

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 $M_v = 14.00$
Minimal Duration = 0.5s
Maximal Sun Elevation = 0.0
Minimal drop: 0.5
Minimal probability: 0.0
Minimal probability in nearest point: 0.5
Minimal star elevation: 0.0
Program: LinOccult 2.3.0
Author: Plekhanov Andrey andyplekhanov@gmail.com
Events number: 416

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 1		LinOccult 2.3.0			
		Asteroid			Nearest point			Star			Sun			Moon						
Date Time (UTC)	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Dist	Alt	Phase (%)	σ_{km}
2018/01/01 00:28:43	32453 Kanamishogo	7.2	17.78	4.61	194	0.6	35°04'17" 48°29'54"	207	0.8	UCAC4 645-29082	13.19	5 ^h 31 ^m 19.740 ^s 38°49'03.692"	46.2	280	157.7	-47.2	19.6	34.2	98.1	137
2018/01/01 00:42:31	4311 Zguridi	5.8	17.92	4.20	152	0.7	36°34'27" 51°24'09"	8	0.7	UCAC4 495-52041	13.74	8 ^h 56 ^m 54.491 ^s 8°54'43.026"	47.6	200	145.4	-45.1	48.9	32.1	98.1	99
2018/01/01 01:08:59	20623 Davidyoung	7.6	17.65	4.15	147	0.7	36°59'54" 51°17'07"	20	1.1	UCAC4 581-43116	13.53	8 ^h 55 ^m 11.610 ^s 26°04'47.029"	61.6	221	150.3	-41.0	45.2	28.0	98.2	108
2018/01/01 02:28:47	25837 EG30	6.3	18.83	5.93	245	1.0	39°38'34" 50°31'47"	77	0.3	UCAC4 539-49347	12.91	10 ^h 22 ^m 43.822 ^s 17°43'59.915"	54.7	211	129.0	-28.3	65.7	15.8	98.3	133
2018/01/01 03:59:46	1757 Porvoo	7.0	16.27	5.17	91	0.8	35°17'43" 49°32'28"	232	1.8	UCAC4 585-41731	11.11	8 ^h 07 ^m 23.060 ^s 26°53'35.198"	29.6	278	161.0	-13.9	32.8	2.7	98.6	73
2018/01/01 15:00:31	6752 Ashley	6.0	17.18	4.32	25	1.4	36°25'41" 50°14'54"	24	2.7	UCAC4 450-5397	12.88	3 ^h 52 ^m 20.034 ^s 0° - 9'41.595"	21.3	118	131.6	-11.7	40.6	14.0	99.5	84
2018/01/01 16:03:40	6278 Ametkhan	5.0	16.69	3.53	155	0.5	34°59'10" 51°10'00"	323	0.3	UCAC4 585-26736	13.20	6 ^h 16 ^m 11.141 ^s 26°56'44.323"	29.4	82	171.8	-21.5	7.1	23.7	99.6	77
2018/01/01 17:59:14	16784 YD2	10.0	16.68	3.70	232	1.0	34°22'09" 51°44'29"	324	0.5	UCAC4 660-37423	13.01	5 ^h 37 ^m 52.498 ^s 41°55'56.750"	63.4	93	156.0	-40.0	24.2	41.3	99.7	118
2018/01/01 18:30:44	1488 Aura	28.8	14.61	1.79	194	4.4	38°02'53" 48°43'46"	139	1.7	UCAC4 630-14309	13.05	3 ^h 55 ^m 57.271 ^s 35°53'40.863"	75.9	168	140.7	-44.9	36.7	45.7	99.8	99
2018/01/01 18:48:38	13817 Genobechetti	12.0	17.22	4.32	254	1.0	35°19'39" 47°50'59"	196	0.7	UCAC4 451-9620	12.92	5 ^h 17 ^m 51.472 ^s 0°02'04.082"	37.4	155	148.3	-47.6	26.3	48.1	99.8	140
2018/01/01 19:31:35	3030 Vehrenberg	5.8	15.31	1.69	75	0.9	36°41'53" 49°25'36"	157	1.7	UCAC4 578-24221	13.88	6 ^h 07 ^m 18.017 ^s 25°28'33.285"	60.7	138	170.3	-53.6	7.5	53.4	99.8	58
2018/01/01 19:37:33	21790 SN7	6.3	18.79	7.59	192	0.8	36°14'06" 48°19'12"	181	0.7	UCAC4 543-50659	11.20	10 ^h 07 ^m 57.901 ^s 18°34'59.279"	20.6	85	133.3	-54.3	51.3	54.0	99.8	141
2018/01/01 20:04:55	31817 RK134	13.8	16.65	2.91	41	1.1	36°26'05" 49°41'40"	165	3.6	UCAC4 552-36259	13.81	7 ^h 06 ^m 55.410 ^s 20°23'20.569"	53.3	133	175.0	-57.6	8.4	56.6	99.8	145
2018/01/01 20:35:36	2557 Putnam	10.0	16.53	3.13	170	0.6	36°17'02" 48°31'25"	180	0.7	UCAC4 460-1345	13.47	1 ^h 01 ^m 48.964 ^s 1°58'45.980"	13.6	257	93.9	-60.5	82.4	58.8	99.8	87
2018/01/01 20:46:37	32255 OT51	6.3	16.93	3.94	124	0.5	36°52'16" 49°00'08"	160	1.2	UCAC4 592-28445	13.02	6 ^h 12 ^m 06.466 ^s 28°23'06.156"	68.4	171	170.1	-61.3	9.7	59.4	99.8	101
2018/01/01 22:40:54	20840 Borishanin	5.5	17.02	3.31	124	0.6	36°04'30" 51°09'25"	353	1.0	UCAC4 529-12164	13.76	5 ^h 16 ^m 49.168 ^s 15°37'03.734"	43.6	236	157.1	-60.4	19.9	56.8	99.9	96
2018/01/02 01:36:04	3253 Gradie	7.6	16.82	3.21	28	0.6	36°31'41" 50°14'33"	38	3.2	UCAC4 602-31073	13.67	6 ^h 17 ^m 20.905 ^s 30°22'39.241"	36.8	275	169.6	-36.8	12.3	34.2	99.9	92
2018/01/02 01:55:30	22117 SX39	5.0	17.15	3.46	3	0.6	36°15'48" 50°01'22"	211	1.9	UCAC4 661-36476	13.73	5 ^h 25 ^m 51.021 ^s 42°04'55.856"	33.5	297	154.1	-33.6	28.0	31.2	99.9	106
2018/01/02 04:02:19	154827 RM7	5.2	19.36	6.08	124	0.6	38°01'30" 50°00'34"	92	1.0	UCAC4 677-52422	13.29	10 ^h 59 ^m 29.291 ^s 45°16'49.485"	67.0	271	125.2	-13.5	56.1	11.8	99.9	161
2018/01/02 13:52:25	6280 Sicardy	6.9	15.50	2.09	219	0.8	33°34'20" 50°58'58"	298	0.0	UCAC4 628-34481	13.58	6 ^h 32 ^m 05.301 ^s 35°34'41.601"	14.7	52	166.6	-1.9	18.9	-4.2	99.6	65

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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
2018/01/02 14:19:03	76564 GO105	5.2	17.58	5.82	117	0.5	35°01'59" 50°43'41"	310	1.1 1.9	UCAC4 629-30175	11.77	6 ^h 05 ^m 30.079 ^s 35°46'10.405"	21.9	60	163.6	-5.6	99.6	23.0	-0.9
2018/01/02 16:26:45	19919 Pogorelov	7.2	17.34	3.61	208	0.5	37°48'19" 48°27'44"	148	0.4 2.6	UCAC4 640-40500	13.77	7 ^h 26 ^m 33.687 ^s 37°59'42.357"	30.2	66	163.1	-25.0	99.4	18.3	17.2
2018/01/02 16:37:41	41545 RA43	8.3	17.25	3.42	194	0.8	36°53'10" 48°21'02"	167	0.6 3.0	UCAC4 479-8552	13.87	4 ^h 54 ^m 55.070 ^s 5°40'36.686"	31.6	123	146.9	-26.8	99.4	39.5	18.9
2018/01/02 17:06:11	5358 1992 QH	16.6	14.74	1.25	63	1.6	35°36'27" 50°24'48"	310	5.4 6.6	UNKNOWN UN- KNOWN	13.91	7 ^h 30 ^m 44.266 ^s 36°06'45.327"	34.3	73	164.3	-31.4	99.4	16.5	23.3
2018/01/02 18:11:44	59950 1999 RA220	8.7	18.19	7.82	64	1.2	36°32'20" 49°29'34"	164	2.1 2.3	UCAC4 597-10014	10.37	3 ^h 51 ^m 20.116 ^s 29°23'30.417"	69.1	165	139.1	-41.8	99.3	50.5	33.3
2018/01/02 18:21:04	35654 1998 MR33	7.6	18.68	4.98	24	0.5	36°07'56" 50°14'28"	333	1.9 1.9	UCAC4 563-44873	13.71	8 ^h 14 ^m 45.178 ^s 22°35'55.719"	30.0	90	161.0	-43.3	99.3	10.5	34.7
2018/01/02 18:21:20	1548 Palomaa	26.5	15.36	2.37	187	1.9	36°10'21" 48°22'14"	183	2.2 9.7	UCAC4 530-32485	13.12	6 ^h 44 ^m 37.477 ^s 15°59'21.579"	39.2	115	172.9	-43.3	99.3	11.7	34.8
2018/01/02 18:27:24	7017 Urad- owan	5.5	17.47	4.21	174	1.0	37°28'07" 51°25'09"	29	0.4 2.5	UCAC4 512-6489	13.28	4 ^h 06 ^m 06.445 ^s 12°21'36.333"	52.2	170	139.2	-44.2	99.3	49.7	35.7
2018/01/02 19:13:28	6216 San Jose	8.7	16.76	4.31	20	1.0	36°17'02" 49°52'04"	181	3.5 3.5	UCAC4 568-45314	12.47	8 ^h 52 ^m 53.920 ^s 23°34'47.371"	33.0	92	152.4	-51.0	99.2	18.8	42.4
2018/01/02 19:50:54	1251 Hedera	26.3	14.20	2.89	84	2.2	36°13'46" 49°17'51"	183	7.2 9.7	UCAC4 535-28277	11.38	6 ^h 29 ^m 11.208 ^s 16°57'43.694"	53.1	146	171.9	-55.8	99.2	16.0	47.6
2018/01/02 19:55:54	4956 Noymer	7.2	16.93	3.17	31	0.6	36°27'29" 50°18'15"	23	2.9 3.0	UCAC4 386-29867	13.82	7 ^h 24 ^m 45.955 ^s -12°53'59.042"	20.6	145	143.3	-56.4	99.2	32.6	48.2
2018/01/02 20:06:12	40709 1999 RW242	5.2	16.92	3.25	56	0.5	36°32'02" 50°31'28"	18	1.8 2.2	UCAC4 499-41675	13.72	7 ^h 19 ^m 01.973 ^s 9°46'37.052"	43.1	138	165.5	-57.6	99.1	10.6	49.5
2018/01/02 21:41:16	13050 1990 SY	6.9	18.84	7.11	201	0.5	36°49'25" 51°49'17"	11	0.7 2.0	UCAC4 427-54675	11.73	12 ^h 18 ^m 31.287 ^s -4°47'49.939"	2.4	100	96.0	-63.0	99.0	72.4	58.4
2018/01/02 22:01:50	41314 1999 XN168	7.2	18.55	8.82	77	0.5	36°50'22" 50°38'50"	31	1.8 2.2	UCAC4 498-1472	9.73	1 ^h 00 ^m 57.383 ^s 9°34'55.352"	4.8	279	95.5	-62.6	99.0	96.1	59.2
2018/01/02 22:22:26	3037 Alku	18.9	15.23	2.62	21	1.8	36°01'05" 50°07'29"	294	6.9 7.1	UCAC4 463-5346	12.71	3 ^h 43 ^m 31.772 ^s 2°29'24.487"	21.7	246	129.8	-61.6	98.9	60.6	59.6
2018/01/02 23:09:02	6448 1991 CW	5.5	15.57	5.86	36	0.7	36°31'47" 50°19'34"	29	3.0 3.6	UCAC4 551-37337	9.71	7 ^h 10 ^m 05.939 ^s 20°06'29.705"	56.9	213	175.3	-57.7	98.8	8.1	58.5
2018/01/02 23:12:56	56306 1999 RL125	7.2	18.27	4.40	61	0.5	36°27'22" 50°34'49"	12	1.8 1.9	UCAC4 665-41294	13.89	5 ^h 47 ^m 16.755 ^s 42°58'09.184"	61.8	271	155.6	-57.2	98.8	34.2	58.3
2018/01/02 23:14:28	6340 Kath- mandu	11.5	16.09	3.44	146	1.0	35°37'05" 48°48'36"	199	1.8 4.0	UCAC4 572-35484	12.70	6 ^h 55 ^m 19.242 ^s 24°17'18.186"	58.6	224	178.4	-57.1	98.8	12.5	58.3
2018/01/03 00:29:13	5743 Kato	7.2	15.60	2.69	154	1.1	37°04'40" 51°20'07"	22	0.3 4.2	UCAC4 592-17874	13.00	5 ^h 24 ^m 23.459 ^s 28°18'12.233"	37.0	271	159.2	-47.1	98.7	34.1	51.7
2018/01/03 02:10:27	34623 2000 U559	5.2	18.56	6.53	171	1.1	38°00'31" 51°07'13"	46	0.7 1.6	UCAC4 575-45759	12.03	10 ^h 04 ^m 15.737 ^s 24°56'05.045"	60.5	220	136.7	-31.2	98.5	31.0	37.9

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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}
2018/01/03 02:13:05	4386 Lust	9.1	16.88	4.58	86	0.8	37°09'07'' 50°35'30''	46	2.3 3.0	UCAC4 650-36322	12.31	5 ^h 56 ^m 20.619 ^s 39°53'27.310''	33.4	294	159.0	-30.8	32.5	37.5	98.5	123
2018/01/03 03:22:37	6985 UF2	6.3	16.79	2.92	176	0.8	38°35'45'' 50°36'55''	69	0.3 3.1	UCAC4 588-45390	13.95	9 ^h 04 ^m 59.245 ^s 27°30'01.775''	44.0	261	150.1	-19.7	17.9	26.9	98.3	82
2018/01/03 03:43:31	32251 OH50	10.5	16.16	3.27	50	0.9	36°53'31'' 50°16'33''	60	3.6 4.0	UCAC4 657-43703	12.94	6 ^h 26 ^m 46.643 ^s 41°15'18.004''	25.9	304	160.6	-16.4	29.4	23.6	98.3	103
2018/01/03 04:28:20	42852 RX52	6.6	17.20	4.10	135	0.6	37°57'04'' 50°37'50''	61	1.1 2.4	UCAC4 670-39152	13.12	5 ^h 31 ^m 31.175 ^s 43°52'14.962''	16.0	321	152.9	-9.7	39.6	16.7	98.2	109
2018/01/03 04:35:42	343642 JC42	7.9	20.70	10.58	12	0.9	36°20'38'' 49°56'31''	161	0.8 0.8	UCAC4 426-54747	10.12	11 ^h 11 ^m 11.092 ^s -4°59'09.782''	25.1	225	111.4	-8.6	52.9	15.6	98.1	387
2018/01/03 13:40:07	10685 Kharakiv-niver	6.9	16.29	2.50	68	0.7	35°20'31'' 50°01'46''	268	2.2 2.9	UCAC4 636-43344	13.90	8 ^h 11 ^m 01.297 ^s 37°02'02.530''	4.4	32	158.4	-0.2	19.0	-13.7	96.8	96
2018/01/03 14:06:05	6076 Plavec	9.5	16.93	3.07	221	0.7	34°39'57'' 51°45'02''	329	0.5 3.5	UCAC4 521-16978	13.93	5 ^h 53 ^m 47.896 ^s 14°10'13.069''	6.1	75	162.9	-3.6	36.2	-11.2	96.7	110
2018/01/03 14:43:32	97101 VU67	5.8	17.58	6.15	146	0.5	37°48'06'' 49°10'19''	132	0.8 2.2	UCAC4 630-43339	11.43	8 ^h 35 ^m 44.787 ^s 35°51'51.263''	7.1	40	154.7	-9.0	17.9	-7.0	96.6	103
2018/01/03 15:24:52	5546 Salavat	11.0	16.22	3.29	26	1.1	36°38'19'' 50°00'33''	100	3.2 3.2	UCAC4 599-14421	12.98	4 ^h 49 ^m 27.491 ^s 29°40'44.375''	40.2	90	150.8	-15.2	50.7	-1.8	96.4	135
2018/01/03 17:59:51	20679 VU9	10.0	16.98	3.25	168	0.8	35°30'53'' 48°37'23''	199	1.3 3.2	UCAC4 486-15455	13.78	5 ^h 55 ^m 37.626 ^s 7°03'40.494''	36.1	129	158.5	-39.8	40.1	20.6	95.9	124
2018/01/03 18:59:24	9459 FW113	6.3	17.86	6.69	215	0.8	37°36'20'' 48°19'24''	154	0.2 2.5	UCAC4 586-10693	11.18	4 ^h 04 ^m 26.868 ^s 27°00'53.795''	67.1	188	140.8	-48.9	62.9	29.7	95.7	99
2018/01/03 19:13:49	41313 XD168	6.3	17.99	4.07	3	0.6	36°19'02'' 50°02'11''	119	2.1 2.1	UCAC4 600-15221	13.95	4 ^h 53 ^m 06.890 ^s 29°53'07.449''	69.7	167	151.4	-50.9	52.2	31.9	95.7	120
2018/01/03 19:19:29	16433 VX2	10.5	17.56	3.65	12	0.7	36°19'14'' 50°09'11''	12	2.9 2.9	UCAC4 477-27486	13.95	6 ^h 54 ^m 23.665 ^s 5°20'20.367''	37.1	136	162.6	-51.7	28.1	32.8	95.7	142
2018/01/03 20:07:57	1373 Cincinnati	16.6	15.49	6.71	204	0.9	33°41'45'' 50°51'20''	296	1.4 5.4	UCAC4 729-34996	8.78	4 ^h 48 ^m 33.925 ^s 55°44'17.535''	81.7	318	139.4	-57.6	57.6	39.9	95.5	123
2018/01/03 21:14:07	385 Ilmatar	91.5	12.25	1.27	204	13.4	37°21'04'' 48°20'59''	158	6.3 32.4	UCAC4 638-13013	11.38	3 ^h 21 ^m 40.317 ^s 37°35'32.974''	54.1	268	131.8	-62.5	71.9	48.6	95.2	109
2018/01/03 21:25:43	5602 VM1	5.0	16.85	4.23	168	0.5	35°41'10'' 48°35'39''	195	0.2 2.9	UCAC4 546-43592	12.64	7 ^h 50 ^m 34.222 ^s 19°02'14.463''	56.5	151	167.1	-62.8	12.6	49.9	95.2	69
2018/01/03 21:52:14	32942 UD7	5.8	18.51	4.99	199	0.5	36°06'16'' 48°15'52''	184	0.5 1.9	UCAC4 479-2731	13.53	1 ^h 57 ^m 33.433 ^s 5°36'38.708''	11.8	265	106.0	-62.8	99.3	52.6	95.1	120
2018/01/03 22:31:27	94169 AB26	5.0	17.59	5.45	218	0.5	34°45'20'' 48°22'03''	210	0.3 1.8	UCAC4 618-22527	12.15	5 ^h 22 ^m 45.130 ^s 33°24'23.574''	58.4	253	156.6	-61.0	48.1	55.7	95.0	111
2018/01/03 22:32:45	3278 Be-hounek	32.4	16.13	3.19	47	2.8	36°36'39'' 50°24'36''	30	9.2 9.8	UCAC4 576-14902	13.00	5 ^h 16 ^m 04.265 ^s 25°10'17.273''	51.2	245	156.7	-60.9	49.3	55.8	95.0	132
2018/01/04 01:00:41	20679 VU9	10.0	16.98	4.86	179	0.8	37°59'14'' 51°14'19''	43	1.1 3.2	UCAC4 486-15425	12.14	5 ^h 55 ^m 23.703 ^s 7°05'17.181''	20.7	256	158.3	-42.3	44.3	52.8	94.4	124

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 4		LinOccult 2.3.0		
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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	Phase (%)	σ_{km}	
2018/01/04 01:08:29	5713 FF3	6.0	16.65	2.93	103	2.3	36°08'19" 49°07'29"	186	1.1 3.6	UCAC4 509-49620	13.80	9 ^h 49 ^m 42.965 ^s 11°38'58.135"	51.0	195	137.7	-41.1	52.1	94.4 67	
2018/01/04 02:12:28	85186 PR2	5.8	17.96	4.22	165	0.5	37°34'09" 51°17'30"	34	0.7 1.9	UCAC4 641-20128	13.77	4 ^h 48 ^m 43.016 ^s 38°09'04.116"	22.2	303	148.3	-30.9	44.6	94.1 121	
2018/01/04 03:55:25	12121 NX48	6.0	17.40	3.93	182	0.5	35°23'53" 51°35'02"	340	0.5 2.4	UCAC4 468-26851	13.50	7 ^h 06 ^m 11.283 ^s 3°30'05.402"	1.2	274	160.7	-14.6	29.5	93.7 99	
2018/01/04 04:19:51	59806 RQ10	6.0	18.51	5.77	37	0.7	36°35'07" 50°19'07"	35	1.5 1.5	UCAC4 678-23802	12.75	3 ^h 50 ^m 52.332 ^s 45°26'31.841"	9.5	337	135.8	-10.9	25.7	93.6 160	
2018/01/04 04:28:07	11137 Yari-gatake	6.9	18.54	5.13	34	0.5	36°30'21" 50°19'19"	27	2.0 2.1	UCAC4 523-48315	13.42	8 ^h 26 ^m 36.340 ^s 14°28'46.841"	17.2	272	157.6	-9.7	24.4	93.6 134	
2018/01/04 15:47:58	6531 Sub-ashiri	7.9	16.67	2.85	233	0.7	37°39'23" 48°09'32"	155	0.3 3.0	UCAC4 572-35596	13.90	6 ^h 56 ^m 01.115 ^s 24°23'02.775"	20.6	76	177.9	-18.6	-8.9	90.6 106	
2018/01/04 16:21:24	1511 Damera	15.5	16.60	5.71	181	4.1	36°23'48" 48°25'31"	178	0.7 7.3	UCAC4 547-7594	10.90	3 ^h 47 ^m 20.749 ^s 19°18'25.280"	50.8	130	134.9	-23.9	-4.6	90.5 84	
2018/01/04 17:17:12	15850 AE1	7.6	17.91	4.63	53	0.7	36°42'16" 49°39'14"	146	2.2 2.4	UCAC4 512-46401	13.29	8 ^h 55 ^m 15.000 ^s 12°21'17.785"	6.9	79	151.0	-32.8	3.1	90.2 127	
2018/01/04 20:34:49	1486 Marilyn	9.1	15.52	2.12	100	0.8	36°20'38" 49°09'11"	178	2.0 4.9	UCAC4 565-34795	13.56	6 ^h 58 ^m 32.480 ^s 22°51'20.154"	60.5	151	179.2	-60.1	39.3	89.2 74	
2018/01/04 21:47:17	2133 Franceswright	7.6	17.15	6.30	208	0.5	36°09'36" 51°55'05"	358	0.2 3.4	UCAC4 483-2476	10.85	1 ^h 41 ^m 26.966 ^s 6°32'53.434"	10.0	268	101.6	-62.8	117.5	42.8 88.8 88	
2018/01/04 23:36:19	6727 TF4	5.5	16.61	6.29	17	0.6	36°12'01" 49°54'14"	201	2.5 2.5	UCAC4 594-34339	10.32	6 ^h 46 ^m 29.458 ^s 28°36'08.083"	57.1	242	173.0	-54.4	44.6	52.9 88.2 87	
2018/01/05 00:51:16	11445 Fedotov	6.6	16.69	3.20	171	1.0	37°22'22" 51°25'06"	27	0.5 2.8	UCAC4 672-31454	13.55	4 ^h 53 ^m 04.919 ^s 44°19'23.143"	37.7	297	145.7	-43.8	69.5	53.8 87.7 94	
2018/01/05 02:13:38	27835 PZ13	6.6	18.88	5.69	101	0.8	35°13'02" 49°27'22"	229	1.3 1.6	UCAC4 644-14382	13.19	3 ^h 26 ^m 50.580 ^s 38°45'43.983"	12.1	318	131.6	-30.7	86.9	48.3 87.3 165	
2018/01/05 02:27:48	4610 Kajov	8.3	16.41	3.60	70	0.9	35°46'08" 49°30'54"	212	2.8 3.8	UCAC4 555-17154	12.85	5 ^h 35 ^m 45.166 ^s 20°53'10.367"	13.4	287	159.8	-28.4	62.1	46.8 87.3 88	
2018/01/05 04:50:43	401 Otilia	99.1	15.58	2.71	72	2.7	35°49'19" 49°28'27"	208	18.5 19.7	UCAC4 350-75830	12.96	15 ^h 35 ^m 53.500 ^s -20°02'24.178"	17.8	160	48.1	-6.4	88.7	27.2 86.5 199	
2018/01/05 15:21:52	3520 Klopsteg	6.9	16.50	3.48	89	0.6	35°48'33" 50°47'00"	337	1.9 3.5	UCAC4 552-26524	13.07	6 ^h 27 ^m 47.316 ^s 20°19'01.403"	18.6	80	171.1	-14.4	57.6	-21.1 82.9 80	
2018/01/05 15:32:00	1294 Antwerpia	34.7	13.53	3.86	214	3.6	37°34'03" 48°19'13"	155	0.2 19.9	UCAC4 592-33036	9.70	6 ^h 35 ^m 22.259 ^s 28°19'06.763"	24.8	75	171.1	-16.0	56.2	-20.2 82.8 69	
2018/01/05 16:36:41	1634 Ndola	9.1	16.44	3.37	73	0.7	36°01'36" 50°41'08"	345	2.9 4.2	UCAC4 574-42108	13.12	8 ^h 20 ^m 05.844 ^s 24°43'36.257"	16.0	70	162.7	-26.2	33.2	-13.0 82.4 87	
2018/01/05 18:05:02	21304 XL1	5.0	17.76	5.47	8	0.8	36°10'14" 50°03'40"	280	2.3 2.3	UCAC4 512-4253	12.30	2 ^h 49 ^m 54.815 ^s 12°18'01.656"	51.5	196	118.6	-40.3	111.8	-1.1 81.9 86	
2018/01/05 18:15:59	4028 Pancratz	8.7	17.19	4.77	214	0.6	35°16'09" 51°51'34"	340	0.3 3.6	UCAC4 482-2055	12.43	1 ^h 26 ^m 11.264 ^s 6°16'09.110"	37.9	225	97.1	-42.0	133.4	0.5 81.8 98	

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 5		LinOccult 2.3.0			
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}
2018/01/05 18:16:07	71127 1999 XX175	6.6	17.67	5.14	8	0.8	36°13'29" 50°06'38"	328	2.2	UCAC4 608-17006	12.54	5 ^h 00 ^m 08.017 ^s 31°26'16.671"	66.6	135	150.8	-42.0	78.4	0.6	81.8	119
2018/01/05 18:24:02	7612 1996 CN2	13.2	16.24	2.41	202	1.1	36°22'19" 51°51'25"	2	1.0	UCAC4 508-31675	13.96	6 ^h 48 ^m 07.878 ^s 11°34'06.016"	37.2	121	168.3	-43.3	55.0	1.7	81.8	116
2018/01/05 22:02:54	29592 1998 FP123	5.5	17.20	8.64	143	0.7	36°10'41" 48°46'08"	183	0.9	UCAC4 597-26116	8.56	6 ^h 00 ^m 41.721 ^s 29°16'20.418"	63.5	227	163.8	-62.3	67.7	34.3	80.4	109
2018/01/05 22:46:07	101886 1999 NU41	6.3	18.53	6.62	125	0.7	36°02'03" 51°09'41"	352	1.2	UCAC4 661-19504	11.91	3 ^h 51 ^m 00.803 ^s 42°03'59.567"	45.3	286	135.1	-59.7	92.6	39.8	80.1	159
2018/01/05 23:30:06	17520 Hisayukiyoshio	6.9	16.63	3.27	247	0.8	36°26'16" 52°15'59"	3	0.1	UCAC4 647-22796	13.42	4 ^h 55 ^m 51.512 ^s 39°13'40.724"	47.0	279	147.6	-55.1	81.5	44.6	79.8	90
2018/01/06 00:50:11	32330 2000 QK64	5.5	18.50	5.36	206	0.9	39°00'38" 50°40'18"	70	0.5	UCAC4 564-47379	13.15	10 ^h 28 ^m 53.736 ^s 22°46'53.673"	62.9	174	133.6	-43.9	13.6	49.6	79.4	127
2018/01/06 01:43:17	11847 Winck- elmann	6.6	17.52	4.41	40	0.7	36°04'56" 49°42'34"	201	2.3	UCAC4 633-22645	13.13	5 ^h 07 ^m 15.651 ^s 36°31'58.796"	26.6	296	150.6	-35.6	80.8	49.8	78.9	109
2018/01/06 03:35:42	15518 1999 VY153	7.6	17.14	6.06	86	0.7	35°21'25" 49°33'35"	231	2.1	UCAC4 582-16745	11.09	5 ^h 34 ^m 36.654 ^s 26°12'08.641"	6.9	303	158.6	-17.6	76.8	41.6	78.2	103
2018/01/06 05:11:37	7597 Shigemi	9.1	18.27	6.57	54	0.5	36°39'46" 50°28'07"	30	2.3	UCAC4 430-56151	11.70	13 ^h 04 ^m 20.843 ^s -4°00'28.617"	32.3	208	89.2	-3.4	34.2	28.9	77.6	146
2018/01/06 14:49:59	56744 2000 NN26	5.2	18.95	6.49	209	0.6	38°59'03" 49°21'51"	112	0.5	UCAC4 593-12579	12.46	4 ^h 27 ^m 33.767 ^s 28°28'42.368"	39.2	91	143.2	-9.4	97.6	-31.2	73.8	149
2018/01/06 17:05:36	43503 2001 CK29	8.7	19.13	8.33	244	0.8	33°01'03" 49°28'24"	255	0.8	UCAC4 427-3808	10.80	3 ^h 05 ^m 04.276 ^s -4°43'34.410"	35.0	171	114.4	-30.7	124.9	-19.6	72.9	189
2018/01/06 18:53:30	23111 Fritzperls	5.0	16.50	3.15	230	0.5	36°06'21" 47°58'51"	183	0.0	UCAC4 550-37247	13.41	7 ^h 04 ^m 24.305 ^s 19°57'01.695"	46.4	119	177.2	-47.5	65.0	-5.0	72.2	76
2018/01/06 19:44:41	3513 Quinyue	8.7	16.37	2.75	7	0.7	36°19'34" 50°06'08"	25	3.7	UCAC4 572-40205	13.70	7 ^h 29 ^m 43.996 ^s 24°15'28.581"	53.5	122	175.2	-54.5	60.0	2.7	71.8	93
2018/01/06 19:45:49	29562 Dan- macdonald	7.2	18.00	6.61	47	0.6	36°07'36" 49°38'33"	194	2.1	UCAC4 494-15202	11.39	5 ^h 47 ^m 52.792 ^s 8°45'52.263"	48.4	168	156.0	-54.7	84.6	2.8	71.8	131
2018/01/06 22:16:00	24232 Lan- thrum	5.2	18.89	4.91	193	0.6	36°15'30" 48°18'53"	181	0.5	UCAC4 559-9889	13.99	4 ^h 30 ^m 39.016 ^s 21°46'46.507"	42.6	252	143.0	-61.7	102.6	25.4	70.7	130
2018/01/06 23:42:13	49614 1999 FB39	5.5	17.71	3.97	95	0.6	36°33'58" 50°52'56"	12	1.2	UCAC4 711-38742	13.77	5 ^h 25 ^m 48.449 ^s 52°10'13.707"	55.1	296	144.0	-53.6	87.3	36.5	70.1	152
2018/01/06 23:44:16	23027 1999 WV17	6.6	16.61	2.74	211	0.7	36°26'31" 48°09'16"	177	0.2	UCAC4 444-33492	13.96	7 ^h 17 ^m 17.573 ^s -1°20'02.737"	32.9	216	156.2	-53.3	65.6	36.7	70.1	90
2018/01/06 23:46:45	19129 Loos	6.3	16.54	2.91	36	0.7	36°03'50" 49°45'42"	207	2.6	UCAC4 573-23660	13.71	6 ^h 03 ^m 42.682 ^s 24°30'31.838"	44.9	254	164.4	-53.0	81.9	37.0	70.1	89
2018/01/07 00:13:16	32484 2000 TV29	7.6	18.44	6.42	6	0.9	36°19'07" 49°59'43"	159	1.3	UCAC4 636-9703	12.02	2 ^h 42 ^m 08.523 ^s 37°01'51.050"	18.9	306	121.0	-49.4	119.7	39.7	69.9	225
2018/01/07 00:55:31	34459 2000 SC91	7.9	15.59	2.30	217	0.8	36°36'41" 51°59'24"	6	0.1	UCAC4 577-37461	13.43	7 ^h 12 ^m 51.140 ^s 25°22'51.208"	45.6	255	176.9	-43.1	66.9	43.1	69.6	83

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.		Table 1		Page 6		LinOccult 2.3.0				
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}
2018/01/07 01:32:08	30915 GF1	7.9	18.01	4.86	121	0.6	35°15'25'' 49°11'35''	218	1.6	UCAC4 640-31363	13.17	6 ^h 00 ^m 02.057 ^s 37°49'02.825''	36.4	288	158.2	-37.4	83.2	44.9	69.3	135
2018/01/07 01:33:37	39950 FB116	6.6	18.11	4.67	50	0.7	36°37'22'' 49°39'11''	151	2.1	UCAC4 432-50370	13.45	9 ^h 32 ^m 47.634 ^s −3°42'02.651''	32.8	208	136.7	-37.1	33.7	44.9	69.3	115
2018/01/07 02:35:39	8234 Nobeoka	8.3	16.95	3.40	64	0.7	36°40'03'' 50°34'08''	25	2.6	UCAC4 553-30690	13.59	6 ^h 40 ^m 24.920 ^s 20°31'50.181''	20.8	277	172.5	-27.2	75.1	45.2	68.9	109
2018/01/07 04:07:35	7704 Dellen	6.0	18.56	6.13	218	1.1	36°57'07'' 48°08'17''	167	0.4	UCAC4 501-55929	12.43	11 ^h 41 ^m 27.400 ^s 10°07'30.775''	43.4	222	114.6	-12.7	5.3	39.4	68.3	120
2018/01/07 05:10:28	128056 MU12	5.5	19.69	6.08	146	0.5	37°09'15'' 48°51'51''	155	0.9	UCAC4 378-61469	13.61	10 ^h 45 ^m 42.130 ^s −14°33'36.833''	7.3	237	115.9	-3.6	25.2	32.2	67.8	175
2018/01/07 14:24:05	53365 JO78	6.3	17.08	4.26	209	0.6	35°29'57'' 51°51'34''	344	0.3	UCAC4 528-18345	12.84	5 ^h 51 ^m 47.832 ^s 15°32'40.735''	12.8	81	159.5	-5.5	93.3	-37.0	64.0	106
2018/01/07 17:12:10	42852 RX52	6.6	17.29	3.75	135	0.6	37°58'11'' 49°30'49''	116	1.1	UCAC4 667-37786	13.58	5 ^h 26 ^m 58.007 ^s 43°19'15.783''	62.0	88	149.4	-31.6	97.0	-28.4	62.7	111
2018/01/07 18:25:22	21235 WG2	6.0	16.85	3.86	117	0.6	35°39'52'' 51°01'03''	338	1.2	UCAC4 509-32434	13.02	6 ^h 56 ^m 01.342 ^s 11°44'32.461''	37.5	121	168.6	-43.2	80.2	-19.5	62.2	96
2018/01/07 18:28:15	6601 Schmeer	5.8	17.62	4.27	169	0.7	35°28'58'' 51°28'43''	340	0.4	UCAC4 523-4413	13.37	2 ^h 30 ^m 52.231 ^s 14°27'13.926''	50.0	216	112.9	-43.6	143.0	-19.2	62.2	85
2018/01/07 18:50:12	1092 Lilium	46.2	15.46	2.38	221	4.1	35°34'27'' 51°58'41''	347	2.8	UCAC4 541-47317	13.21	8 ^h 52 ^m 52.389 ^s 18°07'11.056''	28.5	95	156.6	-46.9	52.8	-16.1	62.0	118
2018/01/07 18:53:27	33776 RB158	11.0	17.94	4.19	227	1.6	38°47'22'' 48°49'22''	127	1.0	UCAC4 648-13911	13.78	3 ^h 20 ^m 21.451 ^s 39°35'16.731''	74.4	235	127.9	-47.4	121.0	-15.7	62.0	157
2018/01/07 19:18:50	6135 Billowen	8.3	18.23	4.30	154	0.5	35°42'39'' 48°43'02''	196	1.3	UCAC4 538-1394	13.95	0 ^h 44 ^m 45.631 ^s 17°26'18.521''	31.2	260	90.0	-51.0	159.4	-12.0	61.8	182
2018/01/07 19:51:23	87558 RL3	5.5	18.59	6.97	47	1.4	35°37'49'' 50°05'46''	277	1.6	UCAC4 621-8074	11.62	2 ^h 41 ^m 53.952 ^s 34°11'52.987''	56.4	258	119.9	-55.2	130.9	-7.2	61.5	127
2018/01/07 20:23:22	29337 Hakurojo	5.5	17.48	5.46	5	0.5	36°13'41'' 50°01'13''	234	2.1	UCAC4 522-16634	12.03	5 ^h 51 ^m 31.416 ^s 14°16'36.768''	54.4	183	158.7	-58.6	96.9	-2.4	61.3	103
2018/01/07 20:37:20	54003 GN91	2000	19.62	8.85	227	0.6	35°32'57'' 48°03'50''	193	0.5	UCAC4 586-47561	10.77	11 ^h 22 ^m 28.457 ^s 27°05'12.812''	28.2	80	124.1	-59.8	29.0	-0.2	61.3	175
2018/01/07 20:40:05	25454 XN12	1999	18.37	5.22	98	0.6	35°29'27'' 50°46'11''	325	1.3	UCAC4 460-49982	13.16	12 ^h 10 ^m 41.886 ^s 1°56'59.451''	2.1	90	105.6	-60.0	3.0	0.2	61.2	100
2018/01/07 22:43:36	9328 DL3	1990	17.56	4.14	96	0.5	36°39'05'' 50°52'31''	16	1.7	UCAC4 620-31506	13.44	6 ^h 08 ^m 11.654 ^s 33°50'58.770''	61.3	248	161.2	-59.8	93.0	18.8	60.3	104
2018/01/08 01:34:07	40976 TV272	1999	17.40	4.53	252	0.6	35°34'12'' 47°49'60''	192	0.3	UCAC4 518-39640	12.89	7 ^h 15 ^m 29.764 ^s 13°35'20.770''	30.5	254	171.3	-37.0	79.4	38.0	59.1	128
2018/01/08 02:16:13	21765 RU206	1999	16.51	4.25	185	0.6	35°19'10'' 48°30'44''	202	0.3	UCAC4 595-30509	12.29	6 ^h 20 ^m 20.036 ^s 28°48'12.127''	26.1	285	165.9	-30.3	92.7	40.2	58.7	87
2018/01/08 03:55:49	7468 Anfimov	11.5	16.34	2.87	205	1.0	34°14'13'' 48°46'51''	226	0.8	UCAC4 589-33306	13.55	6 ^h 38 ^m 01.082 ^s 27°37'31.952''	12.9	298	169.8	-14.5	89.7	39.3	58.0	113

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.		Table 1		Page 7		LinOccult 2.3.0				
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}
2018/01/08 14:31:35	6278 Ametkhan	5.0	16.94	3.53	155	0.6	34°56'29" 51°08'53"	322	0.4	UCAC4 585-25333	13.45	6 ^h 08 ^m 52.505 ^s 26°52'25.274"	20.3	72	163.6	-6.4	101.7	-40.4	53.6	79
2018/01/08 16:04:15	25797 CG82	8.3	18.29	5.06	211	0.7	34°14'17" 51°25'59"	316	0.8	UCAC4 615-26260	13.24	5 ^h 46 ^m 00.736 ^s 32°52'18.173"	42.7	87	157.0	-20.5	106.8	-41.1	52.9	155
2018/01/08 16:30:37	19810 Par- tridge	5.8	18.34	5.04	90	0.5	35°37'18" 50°44'16"	328	1.3	UCAC4 609-24352	13.31	5 ^h 50 ^m 37.218 ^s 31°45'51.102"	45.5	93	158.3	-24.7	106.2	-39.9	52.7	139
2018/01/08 17:46:37	16934 FA91	6.3	17.47	5.80	86	0.6	36°29'47" 49°17'04"	170	1.7	UCAC4 573-43690	11.67	8 ^h 13 ^m 40.413 ^s 24°34'17.947"	29.8	86	167.1	-36.9	75.4	-33.8	52.2	115
2018/01/08 18:21:17	7243 VV3	5.8	16.95	4.49	102	0.5	35°46'45" 50°54'34"	339	1.2	UCAC4 582-25742	12.48	6 ^h 14 ^m 44.186 ^s 26°22'36.663"	55.1	120	164.8	-42.4	102.5	-29.9	51.9	78
2018/01/08 18:54:36	11517 Estera- cuna	7.2	16.93	3.68	47	0.7	36°14'03" 50°28'02"	355	2.4	UCAC4 571-30924	13.29	6 ^h 33 ^m 08.838 ^s 24°01'56.889"	55.2	127	169.3	-47.4	98.8	-25.6	51.7	111
2018/01/08 21:02:00	2384 Schulhof	14.5	16.34	4.40	190	1.9	35°49'28" 51°43'31"	350	1.5	UCAC4 649-18234	11.96	4 ^h 10 ^m 37.601 ^s 39°44'03.769"	61.9	263	136.5	-61.3	125.1	-7.1	50.7	128
2018/01/08 21:08:01	5452 1937 NN	8.7	17.96	4.58	141	0.5	36°09'43" 48°47'12"	184	1.5	UCAC4 517-1611	13.39	0 ^h 57 ^m 39.459 ^s 13°14'36.753"	11.9	277	90.1	-61.6	168.7	-6.1	50.7	123
2018/01/08 23:39:42	22629 KF40	8.7	16.06	2.94	120	0.9	36°14'43" 48°58'12"	181	1.6	UCAC4 478-21884	13.19	6 ^h 31 ^m 03.830 ^s 5°28'27.013"	33.4	233	159.6	-53.8	101.8	16.5	49.6	91
2018/01/08 23:45:15	11652 John- brownlee	10.0	17.48	4.44	105	0.7	36°56'42" 50°53'42"	27	2.2	UCAC4 567-25184	13.05	6 ^h 14 ^m 48.025 ^s 23°12'42.588"	44.7	252	165.0	-53.1	105.6	17.3	49.5	133
2018/01/09 00:13:38	15584 GO74	5.8	18.05	6.33	135	0.6	35°12'26" 49°03'37"	215	1.0	UCAC4 652-32507	11.72	5 ^h 33 ^m 01.328 ^s 40°19'51.012"	44.7	284	151.0	-49.2	112.0	21.0	49.3	121
2018/01/09 01:02:27	59817 RC21	5.2	18.97	7.12	115	0.6	35°51'42" 49°03'15"	195	1.1	UCAC4 431-50888	11.86	9 ^h 24 ^m 45.353 ^s -3°50'47.416"	33.8	203	139.9	-42.0	58.7	26.8	49.0	141
2018/01/09 01:04:47	6768 Mathias- braun	5.5	18.08	6.87	164	0.6	35°33'12" 48°38'59"	199	0.5	UCAC4 513-50877	11.21	9 ^h 43 ^m 10.854 ^s 12°25'08.923"	50.6	204	144.6	-41.6	56.1	27.1	49.0	97
2018/01/09 01:13:03	12108 KJ48	6.0	19.22	5.50	166	0.5	35°11'19" 48°44'26"	208	0.9	UCAC4 510-49926	13.73	9 ^h 21 ^m 54.114 ^s 11°55'46.521"	47.8	214	149.2	-40.3	61.2	28.0	48.9	149
2018/01/09 04:52:24	5549 Bobste- fanik	8.7	16.66	3.63	77	0.8	37°13'10" 50°23'34"	60	2.6	UCAC4 677-41510	13.07	6 ^h 06 ^m 18.515 ^s 45°22'31.160"	16.0	324	152.2	-6.0	107.1	34.4	47.4	98
2018/01/09 14:40:21	54631 SJ115	9.5	18.57	6.26	214	0.9	38°12'44" 48°35'14"	140	1.1	UCAC4 599-17318	12.31	5 ^h 11 ^m 26.264 ^s 29°41'17.059"	33.3	82	149.7	-7.5	126.3	-42.4	43.3	198
2018/01/09 15:09:06	9446 Cicero	7.9	18.15	6.06	46	0.5	36°22'42" 49°38'29"	172	2.1	UCAC4 557-32895	12.09	6 ^h 44 ^m 40.847 ^s 21°13'53.331"	17.1	77	171.2	-11.8	106.8	-44.3	43.1	142
2018/01/09 15:46:23	41472 OA59	5.0	17.51	5.79	178	0.7	38°36'03" 50°40'03"	67	0.5	UCAC4 635-15724	11.73	4 ^h 05 ^m 30.302 ^s 36°48'42.429"	59.0	100	135.2	-17.5	136.2	-45.8	42.8	119
2018/01/09 17:10:43	891 Gunhild	52.0	14.02	2.30	232	4.4	36°31'40" 52°07'33"	4	1.4	UCAC4 550-21242	11.86	5 ^h 56 ^m 50.330 ^s 19°54'44.834"	43.0	113	159.8	-31.0	119.1	-44.5	42.3	99
2018/01/09 17:26:25	2488 Bryan	5.8	16.61	3.35	98	0.7	35°54'28" 50°53'31"	344	1.3	UCAC4 603-26851	13.31	5 ^h 51 ^m 55.804 ^s 30°27'07.761"	53.9	107	158.0	-33.5	119.0	-43.5	42.2	71

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.				Table 1		Page 8		LinOccult 2.3.0			
Asteroid			Nearest point			Star				Sun			Moon								
Date Time (UTC)	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Dist	Alt	Phase (%)	σ_{km}	
2018/01/09 19:12:45	9077 Ildo	7.2	16.69	3.67	211	0.9	38°04'60'' 51°33'46''	37	0.3	UCAC4 474-11626	13.06	5 ^h 35 ^m 11.435 ^s 4°41'54.666''	-49.8	166	148.6	-49.8	125.4	-32.8	41.5	95	
2018/01/09 20:56:45	11383 SD128	7.2	16.56	3.18	112	0.8	36°01'03'' 49°03'27''	190	1.5	UCAC4 562-28712	13.44	6 ^h 25 ^m 29.541 ^s 22°16'18.482''	-60.9	187	166.6	-60.9	114.3	-18.1	40.7	91	
2018/01/09 21:23:22	6280 Sicardy	6.9	15.67	3.74	76	0.9	36°27'16'' 49°22'15''	171	2.2	UCAC4 627-33002	11.96	6 ^h 23 ^m 05.432 ^s 35°17'33.672''	-62.0	212	161.2	-62.0	113.8	-14.0	40.5	67	
2018/01/09 22:21:57	10561 Shimizu-masahiro	7.6	18.25	5.37	223	0.8	35°22'27'' 48°08'16''	197	0.5	UCAC4 571-47620	12.89	10 ^h 11 ^m 42.863 ^s 24°07'39.153''	-61.0	125	141.5	-61.0	64.2	-5.0	40.2	129	
2018/01/09 22:31:58	53333 JZ36	5.5	18.46	4.97	135	0.6	37°03'20'' 51°09'15''	24	1.0	UCAC4 614-20298	13.50	5 ^h 22 ^m 00.842 ^s 32°42'03.123''	-60.4	258	151.0	-60.4	127.2	-3.5	40.0	140	
2018/01/09 23:08:41	3253 Gradie	7.6	17.02	3.29	157	0.6	37°08'41'' 51°20'42''	23	0.8	UCAC4 603-30423	13.79	6 ^h 07 ^m 59.807 ^s 30°34'26.224''	-57.3	253	161.0	-57.3	118.5	2.1	39.8	93	
2018/01/09 23:58:51	8195 UC1	10.5	16.84	3.06	197	0.9	36°49'19'' 48°18'51''	169	0.6	UCAC4 461-45661	13.85	9 ^h 09 ^m 53.444 ^s 2°10'24.846''	-51.2	191	147.5	-51.2	74.4	9.4	39.5	102	
2018/01/10 01:19:37	32255 OT51	6.3	17.19	3.94	208	0.6	35°20'42'' 48°16'58''	199	0.3	UCAC4 589-25559	13.28	6 ^h 03 ^m 26.972 ^s 27°44'26.862''	-39.2	278	160.8	-39.2	121.1	20.0	38.9	104	
2018/01/10 04:04:22	17110 JG52	8.7	17.46	3.63	173	0.7	34°35'38'' 48°56'45''	225	1.1	UCAC4 560-26908	13.87	6 ^h 18 ^m 29.194 ^s 21°55'25.798''	-13.1	301	164.6	-13.1	119.7	31.9	37.8	128	
2018/01/10 04:32:44	8918 OR1	5.5	17.15	3.53	229	0.8	37°07'43'' 52°02'12''	15	0.0	UCAC4 614-17431	13.67	5 ^h 00 ^m 47.742 ^s 32°36'02.389''	-8.8	326	146.4	-8.8	134.4	32.1	37.6	80	
2018/01/10 17:56:13	9077 Ildo	7.2	16.72	5.41	198	0.9	37°40'04'' 51°35'36''	30	0.4	UCAC4 474-11551	11.31	5 ^h 34 ^m 36.309 ^s 4°47'35.043''	-38.1	143	147.8	-38.1	136.6	-48.3	32.5	95	
2018/01/10 18:31:09	33152 DV12	5.2	17.15	5.68	232	0.7	39°14'30'' 50°57'22''	64	0.2	UCAC4 496-8503	11.47	4 ^h 47 ^m 48.481 ^s 9°06'33.724''	-43.5	169	139.6	-43.5	148.9	-45.8	32.3	102	
2018/01/10 19:22:36	19129 Loos	6.3	16.65	2.91	18	0.8	36°21'02'' 50°12'01''	15	2.7	UCAC4 574-22117	13.82	6 ^h 00 ^m 17.580 ^s 24°41'55.782''	-51.0	154	159.8	-51.0	131.3	-40.5	31.9	90	
2018/01/10 21:11:32	9662 Frankhub-bard	6.3	17.46	8.00	164	0.5	36°45'29'' 51°29'14''	12	0.7	UCAC4 489-40355	9.46	7 ^h 25 ^m 02.361 ^s 7°37'55.906''	-61.4	170	165.7	-61.4	111.5	-25.6	31.2	108	
2018/01/10 21:52:42	4788 Simpson	6.0	16.10	2.57	185	0.6	36°12'55'' 48°23'08''	182	0.1	UCAC4 559-35623	13.64	6 ^h 54 ^m 31.193 ^s 21°37'01.187''	-61.9	201	172.2	-61.9	120.4	-19.4	30.9	71	
2018/01/10 22:13:00	10245 Insels-berg	7.6	16.99	3.35	125	0.7	36°36'06'' 51°08'57''	10	1.4	UCAC4 479-42970	13.69	8 ^h 19 ^m 51.350 ^s 5°37'47.229''	-61.4	173	159.5	-61.4	98.3	-16.2	30.8	96	
2018/01/11 01:06:56	11977 Leon-risoldi	6.0	16.61	3.57	96	1.1	35°50'45'' 49°14'07''	199	1.5	UCAC4 567-15508	13.08	5 ^h 16 ^m 41.568 ^s 23°18'08.083''	-41.2	281	149.6	-41.2	144.3	9.5	29.6	81	
2018/01/11 01:54:53	45583 CK87	6.9	16.57	5.16	7	0.6	36°11'25'' 50°03'30''	280	3.0	UCAC4 528-37132	11.42	7 ^h 00 ^m 49.988 ^s 15°32'13.420''	-33.6	265	170.9	-33.6	120.7	15.5	29.4	91	
2018/01/11 02:00:53	597 Bandusia	36.1	13.29	0.73	94	3.4	37°17'22'' 50°35'47''	50	9.3	UCAC4 651-35665	13.34	5 ^h 51 ^m 47.550 ^s 40°05'07.704''	-32.6	298	152.5	-32.6	132.0	16.2	29.4	94	
2018/01/11 02:01:34	25064 QN85	7.2	16.74	3.56	26	0.8	36°16'05'' 50°16'40''	357	3.0	UCAC4 474-42552	13.22	9 ^h 00 ^m 27.195 ^s 4°47'38.972''	-32.5	232	152.0	-32.5	90.1	16.3	29.3	93	

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.		Table 1		Page 9		LinOccult 2.3.0				
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}
2018/01/11 02:23:18	15365 HQ9	5.0	17.17	3.47	28	0.5	36°24'44'' 49°48'34''	161	2.2	UCAC4 472-20004	13.74	6 ^h 34 ^m 04.340 ^s 4°21'15.459''	7.1	268	158.0	-29.0	126.1	18.7	29.2	85
2018/01/11 03:06:25	16433 VX2	10.5	17.59	5.07	170	0.7	36°38'58'' 48°32'27''	171	1.4	UCAC4 477-25518	12.53	6 ^h 48 ^m 30.240 ^s 5°20'55.456''	3.2	274	160.8	-22.1	123.1	22.8	29.0	142
2018/01/11 03:24:30	99913 CZ5	6.9	14.76	2.17	80	0.5	37°11'06'' 49°37'15''	126	0.7	UCAC4 378-60690	12.75	10 ^h 25 ^m 04.757 ^s -14°30'38.821''	15.9	222	123.6	-19.2	66.7	24.2	28.8	37
2018/01/11 05:06:33	21765 RU206	6.0	16.61	2.76	243	0.6	33°34'33'' 51°23'26''	308	0.1	UCAC4 593-29711	13.94	6 ^h 17 ^m 14.698 ^s 28°26'50.117''	0.4	317	162.4	-3.9	131.9	28.3	28.2	88
2018/01/11 14:56:43	4149 Harrison	11.5	16.69	4.09	114	1.0	36°34'17'' 49°02'18''	170	2.4	UCAC4 486-14939	12.63	5 ^h 52 ^m 14.260 ^s 7°06'00.898''	14.1	96	152.0	-9.6	142.6	-41.4	24.8	132
2018/01/11 16:17:24	34035 OV27	6.9	17.33	4.09	72	0.5	35°59'43'' 49°25'39''	197	1.9	UCAC4 478-22336	13.27	6 ^h 33 ^m 25.945 ^s 5°34'35.761''	19.2	105	158.6	-22.1	133.0	-50.1	24.3	123
2018/01/11 16:50:05	430 Hybris	33.3	13.80	0.80	95	3.9	35°40'08'' 50°48'28''	332	7.8	UCAC4 490-28291	13.71	6 ^h 37 ^m 47.676 ^s 7°55'15.785''	25.5	109	161.1	-27.3	132.7	-52.3	24.1	74
2018/01/11 17:11:55	20682 VP23	7.9	17.14	3.30	178	0.7	36°59'02'' 48°30'58''	164	0.8	UCAC4 611-32362	13.89	6 ^h 24 ^m 32.688 ^s 32°08'20.672''	48.9	96	161.8	-30.9	135.4	-53.2	24.0	109
2018/01/11 18:52:38	27716 Nobuyuki	5.5	17.08	3.64	32	1.6	36°18'24'' 49°45'21''	177	2.4	UCAC4 516-51940	13.48	10 ^h 08 ^m 42.731 ^s 13°10'59.689''	15.5	88	141.7	-46.6	83.8	-50.9	23.6	86
2018/01/11 21:24:46	35441 Kyoko	5.0	17.93	4.68	65	0.6	36°49'24'' 50°30'59''	36	1.7	UCAC4 606-6330	13.27	2 ^h 21 ^m 22.039 ^s 31°10'10.078''	33.6	280	111.1	-61.7	155.8	-32.9	22.6	94
2018/01/11 23:08:08	6828 Elbsteel	8.3	15.58	2.35	131	0.8	37°37'31'' 50°51'16''	47	1.1	UCAC4 565-40767	13.36	7 ^h 47 ^m 18.422 ^s 22°50'52.884''	59.6	214	176.4	-57.1	120.9	-17.2	22.0	81
2018/01/11 23:42:35	28341 Binga-man	6.3	17.70	5.17	168	0.5	37°23'13'' 51°23'18''	28	0.8	UCAC4 557-34213	12.54	6 ^h 50 ^m 21.352 ^s 21°19'04.430''	47.2	243	170.1	-53.2	134.3	-11.9	21.8	133
2018/01/12 00:07:20	28293 CN57	5.5	17.87	5.56	244	2.0	34°37'30'' 48°08'36''	209	0.1	UCAC4 551-9133	12.31	4 ^h 16 ^m 38.859 ^s 20°05'19.902''	18.2	280	134.3	-49.9	169.8	-8.1	21.6	99
2018/01/12 01:46:14	46303 OZ44	6.9	17.29	4.34	193	0.6	36°21'19'' 48°18'51''	179	0.5	UCAC4 501-50597	12.97	8 ^h 41 ^m 25.962 ^s 10°02'20.094''	36.2	238	159.9	-34.9	107.6	6.0	21.1	107
2018/01/12 02:40:55	86141 RD184	5.0	19.10	5.15	35	0.8	36°44'09'' 50°10'03''	67	1.1	UCAC4 667-12523	13.96	2 ^h 43 ^m 17.197 ^s 43°16'20.560''	7.5	337	117.2	-26.1	148.3	12.8	20.8	182
2018/01/12 04:49:06	49916 XV171	5.0	18.30	10.29	157	0.7	37°31'04'' 48°52'51''	146	0.1	UCAC4 574-46520	8.01	11 ^h 12 ^m 30.342 ^s 24°39'07.331''	42.8	257	130.0	-6.3	78.3	23.5	20.2	59
2018/01/12 14:31:27	2409 Chap-man	9.5	15.74	2.20	157	0.9	35°01'17'' 51°12'31''	325	0.6	UCAC4 548-34268	13.70	6 ^h 50 ^m 30.876 ^s 19°32'44.443''	10.9	72	169.3	-5.7	141.6	-33.7	17.2	77
2018/01/12 15:26:25	8774 Viridis	9.5	17.61	7.30	85	0.8	37°07'19'' 49°30'36''	135	2.3	UCAC4 606-28536	10.31	6 ^h 04 ^m 25.112 ^s 31°06'23.259''	35.0	82	157.5	-13.9	150.2	-41.7	16.9	137
2018/01/12 16:06:49	15462 Stunegan	6.3	17.55	8.40	145	0.6	37°06'59'' 48°51'42''	156	1.0	UCAC4 573-27831	9.15	6 ^h 20 ^m 28.647 ^s 24°30'04.472''	34.4	92	162.5	-20.2	149.0	-47.0	16.7	111
2018/01/12 16:51:08	40963 T7247	5.2	19.29	5.91	207	0.5	36°05'26'' 51°54'15''	356	0.6	UCAC4 531-12572	13.38	5 ^h 15 ^m 54.743 ^s 16°08'29.159''	44.6	124	146.5	-27.3	165.2	-51.8	16.5	167

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.				Table 1		Page 10		LinOccult 2.3.0			
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}	
2018/01/12 17:45:49	5743 Kato	7.2	15.89	2.95	214	1.6	37°56'14" 48°27'38"	146	0.0	UCAC4 589-16794	13.01	5 ^h 16 ^m 59.871 ^s 27°47'57.836"	61.2	131	147.9	-36.1	161.8	-55.6	16.2	72	
2018/01/12 18:13:55	34344 2000 QP229	6.3	17.79	6.10	181	0.5	36°52'14" 51°37'39"	13	0.7	UCAC4 515-29678	11.69	6 ^h 40 ^m 06.835 ^s 12°57'07.510"	41.8	126	164.1	-40.5	145.3	-56.4	16.1	127	
2018/01/12 18:56:41	68328 2001 HS44	5.0	17.71	5.53	121	0.7	36°54'44" 49°02'33"	158	1.0	UCAC4 672-40280	12.19	5 ^h 47 ^m 10.785 ^s 44°19'47.172"	79.0	115	148.0	-47.0	146.3	-55.9	15.9	115	
2018/01/12 20:27:44	20402 1998 OH6	8.7	17.35	3.79	62	0.7	36°07'51" 49°29'53"	190	2.5	UCAC4 526-27054	13.60	6 ^h 26 ^m 42.520 ^s 15°04'32.447"	55.3	178	162.2	-58.1	149.9	-48.8	15.4	124	
2018/01/12 21:02:17	29574 1998 FM45	9.5	19.33	11.25	77	0.6	36°55'36" 49°29'50"	143	2.8	UCAC4 462-1769	8.08	1 ^h 16 ^m 21.807 ^s 2°23'44.372"	5.0	268	86.2	-60.6	132.1	-44.6	15.3	106	
2018/01/12 23:26:38	9447 Jules- bordet	7.6	17.64	4.21	243	0.6	38°12'48" 51°51'41"	34	0.3	UCAC4 580-20503	13.46	5 ^h 59 ^m 21.238 ^s 25°57'10.303"	44.7	257	157.2	-55.0	156.9	-23.4	14.6	113	
2018/01/12 23:48:26	56306 1999 RL125	7.2	18.42	5.90	130	0.6	36°49'32" 51°10'06"	17	1.3	UCAC4 661-38465	12.53	5 ^h 38 ^m 05.722 ^s 42°10'57.696"	48.0	284	147.6	-52.4	150.6	-20.1	14.4	154	
2018/01/12 23:52:03	12688 Baeke- land	6.9	18.13	4.50	212	0.5	37°01'54" 51°53'42"	15	0.5	UCAC4 592-21098	13.65	5 ^h 45 ^m 35.826 ^s 28°15'30.220"	40.1	268	153.9	-51.9	159.0	-19.5	14.4	124	
2018/01/13 00:22:58	11094 Cuba	6.6	18.97	5.42	144	0.5	37°04'02" 51°14'16"	23	1.1	UCAC4 564-19231	13.55	5 ^h 44 ^m 38.917 ^s 22°46'00.154"	31.1	269	153.9	-47.7	161.5	-14.7	14.3	149	
2018/01/13 14:18:06	9916 Kibirev	7.9	17.55	3.70	18	1.5	36°28'11" 49°56'14"	133	2.8	UCAC4 565-11864	13.89	4 ^h 46 ^m 05.357 ^s 22°53'58.514"	31.6	91	139.9	-3.6	174.4	-26.1	10.7	112	
2018/01/13 14:54:28	8094 1992 UG3	7.9	17.64	4.04	124	4.1	36°24'39" 51°09'43"	4	1.5	UCAC4 539-8263	13.62	4 ^h 10 ^m 03.701 ^s 17°37'19.993"	39.1	111	130.7	-8.9	168.5	-31.8	10.7	115	
2018/01/13 15:20:25	20121 1995 WT7	6.9	16.98	3.19	151	0.7	35°17'24" 51°15'09"	332	0.8	UCAC4 610-28483	13.85	6 ^h 03 ^m 54.550 ^s 31°54'46.378"	35.3	81	156.2	-12.8	160.0	-35.8	10.5	95	
2018/01/13 15:30:30	18827 1999 NA26	12.6	16.92	3.43	242	0.8	37°24'37" 47°59'57"	161	0.7	UCAC4 572-44560	13.54	8 ^h 41 ^m 56.095 ^s 24°19'21.457"	7.4	61	165.4	-14.4	128.3	-37.3	10.4	130	
2018/01/13 15:40:00	38548 1999 VK47	12.6	17.02	5.90	112	0.8	36°57'52" 49°08'24"	154	2.6	UCAC4 520-34432	11.13	6 ^h 54 ^m 39.003 ^s 13°51'51.367"	17.5	89	166.8	-15.8	152.3	-38.7	10.4	138	
2018/01/13 16:30:23	905 Universi- tas	21.4	15.01	3.25	53	2.3	36°01'19" 50°29'37"	339	7.9	UCAC4 553-5283	11.82	2 ^h 44 ^m 36.488 ^s 20°32'03.185"	60.6	172	111.7	-23.8	147.5	-45.9	10.2	92	
2018/01/13 18:14:43	8 Flora	135.9	8.61	1.05	129	17.2	36°27'36" 51°12'05"	6	0.1	UCAC4 561-33724	8.08	6 ^h 39 ^m 26.275 ^s 22°08'52.105"	50.1	121	165.8	-40.5	157.8	-56.8	9.8	20	
2018/01/13 18:29:04	11774 Jerne	6.3	18.93	6.30	155	0.6	37°46'47" 49°02'39"	136	1.0	UCAC4 654-25356	12.64	4 ^h 53 ^m 29.253 ^s 40°42'22.905"	79.8	151	139.9	-42.7	157.4	-57.6	9.7	164	
2018/01/13 19:09:38	57 Mnemosyne	112.6	11.60	0.53	278	9.6	37°04'45" 52°29'56"	12	2.0	UCAC4 438-46254	12.09	8 ^h 20 ^m 01.994 ^s -2°35'38.905"	23.3	126	154.1	-48.6	128.3	-58.6	9.6	110	
2018/01/13 19:18:03	3253 Gradie	7.6	17.12	4.11	121	0.7	36°20'37" 48°57'47"	178	1.4	UCAC4 604-28701	13.03	6 ^h 03 ^m 50.887 ^s 30°37'33.874"	68.9	151	156.4	-49.8	162.5	-58.6	9.5	94	
2018/01/13 19:51:29	12411 Tan- nokayo	5.8	16.19	2.54	128	0.6	36°37'28" 48°55'06"	169	0.6	UCAC4 530-46426	13.76	8 ^h 13 ^m 16.967 ^s 15°53'17.496"	45.4	127	170.5	-54.1	136.1	-57.6	9.4	68	

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 12		LinOccult 2.3.0			
Asteroid			Nearest point				Star				Sun			Moon						
Date Time (UTC)	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Dist	Alt	Phase (%)	σ_{km}
2018/01/15 01:01:28	17312 7622 P- L	5.5	16.71	3.43	95	0.6	35°27'56" 49°22'40"	218	1.3 3.0	UCAC4 619-37614	13.32	6 ^h 56 ^m 49.626 ^s 33°44'48.341"	42.7	274	163.3	-41.8	162.6	-25.5	3.8	74
2018/01/15 03:37:55	66985 1999 XT93	8.3	18.74	5.88	29	0.8	36°40'59" 49°59'23"	103	2.1 2.1	UCAC4 373-64179	12.86	12 ^h 10 ^m 42.997 ^s −15°32'37.221"	21.6	203	105.5	-16.8	85.9	-2.2	3.4	157
2018/01/15 05:08:35	252 Clementina	69.3	15.97	3.13	99	2.3	36°32'60" 50°55'13"	11	12.9 14.9	UCAC4 370-71103	12.90	15 ^h 22 ^m 28.146 ^s −16°02'24.367"	24.0	177	62.4	-3.3	42.0	8.9	3.2	184
2018/01/15 05:17:35	1196 Sheba	29.3	15.80	3.43	253	0.7	38°21'08" 51°54'54"	35	2.5 6.3	UCAC4 360-121720	12.42	17 ^h 50 ^m 05.506 ^s −18°03'29.522"	14.5	144	27.6	-2.0	7.1	9.9	3.2	187
2018/01/15 16:30:36	1509 Esclang- ona	8.2	14.51	2.26	51	0.7	36°57'11" 49°53'56"	109	3.9 6.1	UCAC4 564-24587	12.39	6 ^h 11 ^m 28.548 ^s 22°42'57.704"	40.3	103	157.4	-23.5	172.3	-33.4	1.8	53
2018/01/15 23:49:43	59958 1999 RJ231	5.8	19.26	8.99	177	0.8	38°18'11" 50°58'52"	54	0.8 1.4	UCAC4 547-49612	10.27	11 ^h 13 ^m 46.117 ^s 19°19'11.400"	55.8	146	132.4	-51.9	120.1	-43.9	1.2	161
2018/01/15 23:54:49	18243 Gunn	7.2	17.32	4.36	126	1.2	37°27'15" 50°53'52"	41	1.3 3.1	UCAC4 576-6037	12.98	2 ^h 48 ^m 42.395 ^s 25°00'13.110"	8.1	300	111.5	-51.2	122.8	-43.1	1.2	94
2018/01/16 02:03:19	3843 OISCA	25.1	15.98	2.53	153	2.4	37°32'10" 51°10'08"	36	4.0 6.6	UCAC4 592-24485	13.56	5 ^h 58 ^m 27.903 ^s 28°20'55.250"	19.5	291	153.6	-31.9	163.1	-23.5	1.0	152
2018/01/16 02:18:19	23899 Kornos	8.3	16.62	3.76	148	1.2	35°35'04" 51°17'60"	340	0.9 3.8	UCAC4 417-49139	12.90	9 ^h 22 ^m 43.334 ^s −6°40'23.507"	21.0	230	144.2	-29.5	136.6	-21.1	0.9	88
2018/01/16 02:39:30	20682 1999 VP23	7.9	17.26	3.61	212	0.7	38°44'56" 51°08'16"	55	0.5 2.9	UCAC4 612-31432	13.69	6 ^h 20 ^m 11.445 ^s 32°21'02.720"	20.3	296	156.9	-26.1	164.2	-17.9	0.9	111
2018/01/16 03:22:44	47735 2000 DS60	11.0	18.23	9.87	205	0.5	39°01'19" 50°37'14"	72	0.1 6.1	UCAC4 360-67819	8.36	13 ^h 43 ^m 41.821 ^s −18°05'25.362"	21.9	176	85.1	-19.2	75.2	-11.3	0.9	72
2018/01/16 15:41:27	3683 Bau- mann	20.9	16.38	4.02	102	1.7	36°18'56" 50°57'40"	1	4.4 5.6	UCAC4 550-16836	12.39	5 ^h 35 ^m 21.843 ^s 19°54'35.155"	36.8	103	147.8	-15.5	152.8	-18.0	0.2	149
2018/01/16 18:31:02	4594 Dashkova	5.0	17.93	7.54	12	0.7	36°19'03" 50°09'22"	10	2.3 2.3	UCAC4 532-11191	10.39	5 ^h 07 ^m 13.802 ^s 16°23'37.294"	56.2	169	140.5	-42.4	144.3	-43.8	0.1	87
2018/01/16 19:09:51	37249 2000 WZ182	5.5	17.10	3.75	236	0.6	39°11'04" 51°05'43"	61	0.1 2.4	UCAC4 512-11152	13.39	5 ^h 27 ^m 48.521 ^s 12°12'11.233"	52.3	177	144.1	-48.1	147.8	-49.0	0.1	90
2018/01/16 20:22:14	19695 Billnye	5.0	17.24	6.40	185	0.5	36°56'59" 51°39'20"	15	0.2 2.5	UCAC4 582-27531	10.84	6 ^h 22 ^m 06.639 ^s 26°19'22.697"	66.5	186	158.3	-56.8	160.6	-56.7	0.1	79
2018/01/16 22:05:32	6731 Hiei	5.8	17.78	6.72	112	1.0	35°52'02" 49°04'31"	195	1.2 2.5	UCAC4 451-52982	11.06	12 ^h 12 ^m 38.125 ^s 0°07'08.021"	19.4	114	113.6	-60.7	111.8	-58.9	0.0	91
2018/01/16 23:14:08	19731 Tochigi	11.5	16.64	3.96	220	1.0	34°37'37" 48°23'50"	213	0.8 3.7	UCAC4 657-47416	12.71	7 ^h 13 ^m 00.212 ^s 41°16'02.837"	65.7	262	157.7	-55.9	156.8	-53.8	0.0	124
2018/01/17 00:21:50	43087 1999 WW8	7.9	18.00	4.59	118	0.9	34°50'13" 50°33'50"	299	1.6 2.7	UCAC4 538-53667	13.42	12 ^h 37 ^m 04.635 ^s 17°35'28.146"	49.3	131	113.7	-47.4	112.3	-45.5	0.0	119
2018/01/17 00:28:09	18362 1990 VX6	5.8	19.02	7.66	167	0.6	38°10'10" 50°57'21"	53	0.8 1.7	UCAC4 548-49655	11.36	10 ^h 38 ^m 30.692 ^s 19°28'21.960"	59.7	180	141.6	-46.5	140.3	-44.6	0.0	137
2018/01/17 01:00:01	3993 Sorm	9.5	16.72	2.91	86	6.5	35°47'28" 49°20'53"	204	2.6 3.8	UCAC4 535-7591	13.89	3 ^h 58 ^m 19.107 ^s 16°52'05.986"	1.8	295	124.3	-41.8	125.5	-40.1	0.0	101

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.				Table 1		Page 13		LinOccult 2.3.0			
		Asteroid			Nearest point			Star			Sun			Moon							
Date Time (UTC)	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Dist	Alt	Phase (%)	σ_{km}	
2018/01/17 04:59:02	98 Ianthe	104.5	13.35	0.58	287	5.0	32°31'47'' 49°11'33''	250	1.4	UCAC4 379-65431	13.72	13 ^h 47 ^m 19.663 ^s −14°16'28.043''	23.3	202	86.8	-4.4	88.1	-3.6	0.0	109	
2018/01/17 14:15:43	16608 FA23	6.3	18.16	4.41	113	0.7	36°40'07'' 49°03'52''	166	1.3	UCAC4 531-19222	13.77	5 ^h 52 ^m 43.687 ^s 16°09'43.083''	18.1	86	150.3	-2.5	145.3	2.2	0.2	126	
2018/01/17 14:52:04	62583 SJ293	5.0	19.59	7.21	53	0.8	36°35'44'' 50°29'00''	24	1.1	UCAC4 626-9787	12.39	2 ^h 59 ^m 38.011 ^s 35°02'30.009''	64.5	115	114.2	-7.8	108.4	-2.7	0.3	182	
2018/01/17 14:54:46	241 Germania	168.9	13.20	1.01	267	4.9	34°58'20'' 52°18'15''	339	11.3	UCAC4 461-131444	12.73	23 ^h 32 ^m 29.126 ^s 2°08'49.134''	38.2	211	57.5	-8.2	51.7	-3.1	0.3	161	
2018/01/17 16:45:33	16943 HP42	10.0	15.86	2.70	55	1.8	36°25'13'' 49°33'51''	170	3.6	UCAC4 626-27099	13.26	5 ^h 38 ^m 48.726 ^s 35°01'05.390''	57.5	102	146.4	-25.5	140.0	-19.5	0.3	92	
2018/01/17 17:33:48	49614 FB39	5.5	17.86	5.07	187	0.6	33°42'60'' 50°23'16''	282	0.7	UCAC4 703-36608	12.80	5 ^h 17 ^m 01.860 ^s 50°33'01.055''	75.7	79	136.6	-33.2	130.7	-27.0	0.4	157	
2018/01/17 19:04:13	3443 Leet-sungdao	7.9	17.74	4.81	137	0.5	35°43'49'' 48°52'17''	197	1.3	UCAC4 474-27828	12.94	7 ^h 05 ^m 18.343 ^s 4°47'04.077''	39.6	144	159.6	-47.1	155.7	-40.6	0.4	114	
2018/01/18 00:34:07	1560 Strattonia	21.0	15.11	1.45	226	2.6	35°18'24'' 48°07'18''	198	0.6	UCAC4 573-26666	13.99	6 ^h 14 ^m 23.676 ^s 24°31'22.654''	32.1	271	155.6	-45.6	145.4	-48.8	0.8	100	
2018/01/18 14:48:29	31776 JE124	7.6	16.26	4.49	93	0.7	35°48'23'' 50°49'13''	338	2.0	UCAC4 611-37108	11.78	6 ^h 56 ^m 43.053 ^s 32°06'42.286''	25.4	69	161.5	-7.0	146.2	5.9	2.1	82	
2018/01/18 17:33:56	51436 FD21	5.2	18.40	6.39	70	0.5	36°13'22'' 50°40'31''	356	1.4	UCAC4 604-27991	12.01	5 ^h 59 ^m 59.673 ^s 30°36'43.836''	59.3	117	150.8	-33.1	133.4	-18.1	2.4	127	
2018/01/18 18:04:04	5866 Sachsen	6.6	17.23	3.60	108	0.6	36°22'12'' 49°04'35''	177	1.5	UCAC4 541-41326	13.67	7 ^h 28 ^m 46.427 ^s 18°08'09.372''	41.1	113	171.9	-37.8	154.4	-22.8	2.5	107	
2018/01/18 22:19:16	999 Zachia	21.2	15.06	3.04	148	1.5	36°49'50'' 51°20'07''	15	3.4	UCAC4 480-41076	12.09	7 ^h 56 ^m 59.631 ^s 5°56'02.432''	45.3	194	165.4	-59.8	156.5	-54.4	3.0	136	
2018/01/19 00:22:47	32990 Sayohime	7.2	18.26	9.36	58	0.6	36°40'13'' 50°30'40''	28	2.7	UCAC4 628-34727	8.90	6 ^h 33 ^m 39.707 ^s 35°26'03.385''	43.7	276	155.3	-47.1	136.1	-52.5	3.4	86	
2018/01/19 00:39:46	8681 Burs	8.3	17.16	3.59	69	0.8	35°51'43'' 49°29'31''	206	2.4	UCAC4 552-29711	13.62	6 ^h 38 ^m 02.525 ^s 20°22'59.519''	31.4	265	160.1	-44.6	139.0	-51.0	3.4	113	
2018/01/19 01:17:00	5582 CU8	9.1	16.97	3.19	232	0.9	38°08'37'' 51°46'22''	35	0.5	UCAC4 582-31618	13.84	6 ^h 40 ^m 53.980 ^s 26°14'50.284''	30.1	276	160.3	-39.0	139.0	-47.1	3.5	120	
2018/01/19 02:21:33	8492 Kikuoaka	6.6	17.03	7.10	184	0.7	34°52'16'' 48°40'26''	213	0.5	UCAC4 628-26814	9.93	5 ^h 39 ^m 07.398 ^s 35°28'32.711''	17.8	304	145.0	-28.7	124.2	-38.7	3.7	97	
2018/01/19 02:41:56	3253 Gradie	7.6	17.25	5.75	223	0.7	34°00'08'' 48°42'36''	228	0.2	UCAC4 604-27577	11.51	5 ^h 58 ^m 41.431 ^s 30°39'22.181''	14.0	301	150.2	-25.4	128.6	-35.7	3.7	96	
2018/01/19 03:40:50	18700 HK54	6.0	18.83	5.10	169	1.3	36°58'05'' 48°35'59''	163	0.8	UCAC4 422-53195	13.74	10 ^h 51 ^m 20.356 ^s −5°38'34.654''	21.2	231	131.3	-16.0	152.2	-26.7	3.9	147	
2018/01/19 14:09:08	2086 Newell	11.5	15.07	1.48	174	1.5	37°07'06'' 48°35'09''	160	0.4	UCAC4 540-29939	13.92	6 ^h 34 ^m 32.456 ^s 17°51'22.884''	12.9	77	158.4	-1.2	131.4	18.1	5.6	74	
2018/01/19 15:31:36	33672 JU99	6.3	17.40	6.39	158	0.9	34°34'06'' 49°09'52''	231	0.7	UCAC4 454-6958	11.01	4 ^h 40 ^m 20.120 ^s 0°47'26.647''	29.4	130	126.2	-13.4	100.2	8.7	5.9	102	

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 14		LinOccult 2.3.0			
		Asteroid			Nearest point			Star			Sun			Moon						
Date Time (UTC)	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Dist	Alt	Phase (%)	σ_{km}
2018/01/19 15:40:08	1270 Datura	9.5	15.51	3.00	73	0.8	36°05'48'' 50°41'24''	349	3.1 4.8	UCAC4 567-42902	12.58	8 ^h 28 ^m 35.204 ^s 23°18'37.632''	13.5	70	173.9	-14.7	156.3	7.6	5.9	79
2018/01/19 15:56:02	27150 Annas- ante	5.5	17.66	4.07	42	0.6	36°25'02'' 49°40'49''	167	1.9 2.0	UCAC4 479-22040	13.62	6 ^h 36 ^m 42.711 ^s 5°40'19.574''	20.4	106	153.9	-17.2	129.4	5.4	5.9	109
2018/01/19 17:04:23	26586 Har- shaw	7.2	17.86	5.48	34	0.6	36°08'14'' 50°20'30''	342	2.3 2.4	UCAC4 607-33048	12.38	6 ^h 33 ^m 22.324 ^s 31°16'07.140''	50.7	100	156.5	-28.1	128.9	-4.3	6.2	123
2018/01/19 17:46:14	8791 1978 VG11	5.0	17.70	4.29	149	0.5	36°41'59'' 48°44'19''	169	0.7 1.9	UCAC4 603-37515	13.43	6 ^h 49 ^m 21.317 ^s 30°25'58.234''	54.2	108	159.9	-34.8	132.1	-10.6	6.3	103
2018/01/19 22:57:41	22122 2000 SU155	6.3	17.75	6.38	245	0.5	34°52'03'' 48°02'55''	205	0.4 1.8	UCAC4 494-41248	11.37	7 ^h 17 ^m 58.520 ^s 8°44'43.931''	41.7	222	163.5	-57.0	136.5	-51.0	7.4	136
2018/01/19 23:03:18	4867 Polites	36.3	17.24	3.30	74	3.7	37°02'07'' 49°35'47''	133	5.2 5.4	UCAC4 437-53378	13.99	11 ^h 28 ^m 22.443 ^s -2°41'40.000''	31.2	143	125.6	-56.5	156.2	-51.3	7.4	268
2018/01/19 23:50:42	135114 2001 QM113	5.0	19.18	6.77	157	1.2	36°26'56'' 51°27'30''	4	0.8 1.1	UCAC4 614-12037	12.41	4 ^h 04 ^m 50.246 ^s 32°45'34.648''	23.3	294	125.1	-51.3	94.2	-52.5	7.6	174
2018/01/20 03:44:45	1601 Patry	11.4	15.54	2.33	32	0.9	36°32'20'' 50°17'01''	34	5.3 5.8	UCAC4 584-39757	13.34	7 ^h 42 ^m 35.401 ^s 26°45'54.664''	16.4	292	171.2	-15.3	139.2	-30.7	8.5	79
2018/01/20 15:25:57	5049 Sherlock	6.3	17.21	4.28	103	0.6	35°30'55'' 50°49'56''	328	1.4 3.0	UCAC4 547-5808	12.95	3 ^h 05 ^m 37.029 ^s 19°18'19.392''	56.1	147	109.1	-12.3	70.1	17.9	11.3	84
2018/01/20 16:38:26	776 Berber- cia	151.2	12.78	1.08	225	3.7	37°27'29'' 48°10'33''	158	14.1 37.3	UCAC4 354-194223	12.19	23 ^h 26 ^m 53.503 ^s -19°16'56.485''	5.9	230	46.2	-23.7	13.0	8.8	11.6	155
2018/01/20 16:52:29	2289 McMil- lan	6.6	17.36	4.68	92	0.5	35°59'29'' 50°51'14''	347	1.7 2.7	UCAC4 545-40992	12.69	7 ^h 23 ^m 21.226 ^s 18°48'11.303''	32.6	100	168.9	-26.0	129.3	6.8	11.7	99
2018/01/20 17:24:43	1554 Yu- goslavia	19.1	15.40	2.32	251	1.9	35°51'37'' 47°48'37''	187	0.6 6.6	UCAC4 483-21631	13.22	6 ^h 24 ^m 15.397 ^s 6°26'34.658''	35.9	130	150.9	-31.2	113.9	2.2	11.8	114
2018/01/20 17:44:14	34414 2000 RQ103	9.1	17.90	4.50	82	1.1	37°18'46'' 49°43'15''	116	2.2 2.5	UCAC4 604-15360	13.41	4 ^h 49 ^m 42.620 ^s 30°45'54.461''	69.6	155	133.8	-34.3	94.5	-0.7	11.9	144
2018/01/20 17:57:52	38057 1999 BO15	7.6	17.46	5.90	49	0.5	36°27'03'' 50°28'24''	14	2.6 3.0	UCAC4 574-4917	11.56	2 ^h 22 ^m 21.818 ^s 24°44'25.500''	55.7	234	100.9	-36.5	61.7	-2.7	12.0	102
2018/01/20 20:19:55	4524 Barkla- jdetolli	9.1	16.53	3.11	222	1.0	35°02'58'' 48°13'42''	204	0.2 4.1	UCAC4 513-22935	13.48	6 ^h 17 ^m 14.527 ^s 12°26'40.512''	52.2	191	151.8	-55.7	111.4	-24.4	12.6	89
2018/01/20 21:12:48	38368 1999 RQ164	5.8	18.33	5.80	43	0.5	36°01'60'' 50°24'08''	335	1.7 1.8	UCAC4 657-37352	12.54	5 ^h 40 ^m 28.307 ^s 41°22'48.272''	67.9	258	141.7	-59.5	103.8	-32.0	12.9	125
2018/01/20 22:17:47	47330 1999 XQ31	5.2	18.88	9.06	126	0.6	35°06'05'' 49°13'14''	223	1.0 1.5	UCAC4 532-14228	9.82	5 ^h 28 ^m 44.831 ^s 16°20'30.334''	38.6	247	141.4	-59.5	99.1	-40.2	13.2	136
2018/01/20 23:26:12	20898 Foun- tainhills	19.1	16.70	4.60	59	0.9	36°10'21'' 50°34'16''	352	4.2 4.5	UCAC4 715-31940	12.12	4 ^h 22 ^m 30.116 ^s 52°53'54.670''	41.4	307	125.4	-54.0	91.0	-46.4	13.5	169
2018/01/21 03:18:50	32258 2000 OF53	6.0	18.03	4.19	140	0.8	37°37'28'' 50°58'45''	43	1.0 1.8	UCAC4 579-18346	13.86	5 ^h 47 ^m 50.461 ^s 25°38'41.475''	2.6	308	146.4	-19.3	101.7	-37.4	14.7	136
2018/01/21 03:29:46	25281 1998 WP	7.6	19.23	8.15	95	0.6	35°05'31'' 49°41'04''	245	1.6 1.9	UCAC4 353-67626	11.08	13 ^h 29 ^m 30.816 ^s -19°34'48.371''	20.2	187	92.8	-17.6	136.1	-36.0	14.7	161

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 15		LinOccult 2.3.0			
		Asteroid			Nearest point			Star			Sun			Moon						
Date Time (UTC)	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Dist	Alt	Phase (%)	σ_{km}
2018/01/21 05:18:06	356 Liguria	131.3	14.53	1.09	265	4.3	39°16'48'' 51°29'54''	53	10.6	UCAC4 316-84891	13.93	16 ^h 06 ^m 23.678 ^s −26°59'08.044''	12.9	175	56.3	-1.2	101.4	-20.4	15.2	190
2018/01/21 15:14:24	6300 Hosamu	8.3	17.36	4.32	132	1.0	35°22'28'' 51°05'05''	331	1.5	UCAC4 575-26015	13.06	6 ^h 14 ^m 44.155 ^s 24°52'49.887''	32.9	89	152.0	-10.3	101.7	27.4	18.3	121
2018/01/21 15:54:09	1469 Linzia	59.0	14.46	4.77	138	4.5	37°07'07'' 51°10'17''	25	10.2	UCAC4 461-40454	9.70	8 ^h 01 ^m 15.587 ^s 2°05'29.997''	5.1	93	162.0	-16.5	126.4	23.4	18.5	123
2018/01/21 16:31:13	94293 2001 DT95	5.0	19.15	5.27	222	0.6	36°21'11'' 52°02'21''	1	0.5	UCAC4 549-17582	13.88	5 ^h 39 ^m 59.786 ^s 19°43'57.864''	46.4	119	143.8	-22.4	92.7	19.0	18.7	171
2018/01/21 18:25:54	62197 2000 SQ51	5.2	18.06	5.83	163	0.5	37°27'35'' 48°47'33''	149	0.7	UCAC4 579-28339	12.24	6 ^h 28 ^m 02.607 ^s 25°38'03.833''	60.0	135	154.8	-40.6	103.0	3.0	19.4	131
2018/01/21 19:10:08	28341 Binga-man	6.3	17.94	5.64	52	0.6	36°14'36'' 49°34'55''	183	1.7	UCAC4 559-32809	12.31	6 ^h 41 ^m 59.516 ^s 21°38'33.268''	59.3	151	158.3	-47.1	105.8	-3.8	19.6	135
2018/01/21 20:32:27	668 Dora	26.8	16.88	3.36	45	1.7	36°23'02'' 50°26'56''	9	6.2	UCAC4 505-45281	13.57	7 ^h 54 ^m 30.031 ^s 10°59'45.211''	49.7	160	169.9	-56.7	122.7	-16.4	20.1	165
2018/01/21 20:36:07	19954 Shigeyoshi	5.0	18.24	7.80	162	0.8	36°49'05'' 51°27'48''	14	0.5	UCAC4 588-16918	10.44	5 ^h 16 ^m 35.365 ^s 27°31'10.649''	59.5	233	138.6	-57.0	86.0	-16.9	20.1	99
2018/01/21 21:04:46	23303 2001 AD17	8.3	17.28	3.42	63	1.5	35°47'35'' 49°34'44''	214	2.7	UCAC4 433-56164	13.91	11 ^h 42 ^m 09.100 ^s −3°35'08.977''	14.8	114	124.1	-58.9	171.2	-21.2	20.3	100
2018/01/21 21:17:17	145833 1998 WY37	5.5	20.62	8.54	62	0.6	36°27'54'' 50°35'21''	12	0.9	UCAC4 499-55805	12.08	11 ^h 10 ^m 04.449 ^s 9°43'42.830''	32.1	116	136.7	-59.4	169.9	-23.0	20.3	238
2018/01/21 22:08:24	25662 Chonofsky	5.2	18.01	7.87	74	0.6	36°31'36'' 50°41'26''	13	1.6	UCAC4 554-24578	10.14	6 ^h 20 ^m 38.623 ^s 20°41'59.336''	50.2	235	153.1	-59.6	99.2	-30.0	20.6	106
2018/01/21 22:40:39	22690 1998 QU96	7.6	17.78	6.82	147	0.5	36°46'30'' 51°19'46''	14	1.2	UCAC4 474-39325	10.96	8 ^h 11 ^m 19.239 ^s 4°44'40.379''	43.2	200	164.9	-58.0	125.6	-34.0	20.8	120
2018/01/21 22:40:53	20219 Brianstone	6.9	16.46	3.60	98	0.7	35°57'57'' 49°11'29''	194	1.6	UCAC4 450-39470	12.90	7 ^h 45 ^m 01.589 ^s 0° − 7'34.213''	36.7	207	158.7	-58.0	118.7	-34.1	20.8	82
2018/01/21 23:39:45	2778 Tangshan	7.9	16.17	2.90	113	1.2	35°21'32'' 49°13'38''	216	1.4	UCAC4 577-26050	13.35	6 ^h 15 ^m 31.373 ^s 25°13'56.001''	39.1	264	151.8	-52.3	97.4	-40.1	21.2	77
2018/01/22 01:20:24	7283 1989 TX15	5.0	16.55	4.03	221	0.6	38°07'09'' 51°39'53''	36	0.0	UCAC4 609-40786	12.55	7 ^h 43 ^m 59.769 ^s 31°46'50.151''	41.5	272	166.0	-38.1	115.4	-44.6	21.7	70
2018/01/22 02:33:03	6042 Cheshire-cat	8.7	17.24	5.27	237	0.6	33°19'22'' 49°08'07''	244	0.4	UCAC4 610-45321	11.98	9 ^h 14 ^m 43.064 ^s 31°56'27.742''	44.5	269	162.0	-26.5	132.9	-42.3	22.1	119
2018/01/22 02:53:12	37564 1988 TR3	5.8	18.20	4.44	66	1.1	37°03'32'' 50°22'39''	56	1.4	UCAC4 661-30205	13.78	5 ^h 00 ^m 33.571 ^s 42°02'45.290''	13.5	322	133.3	-23.3	82.1	-40.8	22.4	154
2018/01/22 03:20:53	4122 Ferrari	12.6	16.99	3.99	200	0.6	33°52'02'' 49°09'39''	240	1.5	UCAC4 318-74568	13.03	14 ^h 04 ^m 32.958 ^s −26°35'07.148''	13.4	177	83.7	-18.8	136.8	-38.4	22.4	170
2018/01/22 03:52:58	2462 Nehalennia	6.0	15.86	3.88	208	0.7	38°25'37'' 51°19'54''	47	0.0	UCAC4 563-43811	12.01	7 ^h 57 ^m 20.900 ^s 22°35'47.573''	13.0	290	174.7	-13.8	118.5	-35.0	22.6	68
2018/01/22 04:37:02	16297 6346 P-L	6.0	17.48	3.66	174	0.5	34°20'55'' 49°06'46''	233	0.6	UCAC4 646-45041	13.86	7 ^h 51 ^m 54.284 ^s 39°02'39.062''	18.6	309	159.9	-7.0	113.6	-29.5	22.9	109

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.		Table 1		Page 16		LinOccult 2.3.0				
		Asteroid			Nearest point			Star			Sun			Moon						
Date Time (UTC)	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Dist	Alt	Dist	Alt	Phase (%)	σ_{km}	
2018/01/22 05:21:40	1013 Tombecka	31.9	16.11	4.62	156	0.7	38°28'08" 50°01'29"	91	4.7	UCAC4 293-200906	11.50	18 ^h 34 ^m 15.318 ^s −31°28'40.296"	1.1	146	25.8	-0.6	81.4	-23.3	23.1	197
2018/01/22 14:24:33	16782 XC19	6.9	17.80	4.96	216	0.6	37°42'39" 48°20'36"	152	0.5	UCAC4 567-34245	12.86	6 ^h 56 ^m 59.201 ^s 23°21'31.801"	17.7	75	160.8	-2.7	99.2	37.5	26.4	125
2018/01/22 15:04:55	7558 Yurlov	6.9	15.99	2.52	42	1.0	36°30'34" 49°41'48"	158	3.2	UCAC4 546-34654	13.58	6 ^h 50 ^m 13.360 ^s 19°07'40.338"	22.1	86	159.3	-8.6	97.3	35.7	26.7	72
2018/01/22 15:29:23	24110 VP20	6.0	16.51	3.04	237	1.0	39°33'13" 50°26'23"	79	0.1	UCAC4 604-24094	13.54	5 ^h 44 ^m 54.870 ^s 30°36'47.024"	44.7	94	143.8	-12.4	82.8	34.0	26.9	96
2018/01/22 17:45:07	18006 JE94	6.6	18.87	6.30	133	1.2	38°00'32" 50°31'01"	67	1.2	UCAC4 493-7862	12.57	4 ^h 32 ^m 26.091 ^s 8°24'25.522"	48.5	175	124.2	-34.0	61.9	18.9	27.7	152
2018/01/22 20:59:13	34373 RT44	7.6	17.88	7.51	48	0.7	36°13'20" 50°28'30"	354	2.2	UCAC4 637-29446	10.37	5 ^h 50 ^m 45.273 ^s 37°17'14.967"	67.9	245	143.2	-58.4	81.9	-10.1	29.0	126
2018/01/22 21:04:17	52650 YF15	5.8	19.47	7.21	99	0.7	36°28'09" 49°09'59"	172	1.1	UCAC4 591-15526	12.26	5 ^h 02 ^m 37.644 ^s 28°02'47.450"	53.4	248	134.5	-58.6	70.3	-10.9	29.1	171
2018/01/22 21:06:35	14120 Espe-nak	6.3	16.46	4.22	161	0.8	35°44'58" 48°38'23"	194	0.3	UCAC4 516-33814	12.26	6 ^h 51 ^m 38.241 ^s 13°05'45.974"	51.9	199	158.0	-58.8	94.4	-11.2	29.0	76
2018/01/22 21:13:22	16461 BO	13.8	16.57	3.48	97	1.2	36°37'34" 49°11'59"	166	3.2	UCAC4 605-34096	13.14	6 ^h 34 ^m 09.339 ^s 30°51'47.098"	66.7	222	153.7	-59.1	90.3	-12.2	29.1	125
2018/01/22 21:22:27	1947 Iso-Heikkila	29.4	16.44	4.36	79	3.4	35°40'11" 49°27'38"	214	7.4	UCAC4 574-17442	12.10	5 ^h 37 ^m 44.699 ^s 24°40'59.121"	53.3	239	142.4	-59.4	77.4	-13.6	29.2	131
2018/01/22 21:43:42	292 Ludovica	31.9	13.77	1.42	179	2.8	37°02'23" 51°34'55"	17	1.7	UCAC4 640-45056	12.70	9 ^h 50 ^m 07.155 ^s 37°56'24.075"	69.7	117	153.0	-59.7	126.8	-16.7	29.3	86
2018/01/22 22:03:20	6825 Irvine	5.8	17.70	5.50	185	0.8	34°52'29" 48°39'47"	213	0.4	UCAC4 578-7682	12.20	3 ^h 19 ^m 53.719 ^s 25°32'48.392"	26.0	280	111.5	-59.5	47.5	-19.5	29.3	94
2018/01/22 22:11:35	18418 Ujibe	5.5	17.10	4.50	115	0.6	35°54'22" 49°02'48"	194	1.0	UCAC4 635-40534	12.61	7 ^h 15 ^m 51.760 ^s 36°56'31.178"	69.4	239	157.7	-59.3	98.2	-20.7	29.5	82
2018/01/23 01:36:51	1063 Aquile-gia	18.3	14.04	2.09	65	1.7	35°38'31" 49°38'31"	226	6.8	UCAC4 574-41764	12.12	8 ^h 13 ^m 00.445 ^s 24°36'28.581"	38.0	264	174.6	-35.4	110.2	-39.7	30.8	71
2018/01/23 02:15:06	3664 Anneres	12.0	15.79	2.18	182	1.0	35°04'30" 48°36'56"	209	0.8	UCAC4 521-47061	13.77	8 ^h 39 ^m 54.311 ^s 14°09'46.022"	28.5	258	172.9	-29.3	117.8	-40.1	31.1	96
2018/01/23 04:33:22	47516 AQ69	6.0	17.81	4.97	192	0.6	35°27'49" 51°41'39"	342	0.4	UCAC4 518-54662	12.85	12 ^h 54 ^m 06.445 ^s 13°30'25.853"	44.5	229	114.6	-7.4	165.9	-31.5	32.0	98
2018/01/23 14:58:58	25243 UQ15	6.0	17.63	3.75	132	0.7	35°29'43" 51°07'33"	335	1.0	UCAC4 576-29899	13.92	6 ^h 28 ^m 49.433 ^s 25°04'56.801"	29.5	85	153.2	-7.5	79.6	42.3	36.2	103
2018/01/23 15:18:31	106186 US9	5.2	18.48	4.81	184	2.9	38°29'31" 49°13'21"	120	0.7	UCAC4 594-11738	13.69	4 ^h 21 ^m 03.149 ^s 28°40'33.625"	55.3	114	124.7	-10.5	52.1	41.7	36.5	148
2018/01/23 15:40:04	9739 Powell	6.3	16.82	3.27	71	0.6	35°42'56" 49°31'46"	215	2.1	UCAC4 605-10612	13.61	3 ^h 49 ^m 53.869 ^s 30°58'29.173"	64.4	129	118.2	-13.8	46.8	40.7	36.6	81
2018/01/23 15:58:04	16678 CC18	5.0	17.82	4.05	58	0.6	36°36'23" 50°31'20"	23	1.6	UCAC4 644-16030	13.80	3 ^h 42 ^m 31.220 ^s 38°38'19.524"	73.6	127	117.3	-16.7	49.7	39.6	36.8	113

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 17		LinOccult 2.3.0			
Date Time (UTC)	Asteroid			Nearest point			Star					Sun			Moon					
	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Dist	Alt	Phase (%)	σ_{km}
2018/01/23 16:42:27	20648 1999 TF166	5.5	18.92	5.48	200	0.5	33°50'59" 50°57'27"	300	0.6	UCAC4 665-43844	13.44	6 ^h 04 ^m 43.095 ^s 42°52'18.941"	61.1	88	142.7	-23.8	75.5	35.9	37.0	164
2018/01/23 17:30:54	31668 1999 JX3	8.3	17.80	4.85	4	0.9	36°19'12" 50°00'57"	146	2.5	UCAC4 543-21117	12.96	5 ^h 53 ^m 32.688 ^s 18°34'09.629"	52.3	137	144.8	-31.5	69.6	30.6	37.3	132
2018/01/23 18:18:52	3042 Zelinsky	5.5	18.03	6.61	194	0.5	36°12'29" 51°47'18"	358	0.3	UCAC4 534-27511	11.42	6 ^h 28 ^m 27.682 ^s 16°46'55.648"	52.1	143	152.7	-39.1	77.4	24.4	37.7	99
2018/01/23 19:12:10	55919 1998 FA39	5.2	18.49	4.70	85	0.8	35°30'53" 50°37'37"	319	1.2	UCAC4 629-24714	13.80	5 ^h 29 ^m 33.049 ^s 35°38'07.900"	75.4	196	138.6	-46.9	66.0	16.8	38.1	144
2018/01/23 19:57:06	215319 2001 TA119	10.5	20.07	7.39	104	0.6	36°39'07" 50°56'58"	15	1.0	UCAC4 357-54371	12.68	9 ^h 17 ^m 19.829 ^s -18°47'41.686"	12.5	141	139.5	-52.6	118.6	10.0	38.4	395
2018/01/23 20:50:12	56996 2000 SP307	8.3	17.69	4.51	181	0.7	36°08'59" 51°40'26"	357	1.1	UCAC4 562-43539	13.20	7 ^h 52 ^m 09.392 ^s 22°19'33.152"	62.1	168	172.1	-57.5	95.5	1.8	38.8	162
2018/01/23 22:01:37	2610 Tuva	6.9	15.80	4.62	60	0.6	36°30'16" 50°33'53"	15	2.8	UCAC4 542-45224	11.19	8 ^h 20 ^m 05.267 ^s 18°20'03.247"	58.3	189	178.7	-59.3	101.8	-8.9	39.3	67
2018/01/23 22:44:52	1352 Wawel	24.0	15.07	2.10	3	2.5	36°16'29" 50°04'33"	345	9.7	UCAC4 537-34156	13.13	6 ^h 50 ^m 17.466 ^s 17°19'34.134"	45.4	237	157.7	-57.3	80.1	-15.1	39.6	99
2018/01/24 00:14:07	26093 1987 UA1	5.8	18.13	4.55	147	0.9	37°06'13" 48°50'08"	157	0.8	UCAC4 401-50834	13.60	10 ^h 49 ^m 46.536 ^s -9°58'08.545"	30.1	181	133.7	-47.6	139.9	-26.2	40.3	101
2018/01/24 00:22:09	193449 2000 WW146	6.0	19.19	5.74	232	0.5	38°59'59" 51°13'06"	56	0.6	UCAC4 561-50997	13.45	10 ^h 57 ^m 12.770 ^s 22°07'36.733"	62.3	182	144.2	-46.5	134.3	-27.1	40.3	178
2018/01/24 01:41:41	7448 Pollath	6.6	16.59	3.00	178	0.5	36°39'16" 51°37'46"	8	0.3	UCAC4 499-30513	13.67	6 ^h 43 ^m 00.956 ^s 9°46'42.382"	11.2	272	153.8	-34.5	76.9	-33.5	41.0	85
2018/01/24 15:55:02	5608 Olmos	7.9	17.16	5.27	128	0.7	37°06'24" 49°01'50"	153	1.4	UCAC4 586-36513	11.89	7 ^h 00 ^m 02.853 ^s 27°10'53.257"	35.6	89	158.5	-16.0	72.9	46.6	47.2	103
2018/01/24 21:32:31	14128 1998 QX92	7.2	16.84	5.91	248	0.7	37°57'36" 52°00'51"	29	0.1	UCAC4 487-41944	10.94	7 ^h 43 ^m 13.465 ^s 7°12'51.645"	46.9	191	163.9	-59.1	81.2	6.2	49.8	98
2018/01/24 22:06:13	3474 Linsley	9.1	17.68	3.85	48	0.9	35°56'02" 49°41'08"	212	2.7	UCAC4 529-19257	13.87	5 ^h 55 ^m 21.709 ^s 15°41'35.485"	41.3	241	143.5	-59.0	54.0	1.1	50.0	124
2018/01/24 22:45:48	25575 1999 XD206	6.3	17.40	3.81	196	0.5	36°41'49" 51°47'36"	9	0.4	UCAC4 604-43174	13.62	8 ^h 09 ^m 42.403 ^s 30°44'28.776"	66.0	224	167.6	-57.0	84.1	-4.8	50.3	104
2018/01/24 23:22:26	19845 2000 SY319	8.7	17.81	4.36	169	3.1	36°10'55" 48°31'55"	183	1.2	UCAC4 621-17939	13.47	4 ^h 41 ^m 00.800 ^s 34°08'11.756"	31.0	288	127.7	-53.7	41.4	-10.0	50.8	146
2018/01/25 00:03:20	6868 Seiyauyeda	9.1	17.24	6.32	171	0.5	37°23'20" 51°25'11"	27	0.9	UCAC4 409-56948	10.93	13 ^h 58 ^m 31.344 ^s -8°21'14.310"	18.3	129	94.2	-48.9	174.6	-15.4	50.9	106
2018/01/25 00:10:24	430 Hybris	33.3	14.14	5.15	254	6.2	36°06'43" 47°46'22"	183	0.1	UCAC4 487-23350	9.00	6 ^h 28 ^m 00.645 ^s 7°19'13.610"	20.9	256	148.5	-47.9	61.1	-16.3	51.1	78
2018/01/25 01:00:29	34115 2000 PV26	5.8	18.38	5.61	240	0.5	35°04'15" 48°02'25"	201	0.3	UCAC4 580-24820	12.78	6 ^h 13 ^m 41.353 ^s 25°51'13.027"	24.3	282	148.2	-40.7	57.3	-22.0	51.4	122
2018/01/25 04:49:10	3274 Maillen	9.5	17.54	5.00	9	0.7	36°24'48" 50°02'33"	93	3.0	UCAC4 539-47581	12.55	9 ^h 14 ^m 06.468 ^s 17°47'09.073"	10.7	285	169.3	-4.8	97.3	-29.3	53.1	128

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.		Table 1		Page 18		LinOccult 2.3.0				
		Asteroid			Nearest point			Star			Sun			Moon						
Date Time (UTC)	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Dist	Alt	Phase (%)	σ_{km}
2018/01/25 04:52:20	32414 2000 RT29	7.6	17.99	4.22	91	1.1	36°13'26'' 50°52'05''	357	1.9	UCAC4 425-54244	13.79	10 ^h 44 ^m 59.474 ^s −5°06'39.945''	7.1	253	138.7	-4.3	123.8	-29.2	53.2	118
2018/01/25 15:57:47	16115 1999 XH25	7.9	16.89	3.80	183	0.7	36°58'52'' 48°28'01''	164	0.8	UCAC4 553-42789	13.12	8 ^h 06 ^m 58.473 ^s 20°31'37.765''	21.2	83	174.1	-16.2	75.0	51.2	58.1	114
2018/01/25 17:43:38	8732 Cham-pion	5.5	16.76	4.11	104	0.7	36°22'06'' 50°58'45''	3	1.1	UCAC4 550-35483	12.68	6 ^h 55 ^m 40.087 ^s 19°48'14.414''	48.2	123	157.5	-33.1	57.3	47.4	58.9	76
2018/01/25 17:50:23	8492 Kiknoka	6.6	17.19	3.63	246	0.8	39°31'56'' 49°20'53''	109	0.1	UCAC4 623-25665	13.60	5 ^h 35 ^m 45.832 ^s 34°26'21.694''	71.1	139	138.2	-34.2	42.3	46.8	59.1	101
2018/01/25 18:23:37	26581 2000 EP107	6.9	17.74	4.08	166	0.6	35°30'36'' 51°27'28''	341	0.9	UCAC4 623-40090	13.68	7 ^h 19 ^m 40.508 ^s 34°35'24.575''	61.8	111	157.6	-39.4	62.8	43.6	59.3	120
2018/01/25 19:30:03	20862 Jenn-goedhart	5.2	15.90	6.75	240	0.7	35°59'09'' 47°54'16''	185	0.0	UCAC4 497-50126	9.15	8 ^h 20 ^m 07.625 ^s 9°18'15.310''	41.9	137	170.1	-48.8	77.7	35.3	59.8	58
2018/01/25 20:30:44	17870 1998 QU92	5.8	16.98	4.05	94	0.5	36°30'16'' 50°52'33''	10	1.5	UCAC4 598-43196	12.95	7 ^h 57 ^m 13.103 ^s 29°29'03.973''	68.3	156	166.7	-55.5	69.4	26.6	60.2	86
2018/01/25 23:16:20	7106 Kon-dakov	10.5	17.43	4.88	59	0.9	36°42'40'' 50°30'02''	31	3.1	UCAC4 499-54656	12.56	10 ^h 18 ^m 23.313 ^s 9°43'08.837''	49.8	174	152.8	-54.1	103.9	1.5	61.5	122
2018/01/25 23:28:30	73 Klytia	44.4	12.49	2.38	194	4.2	37°24'48'' 51°38'33''	24	1.8	UCAC4 577-39760	10.24	7 ^h 35 ^m 22.497 ^s 25°13'35.437''	50.8	246	165.3	-52.9	63.0	-0.3	61.6	87
2018/01/25 23:50:14	11556 1993 DV	5.5	16.53	3.19	245	0.9	35°06'25'' 47°59'28''	200	0.0	UCAC4 552-35519	13.40	7 ^h 02 ^m 23.699 ^s 20°15'26.328''	38.7	255	158.8	-50.3	55.2	-3.4	61.8	78
2018/01/26 00:53:20	50246 2000 BT14	7.2	18.06	5.43	184	0.9	35°17'16'' 48°31'41''	203	0.7	UCAC4 441-56244	12.64	13 ^h 10 ^m 10.194 ^s −1°58'07.250''	34.6	152	108.8	-41.7	147.1	-11.7	62.3	115
2018/01/26 01:02:34	86306 1999 VQ67	6.3	18.56	6.39	195	0.5	38°15'15'' 51°16'21''	46	0.8	UCAC4 630-39228	12.18	7 ^h 12 ^m 14.897 ^s 35°55'17.809''	39.4	282	155.3	-40.3	57.7	-12.8	62.4	161
2018/01/26 01:11:05	16479 Paulze	6.6	17.34	4.32	105	0.5	37°25'51'' 50°38'38''	51	1.5	UCAC4 506-46303	13.04	8 ^h 13 ^m 40.516 ^s 11°05'27.152''	30.1	250	171.1	-39.0	72.5	-13.8	62.4	111
2018/01/26 01:17:42	21585 Polmear	6.6	17.96	5.67	81	0.6	37°08'22'' 50°31'41''	49	1.8	UCAC4 612-37128	12.29	6 ^h 59 ^m 53.436 ^s 32°21'16.395''	32.8	283	155.1	-38.0	54.5	-14.6	62.5	120
2018/01/26 16:19:29	18059 Cava-lieri	11.0	16.10	2.65	204	0.9	35°25'31'' 51°47'49''	342	0.5	UCAC4 514-49332	13.55	9 ^h 10 ^m 15.398 ^s 12°38'52.440''	9.4	81	169.7	-19.4	77.0	54.0	69.2	95
2018/01/26 17:01:48	100377 1995 VH	5.2	17.93	4.48	169	0.6	36°50'17'' 48°34'37''	166	0.7	UCAC4 504-35007	13.47	7 ^h 00 ^m 09.266 ^s 10°36'37.523''	34.8	118	155.7	-26.2	45.7	55.1	69.5	123
2018/01/26 17:45:19	191 Kolga	101.0	13.34	0.63	234	9.1	37°22'10'' 52°02'08''	19	3.1	UCAC4 501-36396	13.60	7 ^h 00 ^m 19.477 ^s 10°05'32.766''	40.1	130	155.5	-33.2	45.5	54.3	69.8	100
2018/01/26 19:44:21	11652 John-brownlee	10.0	17.81	4.94	37	1.1	36°11'18'' 49°43'22''	191	2.8	UCAC4 568-22448	12.89	6 ^h 02 ^m 07.843 ^s 23°27'06.572''	63.0	196	143.9	-50.4	29.9	43.6	70.7	139
2018/01/26 21:05:40	2597 Arthur	13.8	16.84	5.06	69	0.8	36°33'07'' 50°38'42''	16	3.7	UCAC4 521-4351	11.79	2 ^h 34 ^m 59.473 ^s 14°06'15.615''	17.1	272	94.2	-57.7	21.2	32.2	71.2	127
2018/01/26 21:52:02	420253 2011 JV9	9.1	20.24	7.03	105	0.5	36°03'01'' 50°58'59''	351	0.7	UCAC4 375-57807	13.21	9 ^h 38 ^m 03.633 ^s −15°01'50.790''	23.9	165	143.0	-58.7	87.8	25.2	71.6	485

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.				Table 1		Page 19		LinOccult 2.3.0			
		Asteroid			Nearest point			Star				Sun		Moon							
Date Time (UTC)	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Dist	Alt	Phase (%)	σ_{km}	
2018/01/26 23:19:30	4218 Demot-toni	5.8	17.54	4.76	23	0.7	36°24'20'' 50°14'06''	22	2.6	UCAC4 530-24215	12.80	6 ^h 14 ^m 18.097 ^s 15°59'38.278''	32.2	256	146.0	-53.6	30.2	11.9	72.3	86	
2018/01/26 23:20:27	41080 1999 VX45	7.6	18.14	6.14	227	0.6	35°51'06'' 48°01'29''	188	0.6	UCAC4 410-44976	12.01	8 ^h 28 ^m 54.858 ^s −8°08'10.683''	27.9	209	153.2	-53.5	68.8	11.7	72.3	142	
2018/01/27 03:13:24	437 Rhodia	13.1	14.50	1.78	256	0.9	35°11'31'' 47°51'32''	198	0.4	UCAC4 521-43621	12.96	7 ^h 50 ^m 50.502 ^s 14°10'17.207''	8.7	282	168.1	-19.3	51.2	-17.5	74.0	120	
2018/01/27 03:27:41	52654 1998 AK5	6.3	18.41	4.76	239	0.6	38°50'49'' 51°27'44''	49	0.4	UCAC4 605-35208	13.67	6 ^h 40 ^m 40.911 ^s 30°48'09.678''	9.4	308	150.9	-17.1	35.4	-18.7	74.1	134	
2018/01/27 04:16:20	1070 Tunica	36.4	16.83	3.91	112	0.8	36°00'03'' 49°03'18''	190	5.7	UCAC4 400-83729	12.95	18 ^h 37 ^m 28.544 ^s −10°09'09.344''	14.5	126	30.1	-9.4	146.1	-21.7	74.4	224	
2018/01/27 05:01:17	752 Sulamitis	62.8	15.76	2.15	125	1.6	37°24'52'' 50°54'25''	40	11.3	UCAC4 340-104358	13.77	17 ^h 39 ^m 04.628 ^s −22°08'45.274''	14.1	155	41.8	-2.7	161.0	-23.3	74.7	169	
2018/01/27 15:39:29	42724 1998 QJ76	7.2	18.09	5.62	31	0.6	36°24'22'' 49°46'42''	164	2.2	UCAC4 493-37715	12.48	7 ^h 01 ^m 31.655 ^s 8°33'07.007''	21.1	102	154.3	-12.9	33.6	47.8	79.0	127	
2018/01/27 16:39:07	8813 Leviathan	13.6	16.84	5.41	90	1.7	35°52'09'' 49°17'16''	199	3.2	UCAC4 579-18395	11.44	5 ^h 48 ^m 05.916 ^s 25°37'06.810''	54.4	120	139.8	-22.3	15.4	54.2	79.4	137	
2018/01/27 18:25:38	55004 2001 QT22	5.2	18.08	4.97	170	0.5	36°14'32'' 48°31'16''	181	0.7	UCAC4 563-40565	13.12	7 ^h 22 ^m 19.768 ^s 22°34'51.053''	53.6	127	161.4	-39.2	34.7	57.8	80.1	134	
2018/01/27 18:34:19	23705 1997 SQ14	5.2	18.25	4.38	43	0.5	36°19'09'' 49°39'46''	177	1.8	UCAC4 530-30543	13.89	6 ^h 38 ^m 21.788 ^s 15°55'34.337''	53.2	151	150.9	-40.5	24.6	57.5	80.2	106	
2018/01/27 18:35:23	175 Andromache	100.9	13.56	2.69	133	6.3	36°26'08'' 48°51'38''	175	18.3	UCAC4 560-47135	10.96	8 ^h 52 ^m 23.511 ^s 21°53'25.164''	41.5	106	175.4	-40.7	55.4	57.5	80.2	141	
2018/01/27 19:01:45	53085 1998 XV93	6.9	17.00	4.38	28	0.9	36°12'55'' 49°48'17''	191	2.9	UCAC4 473-19928	12.63	6 ^h 28 ^m 18.886 ^s 4°35'57.273''	44.2	168	145.1	-44.5	26.0	56.1	80.4	92	
2018/01/27 20:20:58	4166 Pontryagin	9.5	16.36	3.28	161	1.0	36°06'37'' 48°36'33''	184	0.8	UCAC4 508-51819	13.14	9 ^h 59 ^m 57.610 ^s 11°24'54.720''	38.7	124	159.5	-54.1	72.3	48.5	80.9	87	
2018/01/27 21:09:28	55919 1998 FA39	5.2	18.57	5.46	176	0.9	37°21'19'' 48°37'49''	154	0.7	UCAC4 627-24393	13.11	5 ^h 28 ^m 08.327 ^s 35°16'39.284''	58.5	257	134.4	-57.6	18.0	42.2	81.3	146	
2018/01/27 21:26:42	138522 2000 NW19	6.3	18.02	7.61	69	0.6	35°19'22'' 49°59'26''	265	1.6	UCAC4 614-11217	10.41	3 ^h 55 ^m 02.142 ^s 32°45'42.138''	39.2	277	115.2	-58.2	21.1	39.7	81.3	142	
2018/01/27 21:43:26	37175 2000 WJ40	6.3	18.62	5.03	69	1.2	37°12'12'' 50°15'19''	71	1.5	UCAC4 534-12337	13.60	5 ^h 13 ^m 30.447 ^s 16°41'13.703''	37.6	249	130.8	-58.5	2.8	37.3	81.4	152	
2018/01/27 21:54:18	9743 Tohru	6.0	17.00	4.39	237	0.7	37°49'18'' 51°56'36''	27	0.0	UCAC4 536-51154	12.63	10 ^h 10 ^m 32.094 ^s 17°09'12.779''	53.4	146	158.5	-58.5	72.3	35.7	81.5	81	
2018/01/28 00:16:47	50684 2000 ER111	8.3	17.46	5.59	240	0.8	34°20'23'' 48°18'28''	216	0.3	UCAC4 623-46907	11.87	10 ^h 56 ^m 41.319 ^s 34°29'09.714''	74.5	191	145.7	-46.5	76.9	14.0	82.4	112	
2018/01/28 14:47:58	2542 Calpurnia	27.6	16.61	4.15	176	3.8	35°56'15'' 51°36'52''	352	3.4	UCAC4 545-20617	12.48	5 ^h 53 ^m 59.099 ^s 18°57'41.077''	32.1	99	140.0	-4.7	1.6	33.4	87.5	130	
2018/01/28 18:10:22	11951 1994 AJ3	8.7	18.21	5.82	224	1.0	36°40'57'' 52°02'40''	7	0.9	UCAC4 542-27734	12.40	6 ^h 28 ^m 47.750 ^s 18°21'00.262''	54.6	145	148.0	-36.7	7.7	58.2	88.7	175	

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.		Table 1		Page 20		LinOccult 2.3.0				
Date Time (UTC)	Asteroid			Nearest point			Star			Sun			Moon							
	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Dist	Alt	Phase (%)	σ_{km}
2018/01/28 18:17:44	30078 EB104	5.5	19.60	7.40	235	0.6	35°47'23" 52°07'57"	351	0.5 1.3	UCAC4 498-4770	12.20	3 ^h 07 ^m 13.347 ^s 9°25'34.680"	41.7	224	98.4	-37.8	42.2	58.6	88.7	164
2018/01/28 20:17:31	777 Gutem- berga	65.6	14.46	1.30	244	6.0	36°57'12" 47°53'50"	169	2.8 21.7	UCAC4 555-33529	13.55	6 ^h 47 ^m 57.883 ^s 20°55'59.559"	60.7	193	152.5	-53.5	10.7	56.6	89.4	119
2018/01/28 20:19:57	10569 Ki- noshitamasao	8.3	17.19	3.38	55	1.0	36°15'09" 50°32'40"	357	2.6 2.9	UCAC4 660-46505	13.86	6 ^h 49 ^m 17.653 ^s 41°56'04.326"	80.8	214	145.8	-53.8	24.4	56.4	89.4	115
2018/01/28 20:46:46	45025 WY7	5.8	16.57	2.78	78	0.6	36°32'45" 49°21'45"	166	1.7 2.5	UCAC4 476-43094	13.88	8 ^h 25 ^m 29.374 ^s 5°01'26.158"	44.3	166	166.2	-56.0	37.5	53.9	89.5	91
2018/01/28 21:19:47	9542 Eryan	7.2	16.98	5.05	177	0.9	36°45'58" 51°36'38"	11	0.5 3.2	UCAC4 623-38033	11.94	6 ^h 57 ^m 30.089 ^s 34°34'29.422"	68.9	231	151.0	-57.8	18.8	50.1	89.7	91
2018/01/28 21:31:50	22163 WF125	5.5	18.45	7.15	119	0.6	35°37'04" 49°04'30"	204	1.1 1.9	UCAC4 438-53302	11.30	10 ^h 35 ^m 28.987 ^s −2°33'47.415"	31.0	143	145.7	-58.1	69.9	48.6	89.7	115
2018/01/28 21:52:47	41945 XY5	5.0	18.14	4.36	142	1.1	37°57'36" 49°22'48"	122	0.8 1.8	UCAC4 614-15300	13.80	4 ^h 36 ^m 26.867 ^s 32°45'13.033"	41.0	275	122.9	-58.2	24.0	45.8	89.9	114
2018/01/28 23:30:19	62456 SL210	5.0	18.91	5.08	57	0.8	35°52'08" 49°36'25"	211	1.1 1.2	UCAC4 617-28878	13.84	5 ^h 51 ^m 03.099 ^s 33°19'52.826"	37.7	279	138.3	-52.1	14.3	31.5	90.4	166
2018/01/29 01:34:33	67108 AB100	6.0	17.28	4.33	189	0.8	33°40'10" 49°51'09"	263	0.3 2.8	UCAC4 573-49124	12.97	11 ^h 48 ^m 17.735 ^s 24°33'34.993"	63.3	203	137.0	-34.9	75.8	12.5	90.9	87
2018/01/29 03:43:50	17278 Viggh	5.2	17.76	4.58	69	1.2	35°22'22" 50°15'03"	289	1.8 2.5	UCAC4 414-54181	13.19	12 ^h 13 ^m 51.189 ^s −7°13'30.510"	24.4	221	122.7	-14.2	90.4	-5.0	91.6	83
2018/01/29 04:11:05	19588 NL11	5.8	17.76	4.11	108	0.5	36°50'52" 50°56'58"	22	1.3 2.1	UCAC4 549-43160	13.68	7 ^h 59 ^m 30.203 ^s 19°40'49.434"	4.3	296	169.0	-9.9	22.6	-8.1	91.7	110
2018/01/29 04:42:22	50047 AA62	6.6	18.26	5.00	16	0.7	36°25'27" 49°55'52"	143	2.3 2.3	UCAC4 491-58983	13.27	13 ^h 17 ^m 05.221 ^s 8°06'32.003"	38.6	228	113.5	-5.1	99.4	-11.3	91.8	114
2018/01/29 16:55:12	17517 WZ3	5.2	17.28	6.48	133	0.9	36°47'27" 51°12'11"	16	0.9 2.1	UCAC4 471-20584	10.80	6 ^h 40 ^m 13.677 ^s 4°09'40.278"	32.7	129	145.9	-24.5	16.4	43.4	94.9	101
2018/01/29 17:31:20	2430 Bruce Helin	14.5	15.96	3.36	65	1.3	36°08'14" 50°37'28"	351	4.5 5.5	UCAC4 625-9751	12.65	3 ^h 02 ^m 25.487 ^s 34°51'25.914"	67.9	236	103.0	-30.3	53.7	48.4	95.0	104
2018/01/29 17:59:55	34270 QW131	9.5	18.01	4.34	221	0.6	36°36'36" 48°04'41"	174	0.8 2.7	UCAC4 549-4040	13.69	2 ^h 07 ^m 41.490 ^s 19°39'17.127"	44.4	244	87.0	-34.8	68.1	51.9	95.1	140
2018/01/29 20:27:20	44300 QC95	6.9	16.44	2.89	248	0.6	37°10'23" 47°53'46"	165	0.0 3.3	UCAC4 553-42686	13.62	8 ^h 05 ^m 39.904 ^s 20°27'38.042"	59.8	163	169.6	-54.2	13.8	59.8	95.7	84
2018/01/29 20:42:14	24751 Kroe- mer	5.5	17.83	8.31	246	0.5	36°10'38" 47°50'23"	182	0.2 2.0	UCAC4 548-41535	9.52	7 ^h 34 ^m 10.796 ^s 19°25'00.026"	59.6	184	162.4	-55.4	6.3	59.2	95.7	112
2018/01/29 21:32:57	2807 Karl Marx	9.5	17.31	4.29	221	1.0	37°32'51" 51°52'09"	24	0.4 3.5	UCAC4 422-57606	13.04	13 ^h 38 ^m 03.683 ^s −5°38'11.487"	4.6	104	104.9	-57.8	98.5	55.7	95.9	109
2018/01/29 23:10:19	20811 ST266	6.0	16.86	3.09	41	0.6	36°44'56" 50°15'59"	54	2.6 2.9	UCAC4 561-50351	13.84	10 ^h 26 ^m 03.260 ^s 22°00'09.103"	62.1	173	156.8	-53.9	44.7	43.8	96.2	83
2018/01/29 23:48:09	35105 RP23	6.6	18.27	6.23	7	1.0	36°18'35" 49°58'55"	167	2.0 2.0	UCAC4 666-33840	12.04	5 ^h 08 ^m 44.551 ^s 43°09'46.863"	34.2	298	127.4	-49.8	35.5	38.3	96.4	131

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 21		LinOccult 2.3.0			
Date Time (UTC)	Asteroid				Nearest point			Star				Sun		Moon						
	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Dist	Alt	Phase (%)	σ_{km}
2018/01/30 02:16:05	11680 DT11	5.2	18.02	5.68	45	0.7	36°46'40" 50°18'19"	51	1.8 2.0	UCAC4 541-23740	12.34	6 ^h 13 ^m 38.260 ^s 18°09'56.071"	3.9	294	143.0	-28.1	16.3	15.6	96.8	106
2018/01/30 02:30:30	Ortelius	5.0	17.21	3.71	174	0.7	37°35'05" 51°22'40"	32	0.3 2.4	UCAC4 573-36164	13.53	6 ^h 56 ^m 50.915 ^s 24°32'50.796"	13.1	293	152.9	-25.8	7.8	13.5	96.9	82
2018/01/30 02:57:45	98703 XE33	5.0	18.17	5.89	229	0.6	37°47'45" 48°14'40"	152	0.3 1.6	UCAC4 430-53066	12.29	11 ^h 00 ^m 49.320 ^s −4°10'45.273"	23.6	230	140.9	-21.4	58.2	9.4	96.9	122
2018/01/30 16:09:01	4375 Kiyomori	7.9	16.33	3.17	119	1.0	36°22'38" 48°58'38"	177	1.3 4.0	UCAC4 545-33458	13.23	6 ^h 46 ^m 04.086 ^s 18°58'52.152"	38.0	107	150.2	-16.8	17.2	26.3	98.8	80
2018/01/30 20:56:01	86429 Bj29	6.6	18.43	6.08	64	0.6	35°57'17" 50°34'47"	338	1.6 1.7	UCAC4 619-37424	12.35	6 ^h 55 ^m 03.304 ^s 33°42'00.646"	69.8	223	149.1	-56.1	22.8	58.8	99.3	153
2018/01/30 21:20:22	6300 Hosamu	8.3	17.55	7.35	53	1.5	36°04'46" 49°35'18"	196	2.4 2.6	UCAC4 575-24865	10.20	6 ^h 09 ^m 50.177 ^s 24°55'48.652"	53.9	239	141.5	-57.2	29.3	58.7	99.3	125
2018/01/30 22:07:46	2437 Amnestia	8.7	15.81	2.10	48	1.0	36°29'60" 50°27'31"	18	3.9 4.9	UCAC4 533-42269	13.88	7 ^h 33 ^m 33.395 ^s 16°34'43.020"	51.2	220	161.1	-57.4	10.1	56.6	99.4	71
2018/01/30 23:43:41	6368 Richardmendez	6.6	15.30	5.28	36	0.8	36°17'41" 50°22'03"	1	3.8 4.6	UCAC4 533-49141	10.03	9 ^h 17 ^m 04.088 ^s 16°31'13.561"	51.9	217	174.2	-50.1	13.9	46.6	99.5	57
2018/01/31 00:56:26	94107 YW82	5.2	18.66	4.79	75	1.2	36°00'23" 49°23'43"	195	1.2 1.4	UCAC4 517-13937	13.88	5 ^h 39 ^m 02.310 ^s 13°14'26.598"	6.4	283	133.1	-40.3	39.7	36.3	99.6	155
2018/01/31 02:14:56	2005 Hencke	12.0	17.40	5.82	67	1.6	35°20'58" 50°01'59"	269	2.6 2.8	UCAC4 348-67722	11.58	12 ^h 50 ^m 38.661 ^s −20°31'23.887"	19.2	188	110.5	-28.1	75.5	24.2	99.7	172
2018/01/31 14:44:20	6386 Keithnoll	10.0	15.05	3.33	138	1.1	35°30'25" 51°11'11"	336	1.2 4.8	UCAC4 559-44356	11.78	8 ^h 02 ^m 49.362 ^s 21°43'44.102"	14.9	74	166.8	-3.5	13.8	2.8	100.0	84
2018/01/31 17:08:14	38809 RT69	5.5	18.60	5.09	14	0.6	36°23'52" 50°09'10"	34	1.6 1.6	UCAC4 501-30657	13.52	6 ^h 43 ^m 19.269 ^s 10°04'17.529"	40.1	130	147.0	-26.1	34.8	24.3	100.0	133
2018/01/31 17:33:27	50546 ED18	5.0	18.58	6.42	176	0.5	35°20'18" 48°35'21"	203	0.6 1.4	UCAC4 555-29453	12.17	6 ^h 32 ^m 32.926 ^s 20°48'37.323"	53.7	133	146.0	-30.2	36.3	28.1	100.0	140
2018/01/31 20:55:10	7283 TX15	5.0	16.77	2.91	143	0.7	36°15'52" 48°45'33"	181	0.4 2.8	UCAC4 610-40874	13.94	7 ^h 32 ^m 52.469 ^s 31°49'17.529"	71.1	201	156.1	-55.8	27.9	53.5	99.9	71
2018/01/31 21:40:40	2095 Parsifal	9.5	16.09	3.24	113	0.8	36°41'12" 51°01'42"	15	1.9 4.2	UCAC4 546-47461	12.91	9 ^h 00 ^m 47.686 ^s 19°03'05.706"	59.2	175	177.9	-57.4	4.7	55.8	99.8	90
2018/01/31 21:54:31	4247 Grahamsmith	6.9	17.97	4.36	97	0.7	36°01'57" 49°11'32"	191	1.7 2.3	UCAC4 544-8058	13.63	3 ^h 58 ^m 48.177 ^s 18°45'50.562"	23.0	272	109.7	-57.4	75.1	56.1	99.8	119

