

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: 193

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	Az	Dist	Alt	Dist	Alt	Phase (%)	σ_{km}	
2012/12/01 19:40:45	17190 Re- topezzoli	5.8	18.15	7.10	107	0.7	37°21'52" 49°22'46"	134	1.2	TYC	11.05	9 ^h 37 ^m 49.606 ^s 14°21'28.296"	-55.5	72	107.8	-55.5	37.6	31.6	91.0	148	
2012/12/02 00:16:18	1188 Goth- landia	12.4	16.58	3.43	136	0.5	36°07'58" 48°49'47"	185	2.1	UCAC2	13.20	11 ^h 50 ^m 42.031 ^s 3°40'16.539"	-46.2	106	73.7	-46.2	69.7	58.3	89.9	181	
2012/12/02 00:35:47	45387 2000 AW125	6.6	17.56	5.35	6	0.7	36°17'38" 50°06'09"	5	1.8	TYC	12.21	6 ^h 13 ^m 42.426 ^s 12°52'09.846"	-43.3	215	154.5	-43.3	15.0	57.7	89.9	147	
2012/12/02 03:06:33	23171 2000 HF10	6.9	18.91	6.00	123	0.9	37°23'15" 50°53'58"	40	1.2	TYC	12.92	9 ^h 48 ^m 44.238 ^s 9°06'33.844"	-19.3	191	103.9	-19.3	37.8	42.0	89.3	192	
2012/12/02 04:00:06	15730 1990 UA1	10.5	15.31	1.70	51	1.0	35°37'50" 49°52'48"	248	3.3	UCAC2	13.86	4 ^h 24 ^m 20.999 ^s 17°16'22.628"	-11.0	290	174.8	-11.0	41.5	34.1	89.0	113	
2012/12/02 17:38:59	5670 Rosstay- lor	18.2	17.75	4.42	51	0.6	36°51'42" 49°46'45"	126	1.9	UCAC2	13.35	20 ^h 13 ^m 59.958 ^s -6°32'28.179"	-38.3	250	54.5	-38.3	168.0	4.1	85.4	379	
2012/12/02 18:42:20	31340 1998 KW53	11.0	16.68	3.29	237	0.7	35°37'49" 47°57'35"	191	1.0	UCAC2	13.45	4 ^h 17 ^m 09.133 ^s 10°01'51.733"	-47.9	131	167.1	-47.9	51.8	13.5	85.1	185	
2012/12/03 04:19:18	7487 Toshi- tanaka	11.5	17.16	5.16	12	1.0	36°19'44" 49°56'31"	166	2.8	UCAC2	12.00	10 ^h 21 ^m 16.402 ^s 17°32'11.761"	-8.3	211	100.4	-8.3	31.9	36.1	82.3	161	
2012/12/03 18:34:41	140067 2001 SA111	5.2	18.40	7.79	176	0.7	33°53'47" 50°27'52"	285	0.7	TYC	10.61	1 ^h 27 ^m 34.168 ^s 21°03'43.004"	-46.9	192	135.2	-46.9	101.0	3.0	77.6	185	
2012/12/03 21:12:14	115440 2003 TV6	10.5	17.84	4.12	4	0.8	36°14'59" 50°04'21"	317	1.5	UCAC2	13.74	6 ^h 15 ^m 08.740 ^s 29°48'09.614"	-62.3	126	157.7	-62.3	38.0	27.0	76.7	274	
2012/12/04 00:23:48	20044 1993 FV1	7.2	16.79	5.42	115	1.0	35°51'42" 51°02'50"	345	1.5	TYC	11.37	6 ^h 33 ^m 33.886 ^s 3°28'30.025"	-45.4	203	147.2	-45.4	34.8	50.1	75.6	123	
2012/12/04 00:31:34	20432 1999 BD12	5.8	18.49	6.56	80	0.7	35°33'15" 49°30'34"	221	1.3	TYC	11.94	8 ^h 00 ^m 10.245 ^s 25°43'49.569"	-44.2	174	134.9	-44.2	17.7	50.6	75.6	159	
2012/12/04 19:31:27	9996 ANS	8.3	16.45	4.65	194	0.9	37°30'23" 48°29'34"	153	0.7	UCAC2	11.81	6 ^h 16 ^m 29.800 ^s 12°59'55.173"	-54.7	113	156.5	-54.7	46.9	1.7	68.5	117	
2012/12/04 20:10:34	1555 Dejan	15.8	14.44	1.81	206	1.7	37°21'58" 48°20'04"	158	0.5	UCAC2	12.86	5 ^h 22 ^m 10.035 ^s 32°16'28.694"	-58.9	121	167.2	-58.9	61.1	7.6	68.3	92	
2012/12/04 20:22:31	65522 5570 P- L	6.0	18.35	6.36	134	1.3	35°57'22" 48°52'02"	190	1.0	UCAC2	11.99	8 ^h 23 ^m 12.491 ^s 29°46'31.567"	-59.9	84	131.1	-59.9	25.6	9.4	68.3	175	
2012/12/04 21:40:19	56307 1999 RY125	6.9	19.23	7.92	72	0.7	36°28'12" 49°24'51"	169	1.1	TYC	11.31	7 ^h 41 ^m 59.161 ^s 35°29'49.255"	-62.3	101	139.7	-62.3	36.4	21.4	67.7	242	
2012/12/05 04:40:12	579 Sidonia	85.6	13.82	4.09	270	2.0	37°51'39" 52°15'33"	25	7.7	TYC	9.75	14 ^h 47 ^m 15.094 ^s -9°03'34.124"	-5.7	136	31.7	-5.7	76.9	39.2	64.9	258	
2012/12/05 16:04:53	4711 Kathy	10.5	15.53	2.80	98	1.1	37°39'47" 50°03'22"	89	2.6	UCAC2	12.82	6 ^h 37 ^m 57.459 ^s 15°29'43.389"	-23.3	67	153.5	-23.3	52.5	-31.6	60.3	108	
2012/12/05 19:34:27	18401 1992 WE4	5.5	16.98	5.24	105	0.7	34°56'13" 49°41'27"	248	1.3	UCAC2	11.75	2 ^h 18 ^m 07.590 ^s 5°10'57.566"	-55.1	194	139.4	-55.1	118.5	-8.1	58.8	115	
2012/12/05 21:08:30	16273 Oneill	5.2	17.35	6.76	230	0.6	36°51'57" 48°00'48"	170	0.2	TYC	10.60	6 ^h 40 ^m 07.793 ^s 16°18'39.087"	-62.4	132	153.5	-62.4	54.7	6.2	58.1	113	

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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}
2012/12/05 22:48:40	8387 Fujimori	11.0	16.67	2.86	193	1.5	36°25'12" 48°19'03"	177	1.4	UCAC2 34817764	13.89	7 ^h 03 ^m 55.545 ^s 8°54'46.790"	47.8	162	145.3	-58.1	49.4	21.3	57.4	171
2012/12/05 23:51:34	9053 Hamamelis	8.3	17.60	6.80	21	0.7	36°15'23" 49°51'52"	186	2.0	TYC 133800041	10.81	6 ^h 43 ^m 27.104 ^s 20°29'30.880"	59.9	196	153.8	-50.4	56.0	29.9	56.9	163
2012/12/06 01:55:49	6821 Ranevskaya	11.0	16.65	2.96	168	0.8	34°20'37" 49°13'09"	236	1.5	UCAC2 31505142	13.76	10 ^h 04 ^m 17.099 ^s 0° – 55°35.230"	38.4	166	100.5	-31.3	7.8	42.0	56.0	141
2012/12/06 18:45:49	7451 Verbit-skaya	11.5	16.93	4.12	11	1.3	36°18'42" 50°08'28"	10	2.9	UCAC2 35738397	12.83	7 ^h 22 ^m 49.403 ^s 11°07'27.009"	16.9	93	142.8	-48.6	55.5	-24.9	48.8	156
2012/12/06 18:52:14	17825 1998 GQ8	6.9	18.74	7.36	123	0.6	36°29'27" 48°57'09"	173	1.1	TYC 135400427	11.39	7 ^h 17 ^m 12.937 ^s 19°06'34.817"	24.8	89	146.5	-49.5	58.2	-24.1	48.7	199
2012/12/06 21:38:59	54680 2001 AS9	14.5	19.18	5.47	6	2.3	36°21'53" 50°02'17"	101	1.2	UCAC2 35392679	13.72	8 ^h 48 ^m 01.667 ^s 10°01'36.751"	29.9	112	123.0	-62.6	36.3	0.1	47.4	463
2012/12/07 02:49:29	644 Cosima	19.9	13.83	1.11	48	2.0	36°00'13" 49°39'33"	205	7.1	UCAC2 39441868	13.20	5 ^h 09 ^m 43.093 ^s 21°57'24.190"	24.6	275	176.7	-22.8	92.6	37.7	45.1	99
2012/12/07 14:21:21	22295 1989 SZ9	6.9	17.18	6.22	66	0.6	35°23'02" 50°11'22"	284	1.9	TYC 291901237	10.97	5 ^h 43 ^m 19.677 ^s 42°28'58.394"	17.4	43	158.0	-7.4	92.1	-37.8	40.0	129
2012/12/07 21:26:19	2847 Parvati	10.0	16.07	4.15	248	1.1	35°27'14" 52°13'03"	346	0.3	UCAC2 39298133	11.94	6 ^h 57 ^m 45.048 ^s 21°03'21.782"	53.0	130	152.5	-62.8	77.9	-12.9	36.9	116
2012/12/07 23:58:24	2253 Es-pinette	10.0	15.92	4.47	53	0.8	36°29'58" 50°30'27"	17	3.2	TYC 130300019	11.47	5 ^h 51 ^m 58.887 ^s 17°53'13.640"	52.3	221	166.9	-49.7	94.4	10.1	35.7	111
2012/12/08 00:22:31	991 McDon-alda	31.4	16.16	6.54	42	2.3	36°10'60" 49°40'18"	190	6.9	TYC 188101547	9.63	6 ^h 14 ^m 58.435 ^s 24°36'58.066"	58.1	227	162.7	-46.2	89.8	13.5	35.5	177
2012/12/08 01:04:16	29078 1975 SX1	6.6	17.67	6.34	180	0.5	36°18'54" 48°25'38"	179	0.9	UCAC2 35697267	11.33	4 ^h 54 ^m 06.629 ^s 11°27'43.739"	30.4	250	168.7	-39.8	108.7	19.0	35.2	175
2012/12/08 01:23:50	10765 1990 UZ	15.8	17.06	3.50	147	2.9	34°14'06" 49°58'20"	267	2.5	UCAC2 40350129	13.60	9 ^h 17 ^m 09.355 ^s 24°02'23.289"	64.0	170	121.5	-36.7	50.6	21.4	35.2	189
2012/12/08 02:23:28	69045 2002 XN59	5.8	15.89	7.40	151	0.5	35°59'17" 48°42'14"	188	0.5	HIP 30208	8.49	6 ^h 21 ^m 19.910 ^s 45°06'25.127"	54.0	284	152.1	-27.1	91.8	27.8	34.6	81
2012/12/08 03:05:05	2884 Reddish	13.8	15.66	3.19	195	1.6	34°50'51" 48°34'21"	212	1.5	UCAC2 40832936	12.53	6 ^h 29 ^m 49.573 ^s 25°31'22.075"	36.9	267	159.4	-20.5	88.2	31.1	34.3	138
2012/12/08 17:40:50	18081 2000 GB126	11.5	16.56	5.06	104	0.9	37°44'12" 50°06'05"	87	2.4	TYC 468400850	11.51	1 ^h 15 ^m 30.737 ^s -6°08'19.631"	34.0	181	117.4	-38.7	163.2	-48.0	28.1	153
2012/12/08 22:05:33	5605 Kushida	7.6	16.11	5.26	26	0.8	36°15'39" 50°16'51"	356	2.9	HIP 27825	10.86	5 ^h 53 ^m 16.633 ^s 30°32'56.363"	70.7	173	166.5	-61.9	107.4	-18.3	26.2	100
2012/12/08 22:05:56	119895 2002 CY272	5.0	19.33	7.02	10	0.8	36°13'22" 49°57'46"	206	0.8	TYC 248500417	12.31	8 ^h 59 ^m 04.030 ^s 31°35'07.127"	49.6	98	127.6	-61.9	69.1	-18.2	26.2	241
2012/12/08 23:11:36	67379 2000 OB6	5.0	18.47	6.91	245	0.5	36°59'58" 47°53'45"	168	0.4	UCAC2 41701308	11.56	7 ^h 16 ^m 28.360 ^s 28°12'59.659"	67.8	164	149.7	-56.0	89.8	-8.2	25.7	179
2012/12/08 23:46:01	5240 Kwasan	10.5	14.66	1.97	154	1.2	36°29'06" 48°40'02"	175	1.2	UCAC2 38926194	12.88	5 ^h 06 ^m 01.935 ^s 20°06'39.409"	49.7	235	177.3	-51.6	119.1	-3.0	25.5	98

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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}	
2012/12/09 00:06:56	342 Endymion	60.6	14.24	0.92	182	7.8	34°30'45'' 48°53'16''	224	6.3	UCAC2 33394608	13.92	9 ^h 32 ^m 26.788 ^s 4°57'43.738''	39.7	144	113.0	-48.7	53.1	0.1	25.3	118	
2012/12/09 01:18:01	37206 WQ102	5.5	17.88	5.47	216	0.6	35°35'38'' 51°56'02''	347	0.5	TYC 471101212	12.41	3 ^h 19 ^m 11.984 ^s −3°33'15.169''	1.0	263	143.2	-37.8	142.8	10.2	24.8	159	
2012/12/09 02:17:55	6216 San Jose	8.3	16.18	4.68	104	0.8	36°58'11'' 50°52'31''	28	1.9	UCAC2 40978323	11.52	4 ^h 29 ^m 53.434 ^s 26°04'10.486''	25.0	281	171.5	-28.1	128.5	17.6	24.4	123	
2012/12/09 19:46:49	4536 Drew-pinsky	6.0	17.49	5.07	89	0.7	35°34'35'' 50°42'30''	325	1.6	TYC 83600054	12.43	10 ^h 02 ^m 58.362 ^s 13°08'46.680''	4.5	75	109.8	-56.7	60.6	-47.5	17.5	114	
2012/12/09 22:31:15	2514 Taiyuan	24.5	16.12	3.60	250	2.3	36°25'17'' 52°17'34''	2	1.0	UCAC2 41335736	12.56	5 ^h 56 ^m 21.726 ^s 27°12'54.480''	67.2	189	168.3	-60.2	121.1	-25.9	16.5	121	
2012/12/09 23:26:45	7133 Kasa-hara	8.7	16.72	5.15	147	0.7	36°43'54'' 48°45'38''	167	1.4	TYC 10401307	11.57	5 ^h 21 ^m 59.675 ^s 1°58'51.057''	37.1	214	158.8	-54.3	126.7	-17.5	16.2	134	
2012/12/09 23:26:56	10252 Heidi-graf	7.9	17.09	5.63	102	0.6	36°35'28'' 50°56'45''	12	1.7	UCAC2 40471423	11.47	4 ^h 44 ^m 08.689 ^s 24°33'29.826''	52.4	241	174.2	-54.3	138.1	-17.4	16.2	145	
2012/12/10 01:43:48	16719 1995 UF45	7.6	17.26	5.46	9	1.0	36°21'32'' 50°07'01''	34	2.0	TYC 190900879	11.81	7 ^h 17 ^m 14.322 ^s 23°51'03.796''	54.0	236	150.6	-33.8	104.6	2.8	15.4	150	
2012/12/10 14:23:11	7019 Tagayuchan	7.2	16.94	5.57	140	1.2	37°15'04'' 51°08'53''	29	1.2	TYC 468900202	11.37	2 ^h 03 ^m 45.745 ^s −2°00'17.082''	17.7	116	128.0	-7.7	161.0	-28.2	11.2	127	
2012/12/10 14:48:06	9393 Apta	6.3	17.37	5.23	159	0.5	37°43'17'' 51°09'04''	40	0.9	TYC 129901461	12.15	5 ^h 47 ^m 17.466 ^s 16°40'44.256''	1.2	65	169.5	-11.4	132.6	-32.0	11.0	140	
2012/12/10 15:13:52	1834 Palach	18.2	16.42	3.69	238	2.2	39°33'51'' 49°44'19''	98	1.7	UCAC2 39428507	12.77	2 ^h 16 ^m 21.179 ^s 21°55'48.152''	42.4	107	139.7	-15.3	173.4	-35.9	10.9	177	
2012/12/10 18:29:18	3910 Liszt	15.1	16.53	4.04	145	1.8	35°19'38'' 51°11'42''	332	2.3	UCAC2 40633501	12.51	2 ^h 35 ^m 28.743 ^s 25°16'05.982''	65.1	168	144.4	-46.2	171.4	-56.5	9.9	212	
2012/12/10 22:37:38	8701 1993 LG2	10.5	17.24	8.36	249	0.7	36°35'20'' 47°49'05''	175	0.2	TYC 71200471	8.88	5 ^h 25 ^m 00.070 ^s 14°48'11.198''	53.1	204	171.4	-59.8	142.5	-36.4	8.6	106	
2012/12/11 00:13:41	55309 2001 SN58	5.5	18.88	6.99	104	0.7	35°46'03'' 49°10'35''	201	0.9	UCAC2 39256341	11.89	2 ^h 31 ^m 04.037 ^s 21°23'38.306''	21.3	278	142.6	-47.9	173.4	-21.9	8.2	203	
2012/12/11 18:17:26	5138 Gyoda	10.5	15.69	2.77	41	1.0	36°03'50'' 50°23'01''	337	2.9	UCAC2 39442433	13.00	5 ^h 13 ^m 09.200 ^s 21°49'09.948''	44.0	110	178.6	-44.4	158.0	-54.3	3.9	140	
2012/12/11 20:21:03	5801 Vasarely	6.6	16.17	5.19	84	0.7	35°53'53'' 50°45'29''	341	1.9	TYC 187601333	10.99	6 ^h 02 ^m 28.571 ^s 28°07'58.473''	59.6	125	168.5	-60.2	147.6	-59.3	3.5	97	
2012/12/11 20:46:25	299 Thora	17.1	14.49	1.21	107	2.1	35°58'15'' 50°59'29''	348	3.8	UCAC2 39299968	13.71	7 ^h 04 ^m 24.981 ^s 21°09'02.849''	49.0	121	155.0	-62.0	133.8	-58.2	3.4	98	
2012/12/12 01:56:01	15152 2000 FJ5	5.8	16.18	3.68	173	1.0	35°21'47'' 48°36'51''	202	0.6	TYC 73100429	12.54	6 ^h 20 ^m 43.376 ^s 7°43'06.182''	30.2	243	158.5	-32.1	144.0	-17.5	2.5	113	
2012/12/12 03:22:00	3013 Dobrov-oleva	11.0	15.81	4.03	50	1.4	35°53'48'' 49°40'26''	214	3.7	UCAC2 42198672	11.81	5 ^h 18 ^m 53.499 ^s 29°53'31.842''	23.5	289	173.1	-18.4	160.5	-4.9	2.3	107	
2012/12/12 17:15:21	1059 Mus-sorgskia	22.9	15.19	2.22	23	1.6	36°06'04'' 50°13'10''	325	6.3	UCAC2 35334707	13.12	4 ^h 51 ^m 52.920 ^s 10°13'34.738''	29.4	111	165.4	-34.6	169.2	-39.0	0.7	142	

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2012/12/12 17:55:16	5198 Fongyun-wah	11.0	16.10	3.01	75	1.3	35°51'38" 50°39'50"	336	2.8 3.2	UCAC2 38952796	13.16	6 ^h 44 ^m 45.992 ^s 20°14'18.453"	25.4	88	160.3	-40.9	151.6	-44.8	0.6	135
2012/12/12 21:49:36	9870 Maehata	6.0	16.93	6.15	105	0.5	36°15'56" 50°59'36"	359	1.4 2.1	TYC 183700319	10.78	4 ^h 32 ^m 34.040 ^s 26°27'37.225"	63.1	216	168.4	-63.0	172.4	-59.5	0.3	117
2012/12/12 22:57:05	62832 UN54	6.9	17.69	5.68	65	0.6	36°40'38" 50°34'22"	26	1.4 1.5	TYC 190601182	12.02	6 ^h 55 ^m 19.035 ^s 29°15'06.556"	69.5	177	158.1	-58.1	152.1	-53.4	0.3	183
2012/12/13 00:29:29	1780 Kippes	27.9	15.39	2.32	93	2.2	36°10'24" 49°12'49"	185	5.9 7.0	UCAC2 41177315	13.21	6 ^h 44 ^m 23.315 ^s 26°47'36.639"	60.2	228	160.9	-45.8	155.8	-41.1	0.2	160
2012/12/13 13:38:18	1209 Pumma	25.1	15.88	2.64	149	0.5	36°42'30" 48°44'12"	168	3.2 3.8	UCAC2 22524413	13.34	17 ^h 44 ^m 18.920 ^s -23°13'34.015"	0.9	231	4.6	-1.5	3.0	2.2	0.1	264
2012/12/13 15:56:19	1381 Danubia	24.0	17.20	3.65	105	0.6	36°07'29" 49°06'29"	186	3.6 3.9	UCAC2 23514539	13.59	20 ^h 25 ^m 16.059 ^s -21°12'06.400"	5.4	227	41.7	-21.9	37.7	-17.1	0.2	245
2012/12/13 22:53:09	72685 FG66	6.9	17.65	7.40	193	0.9	34°52'21" 48°34'29"	212	0.8 1.9	TYC 297800678	10.25	8 ^h 39 ^m 11.593 ^s 41°05'33.375"	69.2	105	136.0	-58.6	140.9	-59.1	0.6	147
2012/12/13 23:27:46	20594 RP183	6.6	18.73	7.16	196	0.8	36°15'59" 51°48'45"	360	0.8 1.3	UCAC2 33560966	11.57	7 ^h 51 ^m 38.848 ^s 5°21'33.224"	45.2	171	140.7	-54.6	149.8	-56.4	0.6	206
2012/12/14 04:18:04	248048 HD70	10.5	19.88	7.46	40	0.8	36°21'05" 49°41'28"	173	0.7 0.7	UCAC2 22899983	12.42	8 ^h 42 ^m 33.247 ^s -22°26'50.970"	3.6	228	114.0	-10.1	124.6	-15.4	1.1	625
2012/12/14 14:20:11	10037 BQ	8.3	16.51	7.62	132	0.9	37°15'57" 49°02'46"	148	1.1 4.1	TYC 179800204	8.90	3 ^h 36 ^m 57.535 ^s 22°38'46.504"	24.0	83	154.3	-7.3	136.6	5.9	2.4	80
2012/12/14 17:13:10	14257 AR97	9.5	15.23	3.79	15	2.0	36°11'41" 50°10'09"	334	4.6 4.6	TYC 193401272	11.48	8 ^h 00 ^m 37.440 ^s 27°24'32.896"	13.6	63	145.7	-34.2	161.8	-18.0	2.8	82
2012/12/14 19:01:36	6720 Gifu	13.2	15.69	2.75	24	1.2	36°18'43" 50°16'01"	4	3.6 3.7	UCAC2 43059560	13.03	4 ^h 30 ^m 53.284 ^s 32°05'48.817"	65.8	129	164.3	-50.9	145.0	-34.6	3.2	144
2012/12/14 20:01:48	29552 Chern	7.2	17.10	6.57	73	0.6	36°15'20" 49°23'25"	182	1.7 1.9	TYC 132701190	10.54	6 ^h 22 ^m 02.703 ^s 22°11'09.501"	51.2	123	167.9	-58.4	170.9	-43.3	3.4	151
2012/12/14 20:36:13	1014 Sem-phyra	13.8	14.63	3.90	228	1.5	37°02'02" 48°03'42"	166	0.5 5.1	TYC 129501010	10.76	5 ^h 15 ^m 12.584 ^s 22°24'19.891"	61.6	161	176.5	-61.5	155.2	-47.9	3.5	107
2012/12/14 21:11:08	8823 WS3	10.0	15.77	2.05	239	1.3	39°32'16" 49°34'25"	103	0.4 3.5	UCAC2 33387142	13.90	8 ^h 06 ^m 50.351 ^s 4°48'09.044"	31.9	126	138.0	-63.2	158.9	-52.0	3.6	114
2012/12/14 21:25:14	15560 GR24	7.9	17.87	7.63	76	0.6	36°01'15" 50°42'30"	346	1.6 1.8	TYC 17500537	10.24	7 ^h 09 ^m 44.406 ^s 5°42'11.702"	40.8	145	150.3	-63.4	166.9	-53.4	3.6	175
2012/12/14 21:34:17	47709 DC16	5.2	17.42	4.23	144	0.5	36°17'08" 48°45'15"	180	0.9 1.5	TYC 292601331	13.21	6 ^h 13 ^m 01.365 ^s 38°39'15.183"	77.0	146	162.0	-63.4	157.2	-54.3	3.7	139
2012/12/15 00:18:29	24434 Joseph-hoscheidt	5.0	19.50	8.17	251	1.8	33°16'37" 51°14'32"	302	0.4 1.0	TYC 141200076	11.33	10 ^h 02 ^m 29.823 ^s 15°05'36.156"	49.5	140	115.8	-47.7	138.5	-55.5	4.2	192
2012/12/15 00:38:00	4644 Oumu	11.5	16.56	3.62	88	0.8	35°31'16" 49°25'34"	218	2.6 3.0	UCAC2 43754909	12.98	5 ^h 04 ^m 39.715 ^s 34°06'16.894"	48.2	269	167.7	-44.8	147.8	-53.8	4.3	151
2012/12/15 01:51:04	18152 Heidi-manning	7.2	18.10	6.67	134	0.6	35°16'56" 49°01'59"	212	1.2 1.6	UCAC2 43921961	11.44	4 ^h 14 ^m 22.743 ^s 34°33'35.994"	29.0	290	159.8	-33.2	137.0	-45.2	4.5	185

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}
2012/12/15 17:29:48	4949 Akasofu	7.2	15.93	3.75	241	2.8	33°48'53" 48°35'40"	228	0.1	TYC 64000912	12.22	2 ^h 50 ^m 14.001 ^s 9°52'09.688"	47.0	152	138.8	-36.8	106.6	-9.3	8.2	93
2012/12/15 18:42:28	5138 Gyoda	10.5	15.84	2.22	244	1.1	35°00'09" 52°05'23"	338	0.6	UCAC2 39441832	13.77	5 ^h 09 ^m 30.722 ^s 21°44'27.783"	50.4	122	174.2	-48.1	140.3	-20.3	8.6	140
2012/12/15 18:48:54	8074 Slade	7.6	16.57	5.24	33	1.0	36°35'40" 49°49'40"	138	2.1	UCAC2 40299415	11.34	3 ^h 38 ^m 28.391 ^s 24°27'02.599"	63.2	157	153.6	-49.0	119.4	-21.3	8.7	139
2012/12/15 20:07:43	96866 SV12	5.8	15.98	4.75	243	0.6	32°59'59" 49°32'57"	257	0.2	TYC 6000950	11.25	3 ^h 24 ^m 45.306 ^s 3°31'07.180"	42.6	196	143.0	-59.0	111.5	-33.2	9.0	116
2012/12/15 20:36:15	20505 RE16	10.5	17.79	3.85	172	1.1	35°51'29" 51°33'54"	350	1.5	UCAC2 40511170	13.98	8 ^h 03 ^m 04.915 ^s 24°47'54.022"	43.9	104	146.1	-61.5	170.9	-37.4	9.2	186
2012/12/15 22:09:12	3086 Kalbaugh	7.6	15.94	4.12	101	0.8	36°59'60" 49°16'05"	150	1.8	UCAC2 47019772	11.85	2 ^h 38 ^m 43.525 ^s 44°34'36.186"	53.9	283	138.4	-62.3	106.8	-49.1	9.6	94
2012/12/15 23:33:53	5358 1992 QH	17.4	14.50	3.49	255	1.9	36°50'48" 52°18'48"	9	0.7	TYC 290000623	11.05	5 ^h 12 ^m 19.997 ^s 41°14'21.266"	63.3	265	161.4	-54.1	134.1	-55.0	10.1	126
2012/12/15 23:57:50	2967 Vladis- vyat	31.2	15.40	2.24	236	2.5	38°17'56" 51°44'33"	37	2.6	UCAC2 47300946	13.30	6 ^h 09 ^m 21.978 ^s 45°58'44.007"	70.7	269	156.2	-50.8	140.3	-55.4	10.2	161
2012/12/16 00:54:59	40137 1998 QO60	6.9	18.55	6.57	208	0.9	38°18'54" 51°24'25"	44	0.8	UCAC2 43097999	11.98	8 ^h 55 ^m 33.795 ^s 32°11'15.967"	72.4	183	135.2	-42.3	160.1	-53.9	10.4	177
2012/12/16 00:55:32	343 Ostara	19.1	13.65	0.89	201	2.9	34°52'10" 48°29'44"	210	0.3	UCAC2 41696898	13.39	6 ^h 53 ^m 04.114 ^s 28°06'01.868"	57.5	240	161.8	-42.2	157.6	-53.8	10.5	75
2012/12/16 01:10:12	27966 Chang- guang	6.0	16.71	6.05	246	0.8	38°35'41" 51°42'38"	42	0.3	TYC 237502196	10.67	4 ^h 19 ^m 42.181 ^s 31°58'16.013"	33.8	281	161.2	-39.9	124.8	-52.9	10.6	126
2012/12/16 01:30:01	14566 Hokule'a	6.3	18.84	7.13	47	0.7	36°00'57" 50°26'12"	336	1.3	TYC 79700219	11.71	8 ^h 40 ^m 11.090 ^s 8°46'35.748"	47.4	200	133.5	-36.7	170.9	-51.3	10.6	184
2012/12/16 02:53:40	14700 John- reid	8.3	16.21	4.64	136	0.9	36°32'25" 51°15'27"	8	1.5	TYC 12800187	11.58	5 ^h 50 ^m 00.298 ^s 6°56'19.673"	13.5	265	163.3	-23.3	143.3	-41.8	11.1	124
2012/12/16 17:09:54	13195 1997 CG6	6.3	16.55	5.56	106	0.6	37°03'42" 49°13'59"	149	1.4	TYC 243700178	11.00	6 ^h 56 ^m 32.434 ^s 31°43'22.820"	27.0	72	160.7	-33.6	147.7	4.6	15.7	101
2012/12/16 18:27:08	600 Musa	24.9	14.32	1.20	14	2.3	36°19'50" 49°55'36"	167	7.6	UCAC2 36095653	13.56	7 ^h 04 ^m 31.595 ^s 12°29'42.836"	24.1	99	156.9	-45.7	153.6	-6.6	16.2	131
2012/12/16 21:02:39	27186 1999 CA39	6.9	17.31	5.75	108	0.6	36°15'57" 49°04'23"	181	1.4	UCAC2 40665395	11.57	6 ^h 30 ^m 00.278 ^s 25°03'47.179"	61.0	141	168.2	-63.0	142.5	-30.1	17.1	148
2012/12/17 00:59:53	1078 Mentha	14.5	15.71	4.11	196	0.7	36°00'18" 48°17'55"	186	1.3	UCAC2 34656689	11.62	11 ^h 53 ^m 01.365 ^s 8°00'28.793"	36.1	127	90.1	-41.6	139.2	-51.2	18.6	119
2012/12/17 01:18:59	6869 Fumada	13.2	16.82	4.65	209	0.9	37°21'52" 51°48'07"	22	1.5	UCAC2 33879978	12.18	5 ^h 35 ^m 15.399 ^s 6°19'40.745"	24.9	249	163.0	-38.6	127.1	-51.0	18.7	181
2012/12/17 03:15:53	46667 1996 HM2	5.5	17.56	6.19	237	1.6	33°30'33" 48°55'22"	238	0.3	TYC 139801216	11.37	8 ^h 35 ^m 24.602 ^s 22°24'27.131"	47.0	246	139.8	-19.9	165.2	-42.2	19.4	119
2012/12/17 19:16:41	6085 Fraethi	5.8	16.72	6.37	103	0.7	36°37'07" 49°09'05"	167	1.4	UCAC2 36236944	10.36	4 ^h 38 ^m 03.020 ^s 12°31'56.937"	50.1	153	161.2	-52.8	103.7	-2.8	25.6	107

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}
2012/12/17 21:51:16	2934 Aristo-phanes	27.4	16.45	3.36	246	2.0	36°39'05'' 47°51'08''	174	2.5 5.8	UCAC2 35896509	13.14	6 ^h 20 ^m 53.186 ^s 11°38'43.622''	51.7	173	165.3	-63.2	127.3	-26.1	26.7	188
2012/12/18 17:52:19	4174 Pikulia	14.5	17.06	4.67	107	1.0	35°52'22'' 50°58'35''	344	2.6 3.0	UCAC2 39298210	12.41	6 ^h 58 ^m 03.876 ^s 21°16'46.387''	27.4	89	163.5	-40.2	124.2	20.0	35.0	191
2012/12/18 20:01:36	5333 Kanaya	8.3	15.59	3.74	42	0.9	36°02'08'' 50°23'27''	335	3.2 3.6	UCAC2 33708704	11.89	6 ^h 11 ^m 11.794 ^s 5°40'45.551''	39.9	142	161.4	-58.3	112.8	1.4	35.9	92
2012/12/19 02:10:54	2786 Grinevia	13.2	15.13	1.76	93	1.8	37°12'30'' 50°38'23''	45	3.2 4.2	UCAC2 46383800	13.60	4 ^h 09 ^m 07.154 ^s 42°19'35.337''	28.4	303	151.9	-30.5	83.0	-41.6	38.6	125
2012/12/19 02:11:15	477 Italia	22.5	15.82	3.77	103	0.7	37°29'05'' 50°34'29''	56	3.7 4.1	UCAC2 27303900	12.08	13 ^h 59 ^m 22.911 ^s -12°31'10.950''	12.4	127	55.3	-30.4	131.7	-41.6	38.6	220
2012/12/19 05:25:22	2501 Lohja	12.7	16.22	3.10	150	1.6	38°00'60'' 50°49'32''	55	2.0 3.9	UCAC2 40512519	13.18	8 ^h 20 ^m 01.030 ^s 24°31'48.144''	24.3	280	145.7	-1.2	134.8	-30.1	40.0	130
2012/12/19 18:42:33	9103 Komat-subara	6.0	17.25	6.72	107	0.7	35°46'20'' 50°57'16''	340	1.4 2.2	TYC 138000887	10.54	8 ^h 00 ^m 23.471 ^s 17°54'46.920''	23.6	90	149.5	-47.9	125.8	23.4	45.6	112
2012/12/19 18:46:29	11004 Sten-mark	15.1	16.66	4.33	113	1.5	35°16'35'' 50°49'42''	320	2.7 3.3	UCAC2 46236348	12.35	3 ^h 21 ^m 09.446 ^s 41°48'42.821''	81.7	162	143.7	-48.5	66.1	22.9	45.7	183
2012/12/19 19:12:47	28932 2000 RY102	8.3	16.87	6.91	87	0.7	36°55'42'' 49°23'09''	148	1.7 2.0	TYC 186502341	9.97	5 ^h 41 ^m 57.955 ^s 25°38'01.151''	55.4	123	176.8	-52.2	92.6	19.2	45.8	168
2012/12/19 20:05:28	16502 1990 SB14	5.5	19.48	8.37	53	0.9	36°35'26'' 50°29'03''	24	1.1 1.1	TYC 26100412	11.11	10 ^h 51 ^m 34.138 ^s 7°06'17.030''	1.3	81	106.7	-58.7	166.9	11.5	46.3	197
2012/12/19 20:21:45	6471 Collins	6.0	16.44	4.67	67	0.8	36°22'50'' 49°26'58''	174	2.0 2.5	UCAC2 38059534	11.78	7 ^h 15 ^m 02.734 ^s 17°55'07.700''	45.9	123	159.9	-60.3	114.4	9.0	46.3	97
2012/12/19 21:38:16	34839 2001 SL263	8.7	17.03	5.96	81	0.7	35°50'48'' 49°22'27''	203	1.6 1.8	TYC 126701263	11.07	4 ^h 47 ^m 12.911 ^s 16°12'10.050''	53.4	210	163.1	-63.5	78.6	-2.7	46.9	198
2012/12/19 21:40:19	5548 Thoshar-riot	11.0	16.34	2.57	159	1.0	36°24'44'' 48°37'02''	177	1.6 3.0	UCAC2 44646278	13.88	6 ^h 30 ^m 23.095 ^s 36°48'11.616''	76.0	155	164.2	-63.5	100.3	-3.0	46.9	146
2012/12/20 00:06:19	5464 Weller	11.5	16.90	3.04	18	2.0	36°01'49'' 50°04'06''	277	3.1 3.1	UCAC2 42236048	13.92	10 ^h 29 ^m 06.837 ^s 29°30'02.405''	59.4	120	118.7	-50.0	144.1	-23.7	47.9	147
2012/12/20 03:50:41	5788 1992 NJ	12.6	18.15	4.50	23	0.7	36°26'34'' 50°13'34''	29	2.2 2.2	UCAC2 36123621	13.67	12 ^h 42 ^m 21.171 ^s 12°08'14.876''	51.8	168	83.9	-14.8	159.0	-36.6	49.5	231
2012/12/20 04:46:17	7549 Woodward	8.3	16.98	6.99	57	0.7	37°03'26'' 49°54'46''	105	2.0 2.1	TYC 74100777	9.99	6 ^h 35 ^m 08.798 ^s 11°51'18.191''	3.8	284	164.8	-6.6	101.1	-34.0	49.9	158
2012/12/20 14:01:10	1303 Luthera	85.5	14.49	1.36	235	7.0	37°03'42'' 47°59'45''	166	7.6 20.4	UCAC2 37835745	13.50	3 ^h 45 ^m 30.787 ^s 17°15'31.607''	19.4	86	149.0	-4.3	55.4	40.5	53.7	166
2012/12/20 14:23:04	5521 Mor-purgo	12.0	15.83	3.21	83	2.0	35°41'37'' 49°24'31''	211	3.0 3.6	UCAC2 34041994	12.68	2 ^h 43 ^m 39.305 ^s 6°32'10.091''	24.5	110	131.0	-7.4	39.5	42.2	53.8	132
2012/12/20 16:08:45	3814 Hoshi-no-mura	12.0	16.84	4.10	27	0.8	36°36'27'' 49°55'06''	122	2.8 2.8	UCAC2 39455485	12.76	6 ^h 06 ^m 30.180 ^s 21°44'09.979''	20.6	80	177.0	-23.5	87.4	45.3	54.6	172
2012/12/20 17:42:34	6556 Arcim-boldo	6.9	16.11	3.75	124	1.0	35°50'40'' 51°07'24''	345	1.2 3.0	TYC 137501463	12.39	7 ^h 59 ^m 15.863 ^s 20°48'12.646''	16.9	78	151.4	-38.5	112.7	39.7	55.2	92

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}
2012/12/20 18:03:20	6106 Stoss	10.0	17.24	6.05	81	0.7	35°53'08'' 50°43'38''	339	2.1 2.3	TYC 131102218	11.19	5 ^h 45 ^m 37.488 ^s 21°11'14.139''	41.8	108	176.8	-41.8	81.6	37.6	55.4	171
2012/12/20 20:37:28	20718 1999 XZ97	12.6	17.36	4.16	182	0.8	36°24'30'' 51°40'57''	3	1.6 2.3	UCAC2 41688242	13.23	6 ^h 21 ^m 09.899 ^s 28°02'35.001''	63.5	138	172.7	-61.5	87.8	16.9	56.5	214
2012/12/21 03:37:04	1300 Marcelle	27.8	16.37	3.81	34	3.7	36°06'30'' 50°20'05''	338	6.5 6.6	UCAC2 38076815	12.59	10 ^h 52 ^m 09.110 ^s 17°41'19.847''	54.9	210	111.6	-16.9	144.9	-32.4	59.3	168
2012/12/21 03:38:07	6683 Karachentsov	12.0	16.45	3.17	200	1.1	39°00'42'' 50°29'50''	76	1.5 2.5	UCAC2 46420161	13.35	7 ^h 33 ^m 58.247 ^s 42°05'38.124''	44.2	287	152.6	-16.8	96.3	-32.4	59.4	194
2012/12/21 04:59:17	25590 1999 XM238	5.0	16.89	5.55	182	1.0	35°58'17'' 51°40'07''	353	0.5 1.6	TYC 483701367	11.34	7 ^h 56 ^m 53.585 ^s -2°19'52.009''	3.3	262	141.3	-4.9	110.7	-31.4	60.0	121
2012/12/21 05:05:45	19634 1999 RG45	10.0	17.96	4.29	163	0.6	34°41'03'' 49°00'51''	225	1.4 2.0	UCAC2 42221878	13.69	6 ^h 54 ^m 31.871 ^s 29°32'04.595''	16.7	296	166.0	-4.0	90.5	-31.1	60.0	203
2012/12/21 15:41:53	4049 Noragal'	19.8	17.48	3.94	117	1.2	35°20'13'' 50°54'15''	325	3.2 3.8	UCAC2 39998040	13.57	6 ^h 39 ^m 39.333 ^s 23°05'12.480''	12.9	69	170.9	-19.2	82.8	48.5	64.1	207
2012/12/21 18:22:56	48465 1991 RS20	8.7	16.31	5.23	105	0.8	35°44'44'' 50°55'31''	338	1.8 2.3	UCAC2 41167569	11.09	6 ^h 08 ^m 54.852 ^s 26°32'35.217''	45.8	103	176.3	-44.8	74.2	44.0	65.2	151
2012/12/21 20:18:06	4748 Toki-wagozen	16.6	15.36	1.80	9	1.2	36°12'11'' 49°58'52''	219	4.4 4.4	UCAC2 40653495	13.79	5 ^h 52 ^m 27.876 ^s 25°01'22.391''	62.1	147	177.5	-59.8	69.6	29.6	65.9	151
2012/12/21 23:25:43	19826 Pat-walker	5.2	18.69	6.89	78	1.0	36°19'37'' 49°20'51''	178	1.2 1.3	UCAC2 36643251	11.80	8 ^h 52 ^m 22.029 ^s 13°42'44.049''	52.0	157	138.5	-55.6	111.6	1.2	67.1	161
2012/12/21 23:48:26	1532 Inari	28.1	14.73	1.31	77	2.4	36°01'15'' 49°22'46''	194	6.9 8.0	UCAC2 43774251	13.81	6 ^h 33 ^m 26.829 ^s 34°19'13.894''	65.5	240	167.0	-52.6	76.2	-2.2	67.3	141
2012/12/22 00:44:45	1281 Jeanne	21.6	16.18	4.45	176	1.6	36°34'34'' 51°36'56''	7	2.9 5.6	UCAC2 36096849	11.74	7 ^h 08 ^m 08.767 ^s 12°13'55.016''	44.4	225	160.7	-44.4	86.5	-10.0	67.7	153
2012/12/22 18:14:41	109314 2001 QU134	6.0	17.20	5.64	240	0.6	33°37'29'' 51°23'37''	308	0.5 1.5	UCAC2 46528675	11.57	4 ^h 43 ^m 30.257 ^s 42°59'06.225''	68.9	98	154.1	-43.4	48.0	51.7	74.0	158
2012/12/22 21:45:39	5358 1992 QH	17.4	14.58	1.18	142	2.0	35°55'41'' 51°18'04''	350	2.9 5.4	UCAC2 45951505	13.84	5 ^h 04 ^m 52.381 ^s 40°43'12.189''	74.3	241	158.4	-63.5	49.2	26.1	75.2	127
2012/12/23 19:15:07	52567 1997 HN2	15.1	19.52	7.91	124	0.7	37°54'03'' 49°39'19''	111	1.0 1.1	TYC 640800874	11.61	23 ^h 53 ^m 17.048 ^s -19°16'08.519''	3.2	235	78.9	-52.3	54.0	53.6	82.1	573
2012/12/24 01:32:54	15520 1999 XK98	10.5	16.49	2.96	67	0.8	36°39'16'' 50°36'08''	23	2.6 2.9	UCAC2 39447353	13.60	5 ^h 37 ^m 33.446 ^s 21°58'55.423''	30.6	268	172.2	-37.0	39.6	1.0	84.0	145
2012/12/24 16:04:28	30839 1991 GH1	6.6	16.74	5.38	41	0.8	36°02'33'' 50°22'41''	335	2.2 2.3	UCAC2 39616221	11.36	4 ^h 21 ^m 29.648 ^s 22°01'58.491''	39.5	103	154.2	-22.5	15.0	46.0	87.9	115
2012/12/24 17:18:21	85 Io	154.8	12.16	0.71	60	12.2	36°30'33'' 49°31'54''	165	39.1 42.5	UCAC2 32642716	12.25	1 ^h 03 ^m 21.826 ^s 2°30'40.582''	41.3	198	102.4	-34.3	37.6	54.6	88.3	138
2012/12/24 19:00:05	195337 2002 EG142	10.5	19.74	6.87	148	1.1	36°50'02'' 48°45'58''	165	0.5 0.5	UCAC2 39486946	12.87	9 ^h 09 ^m 23.811 ^s 21°54'36.358''	21.5	81	139.7	-50.1	79.5	58.9	88.7	835
2012/12/24 19:19:07	10339 1991 RK17	5.2	17.04	5.53	27	0.6	36°14'03'' 50°17'22''	352	1.9 2.0	UCAC2 38964777	11.51	7 ^h 37 ^m 08.581 ^s 20°22'47.906''	38.2	104	160.5	-52.7	58.8	58.4	88.7	104

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}
2012/12/25 01:27:45	4365 Ivanova	10.5	16.58	3.13	212	0.8	35°09'34" 48°17'32"	202	1.0	UCAC2 39645338	13.51	6 ^h 33 ^m 50.038 ^s 22°23'37.788"	40.1	257	175.6	-37.8	40.8	10.0	90.3	148
2012/12/25 01:37:55	25960 2001 FQ20	7.2	16.50	4.53	156	0.8	36°18'11" 48°38'49"	180	1.1	UCAC2 32655677	11.99	5 ^h 23 ^m 32.896 ^s 2°47'13.983"	12.5	259	155.9	-36.2	30.3	8.5	90.3	131
2012/12/25 03:14:11	95967 2004 LZ3	5.0	20.25	12.09	203	0.5	38°53'06" 50°48'12"	66	0.6	HIP 46416	8.16	9°27 ^m 55.684 ^s 8°17'33.646"	38.4	229	131.6	-20.8	83.8	-4.5	90.6	191
2012/12/25 04:08:49	4122 Ferrari	14.5	15.42	3.87	85	1.2	36°09'21" 49°17'27"	186	3.4	TYC 77400229	11.59	7 ^h 14 ^m 59.126 ^s 14°45'22.721"	15.2	275	163.6	-12.4	50.3	-10.6	90.9	142
2012/12/25 04:13:39	4122 Ferrari	14.5	15.42	3.85	108	1.2	36°24'26" 51°01'04"	5	3.0	UCAC2 36986274	11.61	7 ^h 14 ^m 58.934 ^s 14°45'21.793"	14.4	276	163.6	-11.7	50.2	-11.1	90.9	142
2012/12/25 15:29:32	4772 1989 VM	28.8	16.20	3.70	246	2.3	37°09'35" 47°54'45"	165	2.2	UCAC2 34788872	12.54	5 ^h 49 ^m 30.478 ^s 8°44'42.762"	10.5	89	163.9	-16.9	27.0	35.2	93.2	162
2012/12/25 15:51:55	562 Salome	30.7	14.98	2.40	214	6.3	38°56'35" 50°58'01"	62	3.1	TYC 63100526	12.71	2 ^h 22 ^m 08.161 ^s 9°27'16.071"	43.9	142	122.2	-20.4	27.8	38.7	93.3	159
2012/12/25 16:06:38	5583 Braunerova	10.5	16.59	5.65	244	1.0	38°00'25" 48°10'07"	150	0.7	TYC 191501518	10.94	7 ^h 37 ^m 19.606 ^s 24°43'42.781"	11.6	65	161.8	-22.7	48.0	40.9	93.3	145
2012/12/25 16:26:43	1342 Brabantia	18.0	16.94	6.02	37	0.5	36°35'08" 50°19'08"	35	3.2	TYC 521701225	10.93	21 ^h 41 ^m 16.335 ^s -4°07'22.741"	19.8	237	52.6	-25.9	98.2	43.8	93.4	224
2012/12/25 21:19:45	5333 Kanaya	8.3	15.56	3.91	224	0.9	35°26'09" 51°59'14"	344	0.2	UCAC2 33526387	11.68	6 ^h 03 ^m 50.007 ^s 5°14'25.727"	45.4	180	161.5	-63.4	29.4	54.1	94.3	91
2012/12/26 00:52:46	67143 2000 AY170	5.0	17.68	5.62	146	0.6	35°02'20" 49°00'44"	218	0.8	TYC 80600066	12.07	8 ^h 17 ^m 31.861 ^s 14°46'49.823"	51.4	212	150.9	-43.4	54.8	23.5	95.0	136
2012/12/26 16:09:45	3068 Khanina	8.7	15.24	2.30	236	1.0	38°10'43" 48°19'13"	145	0.1	TYC 244502067	13.08	7 ^h 00 ^m 06.429 ^s 34°35'00.452"	25.3	66	166.0	-23.1	29.8	34.6	97.2	87
2012/12/26 20:44:34	17183 1999 VO2	6.9	16.49	7.15	197	0.5	35°03'36" 48°27'57"	206	0.6	TYC 137800226	9.34	8 ^h 20 ^m 21.599 ^s 15°51'52.611"	42.1	120	151.5	-61.7	45.4	60.7	97.8	116
2012/12/26 23:17:42	34868 2001 TB136	9.5	17.91	6.00	129	1.5	36°08'39" 48°53'37"	185	1.5	TYC 123100409	11.91	3 ^h 09 ^m 11.352 ^s 20°41'52.198"	25.8	272	135.1	-56.8	29.5	45.6	98.1	202
2012/12/26 23:31:28	2840 Kallavesi	11.0	15.73	4.54	55	0.9	35°57'57" 49°35'45"	205	3.4	UCAC2 42556375	11.20	5 ^h 54 ^m 42.763 ^s 30°53'42.128"	57.0	249	170.0	-55.1	13.3	43.7	98.1	115
2012/12/27 00:11:34	4603 Bertaud	12.0	17.40	4.53	229	1.5	37°27'34" 51°58'19"	21	1.2	UCAC2 43392683	12.88	2 ^h 49 ^m 31.345 ^s 33°25'05.734"	23.4	295	132.3	-49.6	35.0	37.7	98.2	186
2012/12/27 03:09:04	1016 Anitra	13.8	13.85	0.75	64	1.8	36°59'25" 50°24'41"	51	5.1	UCAC2 44118322	13.86	6 ^h 25 ^m 03.236 ^s 35°16'49.057"	30.3	290	167.9	-21.7	19.8	10.4	98.5	74
2012/12/27 05:09:31	118303 1998 UG	6.6	16.35	5.60	109	0.8	36°55'53" 49°09'26"	155	1.4	TYC 83500590	10.75	9 ^h 59 ^m 44.256 ^s 12°53'52.181"	29.1	255	128.2	-3.8	65.1	-5.6	98.6	98
2012/12/27 15:41:11	24446 2000 PR25	21.9	18.55	5.58	21	0.8	36°30'40" 49°55'52"	129	2.1	UCAC2 36038597	12.98	22 ^h 10 ^m 10.255 ^s 11°33'12.849"	41.9	230	64.8	-18.5	108.4	22.4	99.4	417
2012/12/27 15:46:32	3506 French	16.6	17.13	5.34	146	0.5	37°36'58" 49°03'16"	139	2.3	UCAC2 29205243	11.79	22 ^h 29 ^m 04.193 ^s -7°50'35.992"	25.8	216	59.9	-19.3	111.6	23.2	99.4	231

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}	
2012/12/27 19:54:14	3305 Ceadams	12.6	16.53	4.90	122	0.9	35°56'16" 51°07'27"	348	2.4 3.4	TYC 291602409	11.64	5 ^h 53 ^m 03.126 ^s 40°28'26.451"	75.1	123	161.3	-56.9	20.1	57.3	99.6	150	
2012/12/27 20:04:18	83043 QT194	5.5	18.42	6.69	81	0.7	37°13'27" 49°38'41"	124	0.9 1.0	TYC 285301094	11.73	2 ^h 49 ^m 49.110 ^s 41°56'37.516"	66.9	262	131.4	-58.0	45.1	58.1	99.6	229	
2012/12/27 20:18:13	24373 AN143	6.6	17.43	6.34	16	0.5	36°21'47" 50°10'52"	20	1.7 1.7	TYC 14402580	11.09	6 ^h 16 ^m 33.129 ^s 6°28'34.457"	44.5	157	163.0	-59.4	14.6	59.1	99.6	155	
2012/12/27 21:32:43	52692 FO8	13.2	18.04	4.79	222	2.8	36°10'05" 52°02'15"	358	1.4 2.2	UCAC2 41656863	13.26	2 ^h 20 ^m 28.596 ^s 28°05'12.248"	39.5	268	124.7	-63.4	50.8	60.3	99.7	235	
2012/12/28 00:01:28	5503 CE2	8.7	15.82	4.15	154	0.9	35°35'32" 48°44'29"	199	1.2 3.2	TYC 72800082	11.70	5 ^h 53 ^m 32.959 ^s 14°42'55.734"	39.4	242	168.2	-51.1	6.5	45.9	99.8	108	
2012/12/28 00:25:17	34260 QG120	6.6	18.33	6.15	235	2.0	35°25'54" 48°00'34"	195	0.6 1.4	TYC 65500969	12.19	3 ^h 21 ^m 29.679 ^s 14°30'21.068"	11.6	279	135.1	-47.7	40.3	42.4	99.8	191	
2012/12/28 04:21:42	1078 Mentha	14.5	15.54	3.77	27	0.9	36°11'19" 49°49'02"	195	5.1 5.2	TYC 28600726	11.81	12 ^h 08 ^m 55.177 ^s 7°17'10.532"	45.3	204	97.5	-10.6	85.7	6.4	99.9	111	
2012/12/28 21:00:16	5358 1992 QH	17.4	14.69	1.32	182	2.2	35°14'37" 51°32'54"	336	2.0 5.3	UCAC2 45789776	13.75	4 ^h 59 ^m 16.361 ^s 40°08'33.834"	76.1	231	154.1	-62.5	32.1	57.3	99.7	130	
2012/12/28 21:33:23	59879 RM119	5.8	19.77	8.72	57	0.7	36°11'28" 49°32'37"	187	1.0 1.0	TYC 492600032	11.05	11 ^h 23 ^m 02.287 ^s -2°57'54.113"	8.3	105	104.6	-63.4	69.8	58.9	99.7	229	
2012/12/28 22:04:08	9096 Tamotsu	13.2	16.43	3.91	112	1.0	35°57'42" 49°03'40"	192	2.5 3.2	UCAC2 41337478	12.55	6 ^h 01 ^m 05.222 ^s 27°14'10.182"	64.8	212	171.9	-62.8	14.7	59.2	99.7	166	
2012/12/29 02:34:03	5747 CO3	12.0	14.47	1.96	45	1.0	36°33'01" 49°40'45"	155	4.7 5.4	UCAC2 33568652	12.70	8 ^h 54 ^m 37.153 ^s 5°10'13.170"	34.6	230	141.4	-27.4	30.2	29.0	99.5	89	
2012/12/29 15:14:36	1794 Finsen	37.3	15.76	2.98	120	2.7	35°26'57" 49°07'04"	210	7.1 9.4	UCAC2 33713153	12.85	6 ^h 23 ^m 32.802 ^s 5°51'58.103"	2.9	84	162.5	-14.2	19.9	1.7	98.5	157	
2012/12/29 18:37:47	5465 Chu-makov	11.0	16.70	3.37	148	0.8	36°41'15" 48°44'47"	169	1.8 2.6	UCAC2 39282255	13.38	6 ^h 04 ^m 39.082 ^s 21°00'42.161"	49.2	121	172.4	-46.2	22.1	32.3	98.2	166	
2012/12/29 19:07:51	18052 RV199	14.5	16.52	3.39	160	1.1	35°38'41" 51°25'28"	343	2.2 3.3	UCAC2 33207437	13.18	7 ^h 36 ^m 13.795 ^s 4°27'23.307"	27.0	118	156.3	-50.6	12.6	36.8	98.2	176	
2012/12/30 02:24:50	3353 Jarvis	9.8	16.91	6.23	107	0.8	37°32'55" 49°32'05"	122	2.2 4.0	TYC 605200775	10.69	9 ^h 46 ^m 12.380 ^s -18°57'17.731"	17.7	205	117.6	-28.9	44.9	35.8	97.3	98	
2012/12/30 14:42:22	1499 Pori	36.2	16.19	2.48	127	1.7	36°38'37" 48°55'47"	168	6.3 8.1	UCAC2 34765268	13.82	0 ^h 12 ^m 39.594 ^s 8°32'33.260"	48.3	170	87.2	-9.2	117.4	-11.0	95.5	178	
2012/12/30 17:16:06	4840 Otay-nang	27.8	16.12	3.37	16	2.7	36°28'60" 49°59'08"	116	7.2 7.3	UCAC2 37661742	12.80	4 ^h 54 ^m 30.127 ^s 16°35'13.891"	44.5	123	154.4	-33.3	50.2	10.3	95.0	153	
2012/12/30 19:24:11	3634 Iwan	6.6	16.57	6.88	74	0.6	35°55'22" 50°40'28"	340	1.9 2.5	TYC 188900404	9.69	6 ^h 16 ^m 04.553 ^s 29°58'36.640"	61.6	124	171.1	-52.8	34.2	30.0	94.6	107	
2012/12/30 20:57:13	3039 Yangel	11.5	16.65	5.13	115	0.9	36°24'18" 51°04'55"	4	2.3 3.1	UCAC2 31659836	11.53	7 ^h 14 ^m 46.465 ^s 0° - 27°29.827"	37.3	157	155.0	-62.1	23.7	42.9	94.4	149	
2012/12/30 21:25:01	1922 Zulu	11.5	18.02	5.66	161	0.8	38°23'10" 50°35'32"	68	1.6 2.2	UCAC2 19381626	12.37	9 ^h 06 ^m 40.689 ^s -29°53'59.532"	2.8	147	116.4	-63.1	44.6	46.2	94.3	207	

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	Az	Dist	Alt	Dist	Alt	Phase (%)	σ_{km}
2012/12/30 22:13:33	970 Primula	12.0	17.33	3.55	117	1.0	35°28'31" 49°08'10"	210	2.2	UCAC2 30374007	13.82	12 ^h 10 ^m 03.305 ^s −4°17'19.542"	7.4	106	95.4	−62.3	56.6	50.7	94.1	171
2012/12/30 22:28:59	464 Megaira	74.0	13.66	3.42	75	12.4	35°50'51" 50°39'24"	335	19.9	TYC 64100358	10.29	3 ^h 02 ^m 04.137 ^s 7°58'46.582"	20.4	258	125.5	−61.4	81.2	51.8	94.1	122
2012/12/31 01:00:29	154 Bertha	184.9	12.61	1.80	220	14.6	34°09'04" 48°38'36"	224	18.9	TYC 334400393	11.04	5°02 ^m 04.729 ^s 45°12'50.851"	40.9	295	150.0	−42.4	55.7	49.5	93.5	163
2012/12/31 01:29:18	12914 1998 SJ141	10.0	16.35	4.26	250	0.9	39°03'27" 51°27'10"	52	0.5	UCAC2 46421927	12.11	7 ^h 59 ^m 26.170 ^s 42°20'59.659"	62.6	269	154.8	−37.8	30.5	46.6	93.5	128
2012/12/31 14:32:56	3906 Chao	47.1	15.88	4.82	256	1.0	36°13'37" 52°21'04"	359	4.3	TYC 571300666	11.07	19 ^h 19 ^m 36.527 ^s −10°10'32.682"	7.6	244	15.4	−7.7	153.8	−20.3	90.6	301
2012/12/31 16:22:07	1152 Pawona	15.7	14.09	1.35	162	1.4	37°45'10" 48°57'02"	139	1.8	UCAC2 42388644	13.10	6 ^h 20 ^m 45.939 ^s 30°20'32.512"	33.4	81	170.9	−24.5	43.7	−7.1	90.2	105
2012/12/31 18:41:22	6576 Kievtech	10.5	16.78	4.56	149	0.9	35°52'48" 51°21'39"	349	1.7	TYC 186301428	12.24	5 ^h 58 ^m 34.396 ^s 23°24'11.689"	53.5	125	169.4	−46.5	48.3	13.6	89.6	157
2012/12/31 18:41:22	6576 Kievtech	10.5	16.78	4.50	149	0.9	35°52'48" 51°21'39"	349	1.7	UCAC2 39985471	12.30	5 ^h 58 ^m 34.396 ^s 23°24'11.689"	53.5	125	169.4	−46.5	48.3	13.6	89.6	157
2012/12/31 19:17:17	8678 Bal	6.9	18.86	8.58	200	0.8	36°05'31" 51°50'21"	356	0.8	TYC 181301227	10.28	4°02 ^m 28.397 ^s 22°44'42.320"	62.6	191	142.7	−51.7	75.3	19.1	89.4	216
2012/12/31 19:32:40	343 Ostara	19.1	13.40	0.60	122	2.6	36°05'38" 51°08'19"	354	2.7	UCAC2 41865905	13.74	6 ^h 35 ^m 42.119 ^s 28°47'27.672"	59.7	123	173.8	−53.8	41.7	21.5	89.4	76
2012/12/31 20:12:58	7091 1992 JA	7.6	16.51	4.94	109	0.6	37°18'11" 49°19'22"	138	1.7	UCAC2 28685688	11.58	6 ^h 57 ^m 21.554 ^s −8°59'00.407"	27.5	153	147.8	−58.5	40.0	27.5	89.2	112
2012/12/31 21:57:48	40031 1998 KP2	6.3	17.45	6.01	94	0.6	37°14'46" 50°38'07"	46	1.4	UCAC2 42364139	11.45	4 ^h 21 ^m 04.547 ^s 30°10'42.388"	53.5	253	147.1	−62.9	72.1	41.4	88.7	145
2012/12/31 22:34:27	680 Genoveva	83.9	15.26	6.07	196	5.2	35°23'16" 48°23'03"	199	10.3	TYC 290001141	9.19	5 ^h 19 ^m 33.289 ^s 40°22'12.560"	63.4	263	154.9	−60.9	61.4	45.1	88.6	214

