

Occultations table

Observation point: VladimirNebotov
EMail: nebotov@ukr.net
Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')
Maximal Distance = 250.0
Maximal Mv = 14.00
Minimal Duration = 0.5s
Maximal Sun Elevation = 0.0
Minimal drop: 0.5
Minimal probability: 0.0
Minimal probability in nearest point: 0.5
Minimal star elevation: 0.0
Program: LinOccult 2.3.0
Author: Plekhanov Andrey andyplekhanov@gmail.com
Events number: 243

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')

Sorted by date/time.

Table 1

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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}
2017/07/01 00:36:29	162396 CV120	8.7	19.90	6.39	154	0.5	37°31'10" 48°55'03"	145	0.9	UCAC4 339-172668	13.51	18 ^h 57 ^m 16.222 ^s -22°16'33.856"	9.4	217	175.9	-7.0	94.1	-27.3	50.0	332
2017/07/01 00:44:54	1197 Rhodesia	47.4	16.20	5.65	69	1.2	36°27'12" 49°26'19"	170	9.0	UCAC4 574-10791	10.55	4 ^h 21 ^m 32.475 ^s 24°46'37.450"	13.5	67	31.6	-6.1	121.0	-28.4	50.1	196
2017/07/01 17:51:05	30311 JS10	5.0	16.81	4.28	226	0.5	38°02'02" 51°44'51"	33	0.0	UCAC4 409-69294	12.55	17 ^h 21 ^m 00.124 ^s -8°21'47.257"	23.8	140	155.5	-1.5	62.0	32.4	57.1	70
2017/07/01 20:22:36	19559 JY80	5.8	16.98	3.24	100	0.6	37°08'25" 49°20'34"	142	1.4	UCAC4 402-94782	13.79	18 ^h 54 ^m 29.197 ^s -9°47'47.960"	27.4	156	166.5	-15.2	83.7	14.3	58.2	96
2017/07/01 21:04:32	8209 Toscanelli	6.9	15.88	2.82	106	0.9	34°51'23" 50°18'09"	286	1.6	UCAC4 296-170746	13.15	18 ^h 12 ^m 30.649 ^s -30°52'40.703"	9.2	179	169.5	-16.7	73.8	8.0	58.5	98
2017/07/01 22:55:04	41342 YC23	10.5	20.10	6.93	102	0.7	36°50'02" 49°11'55"	158	1.1	UCAC4 343-90818	13.17	17 ^h 05 ^m 05.276 ^s -21°32'51.371"	8.6	221	157.2	-15.1	56.7	-9.3	59.3	367
2017/07/01 23:45:59	858 El Djézair	23.5	16.36	2.99	13	0.6	36°06'22" 50°02'16"	265	4.3	UCAC4 556-9852	13.44	4 ^h 32 ^m 54.732 ^s 21°03'46.943"	1.1	58	30.3	-11.7	131.2	-17.3	59.6	215
2017/07/02 01:28:57	31644 GY41	5.0	17.64	5.29	207	2.0	33°24'11" 50°13'54"	276	0.1	UCAC4 388-145740	12.36	21 ^h 58 ^m 40.529 ^s -12°28'50.833"	27.1	190	132.8	-1.0	125.1	-32.0	60.5	77
2017/07/02 18:49:27	28709 GY96	6.3	17.33	3.81	8	0.7	36°23'37" 50°01'00"	114	2.0	UCAC4 321-134092	13.56	18 ^h 07 ^m 26.273 ^s -25°50'56.253"	9.0	151	170.5	-8.1	61.4	27.4	67.0	124
2017/07/02 19:34:00	23598 WL13	5.2	17.99	5.61	82	0.7	36°03'45" 50°46'05"	349	1.5	UCAC4 367-74221	12.38	16 ^h 33 ^m 07.940 ^s -16°43'20.319"	23.3	183	147.9	-12.1	37.9	22.9	67.3	97
2017/07/02 19:42:48	49460 AT4	6.9	17.75	3.84	247	0.6	37°57'31" 48°07'13"	151	0.3	UCAC4 351-108581	13.94	17 ^h 42 ^m 41.572 ^s -19°48'17.016"	19.4	167	164.7	-12.8	54.6	21.9	67.4	126
2017/07/02 19:44:03	60764 GV122	5.8	16.93	5.26	24	1.3	36°18'41" 49°49'56"	176	2.4	UCAC4 449-128414	11.68	20 ^h 43 ^m 57.977 ^s 0° - 16°27.235"	20.0	116	143.7	-12.9	100.3	21.8	67.3	92
2017/07/02 20:38:43	9549 Platonov	10.0	17.28	3.77	196	0.5	34°16'19" 51°15'33"	313	0.7	UCAC4 410-55376	13.55	12 ^h 34 ^m 12.293 ^s -8°02'40.905"	1.1	256	90.1	-16.0	22.3	14.9	67.7	109
2017/07/02 21:06:55	8214 Mirelalilli	7.9	16.44	3.66	209	0.8	34°33'35" 48°32'49"	216	0.3	UCAC4 384-96677	12.82	18 ^h 06 ^m 56.878 ^s -13°20'44.314"	26.7	183	166.4	-16.8	59.6	11.0	67.9	99
2017/07/03 00:02:29	29963 JH100	6.9	18.36	4.70	113	0.6	36°15'40" 49°02'01"	181	1.4	UCAC4 493-109267	13.68	19 ^h 27 ^m 18.047 ^s 8°29'11.325"	43.2	217	147.1	-10.4	80.5	-16.1	69.0	138
2017/07/03 00:09:36	434 Hungaria	19.0	13.48	0.82	8	2.9	36°16'05" 50°07'13"	351	15.6	UCAC4 561-73123	13.35	18 ^h 35 ^m 30.051 ^s 22°10'48.462"	47.7	244	134.7	-9.8	71.4	-17.2	69.1	48
2017/07/03 00:54:24	14494 YJ2	7.9	16.36	2.83	174	0.7	34°30'07" 51°07'42"	313	0.7	UCAC4 318-227725	13.62	19 ^h 21 ^m 20.259 ^s -26°29'58.513"	5.4	216	171.7	-5.2	74.8	-24.1	69.4	101
2017/07/03 01:35:50	3830 Trelleborg	15.8	15.30	2.79	78	1.4	35°32'29" 50°33'49"	317	4.6	UCAC4 365-149654	12.60	18 ^h 42 ^m 54.428 ^s -17°06'26.793"	4.3	237	174.1	-0.2	65.9	-30.3	69.6	105
2017/07/03 18:52:50	4942 Munroe	6.6	15.13	1.99	111	1.1	37°18'37" 50°48'15"	41	0.8	UCAC4 332-129077	13.33	18 ^h 04 ^m 18.765 ^s -23°38'10.717"	11.9	152	169.2	-8.5	48.5	26.9	75.7	60
2017/07/03 20:06:02	28040 FF80	5.2	18.28	4.78	20	0.5	36°11'11" 50°12'50"	339	1.5	UCAC4 352-179444	13.52	20 ^h 06 ^m 21.075 ^s -19°47'10.538"	11.1	140	162.3	-14.4	76.2	20.9	76.1	137

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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}
2017/07/03 21:05:47	13593 NF1	5.2	16.18	3.94	48	1.0	36°51'30" 49°49'16"	122	2.5 3.3	UCAC4 352-82895	12.27	16 ^h 56 ^m 40.841 ^s −19°41′45.424″	18.0	200	153.1	-16.9	31.1	14.0	76.5	63
2017/07/03 21:09:03	5766 QR3	5.8	16.41	2.73	143	1.0	36°55'14" 48°49'58"	161	0.6 2.9	UCAC4 297-112233	13.77	17 ^h 09 ^m 01.314 ^s −30°40′02.134″	7.8	196	155.9	-16.9	37.3	13.6	76.5	79
2017/07/03 22:12:34	55546 XQ48	5.8	16.85	7.65	201	0.8	34°16'14" 48°48'40"	226	0.1 3.0	UCAC4 409-133013	9.20	20 ^h 45 ^m 14.158 ^s −8°13′19.886″	29.4	157	149.1	-16.8	86.4	4.9	76.8	78
2017/07/03 22:27:40	8629 Chuck- lorre	5.8	18.63	4.95	37	0.7	36°03'30" 50°20'34"	334	1.7 1.8	UCAC4 445-136570	13.69	23 ^h 19 ^m 31.677 ^s −1°04′07.335″	21.1	119	111.6	-16.4	125.2	2.7	77.0	129
2017/07/03 22:53:16	77871 SC9	6.3	18.75	7.00	200	0.6	35°16'53" 48°22'44"	201	0.7 1.7	UCAC4 376-178	11.75	0 ^h 08 ^m 57.435 ^s −14°50′04.835″	6.4	122	105.4	-15.4	131.1	-1.1	77.1	144
2017/07/04 00:10:32	31498 CX61	7.2	15.64	2.18	147	1.2	34°22'31" 49°33'51"	249	0.3 4.5	UCAC4 401-126037	13.62	20 ^h 47 ^m 41.364 ^s −9°52′04.624″	29.7	190	149.5	-9.8	85.7	-13.1	77.5	64
2017/07/04 01:34:07	27802 FY30	8.3	18.36	4.88	202	0.6	35°54'15" 51°50'46"	352	0.9 2.1	UCAC4 447-111004	13.50	19 ^h 30 ^m 11.099 ^s 0° − 38°52′149″	24.2	236	155.9	-0.5	67.8	-26.2	78.0	157
2017/07/04 17:54:40	3759 Piironen	32.1	16.29	3.04	126	2.5	38°02'45" 50°03'05"	90	6.1 11.3	UCAC4 301-152466	13.32	17 ^h 54 ^m 44.212 ^s −29°59′31.565″	2.2	146	164.7	-2.1	36.6	26.1	83.0	113
2017/07/04 18:08:27	296777 UX130	8.3	20.48	7.29	168	0.5	37°56'12" 51°07'43"	44	0.7 0.8	UCAC4 336-94163	13.19	17 ^h 13 ^m 27.307 ^s −22°51′03.595″	13.4	155	156.6	-3.7	25.5	26.3	83.1	436
2017/07/04 19:41:30	54148 HS41	6.0	17.13	3.81	190	0.5	34°12'08" 51°07'41"	309	0.5 2.3	UCAC4 374-112536	13.35	18 ^h 10 ^m 05.721 ^s −15°19′42.465″	22.9	161	166.9	-12.8	37.2	23.6	83.6	106
2017/07/04 21:07:49	51938 QL159	6.0	18.58	4.83	17	0.5	36°08'13" 50°09'59"	321	1.6 1.6	UCAC4 419-69852	13.76	17 ^h 29 ^m 11.641 ^s −6°18′50.035″	32.5	197	153.4	-17.0	28.2	16.3	84.0	150
2017/07/04 21:38:02	19727 Allen	7.9	15.65	2.13	137	0.8	37°15'11" 51°07'04"	30	0.9 4.1	UCAC4 403-106699	13.68	19 ^h 01 ^m 53.460 ^s −9°35′38.176″	30.5	178	166.7	-17.3	49.6	12.9	84.1	78
2017/07/04 22:30:42	277 Elvira	27.2	14.77	1.39	22	2.3	36°26'01" 49°52'09"	152	9.0 9.1	UCAC4 457-122666	13.73	23 ^h 59 ^m 18.358 ^s 1°21′24.710″	18.3	111	102.5	-16.4	123.6	6.1	84.4	119
2017/07/05 17:39:12	21371 TD28	13.8	19.33	5.44	52	1.0	35°57'56" 49°37'55"	206	1.9 1.9	UCAC4 320-99738	13.90	17 ^h 01 ^m 52.328 ^s −26°05′22.985″	9.3	153	153.1	-0.2	13.9	21.5	89.4	287
2017/07/05 17:51:58	3144 Brosche	28.2	15.59	2.06	148	4.1	37°22'13" 51°11'10"	31	2.9 13.1	UCAC4 369-152494	13.71	18 ^h 52 ^m 04.371 ^s −16°18′15.056″	8.1	128	173.4	-1.8	36.4	22.1	89.5	85
2017/07/05 20:09:28	43198 AD62	5.8	18.55	4.84	170	0.6	33°59'57" 49°39'57"	255	0.8 1.6	UCAC4 294-110282	13.73	17 ^h 00 ^m 49.688 ^s −31°21′17.802″	8.4	186	152.2	-14.8	17.0	22.0	90.0	144
2017/07/05 22:13:28	35892 JV82	6.0	16.55	2.81	200	0.7	38°02'28" 48°39'51"	141	0.3 2.6	UCAC4 424-110034	13.82	19 ^h 19 ^m 50.415 ^s −5°20′00.894″	34.7	185	162.0	-17.0	43.3	11.8	90.6	93
2017/07/05 22:31:27	6198 Shi- rakawa	5.8	17.00	3.14	95	0.5	37°12'05" 49°25'33"	137	1.4 2.7	UCAC4 298-222461	13.92	18 ^h 52 ^m 44.822 ^s −30°26′10.122″	8.5	193	172.0	-16.5	35.3	9.8	90.6	85
2017/07/05 22:59:46	21653 David- wang	6.3	16.84	4.38	92	0.6	35°24'01" 49°27'05"	224	1.6 2.5	UCAC4 457-91727	12.48	19 ^h 20 ^m 26.451 ^s 1°23′39.092″	39.8	200	155.4	-15.2	45.6	6.3	90.7	101
2017/07/06 18:16:15	21 Lutetia	95.8	13.13	0.92	196	2.3	34°11'40" 48°55'24"	230	11.7 21.1	UCAC4 542-47510	12.82	9 ^h 13 ^m 58.848 ^s 18°16′57.702″	9.7	287	30.8	-4.8	122.4	19.2	94.6	179

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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}
2017/07/06 21:09:33	26405 1999 XS15	9.1	16.65	3.93	160	0.7	34°28'20" 50°54'27"	306	1.2 3.1	UCAC4 348-146360	12.75	18 ^h 32 ^m 38.298 ^s -20°34'08.438"	19.5	181	172.4	-17.2	18.1	19.6	95.1	117
2017/07/06 21:12:01	47608 2000 AE243	8.7	16.78	2.95	124	0.8	36°22'38" 51°09'27"	3	1.7 3.3	UCAC4 404-106105	13.90	19 ^h 07 ^m 25.305 ^s -9°15'50.471"	30.5	171	166.6	-17.3	28.5	19.5	95.1	105
2017/07/06 21:20:37	16210 2000 CY61	7.9	15.76	3.70	55	1.1	35°31'53" 49°58'54"	262	2.6 3.0	UCAC4 305-206989	12.09	18 ^h 12 ^m 30.286 ^s -29°11'27.032"	10.5	187	166.7	-17.4	16.8	19.0	95.1	107
2017/07/06 23:09:21	5519 Lellouch	11.0	17.64	5.09	102	1.6	36°30'07" 49°08'23"	171	2.4 3.2	UCAC4 389-67148	12.56	16 ^h 18 ^m 49.559 ^s -12°20'46.156"	6.4	242	139.4	-14.8	16.1	9.3	95.5	137
2017/07/07 00:08:29	30377 2000 JL66	6.0	16.18	2.65	63	0.6	36°40'43" 49°32'17"	154	2.1 2.8	UCAC4 345-157194	13.62	18 ^h 35 ^m 02.701 ^s -21°01'06.128"	8.7	222	173.0	-10.3	17.2	2.0	95.6	87
2017/07/07 20:09:47	6210 Hyun-seop	9.5	16.87	3.39	119	0.9	36°31'30" 48°59'38"	172	1.9 3.5	UCAC4 354-184006	13.53	20 ^h 08 ^m 15.740 ^s -19°17'57.673"	13.3	144	165.6	-15.0	29.3	20.6	98.2	110
2017/07/07 21:50:27	22672 1998 QV37	5.8	18.41	6.52	229	0.8	34°55'05" 51°55'13"	335	0.4 1.7	UCAC4 349-82008	11.89	16 ^h 45 ^m 18.121 ^s -20°23'08.863"	11.8	217	146.8	-17.6	19.4	19.0	98.4	137
2017/07/07 22:19:08	31178 1997 XK13	7.9	17.26	3.48	68	0.9	37°02'00" 49°40'24"	128	2.3 2.7	UCAC4 435-111404	13.82	20 ^h 30 ^m 22.663 ^s -3°02'04.466"	36.3	167	152.2	-17.1	38.2	17.4	98.5	117
2017/07/07 22:28:14	30401 2000 KO47	10.0	17.81	4.53	60	1.1	36°47'26" 49°37'05"	143	2.7 3.0	UCAC4 453-58473	13.30	15 ^h 20 ^m 12.309 ^s 0°27'46.828"	13.5	254	120.0	-16.8	45.9	16.7	98.5	131
2017/07/08 01:31:18	15838 Auclair	5.2	17.92	5.09	28	0.5	36°00'32" 49°52'04"	225	1.8 1.9	UCAC4 334-209663	12.84	20 ^h 00 ^m 38.055 ^s -23°14'25.064"	6.6	221	168.1	-1.3	24.7	-3.5	98.8	113
2017/07/08 19:17:12	24603 Mekistheus	11.0	20.14	8.09	158	0.8	35°14'55" 48°48'05"	208	1.2 1.3	UCAC4 314-94558	12.05	16 ^h 54 ^m 08.129 ^s -27°16'54.107"	12.8	179	148.5	-11.2	28.3	15.6	99.8	331
2017/07/08 19:45:20	19330 1996 XJ31	7.2	17.11	3.38	117	0.6	35°16'27" 50°52'44"	322	1.5 2.6	UCAC4 339-180892	13.78	19 ^h 16 ^m 33.849 ^s -22°12'17.904"	13.2	152	178.9	-13.5	6.0	17.6	99.8	110
2017/07/08 20:29:21	33310 1998 KF54	7.9	17.78	5.19	45	1.0	36°08'22" 50°26'25"	346	2.3 2.5	UCAC4 362-200589	12.60	22 ^h 09 ^m 02.209 ^s -17°47'00.312"	3.3	123	138.4	-16.1	45.7	19.8	99.8	127
2017/07/08 22:33:43	24100 1999 VH8	8.3	17.09	3.31	11	0.7	36°18'20" 49°57'00"	173	2.9 2.9	UCAC4 359-161325	13.83	18 ^h 40 ^m 30.372 ^s -18°23'17.710"	19.1	202	171.5	-16.7	4.7	19.2	99.9	114
2017/07/08 23:37:46	20607 Ver-nazza	8.3	17.56	4.96	248	0.7	37°54'41" 48°05'30"	152	0.3 2.7	UCAC4 366-119804	12.61	18 ^h 10 ^m 04.350 ^s -16°53'23.765"	12.2	224	164.3	-13.1	12.6	15.1	99.9	121
2017/07/08 23:50:15	27831 1994 DF	6.3	18.27	8.28	17	0.5	36°08'57" 50°10'28"	325	2.0 2.0	UCAC4 421-73224	9.99	17 ^h 40 ^m 49.628 ^s -5°59'21.333"	16.3	239	152.4	-12.1	24.0	14.1	99.9	123
2017/07/09 18:50:36	20751 2000 AA200	7.9	18.96	5.48	211	1.3	33°24'21" 49°41'12"	259	0.8 2.0	UCAC4 456-54859	13.48	14 ^h 20 ^m 45.563 ^s 1°00'32.731"	34.2	219	104.6	-8.8	81.4	9.0	99.6	156
2017/07/09 21:51:41	8040 Ut-sumikazuhiro	5.5	17.60	4.01	235	0.7	36°08'02" 52°09'18"	357	0.1 2.5	UCAC4 412-129371	13.62	20 ^h 53 ^m 15.543 ^s -7°45'42.903"	29.5	156	152.6	-17.8	18.9	21.4	99.4	89
2017/07/09 22:38:07	7418 Akasegawa	6.9	16.52	3.26	144	0.8	37°18'04" 48°55'60"	150	0.7 3.4	UCAC4 375-112688	13.32	18 ^h 10 ^m 36.459 ^s -15°00'57.168"	19.5	212	162.8	-16.7	24.3	21.4	99.4	81
2017/07/09 22:47:45	25890 Louis-burg	7.6	17.87	3.97	78	0.6	36°02'12" 50°43'33"	347	2.0 2.4	UCAC4 364-120367	13.92	18 ^h 03 ^m 28.906 ^s -17°19'48.092"	15.8	215	162.1	-16.3	25.7	21.2	99.4	127

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 4		LinOccult 2.3.0			
		Asteroid			Nearest point			Star			Sun			Moon						
Date Time (UTC)	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Dist	Alt	Phase (%)	σ_{km}
2017/07/10 17:41:54	68927 2002 NB28	5.8	18.19	5.13	108	0.6	34°46'48" 50°02'05"	269	1.2	UCAC4 291-135138	13.07	17 ^h 39 ^m 51.051 ^s -31°55'46.039"	2.6	151	155.8	-0.9	41.3	-5.2	97.7	136
2017/07/10 19:00:45	18848 1999 RH41	9.1	16.56	3.02	103	0.8	35°02'44" 50°30'57"	300	2.2	UCAC4 494-82969	13.61	18 ^h 24 ^m 39.000 ^s 8°36'52.732"	43.5	144	146.3	-9.9	41.1	5.7	97.5	103
2017/07/10 19:20:11	32523 2001 OY82	10.0	17.68	4.63	201	2.5	33°56'48" 49°03'53"	237	1.1	UCAC4 299-85189	13.07	15 ^h 57 ^m 44.722 ^s -30°17'39.583"	8.5	194	134.3	-11.7	63.9	8.2	97.5	145
2017/07/10 19:40:51	55142 2001 QD194	6.0	17.68	5.05	216	0.6	37°34'42" 51°48'34"	25	0.2	UCAC4 388-142043	12.64	20 ^h 49 ^m 58.680 ^s -12°27'53.808"	12.8	128	156.5	-13.3	5.7	10.6	97.4	102
2017/07/11 00:44:29	53344 1999 JX54	5.5	17.50	4.12	100	0.5	36°34'18" 49°10'10"	168	1.3	UCAC4 412-104381	13.41	19 ^h 00 ^m 48.025 ^s -7°41'45.509"	17.2	234	164.8	-7.2	27.3	20.0	96.7	107
2017/07/11 18:36:40	762 Pulcova	137.1	14.13	0.91	131	4.7	35°57'30" 48°53'41"	190	23.9	UCAC4 408-54777	13.83	11 ^h 24 ^m 56.023 ^s -8°24'41.974"	3.6	252	66.4	-7.5	142.1	-2.3	93.6	166
2017/07/11 19:00:52	1019 Strackea	8.4	14.75	1.53	195	0.7	33°35'53" 50°21'32"	280	0.0	UCAC4 534-68290	13.53	18 ^h 01 ^m 24.013 ^s 16°42'39.948"	53.5	149	136.2	-10.0	59.2	1.2	93.5	50
2017/07/11 19:22:07	25937 2001 DY92	12.0	19.59	5.64	241	0.8	37°45'45" 52°00'11"	26	1.1	UCAC4 320-146197	13.96	18 ^h 11 ^m 50.130 ^s -26°05'19.543"	12.6	165	163.0	-11.9	46.5	4.2	93.5	318
2017/07/11 20:04:21	34399 Hachio-jihigashi	5.0	17.38	3.97	130	0.5	35°38'55" 48°57'37"	201	0.9	UCAC4 395-116812	13.44	19 ^h 40 ^m 06.253 ^s -11°08'17.809"	24.3	150	168.5	-15.1	26.2	9.8	93.3	100
2017/07/11 20:18:02	10369 Sinden	7.6	16.69	3.41	240	0.5	39°37'53" 49°56'27"	93	0.3	UCAC4 281-167960	13.33	18 ^h 09 ^m 59.517 ^s -33°55'01.348"	6.1	179	159.8	-15.9	48.4	11.5	93.3	117
2017/07/11 23:08:34	5140 Kida	15.8	16.14	2.59	236	1.3	34°40'12" 51°54'17"	331	0.9	UCAC4 408-116253	13.65	19 ^h 09 ^m 51.160 ^s -8°25'11.463"	27.4	209	166.0	-15.5	35.6	25.3	92.7	127
2017/07/11 23:59:40	26471 Tracyn-becker	6.9	15.56	2.86	120	0.6	34°36'46" 49°58'16"	266	0.3	UCAC4 550-145442	12.78	22 ^h 27 ^m 59.064 ^s 19°59'04.610"	59.0	160	118.6	-11.7	36.6	26.0	92.5	49
2017/07/12 01:27:37	27736 Ekaterinburg	7.9	19.06	5.24	18	0.6	36°09'15" 49°54'54"	213	1.8	UCAC4 309-263025	13.83	21 ^h 45 ^m 17.682 ^s -28°18'55.993"	9.3	200	147.8	-2.2	14.6	22.9	92.1	177
2017/07/12 18:02:19	5430 Luu	9.1	15.85	3.75	70	0.6	35°18'32" 49°59'22"	265	3.1	UCAC4 502-59892	12.14	15 ^h 21 ^m 46.077 ^s 10°17'00.615"	50.0	191	111.6	-3.7	104.4	-12.4	88.0	67
2017/07/12 19:32:59	2352 Kurchatov	16.6	16.84	3.23	85	7.6	35°11'40" 50°20'46"	293	3.0	UCAC4 384-68197	13.67	15 ^h 22 ^m 50.998 ^s -13°12'06.743"	21.7	211	121.3	-13.0	99.6	1.5	87.8	204
2017/07/12 22:49:11	19983 1990 DW	6.9	16.66	5.25	195	0.7	34°51'37" 51°32'58"	329	0.2	UCAC4 323-217198	11.42	20 ^h 23 ^m 44.610 ^s -25°32'05.154"	14.5	183	166.9	-16.6	31.6	25.0	86.7	85
2017/07/12 23:32:12	17283 Ustinov	10.0	17.05	3.65	30	0.7	35°58'07" 50°13'11"	310	2.9	UCAC4 335-155984	13.44	18 ^h 22 ^m 51.193 ^s -23°05'57.625"	6.9	221	164.7	-14.1	58.6	27.7	86.4	135
2017/07/12 23:43:54	1656 Suomi	8.1	16.43	3.85	75	0.9	36°34'26" 49°24'02"	164	2.6	UCAC4 542-57407	12.61	16 ^h 13 ^m 02.266 ^s 18°13'46.339"	20.2	275	117.5	-13.2	96.1	28.2	86.4	73
2017/07/12 23:55:43	9380 Macon	6.3	18.14	6.24	53	0.8	35°49'53" 50°25'19"	322	2.0	UCAC4 388-144651	11.90	21 ^h 31 ^m 41.837 ^s -12°34'53.048"	27.5	184	149.3	-12.2	13.2	28.7	86.3	113
2017/07/13 00:05:24	12097 1998 HG121	6.0	16.24	2.40	227	0.8	38°03'16" 48°22'06"	146	0.0	UCAC4 364-140187	13.96	18 ^h 35 ^m 42.208 ^s -17°21'31.748"	9.7	228	166.7	-11.3	55.9	28.9	86.3	78

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.		Table 1		Page 5		LinOccult 2.3.0				
Asteroid			Nearest point			Star			Sun		Moon									
Date Time (UTC)	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Phase (%)	σ_{km}		
2017/07/13 00:18:32	32404 RN	6.3	17.02	3.10	173	0.6	36°12'35" 48°29'24"	182	0.6	UCAC4	13.99	19 ^h 02 ^m 21.499 ^s -12°04'31.742"	15.9	227	168.4	-10.1	49.8	29.2	86.2	104
2017/07/13 00:44:01	28375 1999 JC	6.9	18.60	4.96	249	0.5	38°12'31" 48°11'43"	146	0.4	UCAC4	13.65	20 ^h 26 ^m 11.659 ^s -19°00'28.627"	15.5	211	166.3	-7.5	30.2	29.4	86.1	143
2017/07/13 18:15:58	32404 RN	6.3	17.03	4.61	119	0.6	35°30'13" 49°06'35"	208	1.3	UCAC4	12.44	19 ^h 01 ^m 38.336 ^s -12°02'04.244"	17.4	135	167.9	-5.4	59.3	-14.9	80.6	104
2017/07/13 18:34:01	370 Modestia	24.2	13.21	1.14	111	2.8	36°41'30" 51°00'33"	15	3.8	UCAC4	12.54	20 ^h 11 ^m 37.655 ^s -18°32'22.674"	5.5	128	170.2	-7.4	42.9	-12.0	80.5	68
2017/07/13 18:49:56	2875 Lagerkvist	12.0	16.55	2.75	147	1.1	34°43'05" 49°12'37"	230	1.9	UCAC4	13.89	18 ^h 29 ^m 03.438 ^s -34°56'05.724"	1.9	158	160.8	-9.1	68.0	-9.5	80.4	118
2017/07/13 20:38:02	2318 Lubarsky	5.8	16.72	4.51	213	0.6	37°23'48" 48°16'27"	158	0.1	UCAC4	12.22	18 ^h 34 ^m 38.562 ^s -18°24'10.504"	21.7	179	166.0	-17.1	67.0	7.2	79.7	76
2017/07/13 22:37:38	15963 Koeberl	8.3	17.39	4.07	211	0.8	35°02'35" 51°46'30"	335	0.5	UCAC4	13.34	17 ^h 39 ^m 17.755 ^s -6°46'47.927"	22.2	227	148.8	-17.3	82.4	23.0	79.0	116
2017/07/13 23:03:16	37243 2000 WM174	5.0	17.43	3.48	161	0.6	37°36'32" 48°53'05"	144	0.7	UCAC4	13.99	17 ^h 49 ^m 50.985 ^s -11°45'45.940"	16.1	228	153.5	-16.1	79.6	25.7	78.8	122
2017/07/13 23:23:57	30377 2000 JL66	6.0	16.38	4.06	73	0.7	36°45'11" 49°27'50"	153	1.9	UCAC4	12.35	18 ^h 28 ^m 37.768 ^s -22°08'32.130"	8.8	219	165.1	-14.8	70.0	27.6	78.7	88
2017/07/14 00:21:09	6394 1990 QM2	5.8	16.64	2.82	58	0.7	36°30'31" 50°33'07"	16	2.4	UCAC4	13.91	23 ^h 37 ^m 19.928 ^s 8°35'47.738"	45.3	150	112.9	-10.0	16.5	31.6	78.4	64
2017/07/14 01:12:00	21653 David-wang	6.3	16.81	4.06	201	0.6	35°01'56" 48°26'34"	207	0.3	UCAC4	12.77	19 ^h 12 ^m 57.790 ^s 2°12'41.614"	21.7	246	155.6	-4.4	61.6	33.2	78.1	100
2017/07/14 17:37:43	362981 2013 CK58	10.0	20.19	6.76	93	0.6	37°05'09" 49°23'35"	142	1.1	UCAC4	13.43	18 ^h 36 ^m 28.899 ^s 3°52'24.072"	30.1	125	150.6	-0.8	79.0	-24.5	71.9	339
2017/07/14 18:01:55	229813 2008 SW223	6.6	20.79	7.20	232	0.6	39°10'06" 51°02'33"	62	0.5	UCAC4	13.59	17 ^h 04 ^m 45.505 ^s -29°23'53.134"	9.3	165	145.1	-3.8	98.2	-21.0	71.8	434
2017/07/14 18:46:28	350825 2002 ER38	5.5	21.47	8.76	188	0.5	38°44'41" 50°39'44"	69	0.5	UCAC4	12.71	16 ^h 45 ^m 17.108 ^s -29°57'35.245"	10.1	179	140.9	-8.9	102.7	-14.2	71.5	359
2017/07/14 19:18:00	3262 Miune	20.9	16.44	3.12	159	2.4	34°03'60" 50°03'21"	270	3.2	UCAC4	13.38	14 ^h 30 ^m 59.134 ^s -11°47'40.749"	18.7	223	106.9	-11.9	138.1	-9.3	71.2	148
2017/07/14 20:55:51	5389 Chokkaiyau	6.6	16.38	3.48	97	0.8	35°08'36" 50°31'41"	303	1.6	UCAC4	12.95	18 ^h 23 ^m 16.092 ^s -35°25'33.708"	4.4	186	158.8	-17.9	82.9	6.1	70.6	82
2017/07/14 21:31:52	28374 1999 HL11	6.9	17.61	4.92	112	0.8	37°01'33" 49°09'30"	152	1.5	UCAC4	12.70	18 ^h 05 ^m 44.503 ^s -23°35'23.191"	14.2	200	158.9	-18.5	87.2	11.6	70.3	119
2017/07/14 21:33:49	6887 Hasuo	6.3	16.62	3.57	61	0.8	36°58'42" 49°44'01"	125	2.5	UCAC4	13.09	17 ^h 58 ^m 54.012 ^s -30°44'22.439"	6.8	200	156.3	-18.6	88.4	11.9	70.3	72
2017/07/14 21:52:17	10170 Petr-jakes	5.2	17.49	4.26	42	0.7	35°50'30" 50°17'54"	311	1.9	UCAC4	13.26	17 ^h 52 ^m 10.806 ^s -21°53'43.219"	13.6	208	155.7	-18.5	90.6	14.6	70.1	99
2017/07/14 22:43:50	14263 2000 AA127	8.3	17.07	6.72	187	0.8	37°37'00" 48°36'45"	149	0.8	UCAC4	10.35	18 ^h 28 ^m 13.243 ^s -21°08'14.152"	13.1	212	164.0	-17.2	82.7	21.8	69.8	117

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	Phase (%)	σ_{km}		
2017/07/14 23:37:21	434 Hungaria	19.0	13.48	0.54	208	2.5	35°22'49'' 51°49'21''	342	0.0	UCAC4 553-69398	13.95	18 ^h 24 ^m 39.638 ^s 20°24'58.934''	42.5	249	134.4	-14.0	86.1	28.3	69.4	48
2017/07/14 23:39:46	7832 FA27	5.2	15.49	2.76	126	1.2	36°17'46'' 48°54'57''	180	0.2	UCAC4 412-125171	12.81	20 ^h 15 ^m 05.621 ^s -7°41'59.965''	29.7	203	163.4	-13.8	57.1	28.5	69.4	53
2017/07/15 00:14:02	5889 Mickiewicz	22.6	16.43	3.88	139	2.2	35°52'22'' 51°16'16''	348	3.9	UCAC4 479-80794	12.58	18 ^h 27 ^m 35.437 ^s 5°37'58.868''	25.8	246	147.9	-10.8	84.7	32.0	69.2	139
2017/07/15 00:43:24	31177 XH11	6.6	18.65	7.50	240	0.9	38°20'03'' 51°46'07''	37	0.4	UCAC4 389-458	11.15	0 ^h 24 ^m 25.564 ^s -12°17'24.333''	23.8	152	111.2	-7.8	10.7	34.3	69.0	127
2017/07/15 17:33:24	2897 Ole Romer	7.6	16.47	3.12	138	0.9	37°59'04'' 50°38'34''	61	0.9	UCAC4 294-152901	13.42	18 ^h 06 ^m 19.931 ^s -31°14'03.701''	2.0	148	156.9	-0.3	97.5	-27.7	61.9	82
2017/07/15 17:55:59	6570 Tomohiro	12.6	17.07	4.81	109	0.9	36°29'43'' 49°04'39''	172	2.7	UCAC4 450-120058	12.27	19 ^h 54 ^m 29.547 ^s 0° - 1'12.083''	19.0	114	158.3	-3.2	71.8	-24.9	61.7	129
2017/07/15 18:29:24	7920 XM2	7.9	17.92	4.87	180	2.1	33°47'15'' 49°51'22''	263	0.9	UCAC4 348-79267	13.06	15 ^h 56 ^m 33.095 ^s -20°35'24.611''	19.1	188	128.1	-7.2	128.4	-20.3	61.6	121
2017/07/15 18:58:32	51985 SA116	5.8	18.58	4.67	100	0.8	37°16'24'' 50°41'02''	45	1.2	UCAC4 336-99495	13.92	17 ^h 23 ^m 32.997 ^s -22°57'57.278''	16.9	174	148.4	-10.3	108.7	-16.1	61.3	145
2017/07/15 19:49:02	52627 WU2	6.9	18.78	4.88	123	0.9	37°44'07'' 49°27'43''	122	1.3	UCAC4 356-76904	13.91	15 ^h 59 ^m 16.721 ^s -18°55'43.740''	17.0	207	128.3	-14.6	129.3	-8.4	60.8	152
2017/07/15 20:23:46	29742 BQ12	9.5	15.97	2.70	133	1.1	37°57'17'' 49°31'12''	116	1.4	UCAC4 343-105940	13.37	17 ^h 37 ^m 12.904 ^s -21°32'22.622''	17.8	192	151.4	-16.7	106.6	-2.9	60.6	91
2017/07/15 21:38:30	14787 5038 T-3	6.6	17.34	5.05	52	0.6	35°47'24'' 50°23'03''	317	2.1	UCAC4 361-190892	12.30	19 ^h 32 ^m 27.791 ^s -17°48'53.675''	22.3	182	176.0	-18.7	80.2	8.9	60.0	110
2017/07/15 22:30:18	12815 DL2	6.9	17.41	6.97	244	0.6	33°52'27'' 51°37'05''	315	0.3	UCAC4 332-187484	10.45	18 ^h 58 ^m 21.659 ^s -23°38'41.564''	13.6	202	169.9	-17.9	89.0	16.8	59.7	123
2017/07/15 22:49:21	34698 OD22	9.5	17.86	4.84	161	0.7	35°10'08'' 51°18'42''	330	1.4	UCAC4 469-87439	13.03	19 ^h 05 ^m 25.856 ^s 3°41'08.959''	38.8	214	153.4	-17.1	86.6	19.6	59.5	141
2017/07/15 23:35:00	626 Notburga	100.7	13.39	0.87	27	2.8	36°40'01'' 50°01'18''	96	32.8	UCAC4 617-8848	13.16	3 ^h 00 ^m 24.788 ^s 33°15'17.202''	30.3	73	62.3	-14.3	43.5	26.1	59.2	116
2017/07/16 00:06:11	33822 AA231	13.8	19.47	6.76	254	0.8	34°22'46'' 51°59'35''	328	1.2	UCAC4 361-136997	12.72	18 ^h 18 ^m 10.063 ^s -17°49'39.404''	5.5	234	160.2	-11.7	99.2	30.1	58.9	324
2017/07/16 01:12:23	5382 McKay	10.0	16.44	4.18	17	0.9	36°16'47'' 49°53'30''	182	4.0	UCAC4 426-90882	12.29	18 ^h 48 ^m 08.609 ^s -4°51'49.827''	11.1	248	159.0	-4.7	92.5	37.2	58.4	99
2017/07/16 01:44:01	1263 Varsavia	49.3	15.15	1.48	59	3.2	36°34'02'' 49°33'09''	160	14.9	UCAC4 508-84055	13.99	18 ^h 36 ^m 16.055 ^s 11°29'25.913''	16.9	268	143.4	-0.7	95.0	39.6	58.2	115
2017/07/16 20:32:48	10714 QG	6.3	16.25	2.38	218	0.7	39°12'43'' 49°31'22''	106	0.1	UCAC4 280-186532	13.99	18 ^h 22 ^m 04.677 ^s -34°05'31.428''	5.9	183	157.7	-17.3	108.9	-5.6	49.6	85
2017/07/16 21:32:24	8060 Anius	21.9	18.19	4.27	183	1.5	34°31'11'' 51°15'06''	317	2.6	UCAC4 291-174456	13.94	18 ^h 16 ^m 17.049 ^s -31°59'48.432''	6.1	197	157.5	-18.9	110.9	3.7	49.1	273
2017/07/16 21:50:46	28369 GA21	7.9	17.92	4.35	238	0.6	37°54'12'' 48°11'22''	151	0.5	UCAC4 414-86955	13.59	18 ^h 44 ^m 07.211 ^s -7°17'10.059''	30.8	201	159.8	-18.8	104.9	6.6	49.0	133

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 7		LinOccult 2.3.0			
		Asteroid			Nearest point			Star				Sun			Moon					
Date Time (UTC)	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Dist	Alt	Phase (%)	σ_{km}
2017/07/16 22:14:58	90092 XM4	5.2	19.36	5.68	41	0.6	35°58'11" 49°44'15"	213	1.2	UCAC4 489-138963	13.69	22 ^h 24 ^m 39.657 ^s 7°44'25.046"	40.5	138	131.2	-18.5	49.1	10.4	48.9	168
2017/07/16 22:25:24	32404 RN	6.3	17.08	3.70	119	0.6	35°47'34" 49°01'33"	197	1.3	UCAC4 391-105121	13.42	18 ^h 58 ^m 35.975 ^s -11°52'12.423"	25.0	205	165.5	-18.2	102.0	12.0	48.7	104
2017/07/16 23:09:27	5134 Ebilson	13.8	15.80	2.71	96	1.5	35°33'13" 50°46'08"	327	3.5	UCAC4 322-142911	13.18	18 ^h 12 ^m 39.912 ^s -25°43'51.269"	4.3	220	158.4	-16.2	113.2	18.9	48.3	102
2017/07/16 23:39:16	14205 BC4	9.1	16.98	3.21	199	0.7	34°14'50" 51°16'34"	313	0.8	UCAC4 364-172619	13.83	19 ^h 39 ^m 40.252 ^s -17°19'16.175"	17.3	211	175.9	-14.1	93.2	23.4	48.1	119
2017/07/17 01:27:22	29918 JV20	8.7	18.31	4.50	204	0.8	38°12'19" 48°42'28"	137	0.9	UCAC4 367-180148	13.83	21 ^h 46 ^m 26.551 ^s -16°41'44.260"	19.4	207	151.1	-3.0	64.4	37.9	47.3	145
2017/07/17 01:41:29	31521 CT106	5.2	17.58	4.62	113	0.5	36°11'14" 51°03'30"	356	1.1	UCAC4 442-92128	12.97	19 ^h 06 ^m 55.764 ^s -1°38'46.320"	11.4	253	158.3	-1.2	101.0	39.4	47.1	104
2017/07/17 01:50:06	44028 BD1	6.6	17.76	4.65	69	0.8	36°18'04" 49°25'43"	179	2.0	UCAC4 394-126494	13.13	22 ^h 01 ^m 23.886 ^s -11°15'23.867"	23.9	211	146.0	-0.0	59.6	40.3	47.1	103
2017/07/17 18:30:21	47608 AE243	8.7	16.85	3.49	46	0.9	36°19'06" 49°37'59"	177	3.0	UCAC4 404-99927	13.41	18 ^h 58 ^m 37.802 ^s -9°21'15.557"	23.3	142	163.3	-7.6	113.2	-24.3	39.4	106
2017/07/17 19:06:25	70013 XZ81	6.0	18.97	8.83	177	0.5	37°13'27" 48°34'52"	158	0.8	UCAC4 408-75940	10.14	17 ^h 52 ^m 04.679 ^s -8°32'11.584"	31.0	169	149.3	-11.3	129.9	-20.6	39.1	148
2017/07/17 19:26:40	65224 EJ44	9.5	19.78	6.07	53	0.6	36°35'34" 49°36'49"	156	1.3	UCAC4 431-87401	13.71	18 ^h 57 ^m 58.432 ^s -3°59'49.274"	33.2	155	159.0	-13.1	113.3	-18.3	38.9	279
2017/07/17 21:50:23	902 Probitas	12.6	15.55	2.15	46	1.4	36°46'39" 49°46'38"	131	5.0	UCAC4 284-157468	13.56	18 ^h 11 ^m 01.319 ^s -33°21'29.353"	3.3	202	155.1	-19.0	125.3	1.8	37.8	88
2017/07/17 23:38:16	3213 Smolensk	11.0	16.69	3.58	107	1.0	35°14'07" 50°43'50"	315	2.5	UCAC4 329-172246	13.15	18 ^h 47 ^m 28.247 ^s -24°21'34.739"	5.7	220	165.4	-14.4	119.6	18.7	36.9	115
2017/07/18 00:22:55	2162 Anhui	9.5	15.77	3.75	91	1.0	35°57'31" 50°50'13"	345	2.5	UCAC4 345-166406	12.05	18 ^h 43 ^m 19.331 ^s -21°05'32.755"	2.9	232	164.6	-10.4	121.1	25.6	36.6	76
2017/07/18 00:45:58	28702 GH91	6.6	17.39	3.48	234	1.4	37°07'45" 52°05'04"	15	0.1	UCAC4 457-122244	13.96	23 ^h 43 ^m 01.484 ^s 1°22'19.773"	40.5	164	118.7	-8.0	45.4	29.1	36.4	90
2017/07/18 01:43:29	322 Phaao	70.8	14.28	1.19	204	1.5	37°45'28" 48°28'60"	149	8.3	UCAC4 556-31449	13.53	6 ^h 38 ^m 04.282 ^s 21°07'36.658"	9.1	68	16.6	-1.1	57.0	37.2	36.0	182
2017/07/18 17:34:19	49564 CN103	5.2	17.55	4.21	47	0.7	36°35'50" 50°25'02"	28	1.7	UCAC4 393-82561	13.36	18 ^h 04 ^m 03.757 ^s -11°33'35.561"	21.5	143	152.5	-0.8	140.2	-26.8	28.9	113
2017/07/18 21:07:35	14208 CR64	8.3	16.64	2.75	114	1.9	37°07'25" 49°10'54"	148	1.7	UCAC4 434-67947	13.98	17 ^h 04 ^m 56.552 ^s -3°17'02.443"	29.4	220	135.6	-18.9	154.5	-9.0	27.1	128
2017/07/18 22:54:10	10689 Pimil- laalonso	7.6	18.46	6.19	249	0.6	35°43'31" 52°15'26"	351	0.5	UCAC4 491-100165	12.28	19 ^h 04 ^m 57.705 ^s 8°10'06.984"	41.2	222	148.6	-17.4	123.2	6.3	26.5	148
2017/07/18 22:55:04	15484 CU46	7.2	17.98	5.62	253	0.7	33°08'01" 51°07'12"	298	0.3	UCAC4 291-189396	12.36	18 ^h 29 ^m 13.516 ^s -31°52'48.168"	0.9	213	158.3	-17.3	136.2	6.4	26.5	131
2017/07/18 23:41:00	23136 AD148	6.0	17.13	3.45	27	0.5	35°54'53" 50°05'54"	282	2.3	UCAC4 352-182078	13.73	20 ^h 31 ^m 32.497 ^s -19°42'46.595"	18.0	200	170.9	-14.3	109.6	13.5	26.1	100

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			
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 (%)
2017/07/18 23:45:09	29545 1998 BM31	6.3	17.45	4.23	32	0.8	36°30'52" 49°47'49"	150	2.2	UCAC4 372-177444	13.25	21 ^h 21 ^m 20.088 ^s −15°46'37.592"	23.8	190	158.5	-14.0	97.3	14.2	26.1	107
2017/07/19 17:44:07	8424 Toshit- sumita	5.8	16.35	2.96	123	0.7	36°25'13" 51°09'02"	4	0.7	UCAC4 362-167648	13.47	18 ^h 50 ^m 30.869 ^s −17°42'29.617"	12.6	139	164.2	-2.3	144.0	-23.7	18.8	72
2017/07/19 19:51:07	56262 1999 JE89	5.5	16.69	2.91	234	0.6	33°03'17" 50°24'26"	280	0.2	UCAC4 319-191326	13.86	18 ^h 33 ^m 09.036 ^s −26°14'34.804"	13.6	174	160.1	-15.4	148.9	-19.9	17.9	104
2017/07/19 20:19:31	82710 2001 PU44	5.0	18.22	4.51	166	0.5	34°43'17" 51°09'44"	318	0.7	UCAC4 367-137900	13.72	18 ^h 38 ^m 45.010 ^s −16°44'35.075"	23.3	179	161.2	-17.2	148.4	-17.7	17.7	135
2017/07/19 21:05:23	16450 Messer- schmidt	8.3	17.62	6.33	176	1.0	34°02'42" 50°43'04"	295	0.9	UCAC4 380-165857	11.29	21 ^h 57 ^m 11.760 ^s −14°02'10.415"	17.5	140	150.6	-19.0	101.3	-13.3	17.4	114
2017/07/19 21:40:22	33782 1999 RW178	6.9	18.05	5.50	86	0.8	37°07'23" 49°29'48"	136	1.6	UCAC4 322-148287	12.56	18 ^h 15 ^m 22.834 ^s −25°44'40.327"	11.0	203	156.2	-19.4	153.9	-9.4	17.2	149
2017/07/19 23:24:50	11123 Alicia- claire	5.5	17.66	3.99	78	0.7	36°57'53" 49°30'06"	141	1.6	UCAC4 321-176117	13.70	18 ^h 23 ^m 03.717 ^s −25°54'39.622"	2.3	223	157.8	-15.7	153.2	4.7	16.5	101
2017/07/20 18:59:48	22431 1996 DY2	5.5	18.51	6.52	102	0.6	36°05'10" 49°08'21"	188	1.2	UCAC4 323-125225	11.99	17 ^h 55 ^m 30.064 ^s −25°32'14.385"	14.1	172	150.9	-11.1	169.9	-21.6	9.9	127
2017/07/20 19:07:38	19124 1986 TH3	6.6	18.20	4.71	201	0.5	35°09'47" 51°42'35"	337	0.6	UCAC4 447-78723	13.51	18 ^h 28 ^m 56.445 ^s 0° − 43'19.363"	37.7	161	150.1	-11.9	156.2	-21.6	9.9	125
2017/07/20 20:18:23	104997 2000 KS2	5.5	17.94	5.37	216	0.8	37°13'37" 48°12'39"	162	0.3	UCAC4 523-152341	12.58	23 ^h 59 ^m 02.146 ^s 14°35'16.691"	17.5	88	111.7	-17.3	78.3	-19.8	9.5	112
2017/07/20 21:08:59	26610 2000 FK39	8.7	17.34	4.03	68	0.7	35°47'13" 50°34'06"	328	2.5	UCAC4 369-163782	13.34	19 ^h 12 ^m 00.811 ^s −16°12'28.705"	23.8	185	167.7	-19.3	155.6	-16.6	9.3	120
2017/07/20 21:11:53	115517 2003 UL37	5.2	18.33	6.70	167	0.7	35°35'29" 48°36'53"	197	0.7	UCAC4 460-126536	11.63	21 ^h 55 ^m 51.334 ^s 1°57'06.875"	33.2	136	143.9	-19.3	111.5	-16.3	9.3	126
2017/07/20 21:24:52	14968 Kubacek	5.0	18.47	4.73	68	0.7	35°48'39" 50°34'43"	330	1.4	UCAC4 367-93359	13.76	17 ^h 34 ^m 50.600 ^s −16°46'48.509"	17.4	213	145.3	-19.5	177.9	-15.3	9.2	119
2017/07/20 22:13:18	36197 1999 TZ91	5.8	18.89	5.15	190	1.5	34°47'00" 48°38'43"	215	0.6	UCAC4 390-300	13.75	0 ^h 15 ^m 11.039 ^s −12°00'42.116"	11.5	125	118.8	-19.2	84.4	-10.6	8.9	125
2017/07/20 22:18:51	3941 Haydn	7.9	17.31	4.26	108	0.7	37°08'45" 49°14'60"	145	1.8	UCAC4 351-174069	13.07	19 ^h 17 ^m 22.844 ^s −19°48'59.417"	17.9	200	169.8	-19.1	155.5	-10.0	8.9	116
2017/07/20 23:02:14	46234 2001 HK9	6.6	16.85	3.61	156	0.9	37°01'46" 48°43'51"	160	0.8	UCAC4 415-90158	13.28	18 ^h 44 ^m 49.078 ^s −7°07'05.518"	23.5	223	157.2	-17.3	159.5	-5.0	8.7	103
2017/07/20 23:28:05	50052 2000 AV63	5.2	16.69	3.45	130	1.0	37°05'13" 49°00'02"	154	0.8	UCAC4 347-111057	13.29	17 ^h 41 ^m 05.913 ^s −20°47'14.299"	0.6	236	147.3	-15.7	177.7	-1.7	8.5	92
2017/07/21 00:34:21	319 Leona	68.2	15.79	2.55	248	1.5	36°38'09" 52°15'37"	6	5.8	UCAC4 529-17073	13.35	5 ^h 47 ^m 35.253 ^s 15°44'14.333"	3.9	70	32.1	-9.8	3.7	7.6	8.3	176
2017/07/21 18:52:29	5227 Bo- cacara	6.9	15.93	2.88	22	0.9	36°10'21" 49°51'34"	201	3.5	UCAC4 388-119954	13.13	19 ^h 04 ^m 49.689 ^s −12°32'31.934"	23.2	151	163.8	-10.6	168.6	-19.0	4.0	75
2017/07/21 19:14:35	11106 1995 UK3	9.1	18.42	6.18	87	0.6	36°52'47" 49°22'11"	151	2.0	UCAC4 368-66300	12.24	13 ^h 53 ^m 34.516 ^s −16°24'45.051"	7.3	234	93.2	-12.7	115.1	-19.9	3.9	153

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}
2017/07/21 20:55:31	135594 GK147	10.0	19.84	6.85	88	0.7	35°37'55'' 50°43'20''	328	1.2	UCAC4 376-136749	12.99	18 ^h 41 ^m 23.647 ^s -14°56'06.245''	24.6	190	159.5	-19.1	175.1	-19.9	3.5	314
2017/07/21 21:16:17	2334 Cuffey	7.9	15.99	2.28	85	1.7	35°23'50'' 50°33'12''	312	2.2	UCAC4 345-120543	13.86	17 ^h 50 ^m 22.328 ^s -21°03'57.297''	14.9	207	148.6	-19.6	169.6	-19.1	3.4	71
2017/07/21 21:47:54	24341 AJ87	12.6	19.49	5.54	49	0.8	36°36'58'' 49°39'31''	151	1.6	UCAC4 362-155406	13.96	18 ^h 37 ^m 26.700 ^s -17°38'28.117''	19.3	204	159.2	-19.8	178.2	-17.4	3.4	301
2017/07/21 23:16:37	4988 Chushuho	5.8	16.27	4.88	31	1.2	36°31'29'' 49°48'49''	147	3.1	UCAC4 393-131434	11.41	21 ^h 28 ^m 22.685 ^s -11°25'40.950''	28.6	184	158.1	-16.6	138.5	-9.8	3.1	67
2017/07/22 00:05:57	14190 Soldan	7.6	17.95	4.91	134	0.6	35°17'51'' 51°04'39''	328	1.4	UCAC4 328-187130	13.05	19 ^h 11 ^m 26.216 ^s -24°30'33.562''	3.4	224	166.9	-12.8	171.3	-4.2	3.0	126
2017/07/22 00:32:40	6627 1981 FT	5.2	16.80	4.04	97	0.6	35°13'06'' 50°35'00''	308	1.1	UCAC4 333-220158	12.78	21 ^h 04 ^m 37.827 ^s -23°08'36.745''	12.4	206	165.9	-10.1	146.8	-0.8	2.9	69
2017/07/22 19:35:13	43940 XY5	10.0	18.77	5.21	228	0.9	37°29'33'' 48°09'24''	158	1.0	UCAC4 328-113721	13.57	17 ^h 40 ^m 38.629 ^s -24°24'00.667''	15.5	185	145.6	-14.7	153.5	-18.5	0.6	199
2017/07/22 20:18:41	66813 UQ11	7.2	18.63	5.77	146	1.2	35°59'16'' 48°45'14''	188	1.2	UCAC4 471-691	12.87	0 ^h 27 ^m 12.522 ^s 4°00'56.846''	6.3	91	112.1	-17.7	104.3	-20.5	0.5	132
2017/07/22 22:08:40	30387 KN16	5.2	17.44	3.75	117	0.7	36°50'57'' 51°02'11''	20	0.9	UCAC4 482-128467	13.73	21 ^h 24 ^m 46.311 ^s 6°13'25.767''	45.3	163	147.7	-19.7	143.8	-20.2	0.4	84
2017/07/22 23:21:06	17757 DG15	6.6	17.06	4.31	122	0.6	37°05'39'' 49°04'47''	152	1.2	UCAC4 420-123195	12.77	19 ^h 16 ^m 02.024 ^s -6°11'16.454''	24.8	223	161.0	-16.5	166.0	-15.8	0.3	99
2017/07/23 18:02:25	16410 QU2	6.9	17.42	5.26	197	0.9	38°17'59'' 51°16'26''	47	0.5	UNKNOWN UN-	12.17	18 ^h 14 ^m 04.350 ^s -28°55'24.561''	8.1	158	151.7	-5.2	146.8	-5.2	0.2	112
2017/07/23 19:52:09	6502 XR1	5.8	17.49	7.52	164	0.7	36°55'40'' 51°27'49''	16	0.4	UCAC4 462-729	9.97	0 ^h 31 ^m 40.027 ^s 2°16'18.636''	0.5	87	112.7	-16.2	118.5	-17.1	0.3	81
2017/07/23 20:17:06	37344 SS54	5.5	18.15	4.70	74	0.5	37°00'10'' 49°34'33''	136	1.3	UCAC4 514-106155	13.46	19 ^h 41 ^m 30.376 ^s 22°38'30.388''	51.3	159	146.5	-17.8	147.4	-19.1	0.3	142
2017/07/23 20:23:54	26471 Tracy-becker	6.9	15.35	1.73	33	0.7	36°06'50'' 49°46'26''	202	4.6	UCAC4 577-127620	13.87	22 ^h 26 ^m 30.235 ^s 25°19'02.941''	43.0	102	124.2	-18.2	129.7	-19.6	0.3	46
2017/07/23 22:24:09	2908 Shimoymaya	29.4	16.87	5.23	232	1.3	38°32'52'' 48°34'35''	135	2.8	UCAC4 563-4529	11.65	2 ^h 13 ^m 43.696 ^s 22°34'49.707''	23.9	83	82.3	-19.5	89.6	-23.2	0.4	178
2017/07/24 01:06:30	3151 Talbot	16.6	17.40	6.08	167	0.7	37°04'31'' 48°38'24''	160	2.3	UCAC4 540-6023	11.33	3 ^h 12 ^m 27.033 ^s 17°56'10.507''	37.1	107	70.5	-6.7	79.3	-13.6	0.6	216
2017/07/24 17:57:29	8400 Tomizo	8.7	16.27	3.63	38	0.8	36°43'54'' 49°52'10''	122	3.4	UCAC4 366-162171	12.68	19 ^h 07 ^m 20.699 ^s -16°51'20.668''	15.1	142	163.4	-4.8	145.8	1.1	2.5	93
2017/07/24 18:13:48	8084 Dallas	8.3	18.22	4.68	254	0.9	37°39'53'' 52°09'17''	23	0.5	UCAC4 327-116058	13.56	17 ^h 53 ^m 59.511 ^s -24°42'35.075''	14.0	165	146.8	-6.8	128.5	-1.3	2.5	140
2017/07/24 19:29:21	26081 PT1	7.6	17.28	4.03	107	0.7	37°20'22'' 50°44'18''	44	1.7	UCAC4 325-199461	13.27	19 ^h 09 ^m 31.766 ^s -25°03'59.531''	13.7	165	163.7	-14.6	144.7	-11.4	2.7	121
2017/07/24 19:46:43	1772 Gagarin	9.5	16.71	3.05	159	3.8	34°28'07'' 50°52'50''	306	1.4	UCAC4 332-89671	13.73	17 ^h 04 ^m 59.117 ^s -23°41'54.911''	14.4	198	135.6	-16.0	116.1	-13.5	2.9	130

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.				Table 1		Page 10		LinOccult 2.3.0			
		Asteroid			Nearest point			Star				Sun			Moon						
Date Time (UTC)	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Dist	Alt	Phase (%)	σ_{km}	
2017/07/24 20:58:02	3421 Yangchen-ning	5.8	18.27	4.45	193	0.7	34°14'38" 51°12'10"	311	0.4 2.2	UCAC4 366-67354	13.84	15 ^h 05 ^m 33.274 ^s −16°56'44.634"	0.9	242	106.8	-19.8	87.0	-20.7	3.0	105	
2017/07/24 21:31:18	50809 FF29	5.5	19.12	5.25	47	1.2	36°34'04" 49°39'43"	155	1.4 1.5	UCAC4 359-85406	13.88	17 ^h 11 ^m 18.688 ^s −18°21'49.846"	11.4	222	136.3	-20.4	116.2	-23.2	3.1	146	
2017/07/24 22:02:28	50850 FX46	6.6	17.73	4.31	91	0.9	35°22'35" 50°37'10"	314	1.6 2.0	UCAC4 313-140136	13.44	18 ^h 03 ^m 37.259 ^s −27°32'29.547"	5.2	214	148.6	-20.2	128.2	-24.9	3.2	129	
2017/07/24 22:24:10	7440 Zavist	6.6	18.08	4.55	40	0.6	36°07'08" 50°23'24"	343	2.2 2.3	UCAC4 389-92273	13.55	18 ^h 27 ^m 16.378 ^s −12°21'12.062"	19.3	220	152.7	-19.7	133.1	-25.7	3.2	114	
2017/07/24 22:50:26	35892 JV82	6.0	16.59	2.84	58	0.7	35°39'59" 50°23'22"	311	2.1 2.6	UCAC4 412-107061	13.83	19 ^h 04 ^m 46.397 ^s −7°47'38.588"	24.6	219	158.9	-18.7	141.2	-26.3	3.3	93	
2017/07/24 23:10:08	3799 Nov-gorod	12.0	16.18	2.95	14	1.4	36°09'54" 49°57'01"	219	4.6 4.6	UCAC4 345-178455	13.31	19 ^h 03 ^m 14.285 ^s −21°07'36.913"	10.3	218	162.7	-17.6	141.6	-26.4	3.4	104	
2017/07/24 23:58:03	1887 Virton	20.0	15.29	5.10	111	1.7	35°26'48" 49°12'28"	213	4.3 7.4	UCAC4 288-217286	10.20	19 ^h 54 ^m 08.118 ^s −32°34'36.395"	0.1	213	166.1	-14.1	148.6	-25.5	3.5	108	
2017/07/25 01:30:58	16420 UN1	5.5	18.04	5.10	199	0.5	36°51'17" 48°17'42"	168	0.4 1.9	UCAC4 421-88208	12.95	18 ^h 42 ^m 31.896 ^s −5°51'10.785"	1.0	260	153.1	-3.9	133.9	-19.6	3.8	115	
2017/07/25 17:21:53	11641 AP12	6.3	18.00	4.80	128	0.6	35°05'31" 49°12'09"	222	1.2 2.0	UCAC4 324-171763	13.22	18 ^h 29 ^m 31.568 ^s −25°15'07.604"	7.9	147	153.9	-0.3	123.0	12.0	7.2	124	
2017/07/25 17:53:52	7572 Znokai	6.0	16.69	4.27	88	0.7	35°27'07" 49°28'16"	223	1.6 3.4	UCAC4 316-214018	12.44	18 ^h 45 ^m 10.837 ^s −26°52'01.509"	7.8	151	157.0	-4.5	126.1	6.9	7.3	71	
2017/07/25 19:50:16	51952 QG226	7.2	17.89	5.10	244	0.9	36°52'10" 47°53'26"	170	0.3 2.5	UNKNOWN UN- KNOWN	12.80	22 ^h 02 ^m 19.355 ^s 1°13'47.355"	23.8	119	147.5	-16.5	166.4	-10.3	7.8	115	
2017/07/25 19:59:18	16650 Sakushin-gakuin	6.0	16.55	2.91	134	1.0	38°09'38" 49°59'24"	93	0.9 2.7	UCAC4 261-174494	13.71	18 ^h 31 ^m 08.003 ^s −37°54'52.990"	2.1	182	150.0	-17.1	120.3	-11.5	7.8	89	
2017/07/25 20:24:44	192938 AJ185	8.7	20.49	8.35	190	0.5	37°52'45" 48°41'29"	143	0.8 0.9	UCAC4 407-103582	12.14	18 ^h 59 ^m 13.182 ^s −8°41'07.465"	31.4	182	157.6	-18.6	127.9	-14.8	8.0	386	
2017/07/25 20:39:26	50109 AY113	5.8	17.26	3.52	131	0.6	37°49'56" 49°25'41"	122	1.1 1.9	UCAC4 399-80738	13.79	18 ^h 32 ^m 32.016 ^s −10°16'56.046"	29.0	193	152.4	-19.3	121.3	-16.6	8.0	118	
2017/07/25 21:17:44	4914 Pardina	15.8	15.37	2.13	182	1.4	36°15'52" 48°24'45"	180	1.1 6.5	UCAC4 413-129960	13.40	19 ^h 39 ^m 28.076 ^s −7°34'32.191"	32.4	185	164.5	-20.4	137.1	-21.0	8.2	97	
2017/07/25 22:09:38	80086 KJ7	5.0	18.89	5.15	106	0.9	36°07'33" 49°06'11"	186	1.0 1.2	UCAC4 313-118026	13.75	17 ^h 32 ^m 39.929 ^s −27°26'38.784"	1.1	222	140.8	-20.3	107.3	-25.7	8.5	167	
2017/07/25 22:23:38	1307 Cimmeria	11.7	15.97	3.30	104	2.0	37°03'45" 49°15'25"	148	2.6 5.4	UCAC4 356-115409	12.72	17 ^h 47 ^m 27.516 ^s −18°50'20.255"	8.7	226	143.9	-20.0	110.1	-26.8	8.5	87	
2017/07/25 22:25:21	226355 GR24	8.3	20.44	7.27	171	0.7	35°15'22" 51°26'26"	335	0.9 1.0	UCAC4 380-98397	13.17	17 ^h 55 ^m 14.514 ^s −14°03'48.748"	13.6	227	144.8	-19.9	111.6	-26.9	8.5	340	
2017/07/25 22:31:21	45659 EL84	6.3	18.11	4.20	163	0.6	37°32'25" 48°49'58"	146	0.9 2.0	UCAC4 389-99039	13.94	18 ^h 39 ^m 58.691 ^s −12°22'10.100"	19.4	220	154.8	-19.7	122.2	-27.3	8.5	124	
2017/07/25 22:50:30	4388 Jurgen-stock	6.9	18.00	4.81	91	1.1	36°26'11" 49°14'10"	173	1.8 2.5	UCAC4 482-62121	13.20	16 ^h 58 ^m 00.458 ^s 6°21'00.634"	18.8	257	123.8	-18.9	94.1	-28.4	8.6	111	

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.				Table 1		Page 11		LinOccult 2.3.0		
		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}
2017/07/25 23:19:40	6420 Rihei-jyaya	11.5	16.59	2.87	126	1.4	34°36'37" 49°41'49"	252	2.0	UCAC4 326-133397	13.80	18 ^h 15 ^m 20.177 ^s -24°56'27.925"	0.1	229	150.5	-17.2	116.3	-29.6	8.7	173
2017/07/26 01:28:28	7684 Mario-ferrero	8.3	16.72	3.23	193	0.8	34°50'06" 51°30'54"	328	0.4	UCAC4 359-202094	13.54	21 ^h 18 ^m 23.302 ^s -18°14'53.483"	12.1	221	166.5	-4.4	157.9	-27.5	9.3	93
2017/07/26 18:48:24	18650 1998 FX10	5.2	18.46	5.44	83	1.1	35°11'41" 49°48'02"	251	1.3	UCAC4 298-125414	13.03	17 ^h 24 ^m 19.863 ^s -30°29'55.610"	9.5	182	138.0	-11.1	94.4	3.1	14.4	137
2017/07/26 22:42:28	7631 Vokrouh-licky	5.5	17.35	3.59	117	0.5	35°17'50" 50°53'20"	323	1.0	UCAC4 351-168706	13.80	19 ^h 05 ^m 04.244 ^s -19°56'26.434"	13.4	214	161.2	-19.5	114.6	-28.3	15.7	83
2017/07/26 23:34:55	2162 Anhui	9.5	15.99	2.91	20	1.2	36°06'16" 49°54'28"	220	4.7	UCAC4 343-161108	13.16	18 ^h 34 ^m 54.504 ^s -21°28'09.923"	3.1	231	154.1	-16.4	107.0	-32.3	16.0	78
2017/07/27 01:05:47	19687 1999 RP199	7.6	17.88	4.62	206	1.1	38°58'40" 49°25'28"	110	0.5	UCAC4 511-908	13.27	0 ^h 34 ^m 58.856 ^s 12°05'55.390"	51.2	163	110.9	-7.4	156.6	-34.5	16.5	110
2017/07/27 17:35:42	5525 1991 TS4	7.2	16.10	4.20	244	2.0	39°38'37" 50°28'50"	79	0.0	UCAC4 277-104956	11.92	17 ^h 05 ^m 11.762 ^s -34°39'30.484"	4.9	171	132.7	-2.5	78.9	18.6	22.2	72
2017/07/27 21:25:56	26648 2000 LY7	5.5	18.28	6.36	20	0.6	36°00'17" 50°03'47"	275	1.9	UCAC4 549-890	11.92	0 ^h 25 ^m 58.361 ^s 19°36'18.032"	32.2	98	110.1	-21.0	158.3	-17.0	23.7	114
2017/07/27 22:08:53	8400 Tomizo	8.7	16.33	2.73	224	0.8	38°30'58" 48°39'18"	134	0.2	UCAC4 364-160688	13.69	19 ^h 04 ^m 34.446 ^s -17°16'28.974"	18.4	208	160.0	-20.8	101.7	-23.0	24.1	93
2017/07/27 22:25:33	15037 Chas-sagne	7.9	17.62	3.80	142	0.9	35°02'00" 51°02'26"	321	1.3	UCAC4 437-115227	13.86	22 ^h 00 ^m 31.544 ^s -2°42'02.213"	36.5	165	152.2	-20.4	145.6	-25.1	24.1	112
2017/07/28 00:02:41	646 Kastalia	10.0	15.98	2.32	21	0.7	35°59'52" 50°04'44"	280	5.4	UCAC4 531-2444	13.80	1 ^h 21 ^m 53.918 ^s 16°11'29.426"	44.7	125	99.8	-14.3	156.9	-35.2	24.7	70
2017/07/28 20:06:35	50647 2000 EN88	6.6	18.05	4.76	19	1.5	36°20'35" 49°53'00"	168	2.0	UCAC4 376-94787	13.30	17 ^h 43 ^m 24.650 ^s -14°58'35.672"	23.0	200	139.5	-18.2	70.5	-1.1	32.6	132
2017/07/28 20:15:18	1428 Mom-basa	56.6	14.19	1.57	171	5.1	34°04'37" 50°39'22"	293	4.9	UCAC4 347-161701	12.91	18 ^h 53 ^m 39.640 ^s -20°37'54.656"	19.4	183	156.7	-18.8	87.2	-2.5	32.6	96
2017/07/28 22:19:33	801 Helw-erthia	33.2	15.56	2.11	80	2.8	36°46'33" 49°24'15"	154	9.8	UCAC4 446-119156	13.62	19 ^h 42 ^m 40.132 ^s 0° - 52'55.181"	35.8	208	158.3	-20.8	99.0	-21.7	33.5	94
2017/07/28 22:26:31	21361 Carson-mark	5.2	18.00	6.25	185	0.7	37°34'20" 48°36'32"	150	0.4	UCAC4 378-108877	11.75	18 ^h 19 ^m 58.781 ^s -14°29'57.304"	14.6	225	148.0	-20.6	78.1	-22.7	33.5	103
2017/07/28 22:55:50	65811 1996 RW30	9.5	20.02	6.48	143	1.0	34°59'33" 51°02'13"	320	1.1	UCAC4 352-111291	13.55	17 ^h 48 ^m 47.461 ^s -19°37'53.326"	2.7	235	141.4	-19.3	70.6	-26.8	33.7	329
2017/07/28 23:03:39	77489 2001 HC35	5.2	17.77	6.33	216	0.5	36°59'30" 48°09'31"	167	0.3	UCAC4 426-121968	11.44	20 ^h 11 ^m 20.137 ^s -4°55'49.392"	30.7	211	165.2	-18.9	105.6	-27.9	33.7	114
2017/07/29 01:42:16	2957 Tatsuo	25.6	16.98	3.78	158	0.6	35°46'31" 51°25'32"	347	3.6	UCAC4 557-26722	13.23	6 ^h 22 ^m 00.107 ^s 21°22'41.511"	18.3	78	30.8	-3.1	103.0	-42.6	34.8	220
2017/07/29 18:04:50	757 Port-landia	32.1	14.01	3.66	48	3.9	36°29'16" 50°27'30"	17	13.1	UCAC4 270-176085	10.39	18 ^h 39 ^m 25.341 ^s -36°01'26.567"	1.3	160	149.0	-6.7	73.3	20.1	41.4	82
2017/07/29 19:44:50	5992 Nittler	5.8	17.60	8.83	203	0.5	36°45'01" 48°15'06"	171	0.0	UCAC4 407-123879	8.77	19 ^h 48 ^m 29.254 ^s -8°38'22.595"	29.6	161	164.8	-16.9	89.1	6.0	42.1	67

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}	
2017/07/29 20:01:35	32224 OK23	5.5	16.56	2.95	3	0.9	36°19'48'' 50°02'34''	100	2.6	UCAC4 335-202946	13.68	19 ^h 23 ^m 18.146 ^s -23°06'06.062''	16.7	174	162.4	-18.1	81.7	3.5	42.2	83	
2017/07/29 21:08:17	5095 Es-calante	8.8	15.70	4.24	193	1.1	38°32'48'' 49°06'60''	123	0.2	UCAC4 412-85659	11.49	18 ^h 45 ^m 37.853 ^s -7°37'09.380''	30.0	203	151.0	-21.2	72.9	-7.0	42.7	76	
2017/07/29 21:36:07	29823 DS3	5.8	17.81	6.31	251	1.1	38°56'38'' 48°36'16''	130	0.2	UCAC4 285-159339	11.51	18 ^h 07 ^m 23.068 ^s -33°07'12.096''	1.0	210	143.7	-21.5	64.6	-11.4	42.9	119	
2017/07/29 22:20:49	6045 RG9	5.8	15.96	2.46	39	1.9	35°57'32'' 50°19'36''	323	2.9	UCAC4 365-136908	13.62	18 ^h 31 ^m 59.035 ^s -17°04'10.019''	13.8	220	150.4	-21.0	68.4	-18.4	43.3	66	
2017/07/29 22:48:01	47074 XV95	6.0	18.53	7.46	39	0.5	36°34'36'' 49°45'00''	148	1.8	UCAC4 382-137186	11.07	19 ^h 06 ^m 27.476 ^s -13°38'30.688''	17.6	220	157.8	-19.9	76.8	-22.6	43.4	130	
2017/07/29 23:24:35	14936 BU2	8.3	15.92	5.57	97	0.8	36°28'17'' 50°54'52''	8	2.0	UCAC4 362-193810	10.35	20 ^h 15 ^m 09.709 ^s -17°41'05.528''	16.9	211	174.8	-17.8	92.6	-28.0	43.6	83	
2017/07/30 00:47:12	31722 JG61	6.6	17.92	4.70	187	0.6	38°20'01'' 49°00'58''	128	0.7	UCAC4 320-229188	13.23	21 ^h 32 ^m 33.637 ^s -26°07'06.356''	8.6	209	165.1	-10.1	107.6	-38.7	44.2	124	
2017/07/30 01:43:10	30219 GM126	6.6	17.05	3.69	245	1.0	37°11'37'' 52°10'10''	15	0.3	UCAC4 572-88951	13.40	19 ^h 34 ^m 08.733 ^s 24°22'26.295''	27.0	277	134.3	-3.2	87.0	-44.1	44.6	119	
2017/07/30 17:19:47	6806 Kaufmann	5.0	18.10	4.86	127	0.7	35°00'36'' 49°15'18''	226	0.9	UCAC4 305-229948	13.26	18 ^h 20 ^m 51.850 ^s -29°09'18.193''	6.4	154	146.6	-0.9	57.2	26.1	50.9	99	
2017/07/30 18:22:35	23126 AK95	15.1	18.43	5.96	174	1.0	35°45'18'' 48°31'40''	193	1.9	UCAC4 353-188542	12.47	20 ^h 41 ^m 49.934 ^s -19°33'50.194''	7.7	133	178.7	-9.0	88.9	20.0	51.3	256	
2017/07/30 19:47:15	33709 LK10	5.8	18.35	4.38	207	0.5	34°00'59'' 51°13'41''	309	0.5	UCAC4 387-107635	13.99	18 ^h 45 ^m 12.412 ^s -12°45'03.199''	27.3	180	151.8	-17.3	61.1	9.1	51.9	123	
2017/07/30 20:05:41	3721 Widorn	13.8	17.20	3.35	216	2.2	33°16'28'' 50°14'17''	276	1.2	UNKNOWN UN- KNOWN	13.90	17 ^h 25 ^m 31.596 ^s -30°29'34.033''	6.6	201	134.5	-18.6	44.5	6.5	52.0	140	
2017/07/30 20:15:35	38532 UQ24	5.8	17.60	4.50	4	0.7	36°19'17'' 50°01'22''	138	2.2	UCAC4 352-161084	13.12	19 ^h 00 ^m 12.611 ^s -19°45'19.611''	20.2	184	156.4	-19.2	64.1	5.1	52.1	104	
2017/07/30 21:05:32	34935 P-L	5.2	19.85	8.47	179	0.6	36°10'02'' 48°26'30''	183	0.7	UCAC4 470-1855	11.38	1 ^h 20 ^m 49.630 ^s 3°50'54.423''	10.1	96	107.5	-21.4	159.8	-2.5	52.5	157	
2017/07/30 22:52:15	29902 HM8	6.0	17.87	4.88	106	0.7	35°37'28'' 50°53'50''	333	1.4	UCAC4 423-85577	13.00	18 ^h 36 ^m 14.275 ^s -5°33'29.773''	20.3	233	147.1	-20.0	58.2	-19.3	53.2	110	
2017/07/30 23:05:27	54051 GL126	5.8	17.98	4.97	27	0.6	36°28'33'' 49°50'14''	150	2.0	UCAC4 450-93851	13.02	19 ^h 05 ^m 04.321 ^s 0° - 10'52.843''	26.9	233	150.3	-19.2	66.1	-21.3	53.3	114	
2017/07/30 23:38:35	9147 Kourakuen	6.3	16.58	3.89	110	0.9	35°17'05'' 50°47'51''	319	1.1	UCAC4 361-166348	12.72	18 ^h 44 ^m 16.568 ^s -17°59'05.488''	4.7	235	152.4	-17.0	58.6	-26.4	53.5	70	
2017/07/31 19:49:43	23795 QW32	5.0	18.38	4.92	207	0.6	38°32'30'' 48°54'09''	128	0.4	UCAC4 404-80719	13.47	18 ^h 36 ^m 33.777 ^s -9°19'20.115''	30.7	185	147.9	-17.8	47.6	12.0	61.5	133	
2017/07/31 19:49:52	955 Alstede	17.3	12.68	0.89	209	2.7	38°29'15'' 51°18'13''	48	0.0	UCAC4 302-272628	12.42	21 ^h 30 ^m 49.718 ^s -29°45'22.517''	3.0	147	164.1	-17.8	85.3	12.0	61.4	56	
2017/07/31 21:04:18	20187 Janapittichova	6.9	15.39	2.72	243	0.6	34°10'38'' 48°21'27''	219	0.0	UCAC4 514-134916	12.77	21 ^h 30 ^m 25.531 ^s 12°45'02.847''	49.3	148	147.0	-21.6	94.2	1.8	61.9	56	

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}
2017/07/31 22:35:11	13648 JJ1	1996	6.3	17.92	3.98	91	35°40'36'' 50°45'54''	331	1.6 2.0	UCAC4 399-94822	13.97	18 ^h 51 ^m 11.271 ^s −10°12'34.037''	19.6	224	151.5	−21.0	49.6	−12.0	62.6	123
2017/07/31 23:15:14	7271 Doroguntsov	6.9	17.41	3.56	125	0.7	35°24'42'' 51°01'18''	330	1.3 2.5	UCAC4 331-196395	13.89	19 ^h 22 ^m 39.852 ^s −23°52'52.676''	6.4	220	160.1	−18.9	55.8	−18.3	62.8	110
2017/07/31 23:27:24	601 Nerthus	73.3	14.02	0.87	243	7.0	37°40'58'' 48°04'04''	156	1.9 27.8	UCAC4 438-88712	13.79	19 ^h 01 ^m 15.597 ^s −2°33'47.508''	20.9	238	150.3	−18.0	53.3	−20.2	62.9	103