

## 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 2.1.1  
Author: Plekhanov Andrey andyplekhanov@gmail.com  
Events number: 154

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	Phase (%)	Dist	Alt	Phase (%)	
2013/02/01 04:27:34	1129 Neu-jmina	34.8	16.13	2.48	206	0.8	38°17'55" 48°44'28"	135	3.8 4.9	UCAC2 24976443	13.76	19 <sup>h</sup> 51 <sup>m</sup> 12.527 <sup>s</sup> −18°28'05.184"	1.9	122	16.2	-6.8	104.4	20.4	75.3	284
2013/02/01 21:09:47	9175 Graun	12.0	16.90	3.33	53	1.4	35°57'36" 50°28'28"	334	2.8 3.0	UCAC2 45317536	13.62	5 <sup>h</sup> 46 <sup>m</sup> 04.157 <sup>s</sup> 38°56'56.503"	60.2	263	132.2	-56.2	114.0	2.6	68.5	162
2013/02/01 21:14:40	136557 Neleus	10.5	19.52	7.47	253	0.7	35°35'52" 47°49'04"	191	0.8 1.0	UCAC2 31864818	12.05	10 <sup>h</sup> 14 <sup>m</sup> 57.151 <sup>s</sup> 0°21'10.648"	35.5	147	155.5	-56.4	46.1	3.3	68.5	434
2013/02/02 17:13:35	12242 Koon	25.1	18.35	5.10	206	0.9	35°29'18" 48°16'05"	196	2.2 2.5	UCAC2 36753464	13.26	0 <sup>h</sup> 30 <sup>m</sup> 24.566 <sup>s</sup> 14°19'53.961"	30.1	256	59.4	-26.4	158.3	-42.8	59.7	405
2013/02/02 20:02:31	71057 1999 XE96	6.0	17.92	6.22	167	4.1	37°47'51" 48°54'55"	139	0.9 1.5	UCAC2 38570593	11.70	5 <sup>h</sup> 27 <sup>m</sup> 57.221 <sup>s</sup> 19°28'19.726"	52.3	226	128.3	-50.6	132.1	-18.4	58.1	163
2013/02/02 20:06:10	9659 1996 EJ	12.6	15.42	2.77	245	1.1	38°16'37" 51°51'33"	35	0.8 3.5	UCAC2 35570585	12.73	8 <sup>h</sup> 22 <sup>m</sup> 47.396 <sup>s</sup> 10°59'59.456"	49.3	158	168.2	-51.0	88.8	-17.8	58.4	144
2013/02/02 21:26:16	34230 2000 QF93	9.5	16.63	4.80	53	0.8	35°38'55" 49°48'43"	240	2.2 2.3	UCAC2 32022982	11.84	7 <sup>h</sup> 55 <sup>m</sup> 03.978 <sup>s</sup> 0°38'12.860"	39.7	196	156.3	-56.5	93.7	-5.7	57.8	168
2013/02/02 23:18:39	43503 2001 CK29	9.5	17.90	5.57	59	0.7	35°37'24" 49°43'42"	233	1.7 1.8	TYC 136400879	12.34	7 <sup>h</sup> 32 <sup>m</sup> 11.948 <sup>s</sup> 18°39'50.446"	41.9	247	157.5	-52.0	104.4	9.7	56.9	214
2013/02/02 23:53:18	5845 1988 QP	12.0	16.36	2.53	89	0.9	36°33'02" 50°49'57"	12	2.5 2.9	UCAC2 36115659	13.94	9 <sup>h</sup> 05 <sup>m</sup> 17.585 <sup>s</sup> 12°03'21.239"	44.2	225	175.5	-48.2	81.4	13.6	56.7	167
2013/02/03 01:11:16	1783 Albatskij	21.4	15.22	2.37	148	3.5	34°41'11" 49°12'52"	231	3.2 7.5	UCAC2 30370620	12.98	10 <sup>h</sup> 39 <sup>m</sup> 07.920 <sup>s</sup> −4°17'58.211"	30.8	213	149.0	-37.5	54.9	20.7	56.1	114
2013/02/03 01:20:38	939 Isberga	17.8	16.05	3.20	206	1.7	37°41'52" 51°40'23"	29	1.3 6.1	UCAC2 34466904	12.91	10 <sup>h</sup> 44 <sup>m</sup> 43.910 <sup>s</sup> 7°42'38.345"	41.6	219	154.5	-36.0	57.7	21.4	56.0	117
2013/02/03 03:18:28	1046 Edwin	25.1	14.90	1.94	144	2.3	34°56'51" 49°05'41"	222	4.2 6.8	UCAC2 43094219	13.15	7 <sup>h</sup> 51 <sup>m</sup> 47.906 <sup>s</sup> 32°11'01.053"	17.5	300	156.8	-17.3	104.8	24.6	55.0	148
2013/02/03 16:39:09	7529 Vagnozzi	6.6	17.65	6.61	29	1.2	36°19'15" 50°18'09"	5	1.8 1.8	TYC 131900908	11.04	6 <sup>h</sup> 18 <sup>m</sup> 29.466 <sup>s</sup> 17°51'27.521"	47.8	127	139.3	-20.6	131.5	-54.7	48.9	144
2013/02/03 18:26:45	12234 Shkura-tov	7.9	17.21	7.24	68	0.6	36°35'41" 50°37'49"	19	2.0 2.2	TYC 80600363	9.97	8 <sup>h</sup> 14 <sup>m</sup> 02.061 <sup>s</sup> 14°01'26.566"	43.5	128	166.4	-37.6	104.6	-43.1	48.1	145
2013/02/03 19:18:50	24485 2000 YL102	19.1	18.19	5.19	185	1.1	37°11'13" 51°36'27"	20	1.7 1.9	UCAC2 36114748	13.00	8 <sup>h</sup> 52 <sup>m</sup> 34.138 <sup>s</sup> 12°04'29.064"	43.5	133	174.1	-45.0	95.6	-35.7	47.6	399
2013/02/03 20:14:29	3107 Weaver	7.2	17.01	5.22	95	0.6	36°37'05" 50°52'11"	15	1.8 2.4	TYC 83000636	11.80	10 <sup>h</sup> 04 <sup>m</sup> 08.521 <sup>s</sup> 9°43'40.307"	39.6	130	165.2	-51.5	78.7	-27.3	47.2	121
2013/02/03 23:32:06	4531 Asaro	5.5	16.74	4.86	252	1.0	38°26'51" 51°51'18"	38	0.0 2.4	UCAC2 34849580	11.90	13 <sup>h</sup> 37 <sup>m</sup> 57.003 <sup>s</sup> 8°46'09.172"	36.8	126	114.5	-50.4	35.4	1.8	45.5	90
2013/02/04 01:42:51	336 Lacadiera	69.3	14.21	1.77	33	2.6	35°52'59" 49°54'41"	242	18.6 19.0	UCAC2 23153293	12.68	15 <sup>h</sup> 38 <sup>m</sup> 28.318 <sup>s</sup> −21°55'48.422"	10.6	144	77.7	-32.4	6.4	16.1	44.6	144
2013/02/04 03:36:03	12914 1998 SJ141	10.0	16.50	3.77	15	1.2	36°29'46" 50°03'11"	88	2.8 2.9	UCAC2 46691538	12.77	7 <sup>h</sup> 18 <sup>m</sup> 53.973 <sup>s</sup> 43°06'47.766"	18.9	316	144.0	-14.3	124.7	21.6	43.6	140
2013/02/04 17:33:42	1376 Michelle	10.5	16.59	4.07	232	1.3	35°53'18" 47°58'42"	187	0.6 3.2	UCAC2 38413403	12.54	6 <sup>h</sup> 43 <sup>m</sup> 41.815 <sup>s</sup> 18°57'43.791"	52.8	137	144.3	-29.2	140.4	-57.2	37.2	129

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 2		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 (%)	$\sigma_{km}$
2013/02/04 20:26:12	87 Sylvia	260.9	12.84	1.00	264	109.0	34°19'48'' 48°02'49''	212	22.7 48.6	UCAC2 41500286	12.39	5 <sup>h</sup> 18 <sup>m</sup> 09.654 <sup>s</sup> 27°49'56.660''	53.5	247	124.6	-52.3	161.1	-35.9	35.8	200
2013/02/04 21:17:47	1967 Menzel	13.2	15.11	1.60	43	31.8	35°44'60'' 50°13'33''	297	5.1 5.6	UCAC2 41679688	13.80	5 <sup>h</sup> 52 <sup>m</sup> 35.550 <sup>s</sup> 28°23'13.324''	51.3	252	132.1	-55.6	154.2	-28.0	35.3	93
2013/02/04 23:54:50	17701 GU41	10.5	17.01	5.22	152	0.9	37°33'29'' 51°09'06''	36	1.6 2.4	UCAC2 41196059	11.80	10 <sup>h</sup> 16 <sup>m</sup> 20.270 <sup>s</sup> 26°36'49.997''	63.7	214	162.1	-47.6	97.8	-4.6	34.3	176
2013/02/05 01:19:43	9739 Powell	6.6	15.93	4.58	166	0.5	36°44'30'' 48°35'04''	169	0.6 2.8	UCAC2 30852777	11.36	9 <sup>h</sup> 14 <sup>m</sup> 03.813 <sup>s</sup> -2°33'13.872''	20.7	239	161.5	-35.7	103.5	6.3	33.6	94
2013/02/05 02:36:51	9016 Henry-moore	7.2	16.32	4.43	212	0.7	34°17'14'' 48°39'21''	223	0.5 2.3	UCAC2 36279287	11.91	7 <sup>h</sup> 16 <sup>m</sup> 30.321 <sup>s</sup> 12°40'24.811''	2.3	287	151.2	-23.6	136.9	13.9	33.0	125
2013/02/05 17:36:22	4326 McNally	10.5	17.96	4.60	187	0.9	36°09'30'' 51°43'45''	357	1.3 2.1	UCAC2 39835922	13.38	7 <sup>h</sup> 15 <sup>m</sup> 15.930 <sup>s</sup> 22°49'38.436''	53.0	125	150.4	-29.3	147.8	-60.7	26.5	201
2013/02/05 18:04:36	630 Euphemia	17.2	14.41	1.72	94	2.2	35°49'38'' 49°15'13''	200	4.4 6.6	UCAC2 41528905	12.94	7 <sup>h</sup> 15 <sup>m</sup> 40.656 <sup>s</sup> 27°41'16.610''	60.6	130	149.4	-33.8	147.8	-59.9	26.3	104
2013/02/05 20:48:57	35986 NL8	8.7	17.34	5.25	242	0.6	38°07'39'' 51°53'01''	33	0.8 1.9	TYC 141900823	12.10	10 <sup>h</sup> 12 <sup>m</sup> 06.989 <sup>s</sup> 17°03'15.570''	50.1	135	166.9	-53.8	107.9	-42.0	25.1	184
2013/02/05 21:23:02	5059 Saroma	11.5	15.40	2.48	68	1.4	36°06'45'' 50°38'37''	349	3.5 4.3	UCAC2 38426881	13.03	7 <sup>h</sup> 37 <sup>m</sup> 10.928 <sup>s</sup> 18°34'03.478''	55.3	212	155.7	-55.5	144.5	-37.0	24.8	106
2013/02/05 21:23:46	58824 HY10	5.8	19.20	8.82	29	1.1	36°06'03'' 49°49'11''	208	1.1 1.1	HIP 61527	10.38	12 <sup>h</sup> 36 <sup>m</sup> 20.074 <sup>s</sup> 9°23'04.710''	28.9	112	131.3	-55.5	72.7	-36.9	24.9	205
2013/02/05 22:37:21	66949 XO7	7.9	16.75	5.06	27	1.3	36°12'03'' 50°16'52''	347	1.9 1.9	TYC 293500356	11.70	6 <sup>h</sup> 23 <sup>m</sup> 35.884 <sup>s</sup> 41°31'11.760''	51.0	280	134.5	-54.4	153.9	-25.5	24.3	167
2013/02/06 16:32:21	91400 MW	5.0	18.01	8.45	118	0.7	36°40'34'' 51°04'36''	14	0.9 1.1	HIP 22357	9.56	4 <sup>h</sup> 48 <sup>m</sup> 45.876 <sup>s</sup> 19°43'26.143''	58.7	160	115.4	-18.8	164.3	-53.3	17.2	188
2013/02/06 17:20:02	8887 Scheeres	10.0	17.18	3.37	204	1.0	34°54'26'' 48°27'05''	209	1.1 2.5	UCAC2 37513235	13.86	6 <sup>h</sup> 39 <sup>m</sup> 03.433 <sup>s</sup> 16°23'06.104''	50.3	138	141.0	-26.5	169.4	-57.8	17.0	158
2013/02/06 19:33:57	24410 Juliewalker	5.0	17.99	7.10	90	0.6	36°55'34'' 50°44'51''	30	1.2 1.5	TYC 134800342	10.89	6 <sup>h</sup> 57 <sup>m</sup> 36.676 <sup>s</sup> 17°06'56.608''	57.3	184	145.4	-46.2	166.8	-57.8	16.2	131
2013/02/06 20:25:09	14938 DN	11.0	17.25	4.18	27	0.9	36°06'24'' 49°50'02''	208	2.5 2.5	UCAC2 36101252	13.10	7 <sup>h</sup> 22 <sup>m</sup> 04.857 <sup>s</sup> 12°24'18.746''	51.8	195	150.8	-51.7	160.1	-52.8	15.8	176
2013/02/06 21:02:12	19858 UT18	7.6	17.33	5.81	199	1.0	36°06'07'' 48°16'05''	184	0.8 2.0	TYC 85600388	11.53	11 <sup>h</sup> 32 <sup>m</sup> 10.234 <sup>s</sup> 9°05'05.743''	35.4	123	147.6	-54.3	101.2	-48.2	15.7	151
2013/02/06 22:08:35	25790 CW57	7.9	18.00	7.74	252	1.3	39°45'57'' 49°45'26''	97	0.6 1.8	UCAC2 36250637	10.26	5 <sup>h</sup> 59 <sup>m</sup> 06.746 <sup>s</sup> 12°53'17.750''	31.6	251	130.8	-55.3	172.3	-38.8	15.2	172
2013/02/07 03:11:45	111785 CQ186	7.9	19.86	8.53	210	0.5	38°03'40'' 51°33'45''	37	0.5 0.5	TYC 137101772	11.33	7 <sup>h</sup> 58 <sup>m</sup> 17.621 <sup>s</sup> 19°14'05.461''	7.2	291	159.4	-17.5	157.6	5.5	13.5	625
2013/02/07 19:01:52	5583 Braunerova	10.5	16.93	4.60	224	1.5	36°13'48'' 48°02'09''	181	1.0 2.6	UCAC2 41008934	12.34	6 <sup>h</sup> 59 <sup>m</sup> 35.228 <sup>s</sup> 26°10'02.853''	66.1	169	144.2	-41.7	172.3	-58.3	8.7	161
2013/02/07 19:35:36	15730 UA1	10.5	16.84	3.84	99	1.0	36°06'05'' 49°09'59''	188	2.3 2.8	UCAC2 36409685	13.03	4 <sup>h</sup> 11 <sup>m</sup> 54.476 <sup>s</sup> 13°08'12.452''	38.0	241	104.3	-46.1	138.2	-58.6	8.5	148

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 3		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 (%)	$\sigma_{km}$
2013/02/07 20:01:04	3591 Vladimirkij	19.8	18.31	5.81	58	0.7	35°48'57'' 50°28'25''	325	2.7	UCAC2 34767904	12.51	1 <sup>h</sup> 22 <sup>m</sup> 42.452 <sup>s</sup> 8°54'06.826''	4.3	279	63.4	-49.0	96.8	-58.0	8.4	281
2013/02/08 01:57:11	12214 Miroshnikov	15.8	17.10	3.83	99	1.1	36°23'42'' 50°56'17''	4	2.7	UCAC2 33741859	13.30	7 <sup>h</sup> 54 <sup>m</sup> 48.736 <sup>s</sup> 5°32'04.716''	7.3	270	155.5	-29.2	165.2	-11.2	6.8	211
2013/02/08 17:23:31	855 Newcombia	15.1	16.66	2.95	78	2.7	35°32'02'' 49°32'50''	224	3.3	UCAC2 43923913	13.78	4 <sup>h</sup> 25 <sup>m</sup> 24.789 <sup>s</sup> 34°34'15.403''	73.2	209	109.8	-26.6	128.8	-41.1	3.6	166
2013/02/08 18:41:48	59950 1999 RA220	8.7	18.10	6.55	181	0.8	36°55'36'' 48°28'48''	165	1.2	UCAC2 44826571	11.55	7 <sup>h</sup> 34 <sup>m</sup> 55.765 <sup>s</sup> 37°27'38.503''	72.2	128	145.9	-38.6	157.3	-50.4	3.4	203
2013/02/08 21:43:08	342 Endymion	60.6	13.10	0.57	145	6.5	35°26'44'' 48°51'47''	205	7.9	UCAC2 32866439	13.51	9 <sup>h</sup> 05 <sup>m</sup> 34.842 <sup>s</sup> 3°19'20.376''	43.3	187	167.1	-54.9	161.8	-52.2	2.9	93
2013/02/08 23:23:43	24279 1999 XR171	13.2	18.87	5.99	155	0.8	36°54'22'' 51°23'10''	17	1.2	UCAC2 33223274	12.88	10 <sup>h</sup> 29 <sup>m</sup> 51.443 <sup>s</sup> 4°21'56.544''	43.9	192	162.1	-49.9	144.9	-40.8	2.6	401
2013/02/09 01:51:53	14362 1988 MH	12.0	17.52	3.64	92	0.6	37°27'53'' 50°22'51''	66	2.1	UCAC2 18435191	13.92	15 <sup>h</sup> 18 <sup>m</sup> 11.224 <sup>s</sup> -31°56'38.629''	4.9	158	84.9	-29.8	70.1	-18.5	2.2	205
2013/02/09 16:57:56	159 Aemilia	125.0	13.14	0.66	183	15.6	37°49'26'' 48°44'31''	143	16.3	UCAC2 37660194	13.32	4 <sup>h</sup> 35 <sup>m</sup> 52.584 <sup>s</sup> 16°45'41.063''	56.9	183	108.8	-22.2	117.2	-26.4	0.7	158
2013/02/09 17:25:08	5354 Hisayo	13.8	16.15	5.09	100	1.1	36°16'50'' 50°56'55''	360	2.8	TYC 83500983	11.07	9 <sup>h</sup> 52 <sup>m</sup> 45.533 <sup>s</sup> 14°18'39.606''	23.4	95	175.3	-26.6	166.2	-30.4	0.7	162
2013/02/09 17:46:28	5081 Sanguin	15.4	16.49	3.24	168	4.0	36°45'42'' 51°31'32''	12	2.2	UCAC2 43079428	13.31	6 <sup>h</sup> 12 <sup>m</sup> 06.651 <sup>s</sup> 32°03'23.436''	70.7	153	131.0	-29.9	137.1	-33.5	0.6	142
2013/02/09 20:07:16	176569 2002 AW190	5.8	19.72	8.61	74	0.6	37°19'12'' 49°59'05''	95	0.6	TYC 71400271	11.11	5 <sup>h</sup> 37 <sup>m</sup> 04.756 <sup>s</sup> 9°22'20.979''	40.8	226	122.0	-49.1	129.4	-49.1	0.5	399
2013/02/10 14:41:37	163240 2002 EM157	11.5	19.85	9.69	208	0.6	37°32'15'' 48°21'57''	154	0.6	TYC 140100390	10.16	9 <sup>h</sup> 07 <sup>m</sup> 32.163 <sup>s</sup> 17°29'13.408''	7.5	72	172.2	-0.5	166.8	5.6	0.3	734
2013/02/10 14:54:51	2127 Tanya	39.3	16.97	3.23	168	0.9	35°13'48'' 51°24'02''	333	4.2	UCAC2 26802761	13.80	23 <sup>h</sup> 22 <sup>m</sup> 05.640 <sup>s</sup> -14°21'46.504''	12.0	230	25.5	-2.5	24.3	3.7	0.3	332
2013/02/10 15:22:46	1825 Klare	15.8	14.82	1.69	133	1.5	35°48'42'' 51°11'58''	345	2.9	UCAC2 36116263	13.38	9 <sup>h</sup> 15 <sup>m</sup> 15.594 <sup>s</sup> 12°25'15.375''	8.9	81	174.4	-6.8	171.0	-0.4	0.3	121
2013/02/10 19:52:07	18331 1987 DQ6	15.1	17.31	4.71	36	0.8	35°59'29'' 49°47'25''	216	2.7	UCAC2 43392618	12.61	2 <sup>h</sup> 48 <sup>m</sup> 43.368 <sup>s</sup> 33°27'22.531''	35.3	282	87.9	-47.2	80.0	-38.8	0.5	223
2013/02/10 21:58:20	5360 Rozhdestvenskij	16.6	17.26	5.15	68	2.1	35°35'17'' 49°38'04''	227	3.0	TYC 556101206	12.12	14 <sup>h</sup> 08 <sup>m</sup> 18.562 <sup>s</sup> -12°49'58.685''	5.4	117	107.9	-54.2	115.9	-46.8	0.7	209
2013/02/10 22:11:41	1107 Lictoria	79.2	14.60	1.28	288	8.2	35°18'23'' 47°32'26''	194	4.4	UCAC2 38202215	13.72	4 <sup>h</sup> 25 <sup>m</sup> 23.497 <sup>s</sup> 18°17'25.424''	17.7	278	105.4	-53.9	97.6	-46.9	0.7	168
2013/02/11 00:13:01	157 Dejanira	19.1	14.11	1.09	201	4.8	37°51'10'' 51°33'10''	34	1.4	UCAC2 45978323	13.51	7 <sup>h</sup> 42 <sup>m</sup> 12.436 <sup>s</sup> 40°35'13.836''	44.7	284	143.3	-43.7	132.7	-40.1	0.9	114
2013/02/11 15:56:08	21693 1999 RT44	5.8	18.03	6.55	148	0.5	37°13'24'' 51°14'26''	27	0.9	UCAC2 44448306	11.49	4 <sup>h</sup> 50 <sup>m</sup> 03.074 <sup>s</sup> 36°12'33.659''	72.5	136	112.0	-11.8	93.6	6.0	2.6	179
2013/02/11 21:11:26	29665 1998 WD24	10.0	17.60	3.77	200	1.5	35°58'16'' 51°50'04''	354	1.2	UCAC2 43082438	13.87	6 <sup>h</sup> 26 <sup>m</sup> 35.013 <sup>s</sup> 32°16'08.211''	56.0	254	131.9	-53.2	110.8	-37.1	3.4	189

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.				Table 1		Page 4		LinOccult 2.1.1			
Asteroid			Nearest point			Star			Sun			Moon									
Date Time (UTC)	Number Name	Diam (km)	Mag	Drop (km)	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Phase (%)	Dist	Alt	Phase (%)	$\sigma_{km}$
2013/02/11 22:19:44	9171 Carolyn-diane	9.5	17.29	5.40	95	0.9	36°35'02'' 50°52'43''	13	2.0	UCAC2 46422257	11.90	8 <sup>h</sup> 04 <sup>m</sup> 54.638 <sup>s</sup> 42°10'01.996''	66.7	263	144.6	-53.4	3.5	124.5	-41.2	3.5	161
2013/02/12 00:28:16	17611 Jozkakubik	7.9	17.80	5.77	104	1.9	35°46'25'' 49°10'41''	201	1.6	TYC 29300228	12.04	12 <sup>h</sup> 40 <sup>m</sup> 34.239 <sup>s</sup> 3°53'21.622''	43.9	174	135.0	-41.4	3.9	154.7	-38.5	3.9	163
2013/02/12 03:04:33	13561 Kudo-gou	12.0	18.35	4.99	176	0.9	38°43'19'' 50°20'07''	80	1.5	UCAC2 21555341	13.37	14 <sup>h</sup> 45 <sup>m</sup> 23.771 <sup>s</sup> -25°21'50.299''	14.6	183	96.6	-17.5	4.4	120.7	-20.5	4.4	241
2013/02/12 16:16:30	359 Georgia	43.9	14.09	0.82	81	1.3	36°11'00'' 50°46'06''	355	8.2	UCAC2 36578612	13.96	1 <sup>h</sup> 31 <sup>m</sup> 44.138 <sup>s</sup> 13°49'53.453''	41.3	237	62.5	-14.8	7.1	31.8	14.0	7.1	196
2013/02/12 19:22:16	10037 BQ	8.3	17.67	6.89	36	0.6	36°19'37'' 50°22'17''	5	2.0	TYC 179900209	10.79	3 <sup>h</sup> 40 <sup>m</sup> 45.957 <sup>s</sup> 24°09'11.840''	40.8	259	94.4	-43.0	7.8	62.2	-14.0	7.8	162
2013/02/12 20:17:44	3915 Fukushima	20.4	15.93	2.17	47	1.9	36°51'20'' 50°15'59''	59	5.8	UCAC2 33382384	13.91	7 <sup>h</sup> 40 <sup>m</sup> 20.063 <sup>s</sup> 4°42'39.367''	44.3	192	147.9	-49.2	8.0	119.4	-21.6	8.0	133
2013/02/12 22:09:30	102492 TG265	8.3	18.38	6.84	71	1.9	36°06'10'' 49°25'03''	191	1.3	TYC 74300971	11.54	6 <sup>h</sup> 20 <sup>m</sup> 00.763 <sup>s</sup> 13°08'11.359''	31.2	252	130.0	-53.3	8.5	97.6	-33.3	8.5	239
2013/02/12 23:27:01	3164 Prast	19.1	16.64	3.12	107	3.4	35°28'32'' 49°14'50''	213	4.1	UCAC2 32542911	13.59	12 <sup>h</sup> 11 <sup>m</sup> 35.488 <sup>s</sup> 2°16'29.976''	41.4	164	142.4	-48.4	8.8	172.0	-36.9	8.8	141
2013/02/12 23:49:13	6410 Fujiwara	10.0	17.85	4.48	55	1.0	35°42'54'' 49°43'09''	228	2.1	UCAC2 35401147	13.39	12 <sup>h</sup> 20 <sup>m</sup> 09.406 <sup>s</sup> 10°29'15.914''	50.1	167	142.3	-46.0	8.9	164.3	-37.0	8.9	180
2013/02/13 02:32:58	3463 Kaokuen	7.6	15.67	4.22	204	0.8	34°23'35'' 48°41'45''	222	0.4	TYC 141900403	11.47	10 <sup>h</sup> 14 <sup>m</sup> 11.671 <sup>s</sup> 16°45'03.211''	29.3	261	172.5	-22.3	9.6	147.8	-26.8	9.6	98
2013/02/13 15:12:26	5059 Saroma	11.5	15.62	1.93	92	1.8	37°14'51'' 49°29'49''	132	2.9	UCAC2 38245145	13.89	7 <sup>h</sup> 31 <sup>m</sup> 37.854 <sup>s</sup> 18°02'45.322''	30.0	97	146.7	-4.4	13.1	104.8	33.3	13.1	110
2013/02/13 15:14:50	2014 Vasilievskis	12.6	16.89	3.96	242	0.9	35°06'43'' 48°01'01''	200	1.0	UCAC2 28706358	12.96	7 <sup>h</sup> 44 <sup>m</sup> 31.407 <sup>s</sup> -8°41'58.791''	7.5	113	142.1	-4.8	13.1	111.6	33.0	13.1	162
2013/02/13 17:10:38	3174 Alcock	13.8	16.91	6.59	58	0.8	36°18'11'' 49°31'28''	179	2.9	TYC 124300809	10.32	3 <sup>h</sup> 40 <sup>m</sup> 44.872 <sup>s</sup> 19°56'57.250''	55.1	219	92.6	-23.3	13.7	49.4	16.6	13.7	183
2013/02/14 14:57:38	92326 GS53	7.9	19.12	6.81	239	3.3	39°01'42'' 51°18'15''	54	0.7	TYC 129901963	12.32	5 <sup>h</sup> 48 <sup>m</sup> 57.085 <sup>s</sup> 16°49'11.785''	43.0	120	121.2	-1.9	20.5	68.2	43.9	20.5	336
2013/02/14 17:35:15	16067 RA47	6.3	17.91	7.18	224	0.6	36°23'16'' 48°01'55''	178	0.6	TYC 26600982	10.73	11 <sup>h</sup> 14 <sup>m</sup> 48.630 <sup>s</sup> 3°01'04.948''	6.4	93	157.5	-26.9	21.5	147.3	23.2	21.5	163
2013/02/14 19:32:46	3463 Kaokuen	7.6	15.64	3.96	6	0.9	36°14'10'' 50°00'10''	216	3.1	TYC 141900093	11.71	10 <sup>h</sup> 12 <sup>m</sup> 32.260 <sup>s</sup> 16°54'04.601''	44.8	123	173.8	-43.7	22.2	126.3	5.2	22.2	98
2013/02/14 22:09:58	62149 ST19	7.9	17.72	6.92	193	0.6	35°32'40'' 48°22'46''	196	1.0	TYC 24001597	10.80	9 <sup>h</sup> 54 <sup>m</sup> 11.715 <sup>s</sup> 4°36'12.214''	44.5	187	171.8	-52.7	23.2	125.5	-16.3	23.2	174
2013/02/14 23:37:38	27142 XG61	10.5	16.95	4.33	175	0.8	36°32'23'' 48°29'12''	174	1.4	UCAC2 28549074	12.64	10 <sup>h</sup> 42 <sup>m</sup> 18.118 <sup>s</sup> -9°06'29.499''	29.5	197	155.0	-46.7	23.7	139.5	-24.6	23.7	157
2013/02/15 01:28:45	30246 HC13	6.3	17.94	9.64	102	1.1	37°11'03'' 50°45'44''	39	1.3	HIP 34402	8.30	7 <sup>h</sup> 07 <sup>m</sup> 57.212 <sup>s</sup> 40°46'56.731''	26.3	303	134.1	-31.9	24.5	77.9	-28.3	24.5	146
2013/02/15 03:39:37	22044 XS206	13.2	17.64	4.28	183	0.9	34°53'03'' 48°40'46''	213	1.7	UCAC2 16835583	13.39	14 <sup>h</sup> 09 <sup>m</sup> 38.389 <sup>s</sup> -35°29'48.329''	1.9	199	102.9	-11.1	25.2	155.3	-21.7	25.2	213

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			
Date Time (UTC)	Asteroid			Nearest point			Star			Sun			Moon							
	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Dist	Alt	Phase (%)	$\sigma_{km}$
2013/02/15 04:32:12	243 Ida	28.0	15.54	3.91	87	1.6	37°02'15" 50°40'05"	38	5.1	TYC 619800910	11.66	15 <sup>h</sup> 46 <sup>m</sup> 26.129 <sup>s</sup> -21°04'22.868"	18.1	193	87.4	-2.8	147.8	-16.2	25.5	201
2013/02/15 04:39:11	1958 Chandra	34.0	16.71	3.88	20	1.7	36°03'07" 49°56'47"	236	6.5	UCAC2 20174051	12.87	15 <sup>h</sup> 34 <sup>m</sup> 53.680 <sup>s</sup> -28°28'42.580"	10.0	196	88.3	-1.7	148.1	-15.4	25.5	207
2013/02/15 18:40:37	47607 AN242	5.8	18.70	7.36	233	0.7	33°22'34" 49°08'45"	244	0.6	UCAC2 44969446	11.34	5 <sup>h</sup> 09 <sup>m</sup> 07.249 <sup>s</sup> 37°43'17.223"	68.4	245	111.8	-36.5	46.8	23.1	30.7	202
2013/02/15 19:33:55	10291 UT	10.5	17.68	5.81	5	1.1	36°14'38" 50°04'56"	322	2.3	UCAC2 42748511	11.87	7 <sup>h</sup> 47 <sup>m</sup> 24.284 <sup>s</sup> 31°16'49.538"	71.5	177	144.7	-43.6	78.3	14.9	31.0	185
2013/02/15 22:05:38	52679 DZ22	5.5	18.67	7.22	44	1.3	36°08'05" 50°25'58"	346	1.1	TYC 189101292	11.45	6 <sup>h</sup> 29 <sup>m</sup> 36.716 <sup>s</sup> 28°58'33.256"	43.1	265	129.0	-52.4	60.5	-7.1	32.1	199
2013/02/16 01:03:41	3623 Chaplin	13.8	17.41	4.20	152	1.4	37°09'23" 51°17'35"	24	2.0	UCAC2 27306783	13.23	14 <sup>h</sup> 53 <sup>m</sup> 56.788 <sup>s</sup> -12°57'56.501"	23.4	153	102.4	-35.3	171.3	-23.5	33.1	208
2013/02/16 15:45:05	5677 Aberdonia	10.5	16.67	6.63	165	1.2	35°48'50" 51°29'59"	348	1.5	TYC 138101036	10.04	8 <sup>h</sup> 12 <sup>m</sup> 29.821 <sup>s</sup> 17°47'14.461"	30.4	98	153.3	-8.8	76.6	54.1	38.7	148
2013/02/16 17:08:14	2154 Underhill	21.5	16.75	3.58	97	4.3	35°14'11" 49°30'09"	231	4.7	UCAC2 43595365	13.21	5 <sup>h</sup> 59 <sup>m</sup> 26.192 <sup>s</sup> 33°42'29.932"	72.4	153	121.3	-22.1	45.1	45.5	39.4	147
2013/02/16 19:25:46	2747 Cesky Krumlov	31.6	16.54	4.75	226	2.4	36°27'12" 52°04'23"	3	3.2	TYC 84701252	11.80	10 <sup>h</sup> 57 <sup>m</sup> 25.225 <sup>s</sup> 7°41'18.710"	31.1	118	165.5	-42.3	116.0	25.5	40.2	185
2013/02/16 19:25:46	2747 Cesky Krumlov	31.6	16.54	4.51	226	2.4	36°27'12" 52°04'23"	3	3.2	UCAC2 34467371	12.05	10 <sup>h</sup> 57 <sup>m</sup> 25.225 <sup>s</sup> 7°41'18.710"	31.1	118	165.5	-42.3	116.0	25.5	40.2	185
2013/02/16 19:34:26	70768 VS35	5.2	18.81	7.36	241	1.3	35°40'35" 52°10'40"	350	0.5	TYC 292801646	11.45	6 <sup>h</sup> 38 <sup>m</sup> 17.964 <sup>s</sup> 38°19'40.790"	73.2	233	128.0	-43.4	52.4	24.2	40.3	193
2013/02/16 23:01:32	3166 Klondike	12.0	16.35	2.75	248	1.1	38°19'18" 51°52'27"	36	0.7	UCAC2 40303684	13.69	4 <sup>h</sup> 24 <sup>m</sup> 59.270 <sup>s</sup> 24°05'25.547"	10.7	295	100.1	-49.3	20.1	-5.9	41.6	135
2013/02/16 23:57:02	31247 DD13	6.9	19.30	7.29	235	0.5	38°22'57" 51°41'32"	39	0.7	TYC 235500614	12.01	3 <sup>h</sup> 39 <sup>m</sup> 42.281 <sup>s</sup> 30°27'02.100"	2.8	317	91.4	-43.9	15.1	-12.3	42.0	254
2013/02/17 19:44:30	34560 SF280	10.5	16.60	3.62	87	0.9	35°54'47" 49°18'05"	198	2.3	UCAC2 31165417	13.02	9 <sup>h</sup> 49 <sup>m</sup> 13.767 <sup>s</sup> -1°56'29.437"	33.3	147	165.7	-44.2	91.2	31.4	49.8	160
2013/02/17 21:02:51	5541 Seimei	12.6	17.96	6.23	216	2.6	34°56'36" 48°18'53"	206	1.4	UCAC2 28380203	11.73	13 <sup>h</sup> 20 <sup>m</sup> 01.673 <sup>s</sup> -9°38'51.996"	10.9	120	127.1	-50.8	142.8	19.3	50.2	206
2013/02/18 01:22:10	9744 Nielsen	6.9	17.61	7.82	231	0.6	33°31'34" 48°59'55"	239	0.6	TYC 193401771	9.79	7 <sup>h</sup> 59 <sup>m</sup> 12.361 <sup>s</sup> 27°26'56.289"	23.6	285	146.4	-32.0	55.2	-14.2	52.1	149
2013/02/18 15:56:33	1702 Kalahari	32.7	16.35	5.89	97	3.1	37°03'08" 49°19'43"	146	6.4	TYC 127500444	10.46	4 <sup>h</sup> 44 <sup>m</sup> 57.021 <sup>s</sup> 19°52'27.941"	59.6	167	102.4	-10.1	3.7	60.2	57.7	175
2013/02/18 17:16:44	26322 VS6	6.3	17.95	6.72	182	0.5	38°08'28" 48°56'43"	133	0.8	TYC 492001039	11.23	10 <sup>h</sup> 59 <sup>m</sup> 16.082 <sup>s</sup> -6°20'42.110"	1.2	101	158.2	-23.0	98.7	57.7	58.2	157
2013/02/18 19:24:30	19501 KC50	12.0	17.78	4.68	237	1.5	37°20'12" 52°04'11"	18	1.2	UCAC2 43091286	13.12	7 <sup>h</sup> 22 <sup>m</sup> 01.657 <sup>s</sup> 32°23'16.750"	72.1	196	136.4	-41.6	38.8	42.5	59.1	211
2013/02/19 00:57:58	9494 Donici	5.2	16.23	4.41	53	0.6	36°37'35" 50°28'18"	27	1.9	UCAC2 36824808	11.83	10 <sup>h</sup> 23 <sup>m</sup> 45.936 <sup>s</sup> 14°17'16.188"	39.7	241	175.5	-35.3	79.5	-6.0	61.2	93

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 (%)	$\sigma_{km}$
2013/02/19 01:30:08	15514 1999 VW24	15.8	17.27	3.83	166	1.0	34°41'04" 48°58'29"	224	2.0	UCAC2 17969618	13.48	15 <sup>h</sup> 46 <sup>m</sup> 13.615 <sup>s</sup> −32°41'06.308"	3.6	156	88.8	-30.5	161.3	-9.5	61.4	246
2013/02/19 15:09:29	23853 1998 RZ35	5.2	18.53	8.13	131	0.6	34°27'22" 50°06'29"	273	0.9	TYC 70100622	10.40	5 <sup>h</sup> 35 <sup>m</sup> 28.646 <sup>s</sup> 7°37'54.431"	40.7	139	111.8	-2.4	13.6	54.2	66.5	166
2013/02/19 15:43:21	310005 2009 KE	13.8	19.34	7.93	66	1.3	36°19'50" 50°38'12"	3	0.9	TYC 16600154	11.41	7 <sup>h</sup> 02 <sup>m</sup> 29.624 <sup>s</sup> 2°29'41.636"	29.9	127	132.2	-7.7	31.0	57.5	66.7	636
2013/02/19 16:58:06	35324 Orlandi	8.7	18.69	8.35	129	0.6	37°29'19" 49°11'05"	138	1.2	TYC 297500622	10.34	8 <sup>h</sup> 27 <sup>m</sup> 53.252 <sup>s</sup> 38°06'29.588"	55.3	92	144.3	-19.7	43.7	60.7	67.2	258
2013/02/19 18:43:00	17251 Von-dracek	6.0	17.36	6.56	156	0.6	35°36'02" 48°42'58"	198	0.9	TYC 139501992	10.80	8 <sup>h</sup> 39 <sup>m</sup> 45.719 <sup>s</sup> 19°22'00.992"	54.5	141	156.1	-35.8	45.5	54.4	67.8	123
2013/02/20 00:12:05	45739 2000 HR25	11.0	18.55	4.90	10	0.9	36°18'29" 50°07'56"	9	1.7	UCAC2 41882064	13.66	8 <sup>h</sup> 32 <sup>m</sup> 32.050 <sup>s</sup> 28°30'42.092"	39.6	269	150.6	-41.1	40.5	6.3	69.9	259
2013/02/20 01:04:07	95672 2002 GX170	5.5	19.08	7.07	85	1.1	36°53'59" 50°42'23"	31	0.7	TYC 76101465	12.02	7 <sup>h</sup> 02 <sup>m</sup> 09.965 <sup>s</sup> 14°20'57.846"	6.6	284	133.3	-34.1	20.7	-0.8	70.2	294
2013/02/20 01:20:52	32795 1989 WA3	5.2	18.99	7.99	206	0.6	34°30'57" 51°31'32"	322	0.6	TYC 292101873	11.00	5 <sup>h</sup> 21 <sup>m</sup> 11.425 <sup>s</sup> 43°35'53.987"	14.6	323	109.7	-31.6	23.5	-2.9	70.2	224
2013/02/20 02:04:59	18062 1999 XY187	22.9	17.89	5.86	69	1.7	35°37'53" 49°35'23"	223	2.4	TYC 298201064	12.04	8 <sup>h</sup> 44 <sup>m</sup> 37.163 <sup>s</sup> 39°55'36.247"	31.4	296	144.9	-24.9	43.6	-8.1	70.5	370
2013/02/20 04:04:48	534 Nassovia	33.1	15.75	2.87	117	0.8	37°36'15" 50°40'16"	54	4.5	UCAC2 23255715	12.96	19 <sup>h</sup> 37 <sup>m</sup> 11.733 <sup>s</sup> −21°51'37.213"	7.2	137	39.1	-5.7	153.9	-17.8	71.2	264
2013/02/20 16:05:03	73458 2002 NZ47	7.9	19.12	7.30	71	0.6	36°55'14" 49°33'10"	141	0.9	UCAC2 37126280	11.82	4 <sup>h</sup> 45 <sup>m</sup> 40.269 <sup>s</sup> 15°03'58.065"	55.2	175	99.9	-11.0	20.8	54.5	75.4	360
2013/02/20 17:49:06	4006 Sandler	16.2	15.99	2.50	225	3.3	36°25'53" 48°01'47"	177	0.8	UCAC2 38608799	13.60	8 <sup>h</sup> 02 <sup>m</sup> 52.693 <sup>s</sup> 19°11'36.066"	52.9	136	146.7	-27.5	25.7	60.1	75.9	114
2013/02/20 22:17:22	4772 1989 VM	28.8	17.20	3.38	200	4.1	36°18'35" 51°50'23"	0	3.5	UCAC2 35340550	13.87	5 <sup>h</sup> 30 <sup>m</sup> 24.848 <sup>s</sup> 10°18'55.105"	15.0	268	109.7	-50.3	15.8	30.5	77.4	202
2013/02/21 02:39:42	20688 1999 VR62	10.0	18.21	6.83	144	0.7	37°43'27" 50°57'36"	45	1.5	TYC 86500080	11.38	11 <sup>h</sup> 55 <sup>m</sup> 58.779 <sup>s</sup> 7°33'55.558"	31.7	240	155.6	-19.0	78.8	-7.4	78.9	207
2013/02/21 02:46:22	1022 Olympiada	26.4	14.76	1.64	71	1.5	35°52'12" 50°37'46"	335	6.3	UCAC2 33237051	13.39	15 <sup>h</sup> 59 <sup>m</sup> 17.211 <sup>s</sup> 4°09'05.159"	43.4	165	95.3	-18.0	135.4	-8.2	78.9	148
2013/02/21 15:24:51	39234 2000 YD48	5.8	17.66	6.43	30	0.5	35°53'09" 50°08'23"	290	1.4	TYC 84300627	11.23	10 <sup>h</sup> 15 <sup>m</sup> 08.175 <sup>s</sup> 13°25'22.143"	7.4	78	176.7	-4.3	47.2	42.2	82.8	160
2013/02/21 17:57:29	173086 Nireus	10.0	19.62	6.95	47	0.6	36°52'18" 50°14'56"	62	0.9	UCAC2 27840112	12.67	10 <sup>h</sup> 05 <sup>m</sup> 30.203 <sup>s</sup> −11°06'22.166"	13.0	126	158.2	-28.5	53.5	57.8	83.6	460
2013/02/21 19:17:40	24612 1978 UE6	5.8	16.91	4.91	221	0.6	35°30'43" 51°58'24"	346	0.4	TYC 197800094	12.01	10 <sup>h</sup> 53 <sup>m</sup> 51.108 <sup>s</sup> 24°55'12.324"	46.9	108	163.3	-39.8	52.7	57.3	84.0	122
2013/02/21 20:55:00	1328 Devota	57.1	16.06	4.98	151	4.8	35°28'11" 48°47'58"	203	8.4	TYC 493800925	11.09	11 <sup>h</sup> 55 <sup>m</sup> 37.413 <sup>s</sup> −5°41'54.762"	25.9	138	151.4	-49.0	74.1	48.2	84.5	208
2013/02/22 00:26:20	3643 Tien-changlin	8.7	16.17	3.97	28	1.0	36°32'46" 50°13'49"	42	2.8	TYC 299201271	12.23	9 <sup>h</sup> 37 <sup>m</sup> 22.988 <sup>s</sup> 38°53'42.097"	53.0	272	149.7	-38.7	36.7	16.5	85.5	120

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 (%)	$\sigma_{km}$	
2013/02/22 15:28:44	3322 Lidiya	10.0	16.25	3.44	129	0.6	36°01'52'' 48°54'14''	188	1.9	UCAC2 34047626	12.86	4 <sup>h</sup> 34 <sup>m</sup> 02.757 <sup>s</sup> 6°55'13.025''	46.6	169	93.8	-4.7	48.7	34.0	89.5	141	
2013/02/22 15:47:04	111573 2002 AV15	5.0	18.83	6.56	147	0.7	36°27'25'' 51°21'57''	5	0.7	TYC 192001277	12.27	7 <sup>h</sup> 47 <sup>m</sup> 14.258 <sup>s</sup> 26°23'59.832''	44.7	102	139.6	-7.6	10.2	36.7	89.5	209	
2013/02/22 17:02:48	42179 2001 CP25	12.0	19.28	6.59	52	0.7	36°10'42'' 50°30'49''	352	1.1	UCAC2 39146033	12.69	9 <sup>h</sup> 51 <sup>m</sup> 53.105 <sup>s</sup> 20°39'28.296''	32.8	97	166.8	-19.7	28.5	46.8	89.9	453	
2013/02/22 17:19:55	1169 Alwine	9.5	15.41	3.29	87	1.4	36°30'42'' 50°49'12''	11	2.6	TYC 81401520	12.18	8 <sup>h</sup> 52 <sup>m</sup> 53.601 <sup>s</sup> 10°34'42.636''	36.5	122	157.6	-22.4	15.5	48.8	89.9	92	
2013/02/22 21:01:29	10941 1999 CD79	6.0	18.53	7.52	224	0.9	33°40'26'' 48°57'53''	237	0.6	TYC 134701069	11.01	7 <sup>h</sup> 26 <sup>m</sup> 29.988 <sup>s</sup> 16°19'26.597''	47.3	230	136.3	-49.0	8.4	50.6	90.8	186	
2013/02/22 21:18:20	4086 Podalirius	86.9	16.62	3.50	39	5.4	36°04'51'' 49°43'10''	202	8.6	UCAC2 40520841	13.17	12 <sup>h</sup> 13 <sup>m</sup> 36.536 <sup>s</sup> 24°52'41.938''	53.5	120	150.1	-49.6	59.3	48.9	90.9	401	
2013/02/22 21:27:14	218 Bianca	60.6	13.38	1.66	114	7.2	36°57'44'' 49°07'11''	155	11.9	UCAC2 34060198	11.98	6 <sup>h</sup> 01 <sup>m</sup> 55.780 <sup>s</sup> 6°35'24.782''	23.8	251	115.1	-49.9	30.8	47.9	90.9	154	
2013/02/23 01:19:49	12532 1998 KW54	8.7	18.42	8.70	240	0.5	38°58'13'' 51°22'03''	53	0.9	TYC 489600596	9.72	9 <sup>h</sup> 50 <sup>m</sup> 09.243 <sup>s</sup> −1°05'07.057''	16.9	247	166.0	-30.9	29.6	13.6	91.8	217	
2013/02/23 01:49:37	82 Alkmene	61.0	12.97	1.86	225	5.1	38°39'16'' 51°23'59''	48	5.2	TYC 619200491	11.33	15 <sup>h</sup> 31 <sup>m</sup> 47.817 <sup>s</sup> −19°29'29.569''	19.1	164	99.0	-26.3	113.6	9.0	92.0	146	
2013/02/23 15:52:26	5029 Ireland	12.6	17.33	4.89	76	1.6	35°22'32'' 49°41'36''	239	2.0	UCAC2 47632835	12.45	6 <sup>h</sup> 23 <sup>m</sup> 26.472 <sup>s</sup> 47°24'07.064''	71.6	88	116.5	-8.2	44.6	28.0	94.8	245	
2013/02/23 23:19:44	36204 1999 TM101	10.5	17.11	5.23	158	0.7	34°21'49'' 49°21'40''	241	1.6	TYC 25300029	11.89	10 <sup>h</sup> 32 <sup>m</sup> 08.171 <sup>s</sup> 2°25'42.395''	39.0	209	172.8	-45.4	25.8	36.6	96.1	190	
2013/02/23 23:24:56	790 Pretoria	170.4	13.59	1.25	327	12.3	35°17'31'' 47°11'07''	193	8.4	UCAC2 23129792	12.75	10 <sup>h</sup> 43 <sup>m</sup> 53.509 <sup>s</sup> −21°47'18.600''	16.0	200	148.4	-44.9	43.1	35.9	96.1	187	
2013/02/24 16:41:21	925 Alphon-sina	54.3	12.83	1.22	95	5.7	37°25'54'' 50°29'13''	59	12.5	UCAC2 41508031	12.03	5 <sup>h</sup> 55 <sup>m</sup> 57.195 <sup>s</sup> 27°58'27.940''	67.4	162	113.0	-15.8	53.9	25.3	98.4	134	
2013/02/24 16:41:21	925 Alphon-sina	54.3	12.83	1.42	95	5.7	37°25'54'' 50°29'13''	59	12.5	TYC 187101862	11.75	5 <sup>h</sup> 55 <sup>m</sup> 57.195 <sup>s</sup> 27°58'27.940''	67.4	162	113.0	-15.8	53.9	25.3	98.4	134	
2013/02/24 17:54:34	3322 Lidiya	10.0	16.28	5.24	164	0.6	36°43'06'' 51°29'59''	11	1.4	TYC 9401099	11.05	4 <sup>h</sup> 36 <sup>m</sup> 54.464 <sup>s</sup> 6°51'56.121''	40.0	221	92.4	-27.3	73.4	35.5	98.5	143	
2013/02/24 18:01:09	29953 1999 JW86	7.6	18.57	7.45	239	1.6	34°06'11'' 51°41'58''	320	0.8	TYC 186400830	11.12	6 <sup>h</sup> 01 <sup>m</sup> 04.970 <sup>s</sup> 23°19'43.810''	62.2	202	114.1	-28.3	52.7	36.4	98.5	224	
2013/02/24 18:02:05	29924 1999 JN28	7.2	18.43	6.86	80	2.2	37°20'12'' 49°47'42''	111	1.2	UCAC2 35898778	11.58	6 <sup>h</sup> 27 <sup>m</sup> 26.295 <sup>s</sup> 11°40'15.180''	51.7	187	120.1	-28.4	45.8	36.5	98.5	217	
2013/02/24 18:07:13	1895 Larink	17.5	16.85	4.35	252	2.2	36°45'02'' 47°48'21''	172	1.2	UCAC2 31013034	12.52	12 <sup>h</sup> 37 <sup>m</sup> 59.667 <sup>s</sup> −2°04'51.410''	0.6	94	146.5	-29.2	47.2	37.1	98.5	153	
2013/02/24 23:19:45	3628 Boznem-cova	9.5	17.52	6.16	216	0.8	34°08'57'' 48°41'28''	225	1.1	TYC 139202239	11.36	8 <sup>h</sup> 37 <sup>m</sup> 43.188 <sup>s</sup> 15°02'43.780''	35.7	249	151.4	-45.0	17.9	39.2	99.0	205	
2013/02/25 02:31:58	21014 Daishi	5.8	19.71	8.25	232	0.8	38°38'27'' 51°30'09''	46	0.6	UCAC2 28919777	11.46	13 <sup>h</sup> 25 <sup>m</sup> 40.793 <sup>s</sup> −8°20'48.691''	26.9	211	133.5	-19.1	55.7	11.4	99.2	218	



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	Phase (%)	$\sigma_{km}$	
2013/02/25 19:28:35	5081 Sanguin	15.4	16.80	3.90	30	5.8	36°20'45'' 50°19'08''	8	3.9	UCAC2 43079238	12.93	6 <sup>h</sup> 11 <sup>m</sup> 06.612 <sup>s</sup> 32°17'28.124''	-39.9	245	114.9	65.4	37.1	99.8	156
2013/02/25 21:26:20	270 Anahita	50.8	12.31	0.51	6	5.0	36°16'30'' 50°06'16''	353	18.9	UCAC2 30702657	12.86	11 <sup>h</sup> 50 <sup>m</sup> 12.409 <sup>s</sup> −3°03'19.252''	-48.8	151	158.0	21.2	44.2	99.8	106
2013/02/26 02:27:49	1182 Ilona	14.3	16.64	5.03	212	0.5	39°04'33'' 49°26'04''	109	1.6	UCAC2 18251573	11.62	17 <sup>h</sup> 37 <sup>m</sup> 06.749 <sup>s</sup> −32°18'33.601''	-19.4	151	72.6	103.6	15.9	99.8	186
2013/02/26 16:23:37	7812 Billward	23.5	16.89	3.97	8	1.3	36°12'37'' 50°06'08''	318	5.4	UCAC2 34587221	12.95	4 <sup>h</sup> 45 <sup>m</sup> 56.223 <sup>s</sup> 8°28'42.093''	-12.4	191	93.0	95.8	1.4	99.1	172
2013/02/26 23:49:08	5338 Michel-blanc	10.5	16.62	4.24	168	0.8	37°49'01'' 51°11'52''	41	1.5	UCAC2 36473047	12.40	10 <sup>h</sup> 41 <sup>m</sup> 02.030 <sup>s</sup> 13°19'34.991''	-41.4	225	175.1	18.0	36.7	98.4	149
2013/02/27 01:45:59	2938 Hopi	16.6	17.92	5.40	105	0.7	36°21'33'' 49°06'04''	177	2.4	UCAC2 32573182	12.53	18 <sup>h</sup> 01 <sup>m</sup> 32.493 <sup>s</sup> 2°13'49.439''	-25.6	121	70.3	98.0	24.8	98.2	258
2013/02/27 02:55:20	48689 GP1	6.6	17.72	5.90	251	0.6	33°55'59'' 48°23'37''	222	0.5	TYC 341501816	11.82	8 <sup>h</sup> 27 <sup>m</sup> 37.708 <sup>s</sup> 45°10'07.670''	-14.7	314	133.3	62.0	15.1	98.0	164
2013/02/27 15:17:36	63172 YN41	5.5	19.31	7.13	5	0.5	36°12'52'' 50°02'33''	264	0.9	TYC 194600094	12.18	8 <sup>h</sup> 45 <sup>m</sup> 02.697 <sup>s</sup> 27°24'58.838''	-1.6	87	146.2	56.0	-19.6	96.3	234
2013/02/27 19:22:12	17861 KN24	11.5	18.25	5.61	208	1.0	34°32'02'' 48°34'28''	217	1.3	UCAC2 44448997	12.65	4 <sup>h</sup> 54 <sup>m</sup> 25.356 <sup>s</sup> 36°06'21.543''	-38.6	269	97.1	107.3	16.7	95.5	251
2013/02/28 02:33:05	41276 XG83	11.0	18.93	4.95	20	1.2	36°06'00'' 50°10'50''	318	1.7	UCAC2 30713624	13.99	16 <sup>h</sup> 04 <sup>m</sup> 25.369 <sup>s</sup> −3°27'24.713''	-18.0	170	99.3	55.4	20.8	94.1	264
2013/02/28 16:18:56	193570 AR36	14.5	18.84	5.58	48	1.2	35°42'04'' 50°15'16''	299	0.9	UCAC2 43094211	13.27	7 <sup>h</sup> 51 <sup>m</sup> 44.691 <sup>s</sup> 32°18'33.782''	-11.2	108	132.7	82.2	-21.5	90.8	650
2013/02/28 16:37:46	106360 VB7	5.5	20.28	10.09	186	0.9	38°24'11'' 51°02'14''	54	0.6	TYC 291400674	10.19	5 <sup>h</sup> 36 <sup>m</sup> 40.270 <sup>s</sup> 39°38'07.849''	-14.2	181	104.6	110.1	-18.7	90.7	327
2013/02/28 17:26:50	2804 Yrjo	22.8	16.71	3.34	15	9.3	36°04'21'' 50°03'10''	272	4.5	UCAC2 40331291	13.43	6 <sup>h</sup> 39 <sup>m</sup> 18.276 <sup>s</sup> 24°25'35.983''	-22.0	173	118.8	96.9	-11.2	90.6	202
2013/02/28 19:48:46	653 Berenike	39.2	14.57	3.67	161	4.5	36°55'37'' 48°40'01''	163	5.9	TYC 130301778	10.93	5 <sup>h</sup> 48 <sup>m</sup> 28.678 <sup>s</sup> 17°18'34.802''	-41.2	244	106.9	109.6	9.7	89.9	175

