s 32°40'17.775"	72.0	159	104.6	-18.2	102.7	-15.0	0.2	136
2018/10/09 02:18:25	667 Denise	81.3	14.43	1.07	253	4.5	38°49'00" 51°39'55"	45	4.2	UCAC4 428-21225	13.86	6 ^h 44 ^m 21.049 ^s -4°30'08.260"	34.6	165	92.7	-14.8	94.2	-11.8	0.2	134
2018/10/09 03:35:17	110065 2001 SU109	6.6	18.96	5.01	115	0.5	34°55'36" 50°35'59"	302	1.3	UCAC4 665-37455	13.96	5 ^h 24 ^m 29.052 ^s 42°59'05.033"	70.5	259	111.0	-2.4	109.1	-0.1	0.2	156
2018/10/09 15:39:59	47139 1999 GN9	9.5	18.32	5.83	118	1.0	34°50'14" 49°32'33"	242	1.8	UCAC4 325-217236	12.49	21 ^h 28 ^m 42.639 ^s -25°11'33.285"	9.5	150	119.9	-7.9	114.5	-1.1	0.5	163
2018/10/09 15:43:17	1910 Mikhailov	36.0	17.39	4.21	180	1.3	36°30'26" 51°39'23"	5	4.8	UCAC4 381-85035	13.20	17 ^h 31 ^m 45.808 ^s -13°49'18.762"	21.9	209	67.3	-8.4	60.1	-1.7	0.5	205
2018/10/09 18:24:14	8453 1981 EQ	8.3	18.80	5.37	195	1.0	34°55'22" 51°34'03"	330	1.0	UCAC4 596-10501	13.44	3 ^h 52 ^m 44.459 ^s 29°06'51.035"	23.4	72	133.3	-32.9	139.5	-26.4	0.7	156
2018/10/09 19:04:05	6129 Demokri-tos	15.6	18.26	4.54	111	3.0	37°05'07" 49°11'59"	149	3.3	UCAC4 593-11707	13.74	4 ^h 08 ^m 42.472 ^s 28°33'25.518"	26.7	77	130.2	-37.9	137.0	-31.9	0.7	134
2018/10/09 19:36:29	2765 Dinant	46.6	17.39	5.09	134	6.7	36°08'42" 48°50'58"	184	8.3	UCAC4 644-18721	12.31	4 ^h 26 ^m 53.768 ^s 38°37'02.462"	35.7	70	123.3	-41.3	129.2	-35.8	0.7	155
2018/10/09 20:06:07	4786 Tatian-ina	7.2	17.20	6.67	62	0.6	35°46'46" 50°29'59"	324	2.5	TYC 37-1219-1	10.54	2 ^h 07 ^m 17.426 ^s 0°52'42.713"	32.4	136	162.3	-43.8	172.1	-39.0	0.8	95

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.		Table 1		Page 8		LinOccult 2.3.1				
Date Time (UTC)	Asteroid			Nearest point			Star					Sun			Moon			σ_{km}		
	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Phase (%)			
2018/10/09 20:21:07	8664 Grigori- jrichters	5.5	18.56	4.60	141	1.0	36°44'39" 48°49'02"	167	0.9	UCAC4 523-14356	13.98	5 ^h 36 ^m 09.580 ^s 14°31'23.766"	14.9	85	111.8	-44.7	-40.5	0.8	108	
2018/10/09 20:32:22	8118 1996 WG3	8.3	18.34	5.01	179	0.9	36°18'49" 51°39'10"	1	1.0	UCAC4 514-18020	13.34	5 ^h 59 ^m 28.933 ^s 12°42'34.859"	11.6	84	106.1	-45.3	-41.4	0.8	134	
2018/10/09 22:32:56	4146 Rudolfnum	5.8	17.69	3.77	199	0.6	35°58'16" 51°49'18"	353	0.2	UCAC4 538-19888	13.96	5 ^h 50 ^m 04.782 ^s 17°27'35.624"	35.9	107	108.6	-44.0	-45.4	1.0	87	
2018/10/09 23:36:55	16038 1999 GD18	11.5	17.35	6.69	119	1.2	37°42'49" 49°30'10"	121	2.3	TYC 1876- 343-1	10.66	6 ^h 01 ^m 30.589 ^s 28°17'00.542"	52.1	109	106.0	-38.1	-42.2	1.1	126	
2018/10/10 00:56:55	50786 2000 FY19	6.6	17.80	4.79	133	0.5	36°43'08" 48°53'01"	167	1.2	UCAC4 422-1485	13.02	1 ^h 16 ^m 06.408 ^s -5°39'01.474"	19.6	234	167.3	-27.6	-34.1	1.2	134	
2018/10/10 01:53:03	68928 2002 NG33	5.5	18.73	4.78	42	1.6	36°23'42" 49°40'30"	169	1.4	UCAC4 601-18365	13.96	5 ^h 13 ^m 40.285 ^s 30°10'02.706"	70.1	192	116.3	-19.0	-26.8	1.3	147	
2018/10/10 15:45:43	9853 1991 AN2	9.1	16.19	3.11	16	2.6	36°30'28" 50°03'33"	85	4.2	UCAC4 340-203063	13.14	22 ^h 11 ^m 18.310 ^s -22°01'26.272"	9.4	142	129.1	-9.1	110.8	1.9	84	
2018/10/10 16:45:49	198 Ampella	57.2	12.28	0.52	136	3.1	35°30'21" 51°09'53"	336	8.2	UCAC4 380-144174	12.80	19 ^h 11 ^m 53.922 ^s -14°00'58.714"	23.9	200	90.5	-18.7	70.2	-7.4	3.2	89
2018/10/10 16:52:51	15871 1996 QX1	7.2	17.64	3.90	101	1.2	35°04'08" 50°31'15"	301	1.7	UCAC4 389-132357	13.77	20 ^h 44 ^m 21.338 ^s -12°17'50.364"	27.8	177	113.0	-19.8	92.7	-8.5	3.2	115
2018/10/10 17:51:36	137 Meliboea	145.4	12.82	1.02	69	7.7	36°04'35" 49°26'33"	193	40.6	UCAC4 411-116207	12.33	19 ^h 24 ^m 51.924 ^s -7°53'01.034"	25.8	216	94.4	-28.7	73.4	-17.8	3.3	114
2018/10/10 20:11:25	24641 Enver	6.3	18.08	4.79	163	1.5	35°26'01" 48°41'29"	202	0.7	UCAC4 648-25029	13.30	5 ^h 04 ^m 00.610 ^s 39°35'01.768"	36.6	70	117.1	-44.5	134.9	-38.2	3.7	108
2018/10/10 20:36:46	27486 2000 GQ95	7.9	17.70	4.96	76	0.9	36°30'33" 49°23'04"	168	2.2	UCAC4 566-6428	12.75	3 ^h 10 ^m 04.801 ^s 23°02'07.394"	47.4	113	145.5	-45.9	164.0	-41.3	3.8	116
2018/10/10 21:58:53	5379 Abehi- roshi	8.7	16.27	2.63	88	1.0	35°49'46" 50°47'11"	338	2.4	UCAC4 433-123007	13.74	23 ^h 57 ^m 31.116 ^s -3°30'36.564"	32.1	211	160.5	-46.2	138.1	-48.6	4.1	83
2018/10/10 22:20:45	5746 1991 CK	6.9	16.73	3.96	163	0.9	34°27'46" 50°56'23"	307	0.4	UCAC4 599-23399	12.80	5 ^h 45 ^m 45.494 ^s 29°47'25.221"	44.2	95	110.3	-45.1	132.0	-49.7	4.1	76
2018/10/10 23:22:22	16267 Mder- mott	5.2	19.57	10.12	153	0.9	36°34'38" 48°41'06"	172	0.8	TYC 1324- 2507-1	9.45	5 ^h 57 ^m 25.919 ^s 21°57'23.722"	46.4	114	107.9	-40.0	131.3	-50.1	4.3	148
2018/10/11 00:06:20	46538 1981 UC26	6.0	18.04	6.65	108	1.4	34°49'56" 49°46'47"	254	1.3	TYC 5812- 1327-1	11.39	22 ^h 40 ^m 55.251 ^s -9°36'35.315"	0.7	254	140.7	-34.8	116.8	-48.1	4.5	118
2018/10/11 00:20:47	2314 Field	6.0	17.82	3.98	227	1.0	38°29'07" 48°36'00"	136	0.1	UCAC4 584-18086	13.87	5 ^h 35 ^m 04.197 ^s 26°47'25.126"	61.2	135	112.9	-32.9	136.0	-47.1	4.5	92
2018/10/11 01:10:12	34812 2001 SB109	7.6	17.37	3.73	129	0.6	34°56'18" 50°49'21"	312	1.3	UCAC4 633-30571	13.68	5 ^h 58 ^m 28.458 ^s 36°29'17.419"	72.3	133	107.3	-25.9	129.0	-42.4	4.6	102
2018/10/11 15:23:01	22054 2000 AP21	19.1	19.04	7.44	258	6.9	38°21'55" 51°57'46"	35	1.6	UCAC4 415-137747	11.61	20 ^h 26 ^m 10.314 ^s -7°05'11.550"	30.6	158	108.7	-5.8	76.6	8.9	7.7	393
2018/10/11 16:05:59	46245 2001 HU20	6.3	18.74	5.75	71	0.5	36°05'35" 49°25'21"	191	1.4	UCAC4 402-118875	12.99	19 ^h 59 ^m 54.085 ^s -9°36'42.100"	30.5	178	101.8	-12.7	69.5	2.9	7.8	157

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.		Table 1		Page 9		LinOccult 2.3.1				
		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	Phase (%)	σ_{km}		
2018/10/11 16:28:40	2508 Alupka	7.9	16.19	5.21	28	2.4	36°38'27" 50°09'15"	65	3.7	UCAC4 421-141194	10.99	22 ^h 35 ^m 01.322 ^s -5°54'34.919"	26.5	140	140.0	-16.3	107.4	-0.4	8.0	81
2018/10/11 18:16:11	44549 BH13	8.7	19.89	6.70	222	0.8	34°59'27" 51°51'56"	335	0.9	UCAC4 356-189415	13.19	19 ^h 42 ^m 00.206 ^s -18°50'39.895"	14.5	214	95.9	-32.6	62.8	-17.0	8.3	238
2018/10/11 19:40:19	9091 Ishi-datakaki	5.0	18.15	4.49	19	3.7	36°16'52" 49°52'52"	181	2.2	UCAC4 551-12139	13.68	5 ^h 03 ^m 02.949 ^s 20°00'15.145"	19.0	81	121.6	-42.4	156.0	-30.1	8.9	89
2018/10/11 20:44:46	47676 CE71	8.3	17.03	4.88	169	1.0	35°24'26" 51°27'28"	338	1.1	UCAC4 503-149131	12.16	23 ^h 22 ^m 42.463 ^s 10°24'23.909"	48.1	206	154.0	-46.6	120.6	-39.5	8.9	123
2018/10/11 21:19:15	33894 KM30	6.6	18.00	4.98	47	0.6	36°09'34" 50°27'37"	349	1.9	UCAC4 466-3942	13.03	2 ^h 55 ^m 21.284 ^s 3°05'27.508"	37.8	145	152.8	-47.3	166.7	-44.0	9.0	128
2018/10/11 22:34:27	5239 Reiki	9.5	16.95	3.04	64	1.7	36°48'57" 49°35'25"	143	3.1	UCAC4 547-15523	13.98	5 ^h 29 ^m 48.018 ^s 19°12'20.953"	41.8	112	115.4	-44.6	150.9	-51.7	9.4	99
2018/10/11 22:37:13	14984 TN26	6.0	16.34	8.89	44	0.6	36°06'56" 49°40'16"	196	3.1	HIP 8887	7.45	1 ^h 54 ^m 24.711 ^s 10°21'39.736"	50.1	191	168.0	-44.4	156.4	-51.9	9.4	58
2018/10/11 23:10:23	700 Auravic-trix	15.4	15.49	1.94	196	1.6	37°14'50" 48°23'52"	159	0.9	UCAC4 548-24242	13.75	6 ^h 14 ^m 53.708 ^s 19°29'17.958"	40.7	110	104.8	-41.5	140.6	-53.7	9.5	100
2018/10/11 23:50:48	6472 Rosema	7.6	17.02	4.33	69	0.7	35°58'11" 50°38'17"	341	2.3	UCAC4 516-2757	12.71	1 ^h 39 ^m 47.071 ^s 13°01'38.695"	46.0	224	170.2	-37.1	152.6	-54.4	9.7	104
2018/10/12 00:09:37	45527 CN5	5.2	17.36	4.29	58	0.7	36°14'20" 50°33'52"	357	1.9	UCAC4 564-131765	13.09	22 ^h 49 ^m 43.156 ^s 22°43'28.879"	25.6	276	143.3	-34.7	112.8	-54.2	9.8	91
2018/10/12 01:17:14	5095 Es-calante	8.8	18.27	6.59	41	0.6	36°03'45" 49°42'17"	203	2.7	UCAC4 493-43657	11.69	7 ^h 23 ^m 41.505 ^s 8°24'51.808"	39.5	133	87.2	-25.1	123.9	-50.3	10.1	125
2018/10/12 01:21:59	2056 Nancy	11.5	13.77	1.88	222	1.7	36°42'25" 48°04'08"	172	0.0	UCAC4 501-1359	12.11	0 ^h 53 ^m 59.520 ^s 10°01'29.314"	24.4	256	175.5	-24.3	140.2	-49.9	10.1	56
2018/10/12 02:11:30	67779 UU81	8.7	17.39	3.99	20	0.6	36°28'45" 50°10'57"	42	2.8	UCAC4 587-35498	13.43	6 ^h 56 ^m 44.976 ^s 27°20'41.084"	65.0	149	95.8	-16.6	132.1	-44.6	10.3	122
2018/10/12 15:43:47	2695 Christa-bel	14.6	17.21	5.01	161	0.5	38°27'06" 49°39'14"	106	2.2	UCAC4 281-141592	12.22	17 ^h 56 ^m 07.510 ^s -33°56'33.257"	3.4	200	70.5	-9.5	30.1	9.6	14.1	154
2018/10/12 16:43:43	3788 Steyaert	13.2	17.26	3.88	30	0.5	36°09'55" 50°18'21"	343	3.5	UCAC4 349-131051	13.41	18 ^h 21 ^m 48.390 ^s -20°21'36.746"	13.9	212	76.1	-19.1	31.7	1.8	14.4	146
2018/10/12 16:53:07	2321 Luznice	17.7	17.73	4.04	184	1.0	34°05'45" 50°56'15"	302	2.3	UCAC4 299-231904	13.72	19 ^h 13 ^m 56.911 ^s -30°23'32.439"	7.3	199	87.0	-20.6	44.2	0.5	14.5	164
2018/10/12 18:02:10	23355 Elephenor	13.8	19.87	8.00	123	0.7	35°23'11" 50°59'29"	329	1.5	UCAC4 356-146093	11.87	18 ^h 29 ^m 53.803 ^s -18°52'07.081"	8.0	228	78.0	-31.0	32.9	-9.7	14.8	339
2018/10/12 20:25:45	47074 XV95	6.0	17.76	4.00	241	0.5	33°50'30" 51°33'37"	314	0.2	UCAC4 470-734	13.79	0 ^h 29 ^m 35.988 ^s 3°51'56.220"	43.9	175	169.1	-46.1	122.7	-32.0	15.6	114
2018/10/12 21:40:09	135361 TW118	5.2	18.33	4.69	76	1.0	35°15'46" 49°52'27"	255	1.3	UCAC4 659-28508	13.65	4 ^h 58 ^m 02.662 ^s 41°39'17.214"	53.8	83	119.5	-47.5	154.1	-43.0	15.9	135
2018/10/12 21:40:46	1946 Wal-raven	13.2	14.42	1.04	26	2.0	36°07'56" 49°50'06"	205	7.3	UCAC4 355-200652	13.91	21 ^h 56 ^m 24.137 ^s -19°09'44.052"	6.2	230	125.1	-47.5	79.2	-43.1	15.9	67

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.		Table 1		Page 10		LinOccult 2.3.1				
		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 (%)	σ_{km}
2018/10/12 23:56:29	10940 CE52	6.9	17.04	4.95	40	0.7	36°34'13" 49°44'23"	149	3.0	UCAC4 570-28834	12.10	6 ^h 27 ^m 52.160 ^s 23°49'48.757"	49.5	115	103.0	-36.7	150.6	-56.7	16.7	81
2018/10/13 01:41:38	15071 Hallerstein	7.9	17.07	3.28	66	0.5	36°00'03" 50°36'54"	342	2.6	UCAC4 589-35166	13.85	6 ^h 46 ^m 44.276 ^s 27°40'38.196"	63.8	141	99.0	-21.6	146.7	-55.3	17.2	93
2018/10/13 01:41:46	8772 Minutus	5.0	18.47	7.08	126	0.7	36°44'40" 48°57'31"	165	0.9	TYC 1878-1232-1	11.39	6 ^h 18 ^m 10.875 ^s 23°30'53.621"	62.3	158	105.3	-21.5	153.7	-55.3	17.2	99
2018/10/13 02:00:20	1100 Arnica	21.9	16.70	4.93	197	1.1	36°19'15" 48°16'47"	179	2.6	UCAC4 552-42882	11.79	8 ^h 12 ^m 57.239 ^s 20°19'26.403"	49.4	124	78.5	-18.6	127.3	-53.8	17.3	173
2018/10/13 03:17:54	77678 MH27	5.5	18.08	8.67	32	0.7	36°32'02" 50°17'21"	33	1.7	TYC 1785-1040-1	9.41	2°55 ^m 44.722 ^s 25°10'38.790"	35.9	267	149.6	-6.2	156.4	-45.1	17.8	126
2018/10/13 03:25:11	50806 FH28	5.5	18.75	6.06	70	0.6	37°10'50" 50°18'04"	66	1.4	UCAC4 515-16640	12.69	5 ^h 53 ^m 59.851 ^s 12°48'27.342"	49.3	212	110.6	-5.0	159.7	-44.1	17.8	139
2018/10/13 15:47:00	29970 KQ	5.2	19.47	6.26	156	0.6	37°48'58" 51°03'36"	44	0.8	UCAC4 402-122469	13.21	20 ^h 26 ^m 27.731 ^s -9°44'23.629"	29.5	167	106.3	-10.3	50.8	12.4	21.9	150
2018/10/13 15:53:43	23075 XV83	20.9	19.33	6.11	195	1.1	36°49'12" 48°19'58"	169	2.0	UCAC4 333-162340	13.23	18 ^h 23 ^m 01.409 ^s -23°28'21.257"	14.2	200	75.3	-11.4	20.0	11.7	21.9	350
2018/10/13 17:49:46	24882 RK30	15.8	19.68	6.74	141	1.0	38°09'49" 49°40'50"	107	1.8	UCAC4 314-228375	12.94	18 ^h 59 ^m 38.832 ^s -27°17'39.320"	4.6	216	83.2	-29.5	27.8	-2.5	22.6	328
2018/10/13 18:30:56	20052 FS27	5.5	18.56	4.73	147	1.0	34°59'36" 51°04'52"	321	0.8	UCAC4 545-18697	13.84	5 ^h 44 ^m 58.115 ^s 18°59'48.496"	2.4	63	113.6	-35.2	170.7	-8.4	23.0	110
2018/10/13 18:54:27	1760 Sandra	35.9	16.90	6.39	88	1.6	36°03'46" 49°16'07"	190	7.2	UCAC4 373-139087	10.51	18 ^h 37 ^m 58.846 ^s -15°32'11.498"	4.6	239	79.2	-38.2	22.3	-11.9	23.0	174
2018/10/13 18:58:06	18984 Olathe	8.7	17.98	5.39	108	0.7	37°04'10" 49°13'10"	149	1.8	UCAC4 608-5384	12.60	1 ^h 53 ^m 12.472 ^s 31°28'51.836"	51.9	102	154.6	-38.7	135.2	-12.5	23.0	141
2018/10/13 20:15:59	3174 Alcock	13.2	17.07	5.84	42	0.7	36°43'19" 50°18'03"	48	3.8	TYC 1910-1668-1	11.24	7 ^h 28 ^m 48.094 ^s 22°34'17.882"	5.4	61	89.8	-45.9	147.3	-24.5	23.5	132
2018/10/13 20:21:56	2050 Francis	9.6	17.70	5.24	110	2.0	36°21'42" 51°01'59"	3	2.1	UCAC4 542-15437	12.47	5 ^h 28 ^m 32.108 ^s 18°15'13.168"	21.5	87	117.6	-46.3	175.1	-25.5	23.4	119
2018/10/13 21:39:24	57115 OS87	5.5	18.36	4.46	61	1.4	36°14'26" 49°29'53"	183	1.3	UCAC4 686-26023	13.91	3 ^h 52 ^m 52.159 ^s 47°10'12.817"	67.1	84	128.3	-47.9	147.9	-37.5	23.9	152
2018/10/13 21:44:47	2287 Kalmykia	8.7	17.69	3.89	90	0.7	35°32'04" 50°41'46"	323	2.2	UCAC4 557-38102	13.83	7 ^h 10 ^m 54.529 ^s 21°20'23.884"	20.7	81	93.8	-47.7	152.2	-38.3	24.0	114
2018/10/13 23:51:30	10523 D'Haveloose	7.6	17.14	4.54	230	0.8	37°54'20" 48°16'35"	150	0.1	UCAC4 584-26945	12.62	6 ^h 16 ^m 07.871 ^s 26°47'43.343"	53.4	115	106.7	-37.6	164.6	-54.9	24.8	87
2018/10/14 15:19:56	97 Klotho	82.8	13.12	1.11	267	4.9	38°06'36" 52°09'03"	29	4.0	UCAC4 371-163912	12.50	19 ^h 13 ^m 04.591 ^s -15°49'43.889"	24.3	181	86.7	-6.3	20.2	17.0	30.4	140
2018/10/14 16:31:51	1097 Vicia	21.1	15.73	3.45	175	1.0	37°42'11" 48°46'20"	144	1.7	UCAC4 341-190760	12.33	19 ^h 34 ^m 02.272 ^s -21°59'52.216"	17.0	193	90.7	-17.8	23.6	11.4	30.8	96
2018/10/14 16:56:41	170 Maria	44.3	13.02	1.36	30	4.2	35°55'18" 50°10'59"	300	19.4	UCAC4 577-219	12.03	0 ^h 05 ^m 34.792 ^s 25°13'34.439"	45.9	106	155.8	-21.8	101.2	9.0	31.0	85

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 11		LinOccult 2.3.1			
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 (%)	σ_{km}
2018/10/14 19:20:38	55324 SH106	6.6	19.11	5.14	120	0.9	36°14'29" 48°57'56"	182	1.3	UCAC4 650-33183	13.98	5 ^h 39 ^m 23.765 ^s 39°59'41.084"	26.6	59	114.1	-41.6	160.2	-9.5	31.9	154
2018/10/14 19:21:53	10562 UB1	7.9	16.54	4.92	165	0.7	36°38'27" 51°30'39"	9	0.5	TYC 3348- 1565-1	11.63	4 ^h 56 ^m 08.338 ^s 48°22'06.178"	38.1	57	119.2	-41.7	149.5	-9.7	31.9	79
2018/10/14 19:27:50	4182 Locke	12.0	16.30	3.11	184	1.1	38°03'47" 48°51'57"	136	1.0	UCAC4 566-4290	13.25	2 ^h 10 ^m 54.190 ^s 23°03'51.339"	48.3	115	160.5	-42.3	127.3	-10.6	32.0	104
2018/10/14 19:44:17	6521 Pina	6.3	16.77	3.37	42	0.7	35°45'37" 50°12'28"	295	2.7	UCAC4 480-137630	13.45	23 ^h 50 ^m 00.718 ^s 5°56'41.932"	46.1	177	158.0	-43.9	89.8	-13.0	32.1	81
2018/10/14 21:56:30	3631 Sigyn	35.2	16.80	5.08	128	4.4	35°53'50" 48°55'30"	193	6.4	UCAC4 487-20297	11.73	6 ^h 17 ^m 54.015 ^s 7°21'02.542"	21.2	104	106.0	-47.7	166.2	-33.5	33.0	158
2018/10/14 23:22:28	37757 EG26	5.2	18.37	4.81	210	0.9	38°41'57" 48°59'47"	124	0.3	UCAC4 639-27287	13.57	5 ^h 39 ^m 24.237 ^s 37°43'49.738"	62.7	103	114.6	-41.2	162.0	-46.3	33.5	111
2018/10/14 23:26:13	894 Erda	36.1	14.05	2.84	244	4.1	37°27'53" 47°59'53"	160	1.1	UCAC4 447-136745	11.30	23 ^h 20 ^m 58.661 ^s 0° - 43'42.702"	17.6	247	149.3	-40.8	78.7	-46.8	33.5	110
2018/10/15 00:29:08	16621 FA84	5.2	18.80	5.80	21	1.0	36°32'60" 49°57'58"	116	1.7	UCAC4 590-22525	13.00	5 ^h 50 ^m 51.154 ^s 27°54'52.153"	63.1	137	113.3	-32.9	171.7	-54.7	33.9	120
2018/10/15 00:33:45	36192 TC89	5.5	19.18	6.07	164	0.6	35°45'06" 48°36'58"	193	0.8	UCAC4 576-9152	13.11	3 ^h 48 ^m 59.474 ^s 25°03'19.237"	63.8	203	140.5	-32.2	147.3	-55.2	33.9	137
2018/10/15 01:17:39	2670 Chu- vashia	20.9	16.53	2.81	174	1.3	36°09'14" 48°29'25"	183	2.8	UCAC4 573-40533	13.81	7 ^h 30 ^m 07.441 ^s 24°29'19.593"	53.9	122	91.0	-25.8	161.7	-59.1	34.2	146
2018/10/15 02:40:47	33750 Dave- higgins	10.0	16.62	2.95	132	0.6	37°59'58" 49°36'26"	112	1.8	UCAC4 701-35284	13.75	4 ^h 57 ^m 27.328 ^s 50°00'59.287"	73.5	280	118.7	-12.7	147.1	-60.7	34.7	162
2018/10/15 02:48:33	47091 AP9	5.8	19.32	7.24	94	0.6	36°30'13" 50°52'33"	10	1.2	UCAC4 558-32565	12.08	6 ^h 40 ^m 21.083 ^s 21°25'21.003"	61.6	184	102.1	-11.4	174.1	-60.4	34.8	155
2018/10/15 02:53:46	3148 Grechko	51.5	17.37	4.48	221	3.2	36°35'09" 52°01'33"	6	3.7	UCAC4 564-39308	12.91	7 ^h 27 ^m 32.927 ^s 22°43'23.501"	62.1	163	91.3	-10.6	163.2	-60.2	34.8	129
2018/10/15 03:26:08	5190 Fry	13.2	16.43	3.19	196	2.8	33°44'47" 50°44'21"	293	1.1	UCAC4 656-22056	13.30	4 ^h 29 ^m 46.660 ^s 41°11'18.482"	58.5	271	126.7	-5.4	149.7	-58.1	35.0	114
2018/10/15 16:28:56	6439 Tirol	13.8	17.49	3.97	45	0.8	36°33'06" 50°24'49"	25	3.3	UCAC4 369-173553	13.55	19 ^h 45 ^m 37.448 ^s -16°16'28.602"	23.1	192	93.3	-17.7	15.2	15.2	40.1	161
2018/10/15 17:13:52	21216 UZ1	9.1	17.89	4.45	43	1.3	35°40'47" 50°03'06"	271	2.4	UCAC4 305-283717	13.46	22 ^h 01 ^m 35.742 ^s -29°09'54.327"	10.2	170	118.8	-24.8	44.7	11.6	40.3	147
2018/10/15 17:51:45	12663 Bjorkegren	6.0	17.66	4.47	111	0.7	37°16'39" 49°17'17"	140	1.3	UCAC4 454-120536	13.21	23 ^h 57 ^m 43.830 ^s 0°41'15.322"	34.2	142	157.7	-30.5	78.6	7.9	40.6	112
2018/10/15 18:18:47	27135 XB12	6.3	16.25	3.66	175	0.7	34°00'27" 49°30'20"	250	0.3	UCAC4 588-125927	12.62	21 ^h 40 ^m 09.770 ^s 27°35'08.829"	66.5	203	124.5	-34.3	64.1	4.9	40.8	79
2018/10/15 19:37:51	2773 Brooks	7.9	16.83	2.93	161	0.7	37°40'33" 48°55'13"	142	0.6	UCAC4 554-27944	13.98	6 ^h 33 ^m 08.324 ^s 20°39'33.826"	7.6	67	104.4	-43.6	175.7	-5.3	41.3	82
2018/10/15 19:45:15	243460 RA54	8.7	20.67	8.72	93	0.7	36°51'31" 50°48'04"	26	0.8	UCAC4 411-123094	11.95	19 ^h 54 ^m 00.659 ^s -7°58'45.284"	13.2	240	96.6	-44.3	20.0	-6.3	41.3	424

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.		Page 12		LinOccult 2.3.1						
		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	Dist	Alt	Dist	Phase (%)	σ_{km}		
2018/10/15 22:05:47	1717 Arlon	12.0	16.01	2.60	38	0.6	36°22'46'' 49°42'51''	170	5.1 5.7	UCAC4 595-41319	13.52	7 ^h 38 ^m 00.074 ^s 28°50'02.132''	26.4	76	90.8	-47.7	167.9	-27.5	42.3	84
2018/10/15 23:31:47	2242 Balaton	7.6	15.17	2.06	152	1.0	36°30'40'' 48°41'08''	174	0.2	UCAC4	13.29	1 ^h 41 ^m 05.594 ^s 14°00'43.392''	47.4	223	173.0	-40.5	104.4	-40.7	42.9	61
2018/10/15 23:34:29	17165 1999 LS27	6.9	18.56	5.95	60	0.6	35°52'42'' 50°31'24''	331	1.8 2.0	UCAC4 521-2887 525-5561	12.62	3 ^h 08 ^m 21.926 ^s 14°50'12.814''	54.5	192	153.4	-40.2	124.9	-41.1	42.9	139
2018/10/16 00:02:57	17426 1989 CS1	6.9	18.11	5.49	45	0.8	36°50'52'' 49°52'20''	116	2.2	UCAC4	12.62	6 ^h 06 ^m 35.684 ^s 39°35'44.968''	66.5	105	110.1	-36.7	158.1	-45.3	43.0	114
2018/10/16 00:34:16	6024 Ochano-mizu	8.7	16.83	3.24	133	1.0	37°40'37'' 49°15'36''	131	1.2 4.0	UCAC4 594-26577	13.65	6 ^h 05 ^m 31.737 ^s 28°41'54.160''	63.1	134	111.0	-32.4	165.1	-49.6	43.2	86
2018/10/16 01:03:16	19124 1986 TH3	6.6	16.62	4.72	10	0.5	36°10'45'' 49°59'17''	229	3.0 3.0	UCAC4 482-13873	11.91	5 ^h 52 ^m 19.501 ^s 6°18'53.935''	45.4	164	113.2	-28.2	157.4	-53.2	43.5	87
2018/10/16 02:22:13	31039 1996 JN	5.0	17.76	5.09	74	0.7	36°16'13'' 49°23'03''	181	1.6 2.4	UCAC4 517-6070	12.68	3 ^h 39 ^m 26.623 ^s 13°19'56.882''	40.3	238	146.2	-15.9	130.3	-60.2	44.0	85
2018/10/16 02:26:00	29540 1998 BV24	7.9	17.75	4.63	168	0.8	36°17'33'' 48°32'31''	180	1.0 2.6	UCAC4 513-5162	13.13	3 ^h 10 ^m 28.779 ^s 12°31'14.396''	35.0	245	153.3	-15.3	123.3	-60.4	44.0	121
2018/10/16 03:20:22	12735 1991 VV1	5.8	17.41	7.92	157	0.9	38°28'36'' 50°08'20''	86	0.4 2.9	TYC 1306-926-1	9.49	5 ^h 36 ^m 32.233 ^s 19°29'16.338''	52.9	225	117.9	-6.5	158.5	-61.1	44.4	78
2018/10/16 03:49:37	28278 1999 CQ27	6.6	19.07	5.23	127	1.0	35°48'30'' 51°08'60''	344	1.2 1.8	UCAC4 563-28042	13.85	6 ^h 23 ^m 37.425 ^s 22°24'20.780''	57.5	221	107.0	-1.9	169.5	-59.9	44.5	149
2018/10/16 15:23:06	28022 1998 BA9	9.1	17.47	3.67	181	1.5	33°50'28'' 50°29'23''	286	1.1 2.7	UCAC4 471-131646	13.84	22 ^h 48 ^m 10.567 ^s 4°03'59.089''	28.0	120	140.8	-7.4	53.8	19.3	49.1	134
2018/10/16 15:23:25	43212 2000 AL113	11.5	20.32	10.46	212	1.4	35°04'07'' 48°19'05''	204	1.1 1.3	TYC 5748-1814-1	9.86	20 ^h 11 ^m 26.701 ^s -13°04'12.707''	26.3	168	99.1	-7.5	11.9	19.3	49.1	366
2018/10/16 15:33:16	2315 Czechoslovakia	23.4	16.58	3.28	144	0.9	34°19'04'' 50°21'03''	283	3.8 5.2	UCAC4 284-162181	13.35	18 ^h 13 ^m 36.424 ^s -33°20'54.912''	4.6	198	70.2	-9.0	21.8	19.3	49.1	180
2018/10/16 16:50:42	105339 2000 QL91	7.9	18.46	4.80	120	0.7	35°03'40'' 50°47'07''	313	1.5 2.1	UCAC4 708-32640	13.67	4 ^h 24 ^m 11.685 ^s 51°29'19.054''	26.7	40	123.9	-21.5	131.8	17.2	49.6	149
2018/10/16 17:49:46	15901 1997 RY8	6.9	18.16	5.45	100	0.5	35°04'56'' 50°30'44''	301	1.6 2.1	UCAC4 440-648	12.72	0 ^h 29 ^m 51.496 ^s -2°11'11.025''	28.3	135	162.2	-30.5	73.2	13.2	50.1	130
2018/10/16 17:54:52	2294 An-dronikov	15.1	16.61	3.88	129	0.5	34°30'60'' 49°51'01''	260	2.8 4.5	UNKNOWN UN-KNOWN	12.76	18 ^h 16 ^m 57.567 ^s -22°39'20.206''	2.2	230	70.8	-31.2	19.1	12.8	50.1	133
2018/10/16 21:12:00	139564 2001 QC76	5.8	18.23	4.28	107	0.7	36°39'28'' 50°58'46''	14	1.2 1.7	UCAC4 610-11887	13.97	4 ^h 06 ^m 59.911 ^s 31°58'24.378''	54.2	104	136.2	-49.1	130.2	-11.4	51.3	133
2018/10/16 21:39:13	12629 Jandebøer	5.0	18.23	6.04	15	0.5	36°24'21'' 49°55'55''	146	2.1 2.1	UCAC4 497-22157	12.20	6 ^h 13 ^m 56.226 ^s 9°15'03.849''	21.8	102	109.1	-49.0	154.9	-15.4	51.6	94
2018/10/17 00:20:57	8744 Cilla	6.9	18.03	4.59	56	1.0	36°30'29'' 49°33'57''	164	2.1 2.3	UCAC4 561-24310	13.46	6 ^h 04 ^m 06.422 ^s 22°04'43.562''	56.5	137	112.4	-34.6	154.7	-40.3	52.6	118
2018/10/17 00:22:41	33750 Dave-higgins	10.0	16.58	3.25	18	0.6	36°30'13'' 50°08'15''	57	2.5 2.5	UCAC4 704-33119	13.39	4 ^h 57 ^m 40.581 ^s 50°42'05.568''	85.4	79	119.9	-34.3	134.3	-40.5	52.6	160

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.				Table 1		Page 13		LinOccult 2.3.1			
		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 (%)	σ_{km}	
2018/10/17 00:41:38	15229 QZ6	5.0	17.21	4.82	116	0.7	36°18'08" 51°05'25"	1	0.8	UCAC4 579-6863	12.40	3 ^h 02 ^m 48.541 ^s 25°43'51.691"	58.5	230	151.7	-31.7	113.8	-43.3	52.8	76	
2018/10/17 01:29:08	43 Ariadne	65.9	10.41	0.54	274	6.9	36°11'09" 47°35'27"	182	0.0	TYC 608-697-1	10.90	0 ^h 58 ^m 26.814 ^s 12°24'56.992"	22.7	262	172.3	-24.5	81.4	-49.8	53.1	63	
2018/10/17 01:31:15	56924 Rj20	6.0	18.47	5.35	196	1.1	33°36'05" 50°26'28"	283	0.6	UCAC4 521-10151	13.12	5 ^h 02 ^m 05.769 ^s 14°08'19.496"	53.6	195	127.1	-24.2	138.3	-50.0	53.2	130	
2018/10/17 02:35:18	11194 Mirna	5.5	18.25	8.91	15	0.7	36°12'22" 49°55'30"	203	2.2	UCAC4 561-29632	9.34	6 ^h 26 ^m 02.485 ^s 22°10'47.441"	62.2	188	107.4	-14.0	158.7	-57.0	53.5	99	
2018/10/17 03:28:36	59467 GQ57	5.8	19.19	8.23	144	0.9	37°25'50" 48°59'14"	145	1.0	UCAC4 519-9539	10.96	4 ^h 57 ^m 50.688 ^s 13°37'01.248"	41.6	236	128.2	-5.5	136.2	-60.0	53.9	147	
2018/10/17 16:42:21	21152 MB1	7.9	17.67	7.67	220	0.7	35°08'12" 51°53'12"	338	0.5	TYC 6921-581-1	10.00	20 ^h 45 ^m 45.296 ^s -23°46'08.504"	16.3	181	103.4	-20.5	6.3	20.5	59.0	117	
2018/10/17 17:49:43	9503 Agrawain	8.3	18.09	4.71	90	1.9	36°48'49" 49°18'48"	155	2.0	UCAC4 611-18253	13.39	5 ^h 08 ^m 06.661 ^s 32°09'20.012"	14.3	57	124.6	-30.8	133.6	18.0	59.3	131	
2018/10/17 20:39:30	51318 KT77	5.5	18.88	5.62	228	0.6	36°01'23" 52°05'35"	355	0.4	UCAC4 502-25388	13.27	6 ^h 25 ^m 26.704 ^s 10°19'19.956"	11.8	88	107.3	-48.7	147.6	1.1	60.6	135	
2018/10/17 21:00:54	479 Caprera	73.0	13.92	1.54	108	5.9	36°35'24" 49°05'44"	168	16.1	UCAC4 518-34003	12.68	6 ^h 53 ^m 21.576 ^s 13°29'56.397"	13.2	85	100.9	-49.3	154.9	-1.8	60.7	94	
2018/10/17 22:22:48	10096 RK5	11.0	17.22	4.54	33	1.6	36°08'05" 49°46'15"	199	3.5	UCAC4 611-14705	12.69	4 ^h 28 ^m 58.532 ^s 32°09'13.218"	62.3	119	132.8	-47.4	123.1	-13.6	61.1	120	
2018/10/17 22:55:34	4848 Tuten-chamun	13.2	16.03	4.02	50	1.2	35°52'01" 50°24'42"	323	4.4	UCAC4 463-2731	12.03	2 ^h 03 ^m 29.677 ^s 2°31'51.883"	40.8	201	169.2	-44.9	82.4	-18.6	61.4	108	
2018/10/17 23:15:58	1025 Riema	11.0	15.20	1.68	222	0.9	33°10'42" 50°10'05"	273	0.0	UCAC4 343-3741	13.78	3 ^h 22 ^m 27.481 ^s -21°27'02.366"	18.6	181	138.5	-42.9	92.5	-21.8	61.6	64	
2018/10/18 00:14:32	46725 SS13	5.8	17.86	6.44	157	0.6	35°34'57" 48°42'53"	199	0.8	UCAC4 592-7281	11.43	2 ^h 57 ^m 30.173 ^s 28°18'30.242"	62.8	226	152.1	-35.7	102.1	-30.8	61.9	120	
2018/10/18 00:40:58	47909 GC74	7.6	18.12	6.18	5	0.8	36°20'37" 50°01'41"	118	2.5	UCAC4 550-30094	11.94	6 ^h 35 ^m 18.962 ^s 19°58'14.860"	53.8	136	106.0	-32.0	149.9	-34.9	62.1	123	
2018/10/18 01:45:40	8359 WD	7.2	17.65	4.01	105	1.1	35°29'54" 50°50'57"	328	1.7	UCAC4 573-25490	13.67	6 ^h 09 ^m 58.951 ^s 24°34'17.287"	64.7	173	112.1	-22.2	143.6	-44.3	62.5	98	
2018/10/18 02:19:07	27723 QA	11.0	15.92	3.26	85	0.9	35°28'26" 49°29'38"	223	2.9	UCAC4 561-5303	12.72	2 ^h 38 ^m 58.082 ^s 22°02'52.861"	37.3	260	159.2	-16.9	95.3	-48.7	62.7	111	
2018/10/18 02:22:36	55084 QE115	5.0	18.96	5.75	119	0.9	37°19'14" 49°13'02"	141	1.0	UCAC4 528-9203	13.22	4 ^h 38 ^m 23.849 ^s 15°29'14.982"	48.5	224	133.8	-16.3	120.9	-49.1	62.8	135	
2018/10/18 02:30:50	6540 Stepling	6.3	15.41	2.05	233	1.3	37°01'42" 48°00'58"	167	0.0	UCAC4 519-5114	13.54	3 ^h 08 ^m 27.801 ^s 13°41'19.256"	33.7	249	155.6	-15.0	99.3	-50.1	62.9	53	
2018/10/18 02:40:20	3177 Chilli-cothe	14.5	14.86	3.80	76	1.3	36°06'31" 50°43'25"	350	4.5	UCAC4 443-1346	11.09	1 ^h 05 ^m 32.415 ^s -1°32'52.954"	1.0	266	167.4	-13.5	65.5	-51.2	62.8	84	
2018/10/18 03:16:44	3552 Quixote	9.1	16.36	6.23	106	0.6	37°38'36" 50°26'18"	66	2.1	TYC 3688-1676-1	10.14	1 ^h 58 ^m 35.444 ^s 54°32'46.574"	42.3	309	134.5	-7.6	98.1	-54.8	63.1	95	

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.				Table 1		Page 14		LinOccult 2.3.1			
Date Time (UTC)	Asteroid			Nearest point			Star				Sun			Moon			σ_{km}				
	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt		Phase (%)	Dist	Alt	
2018/10/18 03:28:05	18169 Amaldi	10.0	17.69	4.14	146	0.6	35°16'56" 48°54'50"	210	1.6	UCAC4 538-42184	13.57	7 ^h 29 ^m 25.544 ^s 17°25'46.825"	57.6	184	93.1	-5.8	161.2	-55.7	63.1	131	
2018/10/18 03:49:02	397 Vienna	43.3	12.65	0.74	252	8.2	33°15'58" 51°15'02"	302	0.1	UCAC4 552-12240	12.67	5 ^h 02 ^m 44.790 ^s 20°20'27.877"	44.3	246	127.8	-2.5	126.8	-57.1	63.3	74	
2018/10/18 16:17:56	190669 YJ117	12.0	20.24	8.59	234	0.6	36°41'07" 52°08'05"	7	1.0	UCAC4 345-174448	11.65	18 ^h 55 ^m 31.355 ^s -21°10'17.626"	15.8	203	77.9	-16.9	33.0	22.2	67.9	410	
2018/10/18 16:29:11	6082 Timiryazev	9.1	17.16	3.62	231	0.6	34°30'28" 51°47'40"	327	0.3	UCAC4 374-170885	13.58	20 ^h 15 ^m 03.180 ^s -15°20'00.560"	24.5	187	97.5	-18.7	14.5	22.5	68.0	105	
2018/10/18 16:35:08	6550 Parler	6.3	16.65	3.66	94	1.7	36°48'44" 49°16'13"	157	1.5	UCAC4 542-7809	13.03	3 ^h 57 ^m 07.880 ^s 18°16'08.548"	3.5	65	144.0	-19.6	105.1	22.7	67.9	70	
2018/10/18 17:35:41	11986 VP	7.6	17.43	5.46	7	0.6	36°11'51" 50°04'13"	292	2.8	UCAC4 549-4192	11.98	2 ^h 13 ^m 36.959 ^s 19°43'56.790"	30.3	95	165.9	-29.1	81.6	22.7	68.4	110	
2018/10/18 18:07:46	47373 XT91	5.2	18.24	4.60	141	0.5	36°49'59" 48°49'58"	164	0.9	UCAC4 427-119043	13.66	20 ^h 50 ^m 14.148 ^s -4°38'40.675"	32.0	207	108.2	-33.7	14.2	21.6	68.6	116	
2018/10/18 18:12:10	34883 UQ94	5.8	19.01	6.82	135	1.0	35°14'41" 51°03'31"	327	1.0	UCAC4 557-17820	12.19	5 ^h 37 ^m 53.166 ^s 21°18'44.765"	5.4	63	120.2	-34.4	128.1	21.5	68.5	150	
2018/10/18 19:04:13	50746 EJ170	7.9	17.21	4.43	254	0.8	35°06'37" 52°12'19"	341	0.2	UCAC4 475-4098	12.80	2 ^h 56 ^m 17.778 ^s 4°49'30.065"	25.9	116	158.8	-41.1	85.7	18.3	68.9	108	
2018/10/18 19:20:06	190689 DO93	9.5	21.04	7.33	167	0.6	36°41'21" 51°31'19"	10	0.8	UCAC4 404-109604	13.71	19 ^h 14 ^m 49.748 ^s -9°22'49.877"	8.4	244	84.0	-42.9	31.5	17.0	69.0	422	
2018/10/18 20:31:34	6121 Plachinda	7.2	16.96	3.79	180	0.8	37°13'40" 48°33'07"	158	0.3	UCAC4 557-30747	13.20	6 ^h 36 ^m 45.988 ^s 21°14'03.349"	17.5	78	106.6	-48.7	140.4	9.8	69.5	80	
2018/10/18 20:48:54	19124 TH3	6.6	16.57	3.17	63	0.6	36°21'32" 49°29'10"	175	2.4	UCAC4 479-14015	13.46	5 ^h 54 ^m 50.131 ^s 5°38'49.726"	15.3	100	115.2	-49.4	127.7	7.8	69.6	86	
2018/10/18 21:01:34	4062 Schiaparelli	6.6	16.79	4.86	71	0.7	35°24'48" 50°21'32"	299	2.2	UCAC4 617-33898	11.94	6 ^h 19 ^m 26.629 ^s 33°22'08.948"	33.5	76	110.7	-49.7	135.3	6.2	69.7	75	
2018/10/18 21:03:52	32209 OW9	7.9	15.58	2.80	183	1.2	37°43'12" 48°41'22"	146	0.3	UCAC4 631-6585	12.86	1 ^h 59 ^m 17.650 ^s 36°11'07.294"	74.5	148	152.8	-49.8	83.7	5.9	69.6	79	
2018/10/18 21:16:16	6423 Harunasan	11.0	16.11	2.82	38	1.5	36°16'40" 49°42'25"	181	4.1	UCAC4 624-10599	13.37	3 ^h 21 ^m 13.986 ^s 34°45'55.602"	64.9	117	144.8	-49.9	98.8	4.3	69.7	99	
2018/10/18 23:05:33	188 Menippe	38.6	15.33	3.02	79	1.6	36°47'45" 50°40'51"	27	7.9	UCAC4 490-50228	12.38	8 ^h 54 ^m 49.742 ^s 7°48'15.169"	10.1	90	71.6	-44.2	168.1	-11.3	70.4	176	
2018/10/18 23:59:55	2844 Hess	7.6	16.02	2.56	231	1.2	36°59'23" 48°01'40"	167	0.0	UCAC4 432-330	13.56	0 ^h 14 ^m 08.922 ^s -3°37'24.635"	15.8	244	156.0	-37.9	42.1	-19.6	70.8	77	
2018/10/19 00:34:06	10044 Squyres	6.6	15.82	2.10	46	1.2	35°54'24" 49°42'45"	216	2.3	UCAC4 693-16063	13.89	2 ^h 29 ^m 28.466 ^s 48°26'15.230"	67.4	279	139.5	-33.3	92.3	-24.9	70.9	105	
2018/10/19 00:39:39	8927 Ryojiro	5.0	18.79	4.87	238	3.2	33°39'36" 48°45'54"	233	0.2	UCAC4 578-16690	13.93	5 ^h 34 ^m 02.898 ^s 25°27'31.140"	64.5	159	121.1	-32.5	124.4	-25.7	70.8	108	
2018/10/19 00:44:29	7684 Mario-ferrero	8.3	17.48	3.53	14	0.9	36°17'19" 49°55'33"	179	3.1	UCAC4 566-7316	13.99	3 ^h 30 ^m 40.154 ^s 23°08'23.956"	58.2	221	149.1	-31.8	96.1	-26.5	71.0	107	

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.		Table 1		Page 15		LinOccult 2.3.1				
		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 (%)	σ_{km}
2018/10/19 14:43:07	54629 2000 SL98	5.8	19.52	5.83	91	0.5	37°01'25'' 50°43'05''	35	1.2 1.4	UCAC4 653-46586	13.70	7 ^h 02 ^m 34.802 ^s 40°30'04.154''	0.5	360	102.8	-2.0	133.7	14.5	75.8	165
2018/10/19 16:03:11	16099 1999 VQ24	24.0	18.47	5.73	171	1.3	37°41'38'' 48°49'06''	144	2.7 3.2	UCAC4 315-227688	12.75	19 ^h 07 ^m 29.636 ^s -27°07'18.244''	11.2	197	79.1	-14.8	42.6	22.0	76.3	298
2018/10/19 16:32:40	660 2001 Crescen- tia	42.2	14.06	0.85	17	1.3	36°30'26'' 50°05'51''	71	12.5 12.6	UCAC4 381-100436	13.87	17 ^h 59 ^m 52.139 ^s -13°53'02.555''	16.1	223	64.4	-19.5	58.8	23.9	76.5	134
2018/10/19 16:34:32	77785 2001 QM36	5.2	18.98	6.28	48	1.1	35°41'58'' 50°15'06''	298	1.4 1.5	UCAC4 651-24468	12.70	4 ^h 55 ^m 45.470 ^s 40°07'28.078''	13.9	43	126.7	-19.8	109.3	24.0	76.4	136
2018/10/19 16:37:37	38373 1999 RG172	5.0	17.97	5.52	91	0.8	37°05'46'' 49°25'13''	140	1.3 2.1	UCAC4 528-7325	12.45	3 ^h 53 ^m 22.701 ^s 15°25'55.227''	2.8	69	146.2	-20.3	91.5	24.1	76.5	97
2018/10/19 19:53:00	1628 1987 Strobel	57.1	14.97	4.69	185	5.6	36°15'32'' 48°23'17''	181	6.2 18.1	TYC 114-1991-1	10.29	5 ^h 37 ^m 04.610 ^s 0°29'56.330''	5.9	96	119.6	-46.4	111.2	21.0	77.6	125
2018/10/19 20:38:42	14357 1987 UR	7.2	17.99	7.71	251	0.8	34°43'23'' 52°04'43''	334	0.4 2.0	UCAC4 340-200321	10.28	21 ^h 09 ^m 28.921 ^s -22°03'59.778''	2.2	231	107.0	-49.4	16.8	16.8	77.8	142
2018/10/19 21:12:04	31226 1998 BZ40	5.0	18.62	5.02	71	2.8	36°26'39'' 49°24'52''	171	1.4 1.7	UCAC4 566-11782	13.61	4 ^h 47 ^m 44.211 ^s 23°11'46.043''	43.5	106	132.7	-50.2	103.5	13.1	77.9	115
2018/10/19 21:29:20	11004 2000 Sten- mark	14.5	17.29	4.62	150	1.9	37°47'42'' 50°59'40''	46	2.3 4.0	UCAC4 669-42863	12.68	5 ^h 58 ^m 26.542 ^s 43°37'30.483''	47.9	74	114.7	-50.2	118.3	11.0	78.1	143
2018/10/19 23:51:00	61640 2000 QT105	7.2	18.26	5.70	98	0.8	35°02'25'' 50°25'13''	295	1.7 2.4	UCAC4 599-34121	12.56	6 ^h 35 ^m 12.414 ^s 29°40'52.895''	56.1	113	108.5	-39.4	126.2	-8.8	78.9	121
2018/10/19 23:54:53	2948 1999 Amosov	9.5	17.39	5.34	242	0.9	37°55'10'' 51°58'04''	29	0.3 3.4	UCAC4 510-26349	12.05	6 ^h 32 ^m 15.613 ^s 11°55'35.495''	42.6	131	107.9	-38.9	125.0	-9.4	79.0	113
2018/10/20 00:01:53	53165 1999 CX9	7.6	18.74	5.49	106	0.6	36°20'60'' 50°59'42''	2	1.6 2.1	UCAC4 511-39506	13.26	7 ^h 26 ^m 20.669 ^s 12°06'48.528''	36.5	118	94.8	-38.0	138.1	-10.5	79.0	145
2018/10/20 00:06:00	74219 1998 RM78	6.0	18.02	4.64	40	1.2	36°46'24'' 49°52'31''	119	2.2 2.4	UCAC4 590-23024	13.39	5 ^h 52 ^m 51.603 ^s 27°49'14.649''	62.4	135	117.8	-37.4	116.9	-11.1	79.0	100
2018/10/20 00:16:46	11518 2000 Jung	7.6	19.04	7.04	89	0.6	36°06'37'' 50°50'09''	352	1.6 1.9	TYC 1909-1258-1	12.00	7 ^h 22 ^m 43.915 ^s 22°52'22.840''	47.8	114	97.3	-36.0	137.2	-12.8	79.1	161
2018/10/20 00:46:52	10838 1999 Lebon	7.6	18.85	5.54	58	0.6	35°42'14'' 50°24'43''	314	1.9 2.0	UCAC4 626-42033	13.32	7 ^h 47 ^m 41.205 ^s 35°10'09.114''	57.3	101	93.8	-31.7	139.3	-17.4	79.2	150
2018/10/20 02:31:37	66855 1999 VM22	6.3	18.60	5.09	16	1.0	36°11'08'' 50°10'25''	333	2.0 2.1	UCAC4 608-33384	13.52	6 ^h 28 ^m 25.398 ^s 31°27'56.634''	71.2	195	110.1	-15.4	123.3	-33.2	79.7	123
2018/10/20 02:43:37	55074 2001 QH93	5.0	19.29	6.23	53	0.5	35°47'54'' 50°24'28''	319	1.3 1.3	UCAC4 649-39848	13.06	6 ^h 34 ^m 08.662 ^s 39°40'09.414''	78.7	209	108.7	-13.4	123.2	-35.0	79.8	150
2018/10/20 03:14:25	80034 1999 JQ21	7.2	19.39	5.77	248	0.5	39°38'51'' 50°39'06''	74	0.6 1.7	UCAC4 482-31363	13.63	7 ^h 05 ^m 54.350 ^s 6°23'54.498''	46.2	190	99.0	-8.5	130.7	-39.1	80.0	173
2018/10/20 03:22:39	28840 2000 JB44	5.0	18.54	4.79	46	0.7	36°20'22'' 49°38'23''	175	1.7 1.9	UCAC4 567-26810	13.76	6 ^h 26 ^m 08.331 ^s 23°22'10.871''	59.7	216	110.4	-7.2	122.7	-40.2	80.0	104
2018/10/20 04:05:48	4716 1999 Urey	15.8	16.66	4.41	44	2.1	36°34'53'' 49°42'19''	151	4.7 5.0	UCAC4 618-32697	12.27	6 ^h 08 ^m 46.369 ^s 33°32'14.401''	60.2	250	114.2	-0.3	118.3	-45.3	80.2	128

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.		Table 1		Page 16		LinOccult 2.3.1				
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	Phase (%)	σ_{km}		
2018/10/20 14:32:51	3552 Don Quixote	9.1	16.39	2.99	29	0.6	35°53'05" 50°06'14"	282	3.6	UCAC4 724-17158	13.47	1 ^h 53 ^m 06.768 ^s 54°37'21.098"	31.9	41	135.6	-0.7	76.6	10.8	83.5	96
2018/10/20 15:18:41	55484 UC24	6.9	17.89	4.15	106	1.1	35°16'39" 49°21'28"	223	1.6	UCAC4 462-122912	13.76	21 ^h 33 ^m 23.788 ^s 2°12'50.408"	36.6	144	118.3	-7.9	22.8	16.6	83.8	117
2018/10/20 16:00:09	41453 MJ4	6.3	17.96	4.69	124	1.1	35°13'29" 49°10'11"	218	1.2	UCAC4 471-128539	13.28	21 ^h 39 ^m 48.678 ^s 4°08'04.629"	41.4	154	120.2	-14.6	23.0	21.2	84.0	126
2018/10/20 16:13:09	83977 CE89	10.5	20.37	9.16	162	0.5	36°26'22" 48°35'58"	176	1.0	UCAC4 363-167931	11.21	18 ^h 53 ^m 45.927 ^s -17°27'31.591"	19.0	205	76.0	-16.7	57.4	22.5	84.0	369
2018/10/20 16:24:50	45576 CD75	5.5	18.14	6.28	210	0.5	36°42'15" 48°10'58"	172	0.4	UCAC4 455-632	11.86	0 ^h 27 ^m 11.934 ^s 0°59'51.071"	22.4	117	159.6	-18.6	26.8	23.6	84.0	126
2018/10/20 16:33:06	10766 UB1	13.2	16.18	3.27	53	1.7	36°42'05" 49°39'02"	146	4.3	UCAC4 593-11705	12.96	4 ^h 08 ^m 40.073 ^s 28°29'39.026"	10.7	58	140.8	-19.9	86.2	24.3	84.0	109
2018/10/20 16:41:05	51152 HL54	5.2	19.10	8.30	29	0.6	36°31'47" 50°15'05"	37	1.4	TYC 7487-1381-1	10.80	21 ^h 46 ^m 54.794 ^s -30°47'46.534"	8.7	170	110.5	-21.2	25.0	25.0	84.1	145
2018/10/20 17:38:42	109324 QA140	5.0	17.77	4.11	237	0.7	35°13'45" 52°04'23"	341	0.1	UCAC4 659-34576	13.69	5 ^h 25 ^m 21.898 ^s 41°37'19.592"	19.5	48	121.9	-30.1	103.1	28.5	84.4	104
2018/10/20 19:21:36	54587 QM189	5.0	19.75	9.46	73	1.3	36°45'18" 49°28'03"	153	1.1	TYC 1328-634-1	10.29	6 ^h 24 ^m 45.961 ^s 16°28'21.852"	6.1	72	111.0	-43.8	113.8	29.0	85.0	157
2018/10/20 20:11:25	20524 Buster-sikes	8.3	17.72	5.57	146	0.7	35°34'43" 51°16'34"	340	1.3	UCAC4 542-39220	12.15	7 ^h 16 ^m 00.558 ^s 18°19'17.231"	7.4	70	99.1	-48.2	125.8	26.5	85.2	113
2018/10/20 21:21:10	264155 VJ109	8.3	20.61	9.65	226	0.8	39°21'20" 49°37'02"	102	0.6	UCAC4 466-127054	10.96	20 ^h 36 ^m 32.581 ^s 3°00'48.149"	10.8	262	104.2	-50.6	38.0	20.4	85.5	479
2018/10/20 21:50:24	52725 GF5	6.0	18.50	4.74	76	0.7	36°14'05" 49°21'46"	183	1.6	UCAC4 491-30351	13.78	6 ^h 38 ^m 24.924 ^s 8°03'37.055"	21.3	103	106.7	-50.1	115.2	17.1	85.7	130
2018/10/20 22:23:17	55736 QC1	5.8	16.34	2.84	205	0.8	36°01'56" 48°13'04"	185	0.3	UCAC4 580-1198	13.58	0 ^h 30 ^m 49.904 ^s 25°55'36.230"	54.8	240	157.3	-48.4	41.7	13.1	85.8	100
2018/10/20 22:31:17	5438 Lorre	15.8	16.98	3.91	87	1.0	36°20'37" 49°15'47"	177	3.6	UCAC4 639-120111	13.10	23 ^h 42 ^m 06.411 ^s 37°38'49.159"	54.1	269	141.9	-47.9	48.4	12.0	85.8	146
2018/10/20 22:35:08	67779 UU81	8.7	17.23	5.70	19	0.6	36°16'31" 49°52'48"	182	3.0	UCAC4 578-36984	11.53	7 ^h 03 ^m 05.975 ^s 25°33'57.708"	37.5	94	103.0	-47.6	121.3	11.5	85.9	115
2018/10/21 00:26:24	25185 SR115	7.9	17.83	4.65	119	0.7	34°59'05" 50°42'53"	309	1.6	UCAC4 636-39320	13.20	7 ^h 00 ^m 17.494 ^s 37°01'10.911"	63.3	106	104.5	-34.9	118.3	-4.5	86.4	125
2018/10/21 01:05:05	27199 CE67	7.9	16.57	2.69	117	0.9	36°43'02" 51°03'58"	15	1.5	UCAC4 558-144946	13.98	23 ^h 51 ^m 24.216 ^s 21°31'04.131"	20.0	280	151.4	-29.2	32.7	-10.4	86.6	92
2018/10/21 01:34:27	10138 Ohtani-hiroshi	5.5	16.57	2.74	14	0.6	36°11'36" 50°09'17"	331	3.0	UCAC4 482-3076	13.92	2 ^h 10 ^m 08.133 ^s 6°20'18.897"	25.8	247	171.8	-24.7	47.8	-15.0	86.7	73
2018/10/21 01:38:49	47858 EB158	7.2	17.57	4.90	58	0.6	36°24'35" 50°33'40"	9	2.2	UCAC4 581-4147	12.68	1 ^h 56 ^m 51.417 ^s 26°01'25.580"	37.9	266	164.0	-24.0	54.0	-15.6	86.7	117
2018/10/21 02:07:18	10075 Campeche	5.0	17.39	17.39	35	1.8	35°59'08" 50°17'59"	323	3.4	UCAC4 537-9515	0.00	4 ^h 39 ^m 48.974 ^s 17°20'52.302"	50.7	224	136.3	-19.5	85.6	-20.0	86.9	33

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 17		LinOccult 2.3.1			
		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 (%)	σ_{km}
2018/10/21 04:02:24	54648 SL307	6.3	19.10	6.39	215	0.8	34°12'44" 48°39'42"	224	0.6	UCAC4 616-14223	12.72	4 ^h 22 ^m 39.871 ^s 33°09'04.122"	43.0	273	136.8	-1.1	84.4	-36.3	87.4	162
2018/10/21 14:31:43	16978 AN4	5.0	18.37	5.17	77	0.8	35°12'44" 50°07'54"	277	1.4	UCAC4 534-141538	13.21	22 ^h 33 ^m 55.896 ^s 16°42'07.715"	35.5	107	133.6	-0.8	28.0	7.7	90.0	116
2018/10/21 15:21:51	34513 SQ178	6.6	18.60	4.70	251	1.1	36°01'10" 52°17'50"	356	0.5	UCAC4 431-119071	13.91	23 ^h 15 ^m 46.693 ^s −3°53'42.829"	20.0	123	140.4	-8.7	5.6	14.9	90.2	154
2018/10/21 15:56:56	10094 Ejikato	12.6	15.72	2.70	240	1.6	33°41'60" 51°27'18"	310	0.2	UCAC4 665-26555	13.11	4 ^h 34 ^m 10.658 ^s 42°48'45.639"	15.3	40	131.0	-14.4	83.5	19.5	90.3	95
2018/10/21 16:45:56	114710 GX7	2003	20.19	6.61	197	0.5	38°38'06" 50°59'59"	58	1.1	UCAC4 469-98478	13.59	19 ^h 20 ^m 22.092 ^s 3°42'58.281"	38.2	216	84.9	-22.2	65.1	25.2	90.6	379
2018/10/21 19:40:51	15580 GE71	2000	8.3	18.03	184	0.8	36°30'20" 48°23'56"	175	0.9	UCAC4 399-128251	13.56	20 ^h 49 ^m 02.543 ^s −10°20'12.781"	15.9	231	103.6	-46.0	43.4	33.8	91.3	131
2018/10/21 20:11:28	52602 TY5	1997	5.2	19.57	212	0.6	37°56'36" 48°29'05"	146	0.6	UCAC4 564-37169	13.13	7 ^h 11 ^m 05.493 ^s 22°38'49.727"	12.0	69	101.8	-48.6	112.1	33.0	91.4	177
2018/10/21 20:32:27	9000 Hal	5.2	16.99	5.95	147	0.5	36°07'08" 51°21'54"	355	0.4	UCAC4 422-134149	11.05	21 ^h 39 ^m 58.674 ^s −5°40'06.974"	19.9	234	116.9	-49.8	31.2	32.0	91.4	77
2018/10/21 21:53:02	901 Brunzia	17.8	15.22	1.84	113	4.1	36°46'28" 49°05'03"	162	3.4	UCAC4 573-29212	13.60	6 ^h 26 ^m 27.861 ^s 24°26'42.648"	36.5	95	112.2	-50.3	100.9	25.5	91.8	83
2018/10/21 22:33:24	3699 Mil- bourn	8.7	17.91	4.96	110	0.7	36°47'49" 49°06'51"	161	1.9	UCAC4 555-42023	12.96	7 ^h 50 ^m 38.552 ^s 20°48'29.685"	26.8	89	92.5	-48.0	120.2	21.0	91.9	122
2018/10/21 22:42:07	14848 GK1	1989	5.5	18.44	129	0.6	36°05'19" 51°11'51"	354	1.0	UCAC4 467-242	11.10	0 ^h 09 ^m 55.498 ^s 3°17'29.182"	30.1	234	155.3	-47.3	10.2	19.9	92.0	135
2018/10/21 23:27:38	391 Ingeborg	22.9	14.58	2.82	172	1.4	35°06'37" 48°42'31"	209	1.3	TYC 163- 2132-1	11.84	7 ^h 07 ^m 59.647 ^s 0°59'15.434"	26.2	124	99.3	-42.8	109.2	14.0	92.1	83
2018/10/22 01:29:33	31718 JO58	1999	6.3	17.64	27	0.8	36°26'56" 49°49'28"	155	2.5	UCAC4 565-8900	12.59	3 ^h 59 ^m 48.484 ^s 22°54'32.866"	54.8	231	145.8	-25.7	65.9	-4.1	92.6	96
2018/10/22 01:44:27	1717 Arlon	12.0	15.92	2.18	141	0.7	36°36'26" 48°47'51"	171	1.3	UCAC4 594-40735	13.90	7 ^h 48 ^m 26.807 ^s 28°39'56.357"	62.0	130	94.5	-23.4	117.0	-6.4	92.6	81
2018/10/22 02:12:38	15985 WU20	1998	5.2	17.79	169	1.4	34°16'23" 50°51'53"	302	0.3	UCAC4 544-13039	13.40	5 ^h 13 ^m 23.626 ^s 18°38'59.936"	54.4	217	129.3	-18.9	81.3	-10.7	92.8	84
2018/10/22 03:04:43	17252 GJ127	2000	13.8	16.53	182	3.1	37°26'05" 48°35'50"	153	0.2	UCAC4 471-9211	8.15	5 ^h 06 ^m 03.433 ^s 4°06'08.744"	34.9	226	129.9	-10.5	77.3	-18.6	93.0	64
2018/10/22 03:42:09	1529 Oterma	32.4	17.30	3.48	89	0.9	36°10'20" 49°14'50"	185	4.1	UCAC4 507-51746	13.87	11 ^h 21 ^m 49.324 ^s 11°16'06.054"	34.9	117	42.1	-4.5	168.5	-24.0	93.0	301
2018/10/22 04:01:57	2865 Laurel	14.7	16.14	2.46	185	3.0	33°56'09" 50°45'30"	295	1.7	UCAC4 658-37701	13.80	5 ^h 38 ^m 59.305 ^s 41°31'36.346"	59.6	270	120.8	-1.4	89.1	-26.8	93.1	131
2018/10/22 04:08:15	920 Rogeria	23.9	16.32	4.29	241	0.7	37°24'37" 52°05'50"	19	2.0	UCAC4 461-47822	12.05	10 ^h 13 ^m 07.797 ^s 2°04'56.364"	37.9	149	54.4	-0.5	153.1	-27.6	93.1	165
2018/10/22 14:43:05	45661 EX84	2000	5.8	17.00	120	0.7	36°44'57" 51°04'52"	16	0.9	UCAC4 481-131852	13.93	21 ^h 39 ^m 25.800 ^s 6°02'36.570"	36.4	132	118.6	-2.9	41.3	6.2	95.2	81

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 18		LinOccult 2.3.1			
Asteroid			Nearest point				Star				Sun			Moon						
Date Time (UTC)	Number Name	Diam (km)	Mag	Drop	Dist (km)	Duration (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Dist	Alt	Phase (%)	σ_{km}
2018/10/22 14:58:00	1351 Uzbekistania	64.9	16.29	4.09	128	1.9	37°55'25" 49°35'09"	114	10.2	UCAC4 293-132011	12.23	17 ^h 21 ^m 33.335 ^s -31°32'22.782"	5.2	206	53.3	-5.2	101.4	8.5	95.2	212
2018/10/22 15:44:19	35063 FD	7.2	15.90	2.95	53	0.6	35°55'24" 50°27'32"	330	3.1	UCAC4 594-4801	13.02	1 ^h 58 ^m 31.163 ^s 28°47'06.003"	-12.6	73	162.0	-12.6	38.8	15.5	95.3	69
2018/10/22 15:48:56	49647 JW37	7.2	18.38	6.64	203	0.9	33°36'32" 49°28'30"	252	0.8	UCAC4 498-148028	11.74	22 ^h 35 ^m 52.772 ^s 9°31'49.980"	-13.4	133	132.9	-13.4	29.3	16.2	95.4	162
2018/10/22 16:21:33	113 Amalthea	46.1	13.53	0.65	56	1.5	36°46'32" 49°39'39"	141	12.7	UNKNOWN	13.74	18 ^h 23 ^m 38.360 ^s -22°53'15.664"	-18.6	214	66.5	-18.6	89.3	20.8	95.5	132
2018/10/22 18:13:51	4391 Balodis	5.0	17.52	4.07	181	0.5	34°24'20" 51°08'42"	312	0.2	UCAC4 521-6154	13.48	3 ^h 30 ^m 52.958 ^s 14°02'05.143"	-35.9	95	154.7	-35.9	48.0	33.6	95.8	80
2018/10/22 18:15:37	4904 Makio	10.0	16.66	4.67	136	1.3	38°04'07" 49°37'51"	110	1.5	UCAC4 479-132057	12.01	23 ^h 05 ^m 07.624 ^s 5°44'44.618"	-36.1	173	139.4	-36.1	22.1	33.7	95.8	97
2018/10/22 18:22:18	11602 Miryang	5.5	18.63	4.66	232	2.1	37°16'13" 48°03'45"	162	0.2	UCAC4 630-25709	13.98	5 ^h 30 ^m 22.363 ^s 35°56'54.536"	-37.1	59	124.2	-37.1	79.7	34.3	95.7	115
2018/10/22 19:55:53	3611 Dabu	8.7	16.07	2.80	248	2.0	39°41'28" 49°41'04"	99	0.0	UCAC4 483-6583	13.35	4 ^h 11 ^m 08.908 ^s 6°33'27.891"	-47.7	113	144.4	-47.7	55.4	38.6	96.1	80
2018/10/22 20:57:25	45661 2000 EX84	5.8	17.00	3.91	63	0.7	35°48'07" 49°34'50"	214	2.1	UCAC4 481-131867	13.12	21 ^h 39 ^m 38.304 ^s 6°01'34.023"	-51.1	247	118.4	-51.1	44.0	37.5	96.2	81
2018/10/22 21:22:28	43607 2001 XO48	6.6	17.65	4.95	54	0.6	36°38'11" 49°37'18"	152	2.2	UCAC4 608-9307	12.71	3 ^h 12 ^m 53.061 ^s 31°34'15.343"	-51.3	133	151.7	-51.3	50.0	36.2	96.3	105
2018/10/22 21:37:55	2246 Bowell	44.2	17.14	5.21	95	3.1	36°05'33" 50°53'36"	352	7.7	UCAC4 527-44844	11.94	7 ^h 58 ^m 17.563 ^s 15°12'49.941"	-51.1	82	90.6	-51.1	110.4	35.1	96.3	206
2018/10/22 21:53:34	2337 Boubin	25.2	15.17	4.13	257	3.5	34°32'17" 48°02'44"	209	0.5	UCAC4 581-10277	11.07	4 ^h 06 ^m 30.289 ^s 26°06'00.216"	-50.6	131	144.2	-50.6	57.8	33.9	96.4	106
2018/10/22 21:53:56	15303 Hayamamachi	8.3	17.16	6.73	17	0.8	36°06'10" 50°08'60"	311	3.1	UCAC4 544-5793	10.43	3 ^h 05 ^m 18.851 ^s 18°36'11.179"	-50.6	162	160.0	-50.6	41.8	33.9	96.4	106
2018/10/22 23:16:44	16609 1993 FB23	5.5	18.95	5.42	93	0.9	36°34'23" 49°14'09"	167	1.2	UCAC4 446-140524	13.54	23 ^h 18 ^m 12.045 ^s 0° - 54'10.506"	-44.3	252	140.7	-44.3	20.1	25.1	96.6	157
2018/10/22 23:27:24	73498 2002 RP25	5.5	17.27	3.55	170	0.5	37°03'40" 48°36'33"	161	0.6	UCAC4 518-2342	13.76	1 ^h 21 ^m 35.816 ^s 13°27'34.758"	-43.1	235	173.0	-43.1	17.9	23.8	96.6	113
2018/10/23 00:51:08	26613 2000 GL2	6.6	18.17	5.00	222	0.5	35°34'03" 51°59'09"	347	0.4	UCAC4 543-5596	13.18	2 ^h 57 ^m 19.059 ^s 18°28'22.647"	-31.8	236	162.0	-31.8	38.5	12.1	96.8	122
2018/10/23 01:00:54	61693 2000 QT130	5.0	18.66	4.69	95	0.7	36°00'45" 49°12'52"	192	1.3	UCAC4 501-34354	13.98	6 ^h 54 ^m 17.936 ^s 10°06'28.543"	-30.4	150	105.2	-30.4	93.2	10.7	96.9	111
2018/10/23 01:42:26	21688 1999 RK37	6.0	15.95	3.20	196	0.7	38°37'32" 50°59'04"	58	0.0	UCAC4 712-655	12.80	0 ^h 04 ^m 55.825 ^s 52°13'14.451"	-23.9	311	133.9	-23.9	53.3	4.4	97.0	60
2018/10/23 01:54:14	1639 Bower	36.4	16.03	2.35	83	1.1	36°00'43" 49°19'08"	194	8.6	UCAC4 513-51777	13.81	10 ^h 17 ^m 35.720 ^s 12°26'22.541"	-22.1	107	57.6	-22.1	141.9	2.6	97.0	142
2018/10/23 02:59:14	4194 Sweitzer	18.4	16.00	5.06	46	1.6	36°14'43" 49°37'53"	184	6.8	UCAC4 480-4146	10.95	2 ^h 54 ^m 09.225 ^s 5°51'01.497"	-11.6	257	163.1	-11.6	32.6	-7.4	97.1	95

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.				Table 1		Page 19		LinOccult 2.3.1			
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 (%)	σ_{km}	
2018/10/23 03:47:28	6576 Kievtech	10.0	18.64	5.19	92	0.5	36°33'51" 50°51'32"	12	2.0	UCAC4 542-46837	13.46	8 ^h 55 ^m 23.331 ^s 18°16'49.013"	57.6	164	78.3	-4.0	120.3	-14.6	97.2	172	
2018/10/23 15:33:26	292600 TU107	6.6	21.38	10.32	5	0.6	36°21'20" 50°02'03"	107	0.7	TYC 5167-273-1	11.06	20 ^h 25 ^m 17.265 ^s -1°54'48.330"	38.1	174	97.9	-11.2	71.5	10.7	98.6	399	
2018/10/23 15:37:26	13780 UZ8	13.8	20.12	6.98	121	0.6	34°59'06" 50°44'45"	310	1.3	UCAC4 296-193657	13.14	18 ^h 25 ^m 32.123 ^s -30°58'18.617"	5.8	202	65.8	-11.8	100.8	11.3	98.6	389	
2018/10/23 15:43:09	4876 Strabo	9.1	16.78	3.69	122	0.8	35°23'56" 50°59'20"	329	1.7	UCAC4 525-4395	13.13	2 ^h 32 ^m 32.587 ^s 14°54'59.423"	8.8	77	169.4	-12.7	23.8	12.2	98.6	101	
2018/10/23 15:47:54	8345 Ul-merspatz	9.5	15.17	4.25	196	3.0	39°00'27" 49°53'55"	95	0.1	UCAC4 729-26928	10.94	3 ^h 17 ^m 32.254 ^s 55°45'37.361"	33.0	41	132.5	-13.5	59.4	13.0	98.6	64	
2018/10/23 18:58:34	28014 YS5	7.6	17.47	3.90	82	0.6	35°14'04" 50°20'04"	293	2.1	UCAC4 606-38852	13.60	7 ^h 14 ^m 26.550 ^s 31°00'00.526"	9.0	52	103.9	-42.1	87.8	38.0	98.9	107	
2018/10/23 20:56:51	3815 Konig	23.2	16.67	3.64	175	2.6	34°38'27" 51°13'36"	318	3.2	UCAC4 455-122202	13.07	23 ^h 48 ^m 58.131 ^s 0°52'05.097"	36.4	212	147.6	-51.4	23.3	43.4	99.1	175	
2018/10/23 21:16:00	35552 FE115	7.6	18.37	5.86	3	0.8	36°18'28" 50°03'57"	36	2.4	UCAC4 521-35497	12.52	6 ^h 59 ^m 54.148 ^s 14°04'45.140"	18.8	90	105.3	-51.7	83.7	43.1	99.1	129	
2018/10/23 21:31:18	27704 WB4	7.6	17.89	4.71	191	0.8	38°32'53" 49°09'22"	122	0.7	UCAC4 526-145717	13.20	21 ^h 35 ^m 16.799 ^s 15°06'49.290"	26.0	263	117.6	-51.6	57.2	42.7	99.1	124	
2018/10/23 23:41:09	31227 BC41	12.0	17.91	4.33	158	0.7	35°50'19" 51°26'25"	348	1.8	UCAC4 552-44121	13.60	8 ^h 39 ^m 05.354 ^s 20°21'40.781"	30.9	95	83.4	-41.7	105.4	31.9	99.3	154	
2018/10/24 00:56:58	20558 RN117	6.3	16.71	3.02	72	0.6	36°09'08" 50°41'20"	352	2.0	UCAC4 554-3645	13.76	1 ^h 59 ^m 16.763 ^s 20°41'11.107"	39.3	255	170.7	-31.2	18.1	21.8	99.3	89	
2018/10/24 00:58:40	20562 RV120	6.3	16.40	2.60	25	0.7	36°31'59" 49°53'27"	135	3.4	UCAC4 450-4781	13.91	3 ^h 30 ^m 17.079 ^s 0° - 4'14.065"	33.6	218	153.2	-31.0	30.3	21.5	99.3	68	
2018/10/24 01:06:46	32558 QV30	10.5	17.30	3.37	130	0.7	36°20'58" 51°13'01"	2	1.9	UCAC4 479-1781	13.98	1 ^h 15 ^m 58.443 ^s 5°37'33.069"	19.4	255	169.1	-29.7	3.8	20.4	99.3	145	
2018/10/24 02:58:20	2981 Chagall	10.0	18.91	5.54	192	1.3	35°35'57" 48°22'57"	195	1.2	UCAC4 556-40430	13.38	7 ^h 24 ^m 56.343 ^s 21°02'51.831"	61.2	184	100.6	-12.0	86.3	3.5	99.4	175	
2018/10/24 03:25:06	56312 RM224	6.9	19.17	5.34	142	1.2	34°18'53" 50°14'45"	279	1.2	UCAC4 623-29682	13.84	5 ^h 57 ^m 52.431 ^s 34°31'03.043"	63.0	247	120.2	-7.7	67.6	-0.6	99.5	162	
2018/10/24 04:08:46	16315 2055 T-1	5.8	16.84	4.81	227	0.5	37°22'24" 51°58'11"	20	0.2	UCAC4 549-2083	12.04	1 ^h 04 ^m 22.155 ^s 19°36'36.233"	0.1	301	165.7	-0.9	16.9	-7.2	99.5	100	
2018/10/24 14:51:14	242 Kriemhild	38.3	15.43	1.81	225	1.3	36°05'49" 48°01'40"	183	3.9	UCAC4 384-97042	13.84	18 ^h 07 ^m 51.391 ^s -13°19'56.379"	24.3	201	61.5	-4.7	118.4	0.3	99.8	182	
2018/10/24 15:46:04	5210 Saint-Saens	5.2	16.66	6.29	92	0.9	35°32'15" 50°43'34"	325	1.2	TYC 1246-808-1	10.38	3 ^h 29 ^m 33.705 ^s 21°42'37.364"	6.5	64	155.3	-13.5	26.3	9.0	99.8	67	
2018/10/24 16:33:21	150 Nuwa	151.1	14.05	1.04	116	4.2	35°44'58" 49°03'44"	199	26.9	UCAC4 343-99044	13.53	17 ^h 26 ^m 37.634 ^s -21°26'30.452"	3.2	231	51.3	-21.1	128.6	16.4	99.8	177	
2018/10/24 20:29:25	10078 Stan-thorpe	6.3	17.87	4.30	191	0.6	35°52'33" 51°44'31"	351	0.6	UCAC4 630-13643	13.59	3 ^h 49 ^m 56.925 ^s 35°54'00.167"	57.7	100	144.7	-50.7	36.3	46.0	99.8	118	

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 20		LinOccult 2.3.1			
	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 (%)	σ_{km}
2018/10/24 20:33:04	16863 YJ16	5.2	16.85	3.36	249	0.9	39°32'27" 50°54'10"	68	0.0	UCAC4 617-24899	13.54	5 ^h 33 ^m 43.820 ^s 33°17'59.939"	40.0	83	126.0	-50.9	53.4	46.2	99.8	69
2018/10/24 21:16:16	1279 Uganda	10.4	17.06	4.08	81	1.7	36°30'16" 49°20'04"	169	3.0	UCAC4 604-16661	13.01	5 ^h 03 ^m 11.395 ^s 30°47'12.552"	50.2	101	132.9	-52.0	46.1	47.9	99.8	104
2018/10/24 23:24:19	8844 QR2	8.3	16.75	5.86	194	0.7	36°00'03" 51°46'44"	354	0.9	UCAC4 545-3824	10.90	2 ^h 03 ^m 55.018 ^s 18°51'55.219"	51.0	228	172.8	-44.0	11.0	43.0	99.7	146
2018/10/25 01:22:15	18833 NT53	6.3	18.90	5.05	24	1.0	36°36'51" 50°05'23"	79	1.9	UCAC4 515-25740	13.86	6 ^h 26 ^m 17.254 ^s 12°52'57.296"	52.7	170	114.4	-27.6	60.3	28.7	99.7	131
2018/10/25 01:45:02	1347 Patria	32.4	15.80	2.73	157	2.6	37°37'53" 51°10'08"	38	4.1	UCAC4 520-39544	13.16	7 ^h 14 ^m 57.039 ^s 13°51'09.734"	52.6	159	102.8	-24.0	71.9	25.4	99.6	105
2018/10/25 02:56:27	32841 EO9	7.2	19.27	5.87	16	2.1	36°15'55" 50°11'22"	355	1.8	UCAC4 573-34770	13.40	6 ^h 49 ^m 57.178 ^s 24°31'17.551"	63.2	203	110.0	-12.6	65.0	14.7	99.6	161
2018/10/25 03:33:48	19983 DW	7.2	17.10	5.67	175	2.0	35°17'46" 51°29'20"	336	0.4	UCAC4 613-29409	11.44	5 ^h 57 ^m 25.888 ^s 32°35'06.295"	59.7	248	121.5	-6.6	54.3	8.9	99.6	85
2018/10/25 14:43:24	28552 EY38	5.8	18.18	4.44	164	1.0	33°59'50" 50°04'09"	271	0.7	UCAC4 392-127997	13.76	22 ^h 07 ^m 13.085 ^s -11°47'21.824"	18.8	138	117.7	-3.8	73.6	-4.7	98.9	118
2018/10/25 16:39:06	1988 Delores	23.6	17.25	5.54	148	1.4	37°38'55" 49°03'27"	139	3.2	UCAC4 338-203141	11.72	20 ^h 39 ^m 54.543 ^s -22°33'48.169"	17.0	190	94.5	-22.3	97.4	13.1	98.7	102
2018/10/25 16:47:11	6067 QR11	16.6	16.99	5.44	49	1.4	36°34'09" 50°26'59"	24	4.0	UCAC4 424-127265	11.55	20 ^h 53 ^m 44.509 ^s -5°14'02.241"	34.4	190	102.1	-23.6	91.0	14.4	98.7	156
2018/10/25 17:16:36	27861 BL4	6.9	16.92	5.41	173	1.3	38°04'54" 49°01'25"	132	0.5	UCAC4 519-143258	11.52	23 ^h 19 ^m 40.023 ^s 13°37'31.809"	50.1	148	141.1	-28.2	52.4	19.0	98.6	92
2018/10/25 17:43:28	3453 Dostoevsky	12.0	15.88	4.40	166	1.2	37°50'31" 48°56'41"	138	0.9	UCAC4 579-7713	11.50	3 ^h 22 ^m 21.491 ^s 25°39'18.787"	29.2	84	156.2	-32.3	15.4	23.2	98.6	86
2018/10/25 18:26:21	2276 Warck	8.7	17.35	7.14	243	1.6	33°53'18" 51°37'27"	316	0.7	TYC 1294-1928-1	10.21	5 ^h 10 ^m 09.570 ^s 21°19'42.526"	15.8	76	133.6	-38.5	33.2	29.8	98.5	160
2018/10/25 19:11:18	2244 Tesla	29.6	14.81	3.46	140	3.6	35°38'09" 51°14'00"	341	3.8	TYC 4687-1214-1	11.39	1 ^h 39 ^m 12.741 ^s -4°00'30.785"	31.4	149	163.0	-44.3	25.4	36.3	98.4	87
2018/10/25 19:38:22	892 Seeligeria	75.9	15.91	2.44	224	4.4	37°32'12" 51°53'53"	23	7.6	UCAC4 419-136536	13.59	20 ^h 09 ^m 27.208 ^s -6°18'14.015"	12.1	245	91.1	-47.1	103.6	40.0	98.4	172
2018/10/25 19:48:11	5069 Tokaidai	8.3	16.99	3.10	70	0.7	36°01'56" 50°39'12"	345	2.6	UCAC4 383-161638	13.95	21 ^h 25 ^m 45.507 ^s -13°29'47.110"	14.8	226	107.4	-48.1	86.7	41.2	98.4	102
2018/10/25 19:49:59	23186 PO8	16.6	18.11	7.38	37	3.7	36°27'12" 49°43'47"	161	3.3	UCAC4 536-17182	10.73	5 ^h 40 ^m 13.417 ^s 17°00'16.781"	21.2	88	126.6	-48.2	39.1	41.4	98.4	197
2018/10/25 20:26:56	3961 Arthurcox	11.0	16.52	4.27	221	1.1	37°14'18" 48°09'46"	162	0.5	UCAC4 643-15961	12.27	3 ^h 40 ^m 30.923 ^s 38°31'53.420"	61.0	99	145.4	-50.9	27.9	45.7	98.3	110
2018/10/25 20:51:06	17051 O'lynn	5.2	17.92	4.42	194	1.5	35°27'07" 48°23'48"	198	0.2	UCAC4 601-23445	13.52	5 ^h 42 ^m 11.493 ^s 30°08'04.830"	40.1	89	125.7	-52.0	41.2	48.1	98.3	89
2018/10/25 20:53:56	6804 Maruseppu	6.3	17.33	5.07	8	2.0	36°21'47" 49°59'39"	137	2.9	UCAC4 443-133899	12.27	23 ^h 02 ^m 32.382 ^s -1°26'48.011"	29.1	225	133.9	-52.0	61.4	48.3	98.2	86

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 21		LinOccult 2.3.1			
		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 (%)	σ_{km}
2018/10/25 22:09:03	16724 Ulliotzmann	5.2	16.84	4.14	42	0.6	36°08'56" 49°40'59"	194	1.5	UCAC4 388-23822	12.73	7 ^h 07 ^m 25.405 ^s −12°33'10.488"	6.2	118	99.8	-50.9	64.9	52.5	98.1	129
2018/10/25 22:52:15	5422 Hodgkin	9.5	17.21	6.29	211	0.8	38°00'34" 48°31'24"	144	0.6	UCAC4 591-42053	10.93	7 ^h 35 ^m 24.883 ^s 28°09'09.671"	40.1	92	101.1	-47.7	64.0	52.3	98.0	113
2018/10/25 23:10:16	57562 2001 TS48	5.5	16.73	4.61	185	0.5	37°37'13" 48°38'04"	149	0.3	UCAC4 535-3257	12.13	1 ^h 50 ^m 48.035 ^s 16°50'59.571"	48.9	227	174.8	-45.9	19.1	51.6	97.9	89
2018/10/25 23:23:01	17793 1998 FO58	5.5	17.94	4.62	104	0.5	36°51'34" 50°54'43"	23	1.3	UCAC4 489-29151	13.33	6 ^h 45 ^m 55.582 ^s 7°42'11.003"	36.2	128	109.7	-44.5	53.6	51.0	97.9	96
2018/10/26 00:41:15	418 Aleman- nia	34.1	14.58	1.12	112	2.5	35°54'48" 49°04'07"	194	7.3	UCAC4 538-45048	13.94	7 ^h 55 ^m 26.807 ^s 17°25'44.015"	45.6	123	94.8	-34.1	68.3	44.1	97.8	116
2018/10/26 00:51:04	1376 Michelle	11.0	14.56	2.63	184	3.6	35°53'54" 51°41'09"	351	0.1	UCAC4 441-500	12.04	0 ^h 22 ^m 55.066 ^s −1°52'39.070"	6.5	259	151.9	-32.6	44.6	43.0	97.7	61
2018/10/26 00:51:38	13360 1998 UD8	9.1	17.76	4.19	101	3.5	36°34'45" 50°55'52"	12	2.1	UCAC4 564-17340	13.59	5 ^h 31 ^m 53.105 ^s 22°38'37.645"	62.9	181	128.8	-32.5	34.8	42.9	97.7	118
2018/10/26 01:54:36	3107 Weaver	6.9	17.61	5.81	182	1.5	35°52'48" 48°25'49"	189	0.4	UCAC4 567-33578	11.80	6 ^h 53 ^m 30.689 ^s 23°20'21.002"	63.4	172	110.1	-22.7	52.8	34.7	97.6	93
2018/10/26 02:31:09	5373 1988 VV3	7.6	16.38	3.94	58	0.8	36°22'05" 50°33'50"	6	2.8	UCAC4 529-4521	12.47	2 ^h 40 ^m 23.250 ^s 15°39'38.451"	25.8	264	169.8	-16.9	8.9	29.4	97.5	87
2018/10/26 03:00:44	994 Otthild	24.4	15.57	4.02	138	1.2	36°07'27" 51°16'60"	355	4.3	TYC 2493- 1360-1	11.58	9 ^h 12 ^m 48.262 ^s 31°56'28.621"	65.7	129	81.8	-12.1	82.3	25.0	97.4	149
2018/10/26 03:28:24	2162 Anhui	10.0	16.32	4.03	91	0.8	36°36'52" 50°50'00"	15	2.6	UCAC4 545-42383	12.31	7 ^h 34 ^m 53.624 ^s 18°48'35.931"	58.2	196	100.0	-7.7	61.8	20.7	97.4	82
2018/10/26 14:58:18	7209 Cyrus	8.3	17.72	4.39	184	0.7	38°20'15" 49°03'43"	127	0.9	UCAC4 372-176401	13.35	21 ^h 02 ^m 04.407 ^s −15°40'32.386"	22.1	159	100.5	-6.4	103.7	-6.4	95.5	121
2018/10/26 16:13:20	22404 1995 ME4	13.2	20.35	7.15	21	0.6	36°33'11" 50°08'07"	63	1.3	UCAC4 359-160670	13.20	18 ^h 39 ^m 55.980 ^s −18°23'05.699"	15.2	214	66.6	-18.4	138.4	4.2	95.3	409
2018/10/26 16:22:06	14984 1997 TN26	6.0	16.25	3.66	203	0.6	36°43'17" 48°14'51"	171	0.2	UCAC4 505-2499	12.63	1 ^h 37 ^m 52.782 ^s 10°48'41.518"	22.6	100	173.7	-19.9	31.5	5.5	95.3	85
2018/10/26 17:17:28	1645 Water- field	30.6	16.86	3.87	130	1.0	34°39'21" 50°34'42"	297	5.1	UCAC4 336-142293	13.02	18 ^h 21 ^m 42.294 ^s −22°55'44.865"	2.3	229	62.0	-28.6	143.2	14.0	95.1	187
2018/10/26 17:24:01	160527 1996 RE31	11.5	20.44	10.91	96	0.5	37°38'01" 50°02'13"	91	1.0	TYC 6878- 137-1	9.53	19 ^h 13 ^m 47.044 ^s −25°01'56.940"	5.5	219	73.7	-29.7	131.2	15.0	95.0	433
2018/10/26 19:05:13	37374 2001 VA37	5.5	18.18	5.38	70	1.3	36°42'51" 49°28'60"	154	1.6	UCAC4 552-10605	12.81	4 ^h 42 ^m 45.555 ^s 20°20'22.608"	26.3	89	141.1	-43.9	12.9	30.9	94.8	117
2018/10/26 20:01:08	4807 Noboru	6.3	16.39	5.91	18	1.1	36°11'06" 50°11'37"	336	4.0	UCAC4 572-25115	10.48	6 ^h 09 ^m 46.240 ^s 24°13'32.863"	24.2	80	120.9	-49.5	32.6	39.2	94.5	61
2018/10/26 20:35:07	1067 Lunaria	21.0	15.96	3.08	59	1.6	37°05'42" 49°56'15"	102	5.6	UCAC4 400-131307	12.95	20 ^h 38 ^m 36.072 ^s −10°07'07.929"	4.4	249	96.2	-51.7	111.2	43.9	94.4	134
2018/10/26 21:44:03	12116 1999 JA34	9.1	18.38	4.43	128	2.0	35°16'04" 50°59'35"	325	1.7	UCAC4 461-129323	13.96	22 ^h 27 ^m 25.067 ^s 2°05'49.452"	20.1	248	125.4	-52.3	82.7	51.8	94.1	160

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.				Table 1		Page 22		LinOccult 2.3.1			
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 (%)	σ_{km}	
2018/10/26 21:47:09	11045 HH1	6.0	19.27	6.26	102	0.8	35°59'50" 49°09'08"	192	1.3 1.7	UCAC4 492-38980	13.01	7 ^h 11 ^m 15.442 ^s 8°19'49.599"	19.5	101	104.6	-52.2	47.4	52.1	94.1	142	
2018/10/26 22:52:28	30788 Angekauff- mann	7.2	16.16	2.64	230	0.5	38°38'01" 51°28'49"	46	0.1 3.4	UCAC4 658-11099	13.62	2 ^h 35 ^m 33.340 ^s 41°34'32.435"	76.3	238	150.1	-48.0	31.4	56.1	93.9	84	
2018/10/26 23:30:30	14439 Ever- meersch	6.0	18.04	4.46	212	1.7	36°12'04" 51°57'08"	358	0.3 2.3	UCAC4 573-13428	13.59	4 ^h 58 ^m 55.340 ^s 24°24'01.011"	63.3	158	137.1	-43.9	15.4	56.4	93.8	107	
2018/10/26 23:56:46	5140 Kida	15.8	15.62	2.58	103	1.6	35°31'43" 50°50'11"	328	3.7 5.5	UCAC4 436-1878	13.14	1 ^h 30 ^m 50.571 ^s −2°58'45.443"	23.0	234	162.3	-40.6	42.6	55.6	93.6	116	
2018/10/27 01:33:05	944 Hidalgo	23.2	14.39	5.68	54	0.9	35°43'04" 50°22'09"	311	5.1 5.4	TYC 4374- 573-1	8.72	8 ^h 09 ^m 03.668 ^s 69°22'37.965"	66.5	24	101.4	-26.4	64.2	47.5	93.3	171	
2018/10/27 02:22:11	29155 1988 XE	6.9	15.56	1.83	198	0.9	36°56'28" 51°46'30"	14	0.1 3.8	UCAC4 573-1674	13.95	0 ^h 43 ^m 29.630 ^s 24°29'00.301"	14.6	291	157.4	-18.6	48.7	41.1	93.1	73	
2018/10/27 02:41:50	34275 2000 QE136	5.5	19.88	9.04	4	0.5	36°18'14" 50°04'50"	19	1.3 1.3	UCAC4 478-38960	10.84	7 ^h 35 ^m 18.883 ^s 5°30'24.774"	45.6	178	98.3	-15.4	51.3	38.4	93.0	171	
2018/10/27 03:52:33	6045 1991 RG9	6.0	18.06	4.40	109	1.9	37°37'06" 50°32'08"	60	1.3 2.5	UCAC4 550-29872	13.68	6 ^h 34 ^m 15.033 ^s 19°53'43.833"	51.1	231	115.3	-4.1	33.5	27.9	92.8	98	
2018/10/27 18:57:18	33750 Dave- higgins	10.0	16.35	2.55	9	0.6	36°25'01" 50°03'21"	84	2.7 2.7	UCAC4 724-36047	13.91	4 ^h 55 ^m 33.493 ^s 54°38'45.160"	45.0	53	126.8	-43.2	36.1	23.4	88.8	150	
2018/10/27 19:22:12	14410 1991 RR1	10.0	16.47	3.10	9	0.9	36°24'30" 50°02'39"	92	3.7 3.7	UCAC4 526-2692	13.43	1 ^h 33 ^m 49.564 ^s 15°06'53.804"	51.5	147	171.6	-46.1	46.9	27.3	88.6	107	
2018/10/27 19:27:39	1147 Stavropo- lis	17.4	15.24	1.69	217	0.7	35°30'19" 48°10'01"	195	0.5 7.3	UCAC4 368-180242	13.81	20 ^h 00 ^m 58.214 ^s −16°29'55.283"	3.0	240	84.9	-46.7	134.6	28.2	88.6	95	
2018/10/27 20:07:42	1522 Kikkola	10.8	14.96	2.75	223	1.1	37°11'59" 48°08'16"	163	0.0 6.2	UCAC4 495-3293	12.30	2 ^h 14 ^m 07.703 ^s 8°58'11.352"	46.1	152	175.8	-50.3	39.4	34.4	88.4	70	
2018/10/27 20:53:37	19379 Labrecque	6.6	16.59	4.41	9	0.5	36°24'01" 50°01'09"	111	3.3 3.4	UCAC4 716-47325	12.19	8 ^h 11 ^m 08.736 ^s 53°09'25.650"	34.5	46	99.8	-52.7	51.1	41.3	88.2	78	
2018/10/27 22:05:45	12591 1999 RT133	5.5	18.27	5.15	48	2.0	36°23'22" 50°28'12"	9	2.0 2.2	UCAC4 566-27587	13.13	6 ^h 30 ^m 09.399 ^s 23°01'02.464"	40.7	103	117.3	-51.8	21.9	50.9	87.7	99	
2018/10/27 22:23:59	15127 2000 EN45	12.0	15.59	3.51	84	1.1	35°45'45" 49°22'38"	207	2.6 3.0	UCAC4 673-18304	12.12	3 ^h 16 ^m 55.664 ^s 44°24'58.396"	84.6	175	145.1	-50.6	32.9	53.0	87.7	161	
2018/10/27 23:01:21	16314 1248 T- 1	6.9	17.99	4.30	228	0.5	37°14'35" 48°05'39"	163	0.4 2.2	UCAC4 535-4511	13.71	2 ^h 36 ^m 01.263 ^s 16°54'09.134"	53.8	211	172.1	-47.4	34.0	56.5	87.5	126	
2018/10/27 23:02:49	4464 Vulcano	6.3	16.26	3.09	228	0.6	38°41'25" 51°25'28"	48	0.0 4.2	UCAC4 683-29211	13.24	4 ^h 20 ^m 36.672 ^s 46°27'34.369"	84.3	125	136.3	-47.3	28.5	56.6	87.5	60	
2018/10/28 01:56:39	3471 Amelin	29.6	16.58	2.87	237	4.2	33°19'11" 49°08'29"	245	2.9 6.0	UCAC4 667-35563	13.79	5 ^h 16 ^m 19.975 ^s 43°21'05.914"	73.2	255	129.6	-22.9	24.2	53.4	86.6	196	
2018/10/28 03:05:34	727 Nipponia	32.2	14.43	4.38	14	1.7	36°09'44" 49°56'60"	219	10.7 10.7	TYC 813- 322-1	10.07	8 ^h 42 ^m 40.292 ^s 10°32'55.491"	49.6	162	84.2	-11.8	52.2	45.0	86.3	119	
2018/10/28 03:33:08	31786 1999 KO13	6.3	18.25	4.48	166	2.7	34°40'31" 51°08'05"	316	0.7 2.3	UCAC4 582-22308	13.79	6 ^h 03 ^m 20.483 ^s 26°21'13.619"	54.3	242	123.6	-7.4	13.9	41.1	86.0	110	

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 23		LinOccult 2.3.1			
		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 (%)	σ_{km}
2018/10/28 15:38:57	233 Asterope	102.8	13.35	0.73	198	3.4	35°42'03" 51°47'24"	348	10.7	UCAC4 371-150453	13.40	18 ^h 50 ^m 54.994 ^s -15°50'55.135"	20.6	206	67.6	-13.4	162.4	-10.0	82.0	136
2018/10/28 16:53:39	164208 HB27	2004	20.13	8.05	181	0.5	38°06'43" 48°55'58"	134	0.9	UCAC4 332-201499	12.08	19 ^h 45 ^m 34.331 ^s -23°45'17.847"	11.6	208	79.1	-25.4	151.4	-1.4	81.5	439
2018/10/28 17:16:06	2235 Vittore	44.5	17.44	4.38	4	1.7	36°16'21" 50°04'53"	345	7.4	UCAC4 422-83318	13.07	18 ^h 39 ^m 39.291 ^s -5°38'12.134"	18.4	236	66.6	-29.0	159.8	1.5	81.4	240
2018/10/28 17:19:11	2456 Palamedes	91.7	17.29	5.31	108	4.4	37°48'12" 50°02'26"	90	8.2	UCAC4 310-252708	11.98	19 ^h 30 ^m 37.245 ^s -28°04'37.061"	4.1	215	75.1	-29.5	154.5	2.0	81.4	431
2018/10/28 17:29:41	32219 OU20	2000	9.1	17.88	7.29	1.1	36°35'30" 49°39'29"	153	2.7	UCAC4 648-30107	10.59	5 ^h 25 ^m 55.605 ^s 39°33'30.753"	20.7	52	129.7	-31.1	19.5	3.4	81.4	124
2018/10/28 18:57:02	1420 Radcliffe	23.8	15.92	3.47	37	2.5	36°00'11" 50°19'36"	327	9.4	UCAC4 563-7768	12.49	3 ^h 39 ^m 37.690 ^s 22°24'25.586"	37.9	100	157.0	-43.5	29.7	16.1	80.8	93
2018/10/28 19:45:08	8711 Lukeasher	6.6	18.13	6.21	73	0.7	36°52'05" 49°30'38"	145	1.9	UCAC4 375-7666	11.92	5 ^h 17 ^m 33.259 ^s -15°01'02.560"	1.0	115	125.9	-48.8	36.6	23.5	80.4	113
2018/10/28 19:48:23	68397 QP82	2001	18.19	6.33	229	0.7	35°35'32" 52°03'39"	348	0.4	UCAC4 677-26234	11.87	4 ^h 18 ^m 39.748 ^s 45°14'37.707"	54.0	76	138.0	-49.1	30.9	24.0	80.5	135
2018/10/28 22:23:51	26171 BY2	1996	5.0	16.39	2.66	45	35°59'42" 50°24'28"	333	2.4	UCAC4 497-3912	13.83	2 ^h 51 ^m 28.435 ^s 9°21'27.497"	49.2	190	169.5	-51.0	45.9	47.4	79.5	65
2018/10/28 22:42:01	1683 Castaflore	15.8	15.25	1.74	155	1.4	36°08'39" 51°26'23"	356	1.7	UCAC4 604-4550	13.75	1 ^h 42 ^m 45.053 ^s 30°43'40.432"	61.5	238	161.2	-49.5	57.4	49.8	79.3	95
2018/10/28 23:00:15	876 Scott	25.8	15.99	2.21	105	5.8	37°09'10" 50°48'42"	36	5.8	UCAC4 500-29601	13.93	6 ^h 37 ^m 36.426 ^s 9°51'14.013"	37.7	126	115.0	-47.8	14.4	52.1	79.1	124
2018/10/28 23:42:11	139564 QC76	2001	5.8	18.01	184	0.6	37°37'49" 51°28'09"	31	0.6	UCAC4 616-12044	12.16	3 ^h 59 ^m 22.164 ^s 33°04'59.767"	72.0	205	148.5	-43.0	29.3	56.7	79.0	128
2018/10/29 00:35:24	10391 RR3	1997	9.1	16.02	22	0.9	36°27'36" 49°53'11"	145	4.5	TYC 57-454-1	10.75	3 ^h 21 ^m 14.444 ^s 1°11'42.569"	34.2	220	159.0	-35.7	43.9	60.4	78.6	78
2018/10/29 01:22:33	21167 XQ	1993	5.5	18.17	7.41	1.7	36°33'46" 48°42'26"	172	0.8	TYC 1295-564-1	10.76	5 ^h 13 ^m 27.427 ^s 22°22'26.055"	59.9	210	136.1	-28.5	11.8	61.0	78.3	106
2018/10/29 01:49:53	27621 KF67	2001	11.0	17.61	4.03	0.7	35°04'32" 48°24'55"	205	1.1	UCAC4 528-47597	13.60	8 ^h 22 ^m 41.255 ^s 15°28'45.225"	50.3	141	91.1	-24.2	33.1	60.1	78.1	137
2018/10/29 02:18:44	11182 GM6	1998	7.6	17.23	3.88	0.8	35°55'00" 52°17'46"	354	0.1	UCAC4 474-5462	13.38	3 ^h 52 ^m 08.931 ^s 4°42'52.632"	28.3	240	153.9	-19.6	36.4	58.2	77.9	100
2018/10/29 02:46:55	54931 OY102	2001	6.3	16.73	7.06	1.6	37°54'43" 50°50'58"	52	0.6	TYC 2887-1451-1	9.67	4 ^h 23 ^m 36.094 ^s 42°14'43.950"	55.5	276	139.4	-15.1	30.5	55.6	77.7	78
2018/10/29 03:45:17	54456 NJ17	2000	5.5	18.87	5.07	0.6	37°15'01" 50°18'53"	67	1.3	UCAC4 665-26357	13.81	4 ^h 32 ^m 57.533 ^s 42°55'44.588"	48.1	285	137.7	-5.8	29.9	48.7	77.4	144
2018/10/29 04:07:21	55564 AQ188	2002	6.3	19.39	5.91	0.7	38°23'24" 49°45'28"	102	1.0	UCAC4 472-23542	13.49	6 ^h 51 ^m 43.043 ^s 4°16'49.364"	36.8	222	110.6	-2.4	19.5	45.7	77.2	163
2018/10/29 15:16:05	55182 QB282	2001	6.0	17.89	3.95	0.5	39°24'06" 51°09'46"	61	0.2	UCAC4 571-131781	13.97	23 ^h 22 ^m 18.286 ^s 24°06'45.862"	45.4	107	138.1	-10.0	97.4	-15.8	72.7	113

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.		Table 1		Page 24		LinOccult 2.3.1				
		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 (%)	σ_{km}
2018/10/29 17:10:10	14195 XD51	13.8	19.16	6.56	111	0.7	35°06'39'' 50°42'29''	311	1.9	UCAC4 335-206976	12.60	19 ^h 40 ^m 02.987 ^s −23°08'04.079''	10.0	214	76.9	-28.3	166.7	-5.8	71.9	257
2018/10/29 17:40:34	52290 SF	5.5	18.62	4.87	165	0.9	35°11'17'' 51°21'30''	332	0.7	UCAC4 559-20302	13.76	5 ^h 49 ^m 21.267 ^s 21°41'01.927''	5.7	63	128.4	-33.0	12.7	-2.2	71.8	129
2018/10/29 17:43:07	66519 RZ99	5.0	18.42	6.32	237	0.6	37°10'10'' 52°06'14''	15	0.4	UCAC4 444-128598	12.10	21 ^h 51 ^m 49.159 ^s −1°15'44.673''	37.8	195	113.2	-33.4	130.2	-1.9	71.7	145
2018/10/29 18:04:15	26591 Robertrees	5.5	18.49	4.77	170	1.7	35°00'56'' 51°20'40''	328	0.6	UCAC4 559-19527	13.73	5 ^h 46 ^m 21.250 ^s 21°41'56.181''	9.6	68	129.1	-36.5	13.6	0.8	71.7	109
2018/10/29 18:31:59	31381 XW86	6.3	17.05	5.58	201	1.0	39°02'60'' 49°44'06''	100	0.1	UCAC4 560-11916	11.48	4 ^h 53 ^m 15.934 ^s 21°56'38.825''	22.3	82	141.5	-40.5	26.3	4.5	71.3	77
2018/10/29 18:59:19	74515 FL28	5.8	18.35	7.25	104	0.5	35°36'54'' 50°52'38''	333	1.3	UCAC4 610-9611	11.10	3 ^h 20 ^m 40.527 ^s 31°57'22.734''	48.5	96	156.1	-44.0	47.0	8.3	71.2	138
2018/10/29 19:15:15	47036 WP1	5.2	18.55	4.86	123	0.7	35°40'60'' 49°00'34''	200	1.0	UCAC4 379-440	13.70	0 ^h 21 ^m 59.161 ^s −14°18'51.069''	25.7	177	140.5	-45.9	101.2	10.6	71.0	141
2018/10/29 22:04:55	131427 OW98	5.8	17.42	6.26	137	0.6	36°34'32'' 48°49'36''	171	1.0	UCAC4 623-4217	11.16	1 ^h 26 ^m 49.186 ^s 34°34'29.189''	66.8	238	156.2	-52.4	72.0	36.4	69.8	136
2018/10/29 22:23:17	6222 PB3	29.0	17.40	5.02	258	1.2	38°57'26'' 48°31'06''	132	2.0	UCAC4 621-46407	12.40	9 ^h 40 ^m 03.973 ^s 34°00'25.758''	22.6	64	80.9	-51.3	38.1	39.2	69.6	164
2018/10/29 22:27:17	4389 Durbin	11.5	16.57	4.21	31	1.4	36°24'47'' 49°46'45''	163	4.3	UCAC4 537-8292	12.39	4 ^h 18 ^m 51.567 ^s 17°21'50.311''	55.8	157	150.1	-51.0	37.3	39.8	69.6	102
2018/10/29 22:31:19	3552 Don Quixote	9.1	16.50	5.76	108	0.7	36°37'21'' 50°59'49''	13	2.0	UCAC4 722-13589	10.74	1 ^h 33 ^m 21.018 ^s 54°23'04.924''	71.8	295	138.3	-50.7	67.6	40.4	69.6	100
2018/10/29 23:44:52	7854 Laotse	5.5	17.69	5.33	47	0.6	36°26'45'' 49°38'16''	166	2.2	UCAC4 589-41180	12.37	7 ^h 37 ^m 54.788 ^s 27°45'58.639''	50.3	107	104.5	-42.9	10.8	50.7	69.0	85
2018/10/30 00:00:02	13728 QC98	5.5	17.58	5.53	74	1.3	35°24'22'' 49°42'07''	239	1.8	UCAC4 493-20927	12.05	6 ^h 09 ^m 38.439 ^s 8°35'02.384''	46.2	154	122.5	-40.9	17.8	52.6	68.8	81
2018/10/30 00:27:08	82967 QV132	5.0	19.38	6.99	41	1.0	35°46'06'' 50°12'29''	296	1.3	UCAC4 502-15829	12.39	5 ^h 50 ^m 43.168 ^s 10°16'14.367''	50.1	170	127.4	-37.2	20.3	55.7	68.7	143
2018/10/30 00:29:56	31057 SK4	6.0	18.37	4.55	142	0.7	34°45'45'' 49°14'44''	231	1.0	UCAC4 648-28584	13.84	5 ^h 19 ^m 22.506 ^s 39°33'45.896''	79.7	189	132.1	-36.8	28.5	56.0	68.8	112
2018/10/30 00:44:23	16674 Birke-land	5.0	18.67	5.35	136	4.8	37°47'59'' 49°18'40''	127	0.8	UCAC4 589-27867	13.33	6 ^h 11 ^m 28.898 ^s 27°47'21.522''	67.3	163	123.6	-34.6	13.5	57.4	68.5	108
2018/10/30 00:57:18	1283 Komso-molia	26.9	16.06	2.66	209	1.4	35°48'27'' 48°12'03''	189	2.9	UCAC4 503-51245	13.50	9 ^h 03 ^m 12.558 ^s 10°30'44.066''	35.0	119	81.2	-32.7	30.7	58.5	68.5	164
2018/10/30 01:59:56	30502 RY29	6.9	18.71	6.26	219	0.5	34°08'12'' 48°39'35''	225	0.6	UCAC4 496-46274	12.45	7 ^h 37 ^m 27.203 ^s 9°06'57.246''	48.5	165	101.4	-22.8	14.3	61.4	68.1	141
2018/10/30 02:23:15	57353 QM288	2001 6.0	18.39	5.93	34	0.7	36°08'34'' 50°20'10''	342	1.8	UCAC4 572-11890	12.46	4 ^h 42 ^m 10.044 ^s 24°18'50.700''	50.0	245	144.0	-19.1	33.4	61.2	67.9	128
2018/10/30 02:30:22	186 Celuta	50.0	14.23	0.96	232	2.2	36°01'09'' 52°07'21''	355	4.3	UCAC4 582-44331	13.85	9 ^h 50 ^m 31.911 ^s 26°21'26.587''	54.2	118	75.9	-18.0	37.6	61.1	67.8	159

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.		Table 1		Page 25		LinOccult 2.3.1				
		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 (%)	σ_{km}
2018/10/30 03:13:14	29883 GB31	7.6	18.34	5.25	221	1.4	33°39'14" 51°07'12"	302	0.6	UCAC4	13.10	6 ^h 07 ^m 27.276 ^s 9°45'30.072"	42.4	223	123.4	-11.1	18.7	58.8	67.4	132
2018/10/30 03:20:55	25232 Schatz	5.5	18.31	4.36	251	1.4	35°11'15" 47°54'38"	198	0.1	UCAC4	13.97	5 ^h 18 ^m 48.971 ^s 21°15'42.541"	44.5	248	136.0	-9.9	25.7	58.1	67.4	107
2018/10/30 17:54:41	3661 Dolmatovskij	12.0	18.07	4.30	86	0.5	36°22'24" 49°16'28"	176	2.4	UCAC4	13.79	19 ^h 44 ^m 28.974 ^s -23°01'22.829"	5.6	223	76.9	-35.4	177.6	-7.9	60.9	177
2018/10/30 20:03:18	1224 Fantasia	13.9	13.35	2.28	53	2.8	36°58'07" 49°51'13"	114	6.3	UCAC4	11.21	0 ^h 16 ^m 38.969 ^s 15°54'02.182"	54.7	200	150.4	-51.0	105.4	8.5	59.8	55
2018/10/30 20:57:01	607 Jenny	62.8	15.34	5.49	261	7.9	34°57'48" 52°14'18"	339	2.7	UCAC4	9.86	7 ^h 36 ^m 38.045 ^s 24°08'06.033"	21.7	78	105.2	-53.8	5.4	16.4	59.4	130
2018/10/30 21:01:28	8510 PT8	6.3	17.97	6.87	195	1.4	34°06'56" 49°00'45"	233	0.5	UCAC4	11.10	5 ^h 45 ^m 45.046 ^s 6°52'58.015"	26.9	113	128.8	-53.9	33.9	17.1	59.3	116
2018/10/30 21:18:11	25868 JT6	5.2	18.84	5.32	33	1.5	36°03'05" 49°47'21"	210	1.7	UCAC4	13.52	6 ^h 37 ^m 32.573 ^s 8°46'55.791"	23.1	104	116.7	-54.0	22.1	19.6	59.1	118
2018/10/30 21:21:49	7084 1991 BR	6.3	18.41	5.44	167	0.7	34°35'35" 51°05'50"	314	0.8	UCAC4	12.97	4 ^h 56 ^m 53.260 ^s 13°03'47.421"	41.7	126	141.7	-54.0	43.0	20.2	59.3	114
2018/10/30 21:35:53	16476 QU4	5.2	16.77	4.05	205	0.6	36°38'51" 48°13'24"	173	0.0	UCAC4	12.75	3 ^h 34 ^m 14.972 ^s 15°45'59.918"	54.1	156	161.8	-53.8	61.7	22.3	59.2	71
2018/10/30 22:35:36	36338 NN9	6.0	19.03	5.43	90	1.2	36°37'12" 50°49'25"	15	1.4	UCAC4	13.61	7 ^h 06 ^m 24.261 ^s 13°34'42.528"	34.3	112	110.6	-50.7	14.1	31.5	58.6	143
2018/10/30 23:16:42	64552 WE15	6.6	16.39	4.52	226	0.7	37°10'20" 52°00'07"	16	0.3	TYC 1192-1713-1	11.89	1 ^h 03 ^m 58.811 ^s 18°02'50.981"	39.9	248	161.4	-46.6	96.0	37.7	58.3	107
2018/10/30 23:53:03	5483 Cherkashin	15.8	17.05	5.01	183	2.6	37°29'05" 51°30'29"	28	1.9	UCAC4	12.05	5 ^h 41 ^m 11.545 ^s 26°18'36.457"	64.9	155	131.4	-42.1	32.4	43.1	58.1	138
2018/10/31 00:21:57	9892 YN3	5.2	17.78	4.03	173	0.5	36°13'20" 48°29'49"	182	0.4	UCAC4	13.77	0 ^h 34 ^m 09.093 ^s 13°57'57.756"	21.9	266	154.4	-38.2	104.9	47.1	57.8	91
2018/10/31 00:25:26	3447 Burckhalter	12.0	14.59	1.50	187	1.1	34°44'09" 48°42'02"	216	0.0	UCAC4	13.41	1 ^h 23 ^m 17.833 ^s 33°37'57.943"	43.1	274	156.4	-37.7	86.5	47.6	57.8	59
2018/10/31 00:26:13	37390 WL49	6.6	16.62	3.92	202	1.1	34°07'59" 48°53'41"	230	0.2	UCAC4	12.73	4 ^h 28 ^m 27.939 ^s 43°58'20.323"	78.3	245	139.3	-37.5	50.0	47.7	57.8	89
2018/10/31 00:51:14	5944 Utesov	13.2	17.25	3.69	165	2.3	34°34'19" 49°03'57"	228	1.8	UCAC4	13.59	5 ^h 50 ^m 36.990 ^s 27°59'48.417"	68.2	182	129.2	-33.8	31.0	50.9	57.7	131
2018/10/31 00:53:00	55398 SX289	6.0	18.91	7.10	125	0.7	36°08'10" 48°55'48"	185	1.1	UCAC4	11.82	23 ^h 57 ^m 51.965 ^s 10°34'14.441"	8.5	276	145.2	-33.6	114.6	51.1	57.5	152
2018/10/31 01:03:54	29557 DV3	5.8	17.72	4.48	222	0.6	36°24'47" 48°03'27"	178	0.3	UCAC4	13.25	3 ^h 10 ^m 24.801 ^s 16°26'32.371"	41.5	242	167.5	-31.9	69.1	52.4	57.5	111
2018/10/31 01:12:52	8379 Straczynski	7.9	16.02	3.99	199	1.0	38°12'52" 51°20'53"	44	0.1	UCAC4	12.05	3 ^h 45 ^m 15.281 ^s 29°13'39.188"	55.1	248	155.0	-30.5	58.7	53.4	57.4	75
2018/10/31 03:06:00	30742 EG17	5.8	18.27	8.27	151	0.5	34°57'32" 51°06'47"	321	0.9	TYC 4745-67-1	10.00	4 ^h 58 ^m 35.705 ^s -4°18'10.015"	22.1	232	136.7	-12.5	52.7	60.3	56.5	121

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.		Table 1		Page 26		LinOccult 2.3.1				
		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 (%)	σ_{km}
2018/10/31 15:13:26	533 Sara	31.1	15.40	1.70	87	1.2	36°40'30'' 49°18'22''	161	6.5	UCAC4 365-173764	13.96	19 ^h 26 ^m 16.280 ^s -17°01'23.233''	22.1	193	72.8	-10.1	162.7	-20.9	50.8	167
2018/10/31 15:44:06	25634 AZ59	5.8	18.41	4.95	28	1.0	36°24'13'' 49°48'28''	163	1.7	UCAC4 434-146	13.47	0 ^h 06 ^m 18.346 ^s -3°19'54.306''	22.0	125	142.1	-15.0	127.2	-21.1	50.6	129
2018/10/31 15:44:34	51917 QQ83	7.9	17.89	4.47	78	0.8	35°19'13'' 50°23'02''	298	2.1	UCAC4 685-38100	13.43	5 ^h 34 ^m 51.158 ^s 46°51'59.400''	15.5	32	128.3	-15.1	46.7	-21.1	50.7	120
2018/10/31 16:08:30	35363 TV28	13.8	19.92	7.55	172	0.6	33°58'12'' 49°38'22''	255	1.2	UCAC4 265-186660	12.37	19 ^h 37 ^m 22.898 ^s -37°10'11.596''	0.3	199	72.7	-19.0	157.1	-20.8	50.4	404
2018/10/31 16:17:30	1996 Adams	15.8	15.41	2.88	63	1.9	35°25'10'' 49°58'04''	262	5.5	UCAC4 397-131042	12.61	22 ^h 28 ^m 22.132 ^s -10°36'49.927''	27.8	162	116.9	-20.4	152.8	-20.6	50.4	89
2018/10/31 19:19:11	757 Port-landia	32.1	13.27	0.60	175	6.8	36°24'39'' 48°28'34''	177	0.6	UCAC4 607-16729	13.61	5 ^h 06 ^m 05.194 ^s 31°23'47.262''	35.7	82	138.9	-47.0	51.3	-6.6	49.0	66
2018/10/31 20:25:31	28922 QK132	10.0	17.15	4.11	5	1.1	36°20'48'' 50°03'51''	67	3.3	UCAC4 698-29081	13.06	4 ^h 06 ^m 49.251 ^s 49°26'41.018''	65.1	76	138.8	-52.8	63.8	1.9	48.4	121
2018/10/31 20:41:11	31620 GB19	5.0	18.69	4.93	125	0.6	34°48'01'' 50°38'46''	302	1.0	UCAC4 317-237130	13.77	22 ^h 32 ^m 29.760 ^s -26°40'51.644''	2.1	222	110.7	-53.6	155.3	4.1	48.3	122
2018/10/31 20:53:30	36260 XQ111	6.3	19.16	5.75	17	0.7	36°03'18'' 50°01'30''	261	1.7	UCAC4 500-43681	13.42	7 ^h 25 ^m 09.525 ^s 9°59'38.634''	13.1	90	106.3	-54.0	22.9	5.8	48.0	144
2018/10/31 21:46:10	30502 RY29	6.9	18.68	4.85	139	0.6	36°37'25'' 51°16'41''	10	1.2	UCAC4 495-45258	13.84	7 ^h 38 ^m 22.003 ^s 8°54'57.630''	18.6	98	103.0	-53.9	20.8	13.5	47.6	140
2018/10/31 22:07:06	4308 Magarach	10.0	15.91	2.84	93	3.8	36°10'31'' 49°13'06''	185	2.5	UCAC4 644-24109	13.15	5 ^h 08 ^m 58.491 ^s 38°42'34.425''	66.7	108	136.1	-53.0	52.7	16.7	47.7	77
2018/10/31 22:07:52	4953 1990 MU	5.0	14.19	1.38	225	0.6	39°15'30'' 50°45'23''	70	0.0	UCAC4 310-6184	13.17	5 ^h 00 ^m 47.104 ^s -28°04'16.938''	8.4	156	123.0	-52.9	73.4	16.8	47.4	30
2018/10/31 22:24:09	2025 Nortia	40.2	17.01	3.16	222	2.2	37°14'34'' 48°09'14''	162	4.4	UCAC4 546-48088	13.91	9 ^h 19 ^m 46.005 ^s 19°10'44.725''	16.2	79	81.8	-51.9	5.6	19.3	47.4	206
2018/10/31 22:44:00	4467 Kaidanovskij	12.6	14.72	3.16	251	1.2	37°14'51'' 52°13'17''	16	0.2	TYC 636-687-1	11.62	2 ^h 08 ^m 45.474 ^s 14°05'48.682''	48.8	219	176.5	-50.3	96.7	22.3	47.2	97
2018/10/31 22:50:51	108777 OQ54	5.2	18.78	5.67	44	0.8	36°29'27'' 50°25'13''	19	1.5	UCAC4 676-36409	13.11	5 ^h 23 ^m 05.424 ^s 45°04'56.294''	74.8	101	131.2	-49.6	51.7	23.4	47.2	128
2018/10/31 23:02:09	524 Fidelio	71.7	13.95	1.60	193	14.3	34°18'30'' 51°14'40''	313	3.6	UCAC4 616-38256	12.63	6 ^h 56 ^m 44.494 ^s 33°08'28.079''	54.9	103	115.7	-48.5	31.0	25.1	47.1	91
2018/10/31 23:14:36	3827 Zdenekhorský	8.3	16.96	3.85	121	1.7	36°08'36'' 48°57'50''	185	1.5	UCAC4 596-16438	13.14	5 ^h 07 ^m 27.628 ^s 29°03'52.777''	67.5	153	139.3	-47.1	53.4	27.0	47.0	92

