

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: 156

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}	
2013/10/01 01:17:21	4263 Abashiri	10.0	17.19	3.75	198	2.0	37°43'16" 48°31'56"	149	1.2	UCAC2 42019122	13.47	5 ^h 00 ^m 43.337 ^s 29°19'05.396"	68.3	157	110.7	-22.3	64.6	16.5	16.2	170	
2013/10/01 02:37:20	2510 Shan- dong	10.0	15.56	3.06	55	2.5	36°02'24" 50°30'53"	341	2.7	UCAC2 34771991	12.56	3 ^h 11 ^m 44.779 ^s 8°51'56.388"	38.5	230	139.2	-9.9	92.8	28.5	15.7	136	
2013/10/01 15:35:32	21581 Ernestoruiz	11.0	17.89	4.87	192	1.5	38°20'49" 51°10'08"	50	1.4	UCAC2 27388401	13.03	20 ^h 02 ^m 12.030 ^s −12°40'41.766"	25.0	159	111.4	-4.5	151.9	-19.2	12.0	204	
2013/10/01 15:50:48	78144 NU20	5.0	18.98	8.43	81	1.2	37°21'32" 49°48'26"	109	0.9	TYC 519400382	10.56	21 ^h 19 ^m 56.434 ^s 0° − 24°41.482"	31.3	137	132.1	-6.9	168.8	-21.0	12.0	195	
2013/10/01 17:04:01	116439 YN162	7.6	19.99	10.74	199	0.7	34°34'30" 51°28'19"	322	0.5	TYC 232401527	9.25	2 ^h 34 ^m 47.281 ^s 30°49'01.816"	19.7	65	139.9	-18.5	103.5	-28.4	11.7	561	
2013/10/01 17:28:56	22040 XR188	10.0	18.37	5.16	188	0.6	33°39'36" 50°10'08"	274	1.2	UCAC2 17818766	13.22	18 ^h 38 ^m 31.371 ^s −33°06'07.506"	2.9	204	89.7	-22.3	127.2	-30.2	11.6	234	
2013/10/01 20:16:37	87340 QB23	5.0	18.57	6.64	173	0.7	36°14'58" 51°36'10"	359	0.7	UCAC2 44434435	11.93	2 ^h 56 ^m 07.603 ^s 36°08'36.192"	50.0	90	133.3	-41.4	99.3	-30.7	10.9	164	
2013/10/02 01:19:54	1107 Lictoria	79.2	15.28	2.80	253	1.9	34°36'32" 52°03'29"	332	7.6	UCAC2 36472265	12.56	10 ^h 17 ^m 45.347 ^s 13°27'40.735"	12.0	83	37.5	-22.2	7.6	7.0	9.5	258	
2013/10/02 19:12:43	714 Uhula	39.2	13.39	2.13	184	5.6	38°43'24" 49°32'50"	108	4.5	TYC 53400998	11.42	21 ^h 06 ^m 06.271 ^s 3°46'54.946"	41.0	206	127.9	-36.3	153.3	-37.0	5.5	131	
2013/10/02 19:52:39	120336 PX53	5.0	19.86	8.53	15	0.9	36°25'36" 49°57'01"	137	0.8	TYC 123500706	11.33	3 ^h 37 ^m 52.275 ^s 16°20'11.277"	26.4	96	133.4	-40.1	106.5	-37.3	5.5	266	
2013/10/02 23:22:51	28016 YV11	11.5	17.28	4.79	38	1.9	36°44'15" 50°13'37"	58	2.4	UCAC2 31444119	12.50	4 ^h 28 ^m 29.656 ^s 0° − 57°59.929"	33.7	145	121.7	-37.5	97.5	-20.3	4.7	183	
2013/10/03 02:53:25	7710 Ishibashi	11.5	18.11	4.41	36	1.1	36°28'26" 49°44'49"	158	2.1	UCAC2 41163580	13.72	5 ^h 59 ^m 44.727 ^s 26°58'35.959"	67.2	184	99.9	-7.8	77.1	11.0	4.2	219	
2013/10/03 03:06:38	297057 HU111	11.5	19.97	6.68	37	0.9	35°51'28" 49°51'25"	235	0.9	UCAC2 47599524	13.30	2 ^h 46 ^m 30.495 ^s 47°06'48.587"	55.4	286	128.4	-5.7	111.6	13.0	4.1	532	
2013/10/03 15:27:53	13833 XW13	11.5	18.24	4.48	148	0.6	35°13'59" 48°54'45"	211	1.6	UCAC2 27342631	13.77	18 ^h 25 ^m 05.672 ^s −12°43'04.333"	27.3	185	85.9	-3.9	103.1	-12.2	2.3	240	
2013/10/03 23:05:13	7710 Ishibashi	11.5	18.10	4.66	4	1.1	36°18'18" 50°01'02"	159	2.1	UCAC2 41337089	13.45	6 ^h 00 ^m 11.198 ^s 27°00'22.027"	42.9	98	100.6	-39.5	87.9	-32.0	1.4	218	
2013/10/04 00:24:05	1802 Zhang Heng	15.8	17.08	4.32	202	0.6	37°10'35" 48°19'37"	162	1.9	UCAC2 38429182	12.78	7 ^h 55 ^m 54.825 ^s 18°52'59.952"	31.2	98	73.5	-30.6	61.1	-21.9	1.2	224	
2013/10/04 03:28:54	3971 Voronikhin	29.3	16.94	7.09	107	1.0	36°31'33" 50°59'51"	9	4.5	TYC 139300392	9.86	8 ^h 43 ^m 17.605 ^s 16°53'48.785"	49.5	134	62.2	-2.3	51.4	5.9	1.0	232	
2013/10/04 16:37:12	4091 Lowe	16.6	17.11	3.24	192	0.7	33°48'36" 50°44'48"	294	2.0	UCAC2 17130711	13.93	18 ^h 15 ^m 46.896 ^s −34°31'15.709"	2.6	201	82.0	-15.4	85.6	-19.1	0.2	230	
2013/10/04 23:51:56	1419 Danzig	17.5	15.53	1.96	68	0.6	36°38'34" 50°36'55"	22	4.2	UCAC2 36997391	13.76	8 ^h 22 ^m 06.204 ^s 14°35'08.368"	19.2	90	67.5	-34.9	66.9	-36.1	0.0	150	
2013/10/05 01:33:44	2397 Lappa- jarvi	20.9	16.63	2.81	172	0.5	37°25'56" 48°41'33"	152	2.4	UCAC2 35028281	13.90	10 ^h 25 ^m 33.354 ^s 9°15'50.998"	11.7	90	37.1	-20.9	37.6	-22.4	0.0	291	

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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}
2013/10/05 01:48:21	10269 Tusi	11.0	17.58	4.99	68	1.5	36°24'47'' 49°26'28''	172	2.3	UCAC2 39628280	12.60	5 ^h 37 ^m 40.705 ^s 22°10'11.229''	61.8	166	107.0	-18.6	107.5	-20.2	0.0	176
2013/10/05 15:21:39	1213 Algeria	33.2	16.37	2.70	149	3.8	36°24'40'' 51°22'53''	3	5.1	UCAC2 28453909	13.77	19 ^h 50 ^m 15.841 ^s −9°46'36.508''	28.6	162	105.0	-3.6	97.8	-2.8	0.5	190
2013/10/05 15:44:13	32440 2000 RC100	18.2	18.73	7.85	158	1.3	38°06'45'' 49°15'54''	124	1.7	TYC 370401326	10.89	2 ^h 45 ^m 47.718 ^s 54°32'41.056''	27.9	37	124.6	-7.2	131.0	-6.3	0.5	392
2013/10/06 00:59:11	1183 Jutta	17.9	17.28	3.66	171	1.5	37°08'43'' 48°36'60''	159	2.5	UCAC2 40999428	13.66	6 ^h 22 ^m 25.939 ^s 26°02'45.154''	57.1	125	97.7	-26.3	110.5	-37.6	1.3	162
2013/10/06 02:03:08	5484 Inoda	9.1	17.36	5.72	124	0.5	35°23'08'' 50°59'60''	329	1.5	UCAC2 42044900	11.65	6 ^h 48 ^m 20.191 ^s 29°25'09.451''	64.6	136	92.2	-16.6	105.6	-28.7	1.4	210
2013/10/06 02:43:24	51320 2000 KP81	5.2	17.77	5.71	230	0.5	35°46'57'' 52°05'21''	351	0.5	TYC 3400946	12.06	1 ^h 36 ^m 41.742 ^s 5°57'24.504''	18.7	257	167.7	-10.1	174.8	-22.7	1.4	173
2013/10/06 20:04:44	27788 1993 AS	9.5	17.91	10.16	30	0.9	36°23'56'' 49°47'08''	165	2.5	HIP 111233	7.75	22 ^h 32 ^m 09.361 ^s 15°49'30.976''	53.9	205	144.6	-42.6	125.9	-40.9	4.0	148
2013/10/06 21:37:29	135137 2001 QX182	6.3	18.87	7.36	126	0.7	34°47'35'' 50°39'49''	303	0.9	TYC 292900187	11.51	6 ^h 09 ^m 56.020 ^s 40°06'54.954''	37.7	70	101.1	-45.4	123.7	-51.0	4.3	247
2013/10/06 23:32:29	5607 1993 EN	10.0	17.70	3.83	30	0.6	36°27'34'' 50°17'23''	25	2.2	UCAC2 36806053	13.91	7 ^h 10 ^m 06.138 ^s 14°17'16.252''	28.6	102	86.6	-37.8	111.1	-53.6	4.6	179
2013/10/07 03:40:53	1563 Noel	11.5	16.62	3.17	159	0.7	36°06'28'' 51°28'13''	355	1.7	UCAC2 40670685	13.51	6 ^h 48 ^m 40.004 ^s 25°22'05.478''	65.2	191	92.9	-1.2	119.8	-24.7	5.5	134
2013/10/07 15:18:48	146 Lucina	132.2	13.35	1.68	40	2.7	36°34'21'' 49°44'37''	149	20.8	UCAC2 32042509	11.93	13 ^h 20 ^m 36.625 ^s 0°41'13.423''	5.5	264	9.4	-3.8	30.0	7.1	8.2	248
2013/10/07 23:43:56	19784 2000 QJ81	5.2	19.89	7.98	171	0.7	35°36'14'' 48°34'37''	197	0.7	TYC 72801254	11.91	5 ^h 57 ^m 15.981 ^s 13°39'48.900''	41.2	124	105.1	-36.8	142.5	-57.2	10.6	237
2013/10/08 01:17:26	34700 2001 OE45	11.5	17.01	3.88	4	4.7	36°17'31'' 50°00'56''	174	2.6	UCAC2 43054302	13.16	3 ^h 53 ^m 37.706 ^s 32°06'36.300''	69.5	216	130.6	-24.1	163.7	-53.2	11.0	174
2013/10/08 02:23:41	2346 Lilio	12.0	16.10	3.16	200	1.9	37°15'23'' 51°43'59''	20	1.0	UCAC2 40312423	13.00	5 ^h 31 ^m 46.994 ^s 24°11'14.204''	64.0	193	111.2	-13.8	150.3	-45.9	11.3	117
2013/10/08 02:50:14	11745 1999 NH3	10.0	16.24	2.61	207	1.2	34°27'42'' 51°30'22''	321	0.9	UCAC2 31441089	13.74	3 ^h 24 ^m 42.750 ^s 0° − 38°58.202''	26.8	232	142.0	-9.5	161.9	-42.4	11.5	130
2013/10/08 21:39:53	28073 Fohner	5.0	18.98	7.78	159	0.6	36°56'40'' 48°41'04''	163	0.8	TYC 131101309	11.20	5 ^h 50 ^m 57.112 ^s 21°21'53.918''	29.8	92	107.7	-46.1	157.5	-42.7	17.8	169
2013/10/08 22:39:03	5097 Axford	13.0	18.62	4.89	163	1.3	35°32'01'' 51°26'05''	341	1.9	UCAC2 38950200	13.74	6 ^h 37 ^m 06.711 ^s 20°05'17.402''	30.9	95	96.9	-43.4	147.2	-50.5	18.2	188
2013/10/09 00:02:38	49642 1999 JK26	6.3	18.78	8.88	83	0.7	36°21'02'' 50°47'34''	3	1.1	TYC 65401218	9.90	3 ^h 13 ^m 40.329 ^s 14°49'22.447''	54.6	191	145.5	-34.8	163.4	-57.9	18.6	203
2013/10/09 17:36:58	1724 Vladimir	34.8	17.07	3.38	47	1.0	36°38'40'' 50°24'02''	33	5.9	UCAC2 27502684	13.73	16 ^h 49 ^m 00.364 ^s −12°06'12.744''	5.0	244	56.6	-26.3	8.3	1.3	25.6	232
2013/10/10 15:00:28	1545 Thernoe	18.7	17.93	4.07	159	1.0	37°22'29'' 48°48'16''	151	2.5	UCAC2 21405123	13.88	18 ^h 42 ^m 05.834 ^s −25°46'57.787''	14.3	180	82.2	-1.9	12.0	20.1	35.0	243

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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}
2013/10/10 15:53:34	51327 LA19	2000	11.5	17.91	4.31	230	39°02'39" 49°00'57"	120	1.2	UCAC2 43053559	13.62	3 ^h 44 ^m 47.710 ^s 32°19'11.734"	6.9	46	134.7	-10.4	147.0	17.7	35.4	208
2013/10/10 16:35:14	3049 Kuzbass	13.8	17.16	3.61	252	0.9	38°21'02" 48°14'04"	144	1.3	UCAC2 22806486	13.59	19 ^h 48 ^m 34.472 ^s -22°56'54.367"	16.8	187	97.5	-17.1	25.0	14.7	35.7	215
2013/10/10 20:45:43	1653 Yakhontovia	16.6	12.71	1.09	205	4.0	35°16'55" 51°46'42"	340	0.3	TYC 60900028	12.11	0 ^h 37 ^m 23.184 ^s 13°30'06.323"	53.7	177	170.6	-46.4	100.0	-17.1	37.7	79
2013/10/10 21:54:29	1567 Alikoski	67.8	14.73	1.49	120	7.4	36°24'53" 51°07'07"	4	12.0	UCAC2 37655930	13.56	3 ^h 36 ^m 40.256 ^s 16°35'00.053"	49.1	134	141.6	-46.5	142.2	-27.6	38.2	181
2013/10/11 01:13:11	83415 SR40	2001	6.6	18.22	6.34	89	35°21'39" 49°30'51"	228	1.2	UCAC2 41489418	11.88	3 ^h 35 ^m 37.004 ^s 27°56'53.136"	63.2	223	138.7	-25.5	140.5	-54.5	39.7	189
2013/10/11 19:46:58	12379 Thulin	5.5	18.99	8.61	139	0.7	37°41'20" 49°11'09"	134	0.9	TYC 188500699	10.38	6 ^h 10 ^m 18.970 ^s 26°53'53.388"	14.9	66	106.1	-43.1	163.3	1.1	48.6	174
2013/10/11 20:12:56	673 Edda	37.5	15.54	4.52	164	2.3	36°58'25" 51°27'18"	17	5.5	TYC 135501223	11.04	7 ^h 21 ^m 19.026 ^s 20°04'50.739"	3.1	62	89.4	-45.1	176.4	-2.5	48.8	185
2013/10/11 22:17:35	1792 Reni	13.0	15.51	2.53	155	1.8	37°51'58" 49°06'08"	133	1.9	UCAC2 38751676	13.09	5 ^h 34 ^m 30.792 ^s 19°49'43.527"	39.1	107	114.5	-45.8	155.8	-21.0	49.8	120
2013/10/11 22:48:37	49488 BZ23	1999	5.5	18.58	6.62	214	37°19'20" 48°14'40"	160	0.6	TYC 54301193	11.97	21 ^h 38 ^m 13.622 ^s 0°22'30.727"	10.2	258	127.1	-43.6	38.8	-25.8	50.2	178
2013/10/12 03:50:19	10096 RK5	1991	12.0	17.68	6.33	76	35°47'58" 50°39'27"	333	2.3	TYC 242801175	11.35	6 ^h 17 ^m 06.026 ^s 34°29'27.578"	68.6	232	104.9	-0.9	156.0	-56.8	52.4	195
2013/10/12 21:22:17	894 Erda	36.1	14.29	1.67	61	3.1	36°59'15" 49°44'01"	125	8.8	UCAC2 34771381	12.89	2 ^h 57 ^m 16.396 ^s 8°30'50.102"	43.4	144	154.0	-47.8	103.2	-2.2	60.7	150
2013/10/12 21:58:14	2020 Ukko	21.5	16.54	4.37	38	1.6	36°13'47" 49°42'30"	186	3.7	UCAC2 35729624	12.19	6 ^h 54 ^m 42.377 ^s 11°29'33.991"	17.7	93	95.8	-47.1	160.7	-7.5	61.0	228
2013/10/12 22:42:51	165682 OY65	2001	5.0	19.25	7.59	243	32°57'39" 49°37'32"	259	0.5	TYC 291900463	11.66	5 ^h 44 ^m 23.948 ^s 41°38'45.454"	56.5	86	111.4	-44.4	137.7	-14.2	61.3	215
2013/10/12 23:07:05	48498 BS6	1993	10.0	18.06	4.81	189	36°23'22" 48°21'05"	178	1.3	UCAC2 38001987	13.27	23 ^h 11 ^m 59.804 ^s 17°23'00.281"	34.5	255	149.1	-42.3	53.9	-17.9	61.6	217
2013/10/12 23:53:43	3816 Chugainov	15.8	16.10	5.80	204	2.8	38°46'41" 49°10'44"	118	1.7	TYC 290901782	10.30	5 ^h 27 ^m 53.562 ^s 38°07'32.925"	68.4	114	115.2	-37.1	135.7	-25.1	61.9	149
2013/10/13 21:15:10	3132 Landgraf	39.0	16.91	3.16	245	4.4	34°45'57" 52°01'50"	334	3.7	UCAC2 38947198	13.81	6 ^h 30 ^m 01.330 ^s 20°15'22.506"	21.8	84	103.4	-48.1	141.1	9.2	71.5	202
2013/10/14 00:58:17	8855 Miwa	5.0	18.49	6.64	116	1.0	35°12'21" 50°49'28"	318	1.0	TYC 126600249	11.85	4 ^h 32 ^m 00.386 ^s 16°40'54.178"	56.6	190	131.6	-28.5	111.1	-23.9	73.1	140
2013/10/14 02:26:51	3308 Ferreri	17.4	16.63	5.72	228	0.7	34°59'22" 48°10'58"	204	1.8	TYC 485201238	10.92	8 ^h 21 ^m 08.945 ^s -2°19'43.231"	32.0	145	73.7	-14.8	160.9	-36.4	73.6	202
2013/10/14 18:02:20	5670 Rosstaylor	18.2	16.29	2.75	55	1.4	35°39'17" 50°19'39"	305	3.1	UCAC2 41301916	13.63	23 ^h 26 ^m 02.233 ^s 26°42'33.873"	61.8	137	147.5	-31.7	40.9	32.6	79.8	225
2013/10/14 21:48:20	14836 Maxfrisch	9.1	18.10	7.03	162	0.9	34°46'38" 51°08'32"	318	1.3	TYC 583600548	11.08	23 ^h 44 ^m 49.368 ^s -14°50'52.480"	19.8	212	146.9	-48.1	26.3	15.3	81.3	210

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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}			
2013/10/14 22:08:45	21378 1998 CJ4	7.2	17.15	7.25	246	1.2	35°49'28" 52°14'20"	352	0.4	TYC 56800123	9.91	22 ^h 46 ^m 40.660 ^s 2°27'34.881"	26.3	239	141.5	-47.3	14.2	12.5	81.4	136			
2013/10/15 00:15:55	6249 Jennifer	8.7	14.02	2.62	184	0.7	37°37'34" 48°38'40"	148	0.1	UCAC2 42868394	11.51	0 ^h 31 ^m 01.784 ^s 31°53'40.115"	45.2	268	153.9	-34.8	51.3	-6.2	82.1	63			
2013/10/15 00:16:30	5698 Nolde	10.5	18.59	4.83	91	0.6	36°00'14" 50°50'56"	347	1.7	UCAC2 39481070	13.77	7 ^h 48 ^m 56.278 ^s 21°43'56.931"	40.0	104	86.5	-34.7	143.1	-6.3	82.1	232			
2013/10/15 00:29:34	14649 1998 XW62	10.0	16.74	2.87	235	0.8	34°58'24" 48°07'22"	204	0.9	UCAC2 38734998	13.95	2 ^h 33 ^m 22.869 ^s 19°30'16.095"	51.9	228	159.0	-32.9	70.1	-8.3	82.2	163			
2013/10/15 00:35:33	51989 2001 ST286	10.5	17.91	5.42	157	1.1	34°08'19" 49°45'41"	258	1.5	TYC 239400494	12.49	5 ^h 23 ^m 12.515 ^s 32°34'17.167"	70.7	149	119.0	-32.1	109.1	-9.2	82.2	202			
2013/10/15 00:35:33	51989 2001 ST286	10.5	17.91	5.84	157	1.1	34°08'19" 49°45'41"	258	1.5	UCAC2 43238232	12.07	5 ^h 23 ^m 12.515 ^s 32°34'17.167"	70.7	149	119.0	-32.1	109.1	-9.2	82.2	202			
2013/10/15 03:11:35	16037 Sheehan	9.1	17.98	5.67	33	0.8	36°09'29" 50°20'03"	344	1.9	TYC 7100366	12.32	3 ^h 42 ^m 25.439 ^s 6°25'03.234"	28.5	243	144.8	-7.8	82.7	-31.8	83.2	187			
2013/10/15 15:29:41	445 Edna	87.2	13.42	1.71	16	10.3	36°03'56" 50°05'25"	287	26.6	UCAC2 47486509	11.96	2 ^h 06 ^m 55.762 ^s 46°41'17.666"	29.4	51	140.7	-8.2	67.7	22.9	87.2	127			
2013/10/16 01:40:06	28331 1999 CD156	5.5	18.71	6.94	219	1.4	35°30'04" 51°57'16"	345	0.6	TYC 182000449	11.77	4 ^h 20 ^m 21.264 ^s 25°27'58.742"	60.8	221	134.9	-22.7	80.9	-7.8	90.3	183			
2013/10/16 20:39:52	995 Stern-berga	31.6	14.79	1.44	39	3.8	36°30'05" 49°43'44"	157	8.7	UCAC2 37144350	13.68	6 ^h 13 ^m 18.153 ^s 15°12'05.346"	17.0	86	110.0	-48.4	96.4	40.3	94.8	139			
2013/10/16 22:25:57	1971 Hagi-hara	11.5	17.56	3.92	199	0.8	37°27'24" 48°25'49"	155	1.4	UCAC2 41185692	13.67	7 ^h 32 ^m 25.646 ^s 26°41'15.522"	29.7	83	92.9	-47.0	111.9	31.0	95.2	183			
2013/10/17 20:15:19	57626 2001 TE165	12.0	19.46	9.72	15	0.9	36°09'25" 50°09'26"	323	0.9	TYC 7000866	9.74	3 ^h 37 ^m 32.979 ^s 5°26'07.529"	30.3	122	148.3	-47.5	45.5	46.5	98.5	509			
2013/10/17 21:17:12	2053 Nuki	15.1	15.43	1.89	233	2.7	33°01'30" 50°03'39"	270	1.0	UCAC2 36409514	13.75	4 ^h 09 ^m 06.392 ^s 13°19'22.665"	41.0	124	141.0	-49.6	52.6	45.3	98.6	137			
2013/10/17 21:44:36	1044 Teutonia	15.2	16.32	5.82	91	0.9	37°06'37" 49°25'53"	139	2.7	TYC 192701878	10.51	8 ^h 11 ^m 38.182 ^s 22°53'43.125"	14.9	72	84.4	-49.3	108.6	43.8	98.7	206			
2013/10/17 23:09:05	5120 Bitias	33.1	17.18	5.51	177	2.2	36°08'59" 48°27'49"	183	3.3	UCAC2 46765006	11.67	1 ^h 57 ^m 00.553 ^s 43°49'18.899"	74.6	254	145.1	-43.7	40.6	35.6	98.8	358			
2013/10/18 00:44:49	66870 1999 VE48	5.8	17.13	5.72	124	0.7	36°38'32" 51°08'31"	12	1.1	UCAC2 42182184	11.42	2 ^h 37 ^m 19.250 ^s 29°33'26.070"	56.9	245	154.6	-31.6	34.8	22.6	98.9	139			
2013/10/18 15:25:09	1319 Disa	25.1	16.01	4.93	205	2.9	34°02'23" 51°13'11"	309	3.0	TYC 524300660	11.09	23 ^h 10 ^m 36.454 ^s -1°21'19.774"	21.8	121	142.7	-8.4	33.0	11.2	99.9	195			
2013/10/18 15:59:26	173 Ino	154.1	12.68	0.71	175	7.5	36°57'10" 51°33'40"	16	21.2	UCAC2 24970185	12.76	19 ^h 27 ^m 45.306 ^s -18°26'17.341"	20.9	192	85.5	-13.9	90.5	16.6	99.9	156			
2013/10/18 19:07:43	49435 1998 YH1	5.8	18.39	7.07	123	0.8	36°47'45" 48°59'46"	163	1.0	UCAC2 37306147	11.32	4 ^h 07 ^m 29.858 ^s 15°30'46.454"	23.9	94	142.2	-41.6	40.4	43.1	99.9	180			
2013/10/18 21:19:17	1578 Kirkwood	52.4	16.01	3.13	232	2.7	37°26'05" 48°06'10"	159	5.5	UCAC2 38968748	12.95	8 ^h 11 ^m 08.863 ^s 20°25'07.333"	9.9	70	85.0	-50.0	96.1	50.7	100.0	224			

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}	
2013/10/19 00:10:58	4207 Cher-nova	16.6	15.97	4.98	101	1.6	36°06'01" 50°56'51"	352	3.2	UCAC2 40634402	11.01	2 ^h 51 ^m 06.651 ^s 25°29'34.990"	59.5	226	156.1	-36.6	23.3	37.4	100.0	173	
2013/10/19 03:26:57	10579 Diluca	11.5	17.60	4.64	110	1.1	35°31'11" 49°11'41"	210	2.1	UCAC2 39298948	12.98	7 ^h 00 ^m 52.216 ^s 21°06'25.844"	60.1	200	101.5	-6.3	76.6	8.5	100.0	187	
2013/10/19 16:55:48	1003 Lilofee	24.0	14.92	1.69	89	3.0	35°36'13" 50°42'57"	327	5.7	UCAC2 37303616	13.48	3 ^h 25 ^m 41.190 ^s 15°54'06.164"	10.3	78	153.0	-23.2	18.5	20.5	99.4	136	
2013/10/19 17:50:05	4226 Dami-aan	30.9	15.83	3.48	20	1.5	36°17'58" 49°51'54"	177	7.8	UCAC2 26115736	12.39	19 ^h 42 ^m 40.588 ^s -15°38'25.055"	17.0	217	88.5	-31.6	100.5	28.9	99.4	156	
2013/10/19 18:52:53	76583 2000 GF136	10.5	17.78	4.05	243	1.1	39°39'28" 49°48'01"	97	1.0	UCAC2 32128326	13.75	22 ^h 00 ^m 44.795 ^s 0°55'55.343"	38.8	203	125.3	-40.2	64.1	38.2	99.3	219	
2013/10/19 23:21:07	1812 Gil-gamesh	19.2	16.39	4.22	31	2.7	36°31'12" 50°17'01"	32	4.4	UCAC2 35712236	12.19	6 ^h 07 ^m 39.972 ^s 11°01'26.363"	40.8	129	114.0	-43.0	54.4	51.1	98.9	171	
2013/10/19 23:54:48	1516 Henry	19.9	17.28	5.74	147	1.5	36°34'46" 48°44'35"	172	3.1	UCAC2 37527237	11.54	7 ^h 29 ^m 38.914 ^s 16°16'52.532"	38.5	113	95.0	-39.0	72.9	48.1	98.9	185	
2013/10/20 16:30:59	1909 Alekhin	17.4	17.30	4.69	73	0.5	36°26'37" 49°23'53"	171	3.8	UCAC2 23201331	12.62	18 ^h 15 ^m 15.189 ^s -21°49'55.872"	10.2	217	66.3	-19.6	133.9	11.1	96.9	165	
2013/10/20 17:19:27	2933 Amber	20.6	16.92	5.41	154	0.7	37°18'54" 48°50'23"	151	3.1	UCAC2 22764789	11.52	18 ^h 24 ^m 25.714 ^s -22°48'49.462"	5.1	225	68.3	-27.2	132.2	18.6	96.8	198	
2013/10/20 17:30:10	45738 2000 HY19	7.9	19.03	6.82	90	1.0	35°06'57" 49°45'47"	249	1.2	TYC 520100164	12.22	21 ^h 14 ^m 37.861 ^s -4°30'12.589"	35.0	192	111.9	-28.9	88.6	20.3	96.8	243	
2013/10/20 17:39:40	36731 2000 RR50	6.0	16.85	4.84	21	0.5	36°06'33" 50°11'33"	322	2.2	TYC 60500190	12.03	0 ^h 52 ^m 47.020 ^s 9°48'08.903"	36.7	124	168.0	-30.3	32.4	21.8	96.8	109	
2013/10/20 18:28:05	51071 2000 GJ159	6.9	18.23	6.12	32	0.6	36°30'40" 49°48'04"	150	1.5	TYC 233300550	12.11	2 ^h 45 ^m 06.458 ^s 35°28'39.537"	45.9	86	151.1	-37.3	19.7	29.3	96.7	184	
2013/10/21 00:11:25	10478 Alsabti	11.5	17.74	5.17	229	0.5	37°33'56" 48°10'17"	156	1.2	UCAC2 41710943	12.58	8 ^h 59 ^m 19.524 ^s 28°28'53.615"	36.5	88	78.7	-37.1	78.1	53.5	95.7	202	
2013/10/21 00:11:53	29634 1998 VB3	5.2	18.33	6.36	146	0.6	36°02'12" 51°20'52"	353	0.9	TYC 124601006	11.98	3 ^h 34 ^m 07.027 ^s 20°56'54.439"	58.7	208	151.2	-37.0	5.6	53.5	95.7	154	
2013/10/21 15:28:09	6103 1993 HV	15.8	16.30	3.91	50	2.3	35°51'33" 49°41'53"	218	3.6	UCAC2 29568244	12.42	22 ^h 03 ^m 40.524 ^s -6°48'09.973"	26.7	144	122.2	-9.8	89.1	-3.5	92.7	170	
2013/10/21 15:30:55	2342 Lebedev	14.5	17.81	6.75	147	0.8	35°13'32" 51°11'11"	329	1.9	TYC 631003002	11.06	19 ^h 32 ^m 11.166 ^s -21°25'06.738"	18.4	186	83.2	-10.2	128.0	-3.1	92.8	260	
2013/10/21 19:09:49	136 Austria	40.1	13.94	1.61	224	1.8	36°55'51" 48°05'03"	168	3.0	UCAC2 26782557	12.61	19 ^h 42 ^m 43.135 ^s -14°00'47.101"	8.1	237	86.7	-42.8	126.2	29.6	92.0	133	
2013/10/21 19:59:18	3830 Trelle-borg	17.4	16.04	4.74	110	1.7	37°20'31" 49°20'10"	136	3.4	TYC 180100689	11.32	3 ^h 26 ^m 51.023 ^s 26°10'49.432"	48.2	108	151.6	-47.7	11.0	37.2	91.8	160	
2013/10/21 20:03:19	2374 Vlad-vysotskij	15.8	16.99	3.90	73	1.4	35°18'02" 50°12'20"	284	3.1	UCAC2 45163700	13.12	7 ^h 38 ^m 12.125 ^s 38°17'17.853"	19.1	53	98.2	-48.1	51.0	37.8	91.8	189	
2013/10/21 20:57:11	652 Jubilatix	16.9	13.91	1.95	34	1.8	36°20'11" 50°21'02"	6	6.4	UCAC2 28129148	12.15	2 ^h 25 ^m 14.128 ^s -10°19'17.803"	28.3	163	156.6	-50.8	37.5	45.5	91.6	100	

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}	
2013/10/21 20:57:11	652 Jubilatrx	16.9	13.91	1.95	34	1.8	36°20'11" 50°21'02"	6	6.4	UCAC2 28129148	12.15	2 ^h 25 ^m 14.128 ^s −10°19'17.803"	28.3	163	156.6	-50.8	37.5	45.5	91.6	100	
2013/10/21 23:32:54	4067 Mikhel'son	10.0	15.57	2.65	232	2.3	35°13'20" 48°04'47"	199	0.3	UCAC2 42533957	13.02	3 ^h 43 ^m 09.992 ^s 30°43'21.602"	70.7	191	146.4	-42.3	13.5	58.7	91.0	102	
2013/10/21 23:52:03	6249 Jennifer	8.7	13.99	3.91	175	0.6	37°34'18" 48°42'59"	148	0.1	TYC 173400391	10.11	0 ^h 28 ^m 34.992 ^s 27°17'06.732"	41.1	265	155.5	-39.9	51.1	58.7	90.9	62	
2013/10/22 01:22:46	273 Atropos	29.3	15.82	2.72	143	1.0	36°19'06" 48°45'51"	179	4.4	UCAC2 32868918	13.19	9 ^h 52 ^m 30.154 ^s 3°24'36.749"	21.3	111	59.9	-26.9	84.3	53.1	90.5	215	
2013/10/22 03:34:03	47552 2000 AR128	7.9	18.66	6.81	188	0.6	38°10'28" 51°14'18"	46	1.0	TYC 287001337	11.85	3 ^h 37 ^m 11.033 ^s 42°50'54.944"	45.3	287	140.1	-5.9	25.6	35.8	90.0	213	
2013/10/22 16:01:47	35542 1998 FS99	6.3	17.86	6.07	181	0.8	34°08'26" 50°55'25"	302	0.8	TYC 293302300	11.80	6 ^h 09 ^m 11.846 ^s 41°57'06.052"	7.1	26	115.9	-15.5	29.2	-4.5	86.8	143	
2013/10/22 17:16:44	8247 Cheryl-hall	11.5	18.10	5.33	224	0.6	38°20'30" 48°32'59"	139	1.0	UCAC2 23022041	12.78	19 ^h 53 ^m 15.104 ^s −22°06'39.111"	13.7	207	86.8	-27.4	136.3	5.6	86.4	367	
2013/10/22 20:53:29	4540 Oriani	11.0	18.06	5.58	46	1.1	36°05'21" 49°39'27"	198	2.0	UCAC2 27936569	12.49	20 ^h 40 ^m 26.847 ^s −11°04'42.749"	3.4	248	100.1	-51.1	124.9	38.7	85.4	211	
2013/10/23 02:51:14	24074 Thomasjohnson	5.0	18.36	7.51	61	0.8	36°36'21" 49°32'33"	158	1.4	TYC 242200580	10.85	6 ^h 29 ^m 19.740 ^s 30°32'35.877"	68.3	212	113.1	-13.0	21.8	49.3	83.7	132	
2013/10/23 03:15:45	4677 Hiroshi	10.0	17.26	5.87	198	1.1	35°50'10" 48°17'44"	189	1.1	TYC 189400763	11.39	6 ^h 55 ^m 05.429 ^s 23°23'26.098"	61.7	206	107.1	-9.1	25.3	46.1	83.5	155	
2013/10/23 15:48:24	16950 1998 JQ	5.0	16.60	4.01	207	0.6	35°09'30" 51°45'46"	337	0.2	TYC 61500972	12.62	1 ^h 05 ^m 12.583 ^s 11°13'35.906"	21.0	98	168.4	-13.6	65.0	-11.3	79.6	101	
2013/10/23 18:34:13	16815 1997 UA9	10.5	16.21	6.45	228	0.9	36°18'35" 48°00'06"	180	0.8	TYC 468300685	9.76	1 ^h 10 ^m 38.456 ^s −4°20'34.054"	29.7	144	160.9	-39.0	70.3	9.9	78.7	137	
2013/10/23 19:09:32	15424 1998 QE100	5.2	16.37	5.24	229	0.8	35°10'34" 51°58'44"	340	0.1	TYC 1200352	11.13	0 ^h 52 ^m 10.484 ^s 0°31'36.159"	38.6	158	161.3	-43.5	73.2	15.2	78.5	91	
2013/10/23 23:49:00	5897 Novotna	7.6	15.39	4.13	137	1.0	36°10'22" 51°16'45"	357	1.1	UCAC2 38009975	11.28	1 ^h 49 ^m 58.028 ^s 17°38'56.349"	45.4	238	173.9	-40.9	57.0	54.9	76.9	94	
2013/10/24 00:24:14	74459 1999 CQ32	6.0	19.03	8.25	94	0.5	37°01'17" 49°20'50"	146	1.1	TYC 245601349	10.79	7 ^h 29 ^m 43.007 ^s 32°45'05.394"	57.6	108	101.3	-36.1	25.6	57.7	76.8	196	
2013/10/24 02:46:16	27531 2000 HH66	7.6	17.17	10.01	161	0.6	35°36'42" 48°40'05"	197	1.0	HIP 9828	7.16	2 ^h 06 ^m 29.644 ^s 13°27'42.730"	17.4	270	176.5	-14.1	55.5	55.1	76.0	113	
2013/10/24 16:01:00	3378 Susan-victoria	6.9	17.62	6.59	239	0.7	39°04'50" 48°54'19"	122	0.4	TYC 578401311	11.03	21 ^h 16 ^m 14.877 ^s −14°46'41.741"	24.8	170	105.7	-15.9	138.9	-15.2	71.4	137	
2013/10/25 16:58:50	86021 1999 KQ4	6.3	16.17	3.82	211	0.5	34°11'16" 48°44'15"	226	0.7	TYC 320801857	12.39	22 ^h 22 ^m 41.109 ^s 42°52'21.601"	80.1	131	124.1	-25.5	106.2	-15.7	62.1	187	
2013/10/25 17:58:56	15082 1999 CT30	12.0	17.19	4.65	195	1.6	35°04'15" 51°37'07"	334	1.5	UCAC2 33158402	12.56	23 ^h 35 ^m 38.586 ^s 3°37'03.090"	42.4	162	143.2	-34.7	113.3	-9.5	61.7	189	
2013/10/25 21:06:34	12411 Tan-nokayo	6.0	16.46	6.97	90	0.7	35°37'60" 50°44'25"	329	1.6	TYC 177200681	9.49	2 ^h 42 ^m 47.462 ^s 24°38'52.421"	62.8	153	164.1	-52.4	65.7	16.7	60.5	98	

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}	
2013/10/25 22:45:25	12281 Chaudmont	9.5	17.78	5.67	166	1.1	35°40'16'' 51°28'59''	345	1.4	TYC 135000329	12.12	7 ^h 15 ^m 00.492 ^s 18°20'56.827''	35.3	104	104.7	-48.4	3.6	32.0	59.9	177	
2013/10/26 00:24:14	6570 Tomohiro	14.5	16.84	4.33	116	0.9	36°37'27'' 49°01'59''	168	2.5	UCAC2 36228552	12.53	1 ^h 37 ^m 10.469 ^s 12°42'27.250''	33.4	248	174.1	-36.6	85.1	45.9	59.2	192	
2013/10/26 01:47:50	83170 2001 QZ281	7.2	18.65	7.88	56	2.6	35°30'53'' 50°07'26''	279	1.3	TYC 242000650	10.77	6 ^h 16 ^m 28.266 ^s 30°39'21.902''	70.7	190	118.8	-23.9	22.9	54.3	58.7	217	
2013/10/26 14:17:55	2475 Semenov	16.6	17.42	4.20	80	0.6	36°10'35'' 49°19'57''	186	2.6	UCAC2 26300826	13.24	18 ^h 30 ^m 27.685 ^s -15°00'08.033''	24.7	189	64.6	-0.2	158.5	-23.7	53.8	246	
2013/10/26 16:15:59	260 Huberta	94.7	15.10	1.47	192	3.1	35°07'04'' 51°36'13''	334	11.3	UCAC2 24674100	13.95	18 ^h 22 ^m 29.014 ^s -18°38'22.891''	12.9	219	62.2	-18.9	155.6	-23.8	53.1	247	
2013/10/26 17:01:26	7017 Urad-owan	5.8	17.21	5.82	5	0.5	36°13'42'' 50°01'29''	239	1.9	TYC 5100220	11.40	2 ^h 57 ^m 02.610 ^s 4°18'40.247''	11.4	97	164.5	-26.2	76.3	-21.3	52.8	120	
2013/10/26 17:06:39	19788 Hunker	5.2	17.04	5.54	65	0.9	36°02'26'' 50°36'21''	344	1.6	TYC 7600818	11.50	4 ^h 03 ^m 01.657 ^s 3°45'30.257''	1.2	86	149.3	-27.0	60.6	-21.0	52.7	114	
2013/10/26 20:32:42	5424 Covington	7.9	16.08	5.45	164	1.8	34°43'26'' 51°08'05''	317	0.9	TYC 58900003	10.64	23 ^h 49 ^m 36.451 ^s 3°04'44.393''	39.5	210	145.2	-51.6	123.4	2.9	51.3	103	
2013/10/27 00:06:37	9584 Louchheim	5.2	16.02	3.09	35	0.7	36°10'15'' 50°20'58''	346	2.3	TYC 177400843	12.99	2 ^h 25 ^m 38.596 ^s 26°16'43.981''	53.2	244	165.5	-39.4	82.4	35.3	49.9	83	
2013/10/27 19:08:20	58044 2002 WF	7.6	16.46	5.70	98	1.7	37°01'19'' 49°18'35''	147	1.9	TYC 332802534	10.77	4 ^h 10 ^m 37.737 ^s 46°16'16.998''	49.1	70	137.8	-44.6	68.7	-16.6	42.5	106	
2013/10/27 21:25:52	10743 1988 VS2	7.9	17.27	5.66	157	0.9	36°59'17'' 51°23'14''	19	1.2	TYC 75001634	11.61	6 ^h 39 ^m 45.938 ^s 10°27'50.333''	23.5	102	113.8	-53.1	34.8	1.7	41.4	150	
2013/10/27 23:03:02	44929 1999 VR37	5.2	19.25	7.53	81	0.9	35°28'29'' 49°32'32''	226	1.0	TYC 188100896	11.72	6 ^h 12 ^m 57.565 ^s 25°13'56.270''	53.7	120	121.5	-47.3	42.8	16.6	40.9	184	
2013/10/27 23:36:04	9630 Castellion	8.3	18.90	8.04	215	0.5	35°31'43'' 51°55'08''	345	0.9	TYC 139600668	10.86	8 ^h 46 ^m 17.482 ^s 19°51'51.889''	31.2	96	85.9	-43.6	9.9	21.6	40.6	219	
2013/10/28 00:24:01	20885 2000 WD2	7.9	16.20	6.39	54	0.8	36°09'10'' 49°34'01''	190	2.3	TYC 230800159	9.82	2 ^h 05 ^m 30.527 ^s 30°18'29.614''	49.7	259	162.6	-37.2	97.4	28.8	40.3	124	
2013/10/28 14:16:48	51852 2001 OB95	12.6	16.98	3.15	158	0.8	38°25'19'' 50°26'32''	74	1.9	UCAC2 43735094	13.89	1 ^h 48 ^m 12.520 ^s 34°14'39.714''	20.1	60	158.3	-0.6	106.0	-23.3	34.9	191	
2013/10/28 14:49:54	1156 Kira	11.5	16.28	4.81	140	1.7	37°37'15'' 49°07'45''	137	2.0	TYC 580801247	11.48	22 ^h 02 ^m 33.848 ^s -13°59'07.775''	19.2	144	112.6	-5.7	171.6	-26.3	34.7	126	
2013/10/28 15:06:14	58721 1998 DX14	9.1	17.89	6.01	131	1.1	35°05'35'' 50°56'50''	320	1.5	UCAC2 45974271	11.88	6 ^h 57 ^m 35.590 ^s 40°44'38.761''	1.7	12	112.5	-8.2	47.3	-27.6	34.6	185	
2013/10/28 15:57:15	54927 2001 OD100	6.3	18.69	6.78	122	2.2	34°42'07'' 50°27'50''	292	1.1	UCAC2 43939546	11.91	6 ^h 01 ^m 12.820 ^s 34°48'43.273''	2.7	34	124.1	-16.4	55.5	-30.5	34.5	183	
2013/10/28 17:53:14	4810 Russianova	7.9	17.52	7.65	23	1.1	35°58'08'' 50°02'22''	268	2.1	TYC 638400203	9.87	22 ^h 13 ^m 23.159 ^s -20°09'16.035''	19.5	188	112.5	-34.7	165.9	-29.9	33.6	147	
2013/10/28 20:59:19	27587 2000 XG39	5.5	18.21	7.73	35	1.1	36°46'21'' 49°59'34''	100	1.4	TYC 294200459	10.48	6 ^h 52 ^m 37.074 ^s 39°12'34.001''	38.0	72	113.8	-53.3	50.1	-11.3	32.3	152	

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)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Dist	Alt	Phase (%)	σ_{km}	
2013/10/28 22:09:44	18996 Torasan	15.8	17.46	3.97	162	35°07'42'' 48°47'50''	211	2.1	UCAC2 31859590	13.52	8 ^h 50 ^m 29.074 ^s 0°05'09.439''	2.3	93	80.8	-52.0	16.7	-1.2	31.8	230	
2013/10/29 02:57:49	74538 1999 JS12	9.5	18.00	6.55	50	35°36'32'' 49°55'41''	255	1.9	UCAC2 41332207	11.46	5 ^h 40 ^m 22.966 ^s 27°27'41.120''	56.3	241	129.9	-13.4	64.3	39.8	30.1	191	
2013/10/29 20:18:26	425 Cornelia	63.9	13.83	2.09	229	37°29'57'' 48°09'04''	158	5.0	TYC 64600377	11.91	2 ^h 49 ^m 10.928 ^s 14°09'07.398''	49.7	144	172.0	-51.8	114.0	-25.5	23.7	142	
2013/10/30 00:23:48	1796 Riga	73.8	16.04	3.55	243	35°35'23'' 47°55'03''	192	7.4	UCAC2 30365622	12.53	9 ^h 13 ^m 25.782 ^s -4°24'56.703''	16.6	119	75.2	-37.7	23.4	9.4	22.2	243	
2013/10/30 02:30:50	26370 1999 C162	10.0	17.57	4.54	52	36°25'05'' 50°30'23''	10	2.3	UCAC2 42551794	13.05	5 ^h 39 ^m 30.837 ^s 30°57'57.438''	62.0	238	130.6	-18.0	76.9	27.7	21.4	168	
2013/10/30 03:05:50	55572 2002 CN140	5.0	18.17	6.90	146	37°18'39'' 51°11'06''	30	0.8	TYC 240000417	11.27	5 ^h 03 ^m 22.049 ^s 37°23'23.605''	55.5	266	136.2	-12.4	84.9	32.1	21.2	153	
2013/10/30 03:35:09	57674 2001 UD35	6.0	18.55	7.23	204	38°42'46'' 49°06'51''	121	0.7	TYC 188501309	11.32	6 ^h 14 ^m 33.073 ^s 27°51'09.479''	55.5	243	123.3	-7.7	69.4	35.3	21.2	181	
2013/10/30 14:11:23	17052 1999 FS51	6.3	17.64	5.46	98	35°50'36'' 50°53'09''	341	1.4	TYC 579201033	12.19	21 ^h 48 ^m 50.801 ^s -10°41'39.712''	20.5	139	108.6	-0.3	157.9	-18.5	17.5	150	
2013/10/30 20:13:11	3737 Beckman	12.0	13.43	2.43	123	34°33'56'' 50°01'29''	269	2.0	TYC 403000086	11.13	1 ^h 14 ^m 44.412 ^s 61°37'06.303''	78.2	360	130.9	-51.8	114.6	-34.5	15.6	87	
2013/10/30 23:44:06	2232 Altaj	13.8	15.52	7.20	111	35°49'57'' 51°00'01''	343	2.1	HIP 14567	8.32	3 ^h 08 ^m 05.733 ^s 16°55'31.579''	51.6	220	168.2	-43.4	123.6	-7.1	14.5	67	
2013/10/31 01:13:05	51214 2000 JF22	6.6	17.58	6.93	188	35°58'11'' 48°22'30''	187	0.8	TYC 60800822	10.65	0 ^h 51 ^m 41.928 ^s 10°11'09.018''	13.5	270	157.9	-30.6	158.0	6.5	14.0	173	
2013/10/31 03:49:09	8790 1978 VN9	5.2	18.90	8.66	192	36°44'33'' 51°44'47''	10	0.6	TYC 137201660	10.24	7 ^h 34 ^m 02.676 ^s 21°37'41.553''	57.8	216	105.9	-5.8	63.4	27.9	13.3	165	
2013/10/31 15:54:59	706 Hirundo	29.2	15.98	4.32	245	37°53'26'' 48°06'30''	152	2.8	UCAC2 20010944	11.68	18 ^h 36 ^m 36.902 ^s -28°51'26.527''	5.0	211	60.0	-16.8	96.0	-30.0	9.9	207	
2013/10/31 18:04:04	2290 Helffrich	11.0	17.69	5.50	71	36°19'26'' 49°24'30''	178	1.9	UCAC2 25432664	12.20	19 ^h 52 ^m 18.599 ^s -17°21'03.326''	9.9	227	78.5	-37.1	113.9	-42.6	9.3	221	
2013/10/31 22:52:47	5093 Svirelia	10.5	17.11	3.21	73	36°21'34'' 49°23'48''	176	2.4	UCAC2 33924189	13.96	8 ^h 22 ^m 09.097 ^s 6°05'44.901''	20.2	105	92.1	-49.5	59.4	-25.1	8.1	155	
2013/10/31 22:53:58	2567 Elba	24.5	17.81	6.07	123	36°05'23'' 48°57'00''	187	2.8	TYC 83800789	11.75	10 ^h 25 ^m 19.090 ^s 9°10'17.869''	3.1	79	63.8	-49.4	31.0	-25.0	8.1	330	

