

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 2.1.1
Author: Plekhanov Andrey andyplekhanov@gmail.com
Events number: 181

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 1		LinOccult 2.1.1			
		Asteroid			Nearest point			Star			Sun			Moon						
Date Time (UTC)	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Dist	Alt	Dist	Alt	Phase (%)	σ_{km}	
2013/11/01 14:38:09	33726 NJ9	5.2	18.32	7.86	112	0.9	35°53'17" 51°01'27"	345	1.0 1.3	TYC 522600609	10.46 522600609	22 ^h 26 ^m 52.829 ^s −2°18'28.261"	27.6	134	118.2	−4.9	143.0	−15.1	4.6	156
2013/11/01 14:52:10	6371 Heinlein	14.5	18.11	4.99	30	0.6	36°06'16" 50°17'27"	334	1.8 1.8	UCAC2 23018221	13.13 23018221	19 ^h 36 ^m 18.500 ^s −22°24'50.309"	17.4	186	73.0	−7.0	97.6	−17.3	4.6	324
2013/11/01 14:59:37	33818 AK97	2000	17.84	7.33	17	0.7	36°23'25" 50°10'57"	26	2.0 2.0	TYC 635201661	10.51 635201661	20 ^h 54 ^m 27.657 ^s −20°09'50.668"	19.2	169	91.2	−8.2	115.6	−18.4	4.6	225
2013/11/01 15:16:57	3365 Recogne	11.5	16.68	4.72	221	0.9	36°36'27" 52°01'20"	6	1.0 3.1	UCAC2 28295919	11.97 28295919	21 ^h 43 ^m 27.600 ^s −10°00'10.501"	27.8	158	105.5	−11.0	130.0	−21.1	4.5	146
2013/11/01 15:18:10	1043 Beate	31.6	15.33	3.09	154	1.3	35°50'48" 51°23'59"	348	4.5 5.8	TYC 631600955	12.30 631600955	19 ^h 49 ^m 14.652 ^s −17°23'36.330"	22.2	190	76.9	−11.1	101.3	−21.3	4.5	218
2013/11/01 16:29:47	29861 FV36	1999	17.62	3.82	230	1.2	33°13'50" 49°26'06"	253	1.1 2.2	UCAC2 34761881	13.84 34761881	22 ^h 57 ^m 07.234 ^s 8°06'41.781"	45.2	152	128.2	−22.7	151.1	−31.8	4.3	193
2013/11/01 22:04:46	17661 VW7	1996	16.89	6.46	25	1.1	36°03'57" 49°52'17"	219	1.8 1.8	TYC 72802552	10.44 72802552	5 ^h 57 ^m 32.055 ^s 13°29'24.283"	40.9	123	129.4	−53.5	108.7	−41.0	3.3	114
2013/11/02 01:06:33	2020 Ukko	21.5	16.24	2.63	149	3.8	34°58'57" 49°00'28"	219	3.2 4.2	UCAC2 35372661	13.71 35372661	7 ^h 04 ^m 30.996 ^s 10°24'07.613"	49.4	162	112.8	−32.1	93.8	−16.0	2.8	205
2013/11/02 01:28:07	74520 FF35	1999	19.14	7.70	230	0.9	39°02'43" 49°01'15"	120	0.6 1.1	TYC 244201556	11.44 244201556	7 ^h 09 ^m 02.473 ^s 31°57'57.116"	71.3	160	114.5	−28.7	95.9	−12.7	2.8	200
2013/11/02 02:29:12	5339 1992 CD	11.5	17.51	5.15	171	4.6	36°42'04" 48°32'05"	170	1.6 2.6	UCAC2 40838630	12.37 40838630	6 ^h 49 ^m 23.769 ^s 25°48'04.584"	64.1	207	118.5	−19.0	100.0	−3.4	2.6	178
2013/11/02 02:51:25	2626 Belmika	15.8	16.58	3.08	5	2.9	36°15'15" 50°00'21"	207	3.8 3.8	UCAC2 40339842	13.56 40339842	7 ^h 18 ^m 33.185 ^s 24°03'37.567"	62.9	202	111.8	−15.4	93.5	−0.1	2.6	168
2013/11/02 03:00:46	34459 SC91	2000	17.42	6.15	37	0.5	36°27'18" 50°21'49"	19	2.1 2.1	TYC 139802126	11.28 139802126	8 ^h 37 ^m 29.130 ^s 22°06'40.497"	61.9	168	93.6	−13.9	75.5	1.3	2.5	155
2013/11/02 03:42:25	2291 Kevo	34.6	15.47	3.47	260	3.0	34°06'46" 51°56'45"	324	2.5 8.2	UCAC2 28137593	12.05 28137593	5 ^h 14 ^m 46.126 ^s −10°02'09.639"	13.4	236	132.1	−7.3	118.0	7.3	2.4	168
2013/11/02 20:47:03	6025 Naoto- sato	17.4	16.55	3.35	129	1.9	35°47'34" 51°09'43"	344	2.8 3.4	UCAC2 39481560	13.25 39481560	7 ^h 52 ^m 42.969 ^s 21°42'24.128"	17.8	77	104.4	−54.5	95.8	−52.7	0.6	201
2013/11/02 22:39:15	19869 4202 P- L	5.8	17.77	5.18	2	1.1	36°17'57" 50°03'53"	25	1.7 1.7	TYC 240101164	12.60 240101164	5 ^h 14 ^m 57.434 ^s 36°07'42.276"	70.0	126	138.0	−51.4	130.8	−46.4	0.5	135
2013/11/02 23:03:30	6079 Geroku- rat	12.6	17.76	4.57	246	2.4	38°17'12" 51°51'51"	35	1.2 2.4	UCAC2 45969222	13.21 45969222	6 ^h 20 ^m 51.535 ^s 40°57'23.506"	67.0	101	124.4	−49.0	117.5	−43.8	0.4	208
2013/11/03 00:02:51	47834 EN114	2000	15.26	5.23	249	0.5	32°52'33" 49°39'15"	260	0.1 2.5	TYC 333801021	10.03 333801021	3 ^h 55 ^m 11.500 ^s 51°31'41.175"	76.9	284	139.8	−41.7	135.5	−36.2	0.4	97
2013/11/03 01:52:03	24451 QS104	2000	16.76	4.72	106	1.7	35°41'13" 49°10'57"	204	3.5 3.6	UCAC2 40130766	12.05 40130766	2 ^h 40 ^m 30.274 ^s 23°30'11.333"	32.7	268	171.2	−25.2	167.4	−20.1	0.3	331
2013/11/03 02:50:03	11745 NH3	1999	15.98	4.63	14	1.0	36°07'55" 49°58'16"	232	3.0 3.0	TYC 471000301	11.36 471000301	3 ^h 07 ^m 34.809 ^s −4°24'01.321"	6.5	255	158.8	−15.8	157.4	−11.2	0.2	133
2013/11/03 04:22:41	24264 XL143	1999	18.19	6.20	16	0.8	36°05'30" 49°58'57"	243	1.4 1.4	TYC 75201113	12.00 75201113	6 ^h 56 ^m 47.148 ^s 10°36'36.195"	38.6	234	115.8	−1.4	111.3	2.4	0.2	152

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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}
2013/11/03 14:56:52	4038 Kristina	7.2	16.11	5.32	147	1.2	34°30'03" 50°42'35"	300	0.9	TYC	10.79	4 ^h 29 ^m 26.134 ^s 32°28'41.298"	6.3	45	148.7	-8.3	149.6	-7.4	0.0	97
2013/11/03 18:28:45	1785 Wurm	10.5	15.52	4.46	224	1.1	38°14'39" 48°29'24"	141	0.3	TYC	11.08	3 ^h 47 ^m 11.932 ^s 25°06'58.614"	38.0	95	160.5	-41.4	163.2	-39.8	0.1	101
2013/11/03 19:41:07	29848 1999 FL24	6.6	18.53	9.24	35	0.5	36°27'08" 49°45'02"	160	1.3	TYC	9.29	3 ^h 51 ^m 29.041 ^s 25°00'23.623"	48.6	111	159.7	-50.2	163.1	-49.0	0.1	197
2013/11/04 00:00:33	174 Phaedra	69.2	13.12	1.58	173	5.2	35°52'35" 48°30'55"	190	9.5	TYC	11.83	1 ^h 35 ^m 35.141 ^s 27°27'38.051"	42.4	263	161.3	-42.3	157.0	-46.4	0.3	153
2013/11/04 01:11:59	425 Cornelia	63.9	13.67	0.80	266	4.9	36°33'30" 52°25'51"	4	3.3	UCAC2	13.57	2 ^h 44 ^m 38.672 ^s 13°54'13.331"	31.9	252	177.6	-31.7	174.5	-36.9	0.4	144
2013/11/04 02:05:59	62993 2000 WL12	5.2	18.48	7.43	115	2.4	35°35'03" 50°58'47"	334	1.0	UCAC2	11.05	6 ^h 57 ^m 58.319 ^s 14°15'11.463"	54.0	191	117.1	-23.2	124.4	-28.9	0.4	161
2013/11/04 03:39:08	7291 Hyakutake	13.8	15.13	1.75	226	1.5	37°09'04" 51°59'59"	16	1.0	UCAC2	13.62	3 ^h 25 ^m 46.886 ^s 10°02'55.456"	12.1	271	167.0	-8.3	172.6	-14.6	0.5	136
2013/11/04 14:44:16	1173 Anchises	126.3	15.65	3.32	127	8.0	34°44'55" 50°38'04"	301	15.2	UCAC2	12.38	1 ^h 45 ^m 47.008 ^s 19°36'25.278"	18.0	81	166.7	-6.5	153.3	0.6	1.6	300
2013/11/04 21:56:25	345 Tercidina	94.1	12.93	0.65	78	7.0	35°59'56" 49°22'17"	195	24.5	UCAC2	13.14	8 ^h 06 ^m 23.319 ^s 9°21'31.721"	18.8	98	100.5	-54.8	119.0	-57.5	2.6	124
2013/11/05 01:53:26	3905 Doppler	10.5	14.71	1.39	77	1.4	35°29'43" 49°34'28"	227	3.1	UCAC2	13.67	2 ^h 21 ^m 32.909 ^s 40°26'01.972"	39.4	289	154.8	-25.4	148.5	-41.0	3.3	98
2013/11/05 02:34:05	3487 Edgeworth	11.0	18.26	4.39	236	0.5	34°45'18" 48°10'38"	208	1.1	UCAC2	13.89	9 ^h 41 ^m 18.694 ^s 2°04'55.921"	37.4	147	76.0	-18.9	97.1	-35.1	3.4	227
2013/11/05 15:46:11	62 Erato	95.4	15.17	2.32	265	2.4	35°12'41" 47°46'27"	197	8.6	UCAC2	12.98	17 ^h 16 ^m 22.547 ^s -21°59'23.062"	1.3	232	36.7	-16.6	8.5	-1.0	6.1	290
2013/11/05 16:05:51	46451 3050 P-L	5.8	17.50	8.21	126	0.5	34°52'47" 50°43'56"	307	1.1	TYC	9.29	2 ^h 37 ^m 35.325 ^s 29°45'10.064"	30.7	79	165.9	-19.7	149.8	-3.7	6.2	153
2013/11/05 16:14:08	53284 1999 FK47	6.6	16.58	6.72	165	2.4	35°35'26" 51°27'30"	342	0.7	TYC	9.87	23 ^h 18 ^m 45.489 ^s 5°27'15.774"	40.9	147	128.9	-21.1	100.1	-4.9	6.2	101
2013/11/05 18:46:38	87934 2000 SF347	7.2	17.12	5.68	172	0.7	34°02'39" 50°38'19"	292	1.0	UCAC2	11.45	0 ^h 31 ^m 48.682 ^s 38°09'54.317"	77.9	162	143.4	-44.3	121.6	-27.9	6.8	153
2013/11/05 21:41:17	31815 1999 RY111	7.6	17.47	5.80	205	0.6	37°03'55" 48°16'49"	164	0.8	UCAC2	11.67	3 ^h 01 ^m 28.750 ^s 35°23'13.792"	75.6	185	160.0	-55.7	149.9	-52.5	7.6	163
2013/11/05 22:26:43	11922 1992 UT3	5.8	16.19	4.44	17	1.1	36°21'16" 50°11'43'	16	2.7	UCAC2	11.77	4 ^h 32 ^m 57.499 ^s 21°40'36.700"	60.8	161	153.6	-53.3	173.5	-56.8	7.8	84
2013/11/06 01:13:11	27182 1999 CL3	11.0	16.75	3.02	205	1.2	36°29'01" 48°12'30"	176	1.2	UCAC2	13.80	4 ^h 43 ^m 26.952 ^s 9°33'51.707"	43.0	221	150.4	-32.0	168.7	-54.3	8.6	159
2013/11/06 02:22:13	29725 1999 AC25	6.3	19.15	8.76	70	2.4	36°16'53" 49°25'12"	180	1.2	TYC	10.39	6 ^h 31 ^m 20.594 ^s 20°47'57.469"	57.2	215	126.3	-21.0	160.8	-46.1	8.9	198
2013/11/06 22:58:05	11440 1975 SC2	11.0	16.98	3.12	200	0.8	37°18'52" 48°22'56"	158	1.3	UCAC2	13.92	2 ^h 42 ^m 21.216 ^s 8°15'16.489"	42.9	217	172.0	-50.7	130.4	-54.1	15.5	178

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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}
2013/11/07 14:42:38	27486 2000 GQ95	8.3	17.83	6.10	116	0.9	37°52'48" 49°50'49"	101	1.5	TYC	11.73	5 ^h 07 ^m 28.572 ^s 33°07'20.910"	2.9	38	144.9	-7.0	154.2	18.7	21.4	174
2013/11/07 17:12:53	589 Croatia	88.0	15.00	2.88	93	3.2	35°47'05" 50°48'57"	337	13.9	UCAC2	12.20	19 ^h 39 ^m 00.935 ^s -14°03'36.748"	14.0	227	69.1	-30.9	12.8	4.2	22.5	232
2013/11/07 17:12:53	589 Croatia	88.0	15.00	3.12	93	3.2	35°47'05" 50°48'57"	337	13.9	TYC	11.94	19 ^h 39 ^m 00.935 ^s -14°03'36.748"	14.0	227	69.1	-30.9	12.8	4.2	22.5	232
2013/11/07 18:16:31	3393 Stur	11.5	16.76	3.03	199	1.7	34°22'35" 51°21'52"	317	1.2	UCAC2	13.80	5 ^h 49 ^m 26.396 ^s 9°49'50.744"	7.6	84	136.2	-40.6	162.9	-4.3	22.9	146
2013/11/07 18:28:36	73961 1997 WP25	7.6	18.34	6.70	135	0.9	38°07'22" 50°20'44"	76	1.1	UCAC2	11.64	21 ^h 54 ^m 16.233 ^s 23°45'14.708"	54.0	235	110.6	-42.3	61.1	-6.1	23.0	226
2013/11/07 20:16:49	26606 2000 FH31	6.9	17.89	5.56	12	0.7	36°21'38" 49°56'49"	155	1.6	TYC	12.34	1 ^h 32 ^m 26.968 ^s -7°52'47.823"	32.1	185	148.7	-54.4	96.0	-22.3	23.7	171
2013/11/08 01:08:32	5647 1990 TZ	13.2	14.58	2.18	181	1.2	33°45'35" 49°58'18"	267	1.3	UCAC2	12.56	6 ^h 23 ^m 51.735 ^s 15°29'02.093"	55.5	188	129.4	-33.2	169.0	-57.3	25.8	115
2013/11/08 02:05:11	20210 1997 GQ7	12.0	15.72	2.91	187	1.4	33°49'29" 49°29'38"	251	1.3	TYC	12.89	5 ^h 17 ^m 37.647 ^s 32°12'56.814"	58.4	249	143.7	-24.2	150.5	-57.1	26.2	133
2013/11/08 02:05:11	20210 1997 GQ7	12.0	15.72	3.69	187	1.4	33°49'29" 49°29'38"	251	1.3	UCAC2	12.07	5 ^h 17 ^m 37.647 ^s 32°12'56.814"	58.4	249	143.7	-24.2	150.5	-57.1	26.2	133
2013/11/08 03:55:46	19353 Pier-rethierry	5.8	18.68	7.89	177	1.7	34°46'35" 48°47'31"	218	0.8	TYC	10.79	6 ^h 25 ^m 52.638 ^s 17°30'53.428"	41.0	246	129.3	-6.7	168.1	-47.6	27.0	169
2013/11/08 20:31:47	5320 Lisbeth	11.0	16.69	6.23	209	1.0	35°10'13" 51°47'25"	338	1.2	TYC	10.47	4 ^h 04 ^m 00.911 ^s 12°43'42.294"	46.1	138	163.0	-55.6	123.8	-13.9	34.4	159
2013/11/08 21:51:32	5445 Willi-waw	12.0	17.32	3.38	136	1.9	36°14'25" 48°49'39"	181	2.1	UCAC2	13.98	7 ^h 52 ^m 42.068 ^s 18°36'52.877"	29.7	96	109.9	-56.2	176.2	-26.1	35.1	169
2013/11/08 23:42:27	24390 2000 AD177	16.6	19.31	7.66	205	0.6	36°17'18" 51°53'17"	0	1.4	TYC	11.65	11 ^h 17 ^m 43.921 ^s 7°47'09.263"	6.5	86	59.4	-46.0	132.1	-42.1	35.9	435
2013/11/09 04:16:42	445 Edna	87.2	13.31	1.45	165	8.1	34°37'30" 49°01'36"	226	11.9	UCAC2	12.20	1 ^h 44 ^m 02.267 ^s 44°30'02.314"	16.7	321	148.3	-3.7	94.7	-49.0	38.1	126
2013/11/09 16:22:35	36414 2000 OE50	6.3	16.53	5.99	108	0.6	35°25'10" 50°50'57"	325	1.4	TYC	10.54	2 ^h 55 ^m 20.047 ^s 30°29'22.422"	33.5	81	166.4	-23.3	99.0	25.0	43.6	130
2013/11/09 18:25:25	12474 1997 CZ19	5.5	17.81	6.03	156	1.3	35°22'26" 51°19'22"	335	0.8	UCAC2	11.78	7 ^h 30 ^m 32.428 ^s 18°49'08.045"	1.7	62	115.9	-42.3	160.1	14.1	44.8	124
2013/11/09 23:25:27	3479 Mala-parte	17.4	17.11	5.16	192	2.7	33°56'08" 49°14'13"	242	2.1	TYC	11.96	7 ^h 22 ^m 29.987 ^s 7°14'10.228"	39.0	135	115.4	-48.4	155.6	-29.3	47.1	226
2013/11/10 02:22:23	2641 Lip-schutz	10.0	16.00	3.54	219	0.8	35°02'19" 48°15'17"	204	0.6	TYC	12.50	3 ^h 00 ^m 08.152 ^s 22°27'17.222"	25.7	275	174.6	-21.9	92.8	-49.3	48.5	121
2013/11/10 02:22:23	2641 Lip-schutz	10.0	16.00	3.73	219	0.8	35°02'19" 48°15'17"	204	0.6	UCAC2	12.30	3 ^h 00 ^m 08.152 ^s 22°27'17.222"	25.7	275	174.6	-21.9	92.8	-49.3	48.5	121
2013/11/10 02:55:13	27176 1999 BR3	6.6	16.93	6.32	73	0.7	35°57'19" 49°25'51"	199	1.9	TYC	10.61	8 ^h 11 ^m 42.664 ^s 30°58'24.074"	70.6	197	109.0	-16.6	156.2	-50.7	48.7	112

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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}
2013/11/10 03:51:05	509 Iolanda	53.0	13.58	0.60	173	6.3	38°27'07'' 49°22'33''	116	7.4	UCAC2 33909281	13.91	7 ^h 15 ^m 20.664 ^s 6°25'16.787''	37.8	226	117.1	-7.8	151.3	-50.7	49.2	166
2013/11/10 16:57:30	3799 Nov-gorod	13.2	16.96	6.48	157	0.9	37°28'24'' 48°52'02''	147	2.0	TYC 123200370	10.49	3 ^h 17 ^m 09.879 ^s 16°20'14.649''	26.2	96	176.6	-29.1	87.2	29.9	55.3	188
2013/11/10 22:59:20	28764 HS13	6.6	18.91	8.00	117	0.8	35°26'32'' 50°57'21''	329	1.1	TYC 131700341	10.91	6 ^h 07 ^m 01.275 ^s 18°26'54.737''	54.7	145	136.6	-51.6	124.2	-14.3	58.1	195
2013/11/11 00:51:43	20494 PM1	5.8	18.15	9.36	199	0.8	38°56'23'' 50°38'05''	71	0.4	TYC 134501119	8.79	7 ^h 04 ^m 36.501 ^s 15°49'54.013''	55.6	169	122.7	-36.5	137.1	-30.7	58.9	112
2013/11/11 01:53:29	2322 Kitt Peak	16.0	15.58	2.59	52	1.8	36°22'00'' 50°30'29''	6	5.8	UCAC2 36050695	13.10	2 ^h 21 ^m 44.123 ^s 12°00'09.735''	15.9	270	168.3	-26.8	67.9	-38.3	59.5	95
2013/11/11 02:02:16	277 Elvira	27.2	14.57	1.12	250	20.1	36°48'51'' 47°49'42''	171	1.8	UCAC2 39650696	13.94	6 ^h 51 ^m 07.864 ^s 22°02'57.579''	60.0	207	126.8	-25.3	132.1	-39.3	59.6	151
2013/11/11 02:35:15	2190 Coutbertin	18.0	17.62	4.25	5	8.0	36°15'59'' 50°00'32''	199	4.3	UCAC2 39476927	13.39	7 ^h 23 ^m 52.394 ^s 21°53'58.675''	59.8	207	119.3	-20.0	139.4	-42.4	59.7	168
2013/11/11 18:30:18	53418 PY3	15.1	19.08	7.10	251	1.0	36°00'55'' 52°17'32''	356	1.1	UCAC2 25911503	11.98	2 ^h 32 ^m 12.229 ^s -15°54'04.874''	18.0	146	145.4	-43.4	59.3	31.6	66.8	474
2013/11/12 00:36:49	26405 XS15	10.0	16.99	3.67	251	1.2	33°31'44'' 51°28'18''	309	0.8	UCAC2 27221894	13.36	1 ^h 31 ^m 29.163 ^s -12°30'22.737''	0.5	250	141.5	-39.0	41.4	-17.9	69.5	172
2013/11/12 01:00:27	22332 DD8	5.2	18.12	6.25	115	0.6	36°07'58'' 51°04'39''	355	1.0	UCAC2 40145722	11.88	5 ^h 16 ^m 20.047 ^s 23°36'42.462''	58.0	224	149.6	-35.4	97.3	-21.3	69.6	148
2013/11/12 14:12:00	204 Kallisto	48.6	13.75	2.92	161	1.0	37°11'55'' 48°43'57''	156	6.8	UCAC2 25342391	10.91	17 ^h 08 ^m 36.556 ^s -17°26'30.573''	12.3	223	28.0	-3.3	92.0	25.2	75.0	215
2013/11/12 19:17:53	12688 Baekeland	7.2	18.86	7.42	121	0.9	35°40'08'' 49°02'09''	201	1.2	TYC 139500896	11.44	8 ^h 37 ^m 04.092 ^s 19°09'32.863''	1.7	62	103.7	-49.9	133.5	36.0	77.0	197
2013/11/12 20:53:32	42283 SQ316	6.6	16.30	5.85	87	1.6	36°43'33'' 49°19'24''	159	1.7	TYC 174200496	10.45	0 ^h 46 ^m 39.555 ^s 25°46'39.422''	56.6	235	145.4	-57.6	30.7	25.8	77.6	117
2013/11/12 22:51:53	1764 Cogshall	26.2	16.40	2.55	157	1.9	35°53'37'' 51°25'54''	350	3.9	UCAC2 38201986	13.96	4 ^h 22 ^m 44.790 ^s 18°26'03.520''	58.3	190	163.3	-52.9	72.3	9.0	78.3	188
2013/11/12 23:47:59	1393 Sofala	13.2	16.00	3.98	109	1.4	36°22'15'' 51°01'21''	3	2.8	TYC 2700914	12.05	1 ^h 27 ^m 33.043 ^s 5°12'47.965''	20.8	253	151.4	-46.2	27.6	0.4	78.7	132
2013/11/13 00:06:07	76812 QQ84	12.6	19.01	5.60	147	1.6	36°33'56'' 51°21'35''	8	1.2	UCAC2 38187218	13.41	23 ^h 54 ^m 47.499 ^s 17°54'08.589''	12.8	283	133.1	-43.7	16.9	-2.4	78.8	381
2013/11/13 17:14:31	2976 Lautaro	38.4	16.42	2.59	221	1.9	35°51'08'' 52°00'35''	352	4.1	UCAC2 29017978	13.93	21 ^h 05 ^m 03.897 ^s -8°24'46.314''	25.5	215	84.9	-32.3	48.9	42.9	84.6	253
2013/11/13 19:13:32	7400 Lenau	7.9	17.23	5.26	120	0.9	35°25'33'' 50°58'17''	329	1.5	UCAC2 34392945	11.97	1 ^h 41 ^m 31.462 ^s 7°57'23.731''	47.6	169	154.9	-49.6	20.8	43.8	85.3	154
2013/11/14 01:24:32	2052 Tamriko	30.4	16.30	5.52	196	1.1	37°27'12'' 51°39'04''	25	3.6	TYC 491300922	10.79	10 ^h 49 ^m 31.059 ^s -1°20'51.604''	22.5	122	67.6	-32.0	154.1	-3.6	87.2	242
2013/11/14 15:16:31	8327 Weihenmayer	5.8	18.48	7.56	3	0.6	36°14'43'' 50°03'38''	296	1.4	TYC 61300354	10.92	1 ^h 16 ^m 54.337 ^s 7°48'10.011''	25.1	109	148.5	-13.6	4.2	28.1	90.9	161

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 5		LinOccult 2.1.1			
		Asteroid			Nearest point			Star			Sun			Moon						
Date Time (UTC)	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Dist	Alt	Phase (%)	σ_{km}
2013/11/14 19:36:38	41314 1999 XN168	7.6	17.88	9.23	146	0.7	36°56'07'' 48°48'05''	162	1.1	HIP	8.65	5 ^h 17 ^m 32.362 ^s 33°07'28.578''	46.8	92	149.8	-52.5	61.7	48.9	92.0	102
2013/11/14 19:50:24	33717 1999 LS26	11.5	16.88	3.49	179	1.2	38°33'45'' 49°23'20''	114	1.5	UCAC2	13.43	8 ^h 28 ^m 16.329 ^s 22°55'27.774''	11.8	68	108.6	-53.9	104.0	48.4	92.1	204
2013/11/14 23:34:39	83899 2001 UF152	5.8	18.85	6.60	77	0.7	35°49'52'' 49°25'18''	205	1.0	TYC	12.26	5 ^h 58 ^m 27.563 ^s 25°28'33.248''	65.3	168	142.9	-48.5	68.0	23.6	92.9	215
2013/11/15 14:56:31	1001 Gaussia	74.7	16.10	3.63	184	1.8	35°18'23'' 51°34'54''	338	8.1	UCAC2	12.51	17 ^h 34 ^m 41.633 ^s -21°34'09.817''	5.2	227	30.9	-10.6	125.7	20.6	95.9	308
2013/11/15 15:06:05	136076 2003 AC8	5.2	18.20	7.57	28	0.5	36°10'09'' 50°17'10''	342	1.1	TYC	10.63	5 ^h 43 ^m 44.966 ^s 38°03'20.592''	9.1	39	143.8	-12.1	57.8	22.1	95.9	192
2013/11/15 15:17:22	51369 2000 WD158	7.9	16.52	6.22	241	0.7	35°41'37'' 52°10'46''	350	0.5	TYC	10.30	2 ^h 50 ^m 14.890 ^s 6°40'16.781''	10.2	92	165.6	-13.9	15.7	23.9	96.0	141
2013/11/15 19:00:48	1748 Mauderli	24.5	15.87	2.32	86	2.3	36°42'46'' 49°19'38''	159	4.5	UCAC2	13.68	2 ^h 01 ^m 11.434 ^s 7°32'06.704''	46.2	160	157.0	-48.4	5.1	51.3	96.6	196
2013/11/15 19:23:26	45822 2000 QQ116	12.6	18.29	5.17	230	0.8	35°15'54'' 52°00'34''	342	1.1	UCAC2	13.13	3 ^h 39 ^m 34.198 ^s 13°45'55.551''	45.2	132	173.9	-51.2	24.4	52.3	96.6	371
2013/11/15 22:06:48	25660 2000 AO88	6.0	17.74	5.83	168	0.7	36°45'34'' 48°34'08''	168	0.8	UCAC2	11.92	5 ^h 53 ^m 53.006 ^s 14°44'50.325''	49.3	141	144.1	-57.3	55.4	45.0	97.0	129
2013/11/16 04:15:03	53101 1999 AY	7.2	17.84	7.51	98	0.6	37°27'45'' 50°30'36''	59	1.4	TYC	10.33	2 ^h 35 ^m 02.254 ^s 28°09'00.710''	6.1	308	165.0	-5.6	14.8	-7.9	97.9	185
2013/11/16 14:17:46	51222 2000 JF24	6.3	18.20	7.22	192	0.7	38°20'43'' 48°57'04''	130	0.8	TYC	10.98	5 ^h 32 ^m 14.990 ^s 35°42'02.535''	3.9	34	147.7	-4.9	43.7	9.3	98.9	172
2013/11/16 14:29:45	6423 Harunasan	11.5	16.21	2.74	110	1.3	34°59'15'' 50°34'46''	303	2.4	UCAC2	13.57	5 ^h 13 ^m 50.358 ^s 40°14'23.847''	10.7	37	148.6	-6.7	41.9	11.2	98.9	140
2013/11/16 15:10:12	762 Pulcova	137.1	14.72	1.29	130	4.7	35°13'39'' 50°59'59''	324	18.1	UCAC2	13.83	19 ^h 52 ^m 53.487 ^s -19°47'08.985''	17.7	201	62.2	-12.9	106.3	17.5	99.0	266
2013/11/16 16:00:10	10143 Kamo-gawa	12.6	16.61	4.13	242	1.0	33°07'19'' 50°52'22''	292	1.1	UCAC2	12.50	2 ^h 23 ^m 25.052 ^s 44°47'56.454''	47.9	72	150.7	-20.9	29.9	25.4	99.1	175
2013/11/17 01:33:29	3155 Lee	12.0	15.05	2.13	67	1.9	36°58'53'' 50°27'27''	47	3.8	UCAC2	13.09	5 ^h 39 ^m 25.146 ^s 32°00'17.710''	60.9	244	148.0	-31.3	38.6	25.2	99.7	102
2013/11/17 03:38:27	1449 Virtanen	12.6	16.61	2.94	64	1.3	36°06'35'' 49°29'01''	191	3.2	UCAC2	13.75	8 ^h 51 ^m 31.133 ^s 17°06'18.923''	55.3	205	104.2	-11.3	81.3	6.2	99.8	143
2013/11/17 04:27:35	265 Anna	23.7	16.75	4.59	32	1.5	36°43'31'' 49°59'42''	101	5.0	UCAC2	12.18	1 ^h 57 ^m 25.835 ^s 50°14'43.187''	18.8	329	143.7	-3.9	36.8	-0.8	99.8	185
2013/11/17 15:04:29	726 Joella	43.6	15.21	2.21	158	1.0	35°10'21'' 51°16'58''	330	6.5	UCAC2	13.15	18 ^h 31 ^m 28.990 ^s -13°25'21.816''	17.0	222	43.4	-12.2	136.8	10.8	100.0	184
2013/11/17 18:56:05	2104 Toronto	38.0	16.06	3.97	240	1.3	36°02'56'' 47°53'53''	184	3.7	UCAC2	12.12	19 ^h 48 ^m 09.437 ^s -6°07'27.101''	1.5	259	63.4	-48.1	118.7	45.9	100.0	283
2013/11/17 19:38:26	4552 Nabelek	6.3	17.98	7.35	168	1.5	34°53'57'' 51°16'23''	324	0.9	TYC	10.63	8 ^h 25 ^m 53.726 ^s 21°59'07.825''	11.4	69	111.9	-53.3	66.0	51.0	99.9	136

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 6		LinOccult 2.1.1			
		Asteroid			Nearest point			Star			Sun			Moon						
Date Time (UTC)	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Dist	Alt	Phase (%)	σ_{km}
2013/11/17 19:40:33	11082 Spilliaert	10.5	17.68	3.86	177	0.9	36°41'21" 48°28'54"	171	1.4	UCAC2 40476900	13.85	5 ^h 21 ^m 19.233 ^s 24°46'10.833"	43.0	103	154.1	-53.5	24.0	51.3	99.9	189
2013/11/17 20:31:26	80003 1999 FW50	5.0	20.04	8.65	98	0.6	36°09'03" 49°10'01"	186	0.8	TYC 81401313	11.39	9 ^h 00 ^m 01.154 ^s 12°10'05.457"	6.9	79	101.5	-57.8	75.7	55.9	99.9	229
2013/11/17 21:46:22	2834 Christy Carol	15.1	14.98	1.96	22	2.9	36°33'05" 49°57'03"	120	5.2	UCAC2 37323224	13.21	5 ^h 59 ^m 06.798 ^s 15°42'05.387"	48.2	134	145.0	-58.8	31.6	58.0	99.9	114
2013/11/17 22:01:42	4156 Okadanoboru	12.0	15.73	2.89	11	2.1	36°16'50" 50°08'32"	358	3.7	UCAC2 41477883	12.92	0 ^h 27 ^m 57.361 ^s 27°44'54.264"	42.0	264	137.0	-58.1	46.8	57.7	99.9	128
2013/11/17 23:45:33	28192 1998 WE24	9.1	16.70	4.53	19	0.9	36°21'36" 50°12'30"	16	2.4	TYC 176300946	12.19	1 ^h 54 ^m 28.540 ^s 29°17'24.946"	40.2	269	155.4	-47.7	29.0	49.2	99.8	149
2013/11/18 01:48:51	14439 1992 RE2	6.0	17.58	5.82	11	0.6	36°20'21" 50°08'28"	20	1.7	UCAC2 40472620	11.77	4 ^h 56 ^m 46.077 ^s 24°31'55.880"	46.2	252	160.0	-29.0	15.5	31.9	99.8	141
2013/11/18 02:47:50	1201 Strenua	34.9	16.98	4.20	146	0.8	36°22'54" 48°44'01"	177	4.4	UCAC2 28026555	12.81	13 ^h 37 ^m 30.460 ^s -10°48'37.013"	4.9	113	29.2	-19.5	145.2	22.8	99.7	271
2013/11/18 14:51:57	523 Ada	31.9	16.26	2.42	70	0.8	36°19'24" 49°24'57"	178	4.3	UCAC2 23208122	13.97	18 ^h 23 ^m 35.812 ^s -21°48'58.755"	9.5	218	39.3	-10.4	151.9	2.9	99.0	291
2013/11/18 15:12:38	117446 2005 AV45	10.5	19.76	8.28	62	0.6	36°43'52" 49°33'56"	149	0.9	UCAC2 34956325	11.48	2 ^h 49 ^m 10.572 ^s 9°10'19.064"	13.4	92	164.9	-13.6	25.1	5.8	99.0	447
2013/11/18 15:24:24	88 Thisbe	200.6	12.15	2.38	193	4.6	34°14'58" 51°12'33"	312	24.8	TYC 627701009	9.89	18 ^h 23 ^m 14.745 ^s -22°20'25.409"	5.5	225	39.1	-15.4	152.2	7.6	99.0	208
2013/11/18 18:55:01	3327 Campins	15.1	17.29	3.52	236	0.7	34°47'22" 51°57'04"	333	1.5	UCAC2 25443676	13.81	21 ^h 22 ^m 05.950 ^s -17°03'21.742"	6.1	234	81.2	-48.1	111.7	39.8	98.7	220
2013/11/18 20:28:07	19516 1998 QF80	7.6	17.20	6.62	233	1.8	38°18'30" 48°25'37"	141	0.4	TYC 192101387	10.58	7 ^h 16 ^m 57.137 ^s 29°36'43.937"	36.1	85	129.3	-57.8	38.0	52.2	98.5	123
2013/11/19 03:06:21	895 Helio	141.9	14.28	2.89	223	4.0	38°16'13" 51°36'37"	39	15.2	UCAC2 22700318	11.47	11 ^h 46 ^m 21.028 ^s -22°59'48.173"	10.6	147	53.7	-16.8	109.8	28.4	97.8	251
2013/11/19 04:05:02	1632 Siebohme	26.7	16.49	3.02	56	7.4	36°04'36" 50°32'09"	345	6.0	UCAC2 36987558	13.54	7 ^h 21 ^m 12.748 ^s 14°46'08.319"	39.2	243	126.7	-7.7	35.6	19.3	97.6	169
2013/11/19 16:14:24	977 Philippa	65.7	14.35	1.67	154	5.5	36°57'53" 48°44'23"	162	10.3	UCAC2 39624707	12.94	5 ^h 22 ^m 31.382 ^s 22°22'44.976"	9.7	67	155.9	-23.6	3.1	8.1	96.0	155
2013/11/19 20:08:19	18056 1999 TV15	5.8	17.34	5.40	194	0.6	34°59'29" 51°35'10"	332	0.5	UCAC2 37494064	11.95	5 ^h 33 ^m 28.769 ^s 16°26'54.295"	40.3	115	153.1	-56.6	3.4	43.6	95.4	114
2013/11/19 20:08:20	10623 1997 YP7	10.0	17.89	6.27	183	1.2	36°48'52" 48°26'19"	168	1.3	UCAC2 41691926	11.63	6 ^h 34 ^m 03.658 ^s 28°20'28.605"	39.6	92	139.7	-56.6	17.8	43.6	95.4	188
2013/11/19 21:16:21	1112 Polonia	35.8	14.02	1.82	203	3.4	35°20'02" 51°46'26"	340	3.3	UCAC2 43578368	12.43	4 ^h 31 ^m 57.028 ^s 33°35'41.984"	71.0	144	161.9	-59.7	19.1	52.4	95.2	132
2013/11/19 21:22:07	31227 1998 BC41	12.6	16.41	2.82	226	0.9	35°10'17" 51°56'54"	339	1.3	UCAC2 44445015	13.67	4 ^h 21 ^m 01.008 ^s 36°28'05.135"	75.1	150	160.9	-59.7	22.7	53.1	95.1	231
2013/11/19 21:33:22	23004 1999 VH114	5.0	17.83	6.54	37	0.9	36°25'23" 50°22'12"	15	1.3	TYC 174001535	11.30	1 ^h 02 ^m 26.015 ^s 22°50'32.291"	47.0	247	143.0	-59.6	62.0	54.2	95.1	147

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 7		LinOccult 2.1.1			
		Asteroid			Nearest point			Star			Sun			Moon						
Date Time (UTC)	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Dist	Alt	Phase (%)	σ_{km}
2013/11/20 00:06:07	42573 1997 AN1	5.5	17.93	6.53	209	0.6	36°02'11" 48°10'28"	185	0.5	TYC 240200395	11.40	5 ^h 19 ^m 42.290 ^s 36°46'47.029"	72.1	229	152.5	-45.3	17.7	57.9	94.7	146
2013/11/20 01:34:01	13391 1999 JF37	10.0	18.12	6.52	254	0.6	34°32'11" 48°04'34"	210	0.9	TYC 24001947	11.60	9 ^h 54 ^m 22.884 ^s 3°35'24.931"	37.4	142	88.2	-31.8	64.3	49.1	94.4	205
2013/11/20 04:44:35	3385 Bron-nina	12.0	16.85	4.35	234	0.6	38°23'23" 51°40'24"	40	1.0	UCAC2 33044067	12.52	10 ^h 13 ^m 51.270 ^s 3°46'46.949"	42.6	198	83.9	-2.2	67.2	20.8	93.8	154
2013/11/20 14:47:16	7235 Hitsuzan	5.0	16.37	4.47	237	1.0	33°39'40" 51°23'01"	308	0.0	UCAC2 43244816	11.92	5 ^h 48 ^m 11.292 ^s 32°49'36.648"	4.2	41	149.4	-10.0	14.3	-9.8	91.8	80
2013/11/20 18:37:14	114395 2002 YQ8	5.2	18.17	6.80	132	0.6	36°13'24" 51°13'46"	358	0.8	UCAC2 36430952	11.38	6 ^h 14 ^m 57.717 ^s 13°03'39.256"	17.6	90	143.4	-46.0	6.0	22.1	90.9	222
2013/11/20 19:29:48	3001 Michelan-gelo	13.8	14.93	1.89	161	1.4	38°00'57" 49°07'37"	130	1.7	UCAC2 47265875	13.26	2 ^h 31 ^m 42.212 ^s 45°38'38.267"	82.6	122	150.0	-52.9	53.1	30.2	90.7	109
2013/11/20 23:59:43	31967 2000 HW4	10.0	18.08	4.58	207	0.6	37°45'09" 51°39'49"	30	1.2	UCAC2 46102229	13.51	4 ^h 34 ^m 08.185 ^s 41°25'50.780"	69.0	257	156.0	-46.4	32.8	59.0	89.6	208
2013/11/21 00:56:40	4709 En-nomos	80.8	15.43	2.64	237	4.3	36°07'31" 47°55'24"	183	7.7	UCAC2 41661590	12.89	3 ^h 31 ^m 38.476 ^s 28°16'34.474"	41.8	266	170.9	-37.9	41.2	57.0	89.4	318
2013/11/21 17:12:46	43812 RJ29	10.5	17.61	8.96	57	0.6	36°31'57" 49°33'44"	162	2.9	HIP 107101	8.65	21 ^h 41 ^m 38.807 ^s -1°55'55.547"	32.2	216	87.7	-33.2	137.6	1.4	85.2	132
2013/11/21 17:12:54	10030 Philkeenan	6.9	18.17	5.81	163	0.6	37°36'29" 48°51'55"	144	1.0	TYC 524100433	12.36	22 ^h 55 ^m 36.257 ^s -6°27'45.044"	32.8	194	103.3	-33.2	121.8	1.4	85.2	184
2013/11/21 21:05:21	16138 1999 XV119	6.6	17.92	6.45	127	0.5	36°12'15" 51°11'29"	357	1.2	UCAC2 42367496	11.47	4 ^h 51 ^m 46.245 ^s 30°04'54.552"	65.5	137	162.6	-60.0	33.7	36.5	84.1	166
2013/11/21 21:09:07	4805 Aster-opaios	33.1	16.97	6.41	165	3.5	37°24'58" 48°45'28"	151	3.8	UCAC2 38549687	10.56	0 ^h 42 ^m 28.576 ^s 19°29'42.236"	43.9	245	136.2	-60.1	90.3	37.1	84.0	293
2013/11/21 21:17:28	51238 2000 JT34	7.2	17.38	8.58	145	0.9	37°26'34" 48°59'16"	145	1.2	HIP 8532	8.81	1 ^h 50 ^m 01.120 ^s 14°13'33.483"	47.2	224	151.0	-60.2	76.4	38.3	83.9	130
2013/11/21 22:13:04	8160 1990 MG	5.5	16.78	5.06	113	0.9	36°16'09" 49°02'11"	181	1.2	TYC 63001023	11.73	2 ^h 06 ^m 24.147 ^s 8°06'27.809"	37.2	231	152.4	-58.4	74.6	46.0	83.7	106
2013/11/22 00:44:49	47456 1999 XZ231	5.8	15.85	4.60	173	0.8	37°53'21" 51°13'11"	41	0.5	UCAC2 46239623	11.27	3 ^h 41 ^m 32.940 ^s 41°40'56.246"	52.8	278	158.2	-39.9	51.8	57.4	82.9	97
2013/11/22 00:53:08	17196 Mas-trodemos	5.8	18.11	6.62	125	0.5	36°32'35" 48°56'29"	172	1.1	UCAC2 36593803	11.49	5 ^h 28 ^m 25.287 ^s 13°55'41.983"	47.2	223	155.7	-38.7	26.4	57.4	82.9	158
2013/11/22 01:13:04	9297 Marchuk	12.0	17.76	4.46	73	0.6	35°40'57" 49°31'17"	216	1.7	UCAC2 30536512	13.32	10 ^h 23 ^m 19.950 ^s -3°39'06.322"	26.3	134	80.9	-35.5	50.3	57.0	82.8	266
2013/11/22 19:27:18	8347 Lallaward	6.3	17.30	5.19	231	0.5	34°54'15" 51°56'00"	335	0.4	TYC 183000886	12.12	4 ^h 38 ^m 12.895 ^s 23°37'25.957"	49.7	116	169.0	-52.9	46.7	12.8	77.1	131
2013/11/22 21:24:20	545 Messalina	111.3	14.65	1.40	236	13.2	35°53'45" 52°09'06"	353	11.2	UCAC2 44124928	13.60	7 ^h 06 ^m 23.083 ^s 35°02'05.631"	52.9	95	135.3	-60.4	22.9	30.8	76.5	201
2013/11/22 22:21:04	2046 Leningrad	27.3	15.22	2.02	39	2.3	36°18'55" 49°41'43"	177	7.4	UCAC2 38920866	13.39	4 ^h 06 ^m 44.248 ^s 20°02'10.369"	58.8	202	176.9	-58.1	55.6	39.1	76.2	142

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 8		LinOccult 2.1.1			
		Asteroid			Nearest point			Star			Sun			Moon						
Date Time (UTC)	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Dist	Alt	Phase (%)	σ_{km}
2013/11/22 22:42:01	32259 2000 OT53	13.8	17.55	5.62	218	2.8	39°15'55" 50°29'11"	77	1.2	UCAC2 37888903	11.93	8 ^h 04 ^m 48.728 ^s 17°18'50.699"	43.1	119	120.9	-56.3	2.3	41.9	76.0	383
2013/11/22 22:53:04	109240 2001 QD98	5.0	18.84	7.12	128	0.8	35°26'55" 51°04'01"	332	0.9	UCAC2 34998619	11.72	6 ^h 55 ^m 10.593 ^s 9°10'57.430"	45.4	148	134.9	-55.2	17.2	43.3	76.0	176
2013/11/22 23:10:02	27198 1999 CR66	5.8	18.15	6.18	212	0.6	35°41'04" 51°54'56"	348	0.6	UCAC2 32308085	11.98	2 ^h 46 ^m 28.118 ^s 1°58'27.665"	29.2	233	155.4	-53.3	78.8	45.5	75.9	187
2013/11/23 00:50:47	3265 Fletcher	9.1	15.54	4.28	15	1.0	36°23'51" 50°09'51"	31	3.8	TYC 129401219	11.28	5 ^h 08 ^m 09.026 ^s 22°21'31.013"	51.7	237	162.7	-39.2	42.4	54.2	75.3	95
2013/11/23 03:22:38	2638 Gadolin	15.1	14.98	3.80	148	1.6	36°25'28" 48°43'07"	176	2.3	UCAC2 38574173	11.21	5 ^h 42 ^m 09.160 ^s 19°18'45.212"	31.6	263	154.7	-15.0	35.7	48.7	74.4	120
2013/11/23 21:00:02	15839 1995 JH1	5.5	18.63	8.75	111	0.7	35°59'22" 51°01'36"	349	1.0	TYC 62301074	9.88	1 ^h 59 ^m 08.619 ^s 8°53'43.056"	44.3	215	149.2	-60.3	99.1	18.0	68.2	178
2013/11/24 02:55:53	196364 2003 FX110	10.0	20.59	7.73	59	0.6	36°49'19" 50°26'47"	41	0.8	UCAC2 33223782	12.86	10 ^h 42 ^m 21.836 ^s 4°03'41.239"	42.0	157	81.3	-19.5	27.3	51.2	66.0	529
2013/11/24 14:39:36	3109 Machin	22.9	16.95	4.84	227	0.5	33°06'31" 50°00'07"	269	2.4	UCAC2 20013646	12.12	18 ^h 40 ^m 46.703 ^s -28°34'13.352"	3.9	214	37.0	-9.3	138.6	-29.9	61.6	237
2013/11/24 15:14:20	5294 Onnetoh	13.8	17.17	3.36	249	1.0	39°37'40" 49°27'38"	105	1.3	UCAC2 22600722	13.86	22 ^h 59 ^m 51.053 ^s -23°04'26.724"	15.6	164	94.6	-14.6	152.9	-29.5	61.4	199
2013/11/24 16:58:05	3968 Koptelov	8.7	17.25	5.58	55	1.0	36°28'35" 49°34'05"	166	2.2	TYC 58000189	11.67	23 ^h 14 ^m 17.507 ^s 2°37'30.629"	42.5	188	108.0	-31.2	149.7	-23.4	60.7	147
2013/11/24 19:56:52	17157 1999 KP6	9.5	16.76	4.85	127	0.8	35°47'53" 51°08'34"	344	1.8	UCAC2 30792196	11.92	4 ^h 04 ^m 06.316 ^s -2°33'25.081"	34.4	154	156.8	-56.4	81.9	-0.9	59.5	151
2013/11/24 22:57:06	1887 Virton	21.9	14.80	2.13	167	1.9	36°00'14" 48°33'25"	187	3.1	UCAC2 44266331	12.83	4 ^h 04 ^m 09.241 ^s 35°31'12.269"	67.7	239	165.1	-55.2	78.9	26.5	58.3	144
2013/11/25 01:16:22	45885 2000 WX95	5.0	16.89	4.95	134	0.8	36°45'13" 51°12'52"	14	0.8	TYC 121001392	11.95	2 ^h 07 ^m 41.817 ^s 17°42'40.002"	15.0	280	152.7	-35.6	108.9	43.7	57.3	102
2013/11/25 01:52:48	3345 Tarkovskij	24.2	14.86	5.56	96	2.5	35°38'50" 49°17'09"	208	5.7	TYC 332800859	9.30	4 ^h 14 ^m 41.603 ^s 45°11'59.523"	47.3	290	155.3	-29.8	78.0	46.5	57.1	126
2013/11/25 02:34:02	1466 Mundleria	21.5	16.43	3.27	195	4.9	34°57'33" 51°35'09"	331	2.2	UCAC2 33732590	13.22	7 ^h 18 ^m 07.055 ^s 5°44'53.893"	39.4	219	130.4	-23.1	36.0	48.3	56.8	134
2013/11/25 04:07:25	2132 Zhukov	28.7	16.23	3.22	83	3.3	36°22'26" 50°47'18"	4	5.7	UCAC2 38793718	13.07	9 ^h 20 ^m 01.976 ^s 19°36'55.323"	54.9	218	106.5	-8.6	12.9	46.3	56.3	181
2013/11/25 17:12:58	18835 1999 NK56	11.0	16.86	3.13	214	0.8	38°26'53" 48°43'54"	133	1.1	UCAC2 40649529	13.79	5 ^h 38 ^m 10.166 ^s 25°22'19.067"	22.2	76	158.2	-33.7	67.5	-29.3	51.1	153
2013/11/25 18:23:55	3319 Kibi	13.8	17.48	6.82	19	0.5	36°32'45" 50°01'43"	96	2.4	TYC 578000717	10.67	21 ^h 15 ^m 25.126 ^s -12°23'00.080"	9.6	237	74.0	-44.7	164.5	-22.4	50.6	228
2013/11/25 23:32:02	7391 Strouhal	5.0	16.55	4.08	223	0.8	37°27'28" 51°54'35"	22	0.1	TYC 239000438	12.50	5 ^h 16 ^m 24.413 ^s 30°54'36.852"	67.9	217	161.4	-51.2	75.8	22.2	48.5	97
2013/11/26 00:26:00	15671 1977 EP6	12.0	18.18	6.51	37	0.8	36°16'39" 49°42'42"	181	1.9	UCAC2 36586914	11.67	4 ^h 31 ^m 18.388 ^s 13°34'31.226"	41.3	236	170.7	-43.6	87.2	29.7	48.1	254

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 9		LinOccult 2.1.1			
		Asteroid			Nearest point			Star				Sun		Moon						
Date Time (UTC)	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Dist	Alt	Phase (%)	σ_{km}
2013/11/26 02:01:26	1802 Zhang Heng	15.8	16.43	4.02	59	4.7	36°00'21'' 49°32'49''	200	3.5 3.7	UCAC2 37712950	12.44	8 ^h 36 ^m 39.764 ^s 16°36'05.199''	56.7	185	116.5	-28.6	29.7	40.2	47.4	170
2013/11/26 04:41:30	17007 1999 CK65	5.5	18.68	7.81	62	0.6	35°36'40'' 49°41'47''	231	1.3 1.4	TYC 23101880	10.87	9 ^h 29 ^m 09.679 ^s 3°20'11.252''	37.2	218	100.2	-3.8	15.9	43.0	46.4	159
2013/11/26 16:41:44	51989 2001 ST286	10.5	17.13	3.78	253	0.7	37°55'06'' 48°02'45''	152	0.9 2.3	UCAC2 44967104	13.39	4 ^h 57 ^m 23.724 ^s 37°46'44.514''	32.8	69	160.2	-28.7	88.3	-37.3	41.5	181
2013/11/26 19:46:25	5154 Leonov	10.5	17.55	5.06	189	0.9	37°06'11'' 48°26'16''	162	1.3 2.3	UCAC2 40318435	12.50	5 ^h 56 ^m 55.682 ^s 24°06'06.021''	43.4	105	155.2	-55.6	76.7	-21.2	40.3	184
2013/11/27 18:19:28	3106 Mora-bitto	17.4	14.85	1.50	85	2.0	36°25'39'' 49°17'31''	173	4.3 5.4	UCAC2 33701473	13.66	5 ^h 30 ^m 20.625 ^s 5°33'09.988''	20.4	106	155.8	-44.2	94.2	-39.0	31.2	128
2013/11/27 19:50:31	2239 Paracelsus	38.9	15.09	3.50	263	3.2	37°02'39'' 47°44'16''	168	2.6 9.5	UCAC2 42882238	11.63	3 ^h 53 ^m 31.765 ^s 31°50'27.072''	67.8	138	168.3	-56.2	115.8	-30.1	30.5	164
2013/11/27 20:46:38	9710 1964 VN1	5.5	16.05	4.82	161	1.0	36°47'01'' 51°27'22''	13	0.3 2.8	TYC 186801952	11.24	6 ^h 05 ^m 40.819 ^s 26°04'52.547''	53.3	117	154.2	-60.5	87.9	-22.7	30.2	78
2013/11/28 00:00:46	34588 2000 TL	7.2	17.91	6.54	134	0.6	36°02'36'' 48°51'19''	187	1.3 1.8	UCAC2 44642108	11.37	6 ^h 11 ^m 02.403 ^s 36°35'05.039''	74.7	214	150.5	-47.7	89.4	6.5	28.9	157
2013/11/28 00:30:12	8618 1981 DX	10.5	17.19	4.83	202	0.9	36°16'30'' 51°51'43''	360	1.2 2.5	TYC 186500164	12.37	5 ^h 42 ^m 01.264 ^s 24°27'28.309''	57.9	227	159.8	-43.3	95.3	10.8	28.7	168
2013/11/28 01:35:00	14410 1991 RR1	10.5	16.74	4.27	50	0.8	36°15'31'' 50°29'51''	358	2.4 2.5	UCAC2 37836205	12.49	3 ^h 52 ^m 35.791 ^s 17°16'35.784''	26.6	265	173.3	-33.2	121.8	19.8	28.2	166
2013/11/28 02:21:56	2761 Eddington	32.3	17.62	6.07	171	0.9	35°26'30'' 48°37'01''	201	4.1 5.1	UCAC2 30202148	11.56	12 ^h 59 ^m 42.057 ^s -4°50'08.337''	17.1	120	50.2	-25.6	14.1	25.5	27.9	253
2013/11/28 02:41:11	27544 2000 JR14	6.3	18.05	6.44	252	1.0	37°59'46'' 52°02'40''	29	0.4 1.6	TYC 135602437	11.61	6 ^h 57 ^m 39.295 ^s 22°11'10.908''	48.7	242	142.5	-22.6	79.0	27.6	27.8	155
2013/11/28 03:11:37	54551 2000 QX87	6.9	18.13	7.94	136	1.7	34°59'36'' 49°09'20''	223	1.2 1.6	TYC 246501244	10.19	7 ^h 35 ^m 01.657 ^s 36°03'23.563''	59.7	257	134.4	-17.7	74.4	30.5	27.6	175
2013/11/28 03:20:47	4192 Breysacher	24.7	16.42	2.83	154	1.9	37°15'15'' 51°17'02''	27	3.8 5.6	UCAC2 39621567	13.67	5 ^h 02 ^m 53.268 ^s 22°16'02.290''	24.5	276	169.0	-16.3	105.9	31.3	27.5	174
2013/11/28 14:04:15	784 Pickeringia	89.4	14.50	1.92	72	2.0	35°38'38'' 50°32'44''	320	15.1 15.9	UCAC2 18294467	12.79	19 ^h 03 ^m 40.652 ^s -32°01'14.372''	4.1	204	38.3	-4.5	94.6	-28.2	23.5	223
2013/11/28 23:38:28	8257 Andy-cheng	6.3	17.46	6.02	72	0.6	36°01'14'' 49°25'31''	195	1.7 2.1	UCAC2 41343631	11.45	6 ^h 21 ^m 50.474 ^s 27°24'08.686''	67.5	188	151.6	-50.9	99.0	-7.5	20.0	122
2013/11/29 01:53:51	7949 1992 SU	11.0	15.90	2.37	109	2.1	37°42'17'' 49°41'07''	112	2.4 3.4	UCAC2 29992576	13.66	7 ^h 26 ^m 59.106 ^s -5°28'02.686''	31.7	205	126.8	-30.3	80.8	12.4	19.1	128
2013/11/30 00:45:41	2889 Brno	18.2	15.85	3.48	223	1.5	35°42'24'' 52°00'49''	349	1.8 4.2	TYC 72801515	12.42	5 ^h 53 ^m 47.724 ^s 14°19'51.396''	47.7	223	157.5	-41.3	118.9	-8.1	11.7	174
2013/11/30 04:35:31	2669 Shostakovich	8.7	15.74	4.08	95	1.0	37°01'28'' 50°45'42''	34	2.2 3.1	TYC 238801410	11.69	4 ^h 59 ^m 48.089 ^s 31°24'30.246''	18.0	298	167.4	-5.4	132.7	21.4	10.5	111
2013/11/30 17:31:50	2395 Aho	11.0	17.26	4.09	239	0.9	38°03'01'' 48°13'55''	148	0.9 2.6	UCAC2 39987344	13.19	6 ^h 05 ^m 35.002 ^s 23°19'08.501''	22.4	80	157.2	-37.0	126.3	-48.2	7.1	166

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')							Sorted by date/time.		Table 1		Page 10		LinOccult 2.1.1				
Asteroid			Nearest point			Star			Sun			Moon					
Date Time (UTC)	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Dist	Alt	Phase (%)	σ_{km}
2013/11/30 22:46:21	4314 Dervan	7.2	18.21	6.41	233	1.3	36°42'06'' 52°07'16''	7	0.7 1.7	TYC 100745	11.80	0 ^b 01 ^m 20.179 ^s 1°59'09.149''	-57.4	140.5	-36.9	5.9	172