

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: 147

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}
2009/09/30 23:56:48	48932 1998 QB	5.8	17.35	6.86	65	0.6	36°16'23" 50°37'38"	359	1.7	TYC	10.49	1 ^h 36 ^m 24.559 ^s 19°33'40.528"	55.4	217	156.6	-33.2	59.3	3.2	89.6	120
2009/10/01 02:41:42	4741 Leskov	14.5	18.31	4.52	218	0.5	36°30'48" 48°05'49"	176	1.6	UCAC2	13.81	8 ^h 38 ^m 51.850 ^s 19°32'15.236"	44.5	116	60.9	-9.2	155.2	-21.8	90.2	252
2009/10/01 03:06:48	2180 Mar-jaleena	20.9	16.67	4.51	233	1.7	37°35'01" 51°58'34"	23	2.2	TYC	12.18	6 ^h 09 ^m 26.770 ^s 19°57'49.042"	60.2	181	95.7	-5.2	120.6	-25.5	90.3	229
2009/10/01 18:10:33	5404 Uemura	10.5	15.14	2.77	176	1.4	37°22'15" 51°28'23"	26	0.8	UCAC2	12.46	23 ^h 12 ^m 35.919 ^s -11°34'48.650"	23.6	149	155.3	-28.2	10.7	32.5	93.6	94
2009/10/01 18:30:06	6797 Oster-sund	12.6	17.24	4.58	191	0.9	37°42'49" 48°36'31"	148	1.6	UCAC2	12.68	19 ^h 05 ^m 59.219 ^s -22°54'53.137"	9.8	215	96.6	-30.8	54.5	33.7	93.7	175
2009/10/01 20:17:10	142 Polana	55.3	15.29	1.67	214	6.4	38°10'47" 48°34'09"	141	5.1	UCAC2	13.89	5 ^h 39 ^m 39.529 ^s 25°17'02.117"	16.9	71	103.2	-41.5	104.7	34.9	94.1	143
2009/10/01 20:28:24	4308 Maga-rach	11.0	15.42	2.79	22	2.0	36°15'52" 50°14'42"	356	2.6	UCAC2	12.72	1 ^h 53 ^m 17.665 ^s 31°41'12.097"	58.8	113	145.8	-42.1	57.9	34.5	94.0	169
2009/10/01 21:19:20	2791 Paradise	16.6	15.71	5.72	232	1.1	38°23'15" 51°39'07"	40	1.1	TYC	9.99	3 ^h 17 ^m 22.927 ^s 60°02'06.462"	64.1	51	115.2	-43.6	83.0	31.6	94.2	133
2009/10/02 02:32:38	13230 1997 VG1	18.2	18.18	9.64	192	1.4	36°28'36" 48°19'51"	176	1.8	HIP	8.54	2 ^h 15 ^m 52.730 ^s 11°21'34.361"	33.0	246	153.3	-10.9	52.1	-9.9	95.2	357
2009/10/02 23:40:42	7046 Reshet-nev	15.8	16.28	2.57	165	1.6	36°05'15" 48°34'10"	185	2.0	UCAC2	13.82	2 ^h 22 ^m 57.604 ^s 19°14'33.268"	58.9	194	149.7	-35.7	44.9	26.1	98.2	252
2009/10/03 02:35:28	1115 Sabauda	68.8	14.19	2.97	223	5.0	33°21'30" 50°47'14"	291	6.3	UCAC2	11.30	1 ^h 02 ^m 01.152 ^s -14°31'59.284"	0.3	247	160.4	-10.7	26.6	0.5	98.5	154
2009/10/03 02:54:46	93636 2000 UF81	5.5	19.26	7.36	195	0.6	34°28'30" 51°22'02"	319	0.7	UCAC2	11.90	5 ^h 40 ^m 04.270 ^s 26°10'11.500"	65.8	195	104.4	-7.6	88.9	-2.5	98.5	215
2009/10/03 03:39:52	333 Badenia	78.2	14.93	1.54	285	4.8	36°20'17" 47°29'26"	179	4.5	UCAC2	13.69	6 ^h 49 ^m 34.815 ^s 26°57'30.565"	67.2	182	88.9	-0.4	103.8	-9.3	98.6	169
2009/10/03 18:54:34	13690 Lesley-martin	8.7	18.85	7.23	9	2.1	36°12'47" 50°06'47"	324	1.6	TYC	11.62	4 ^h 32 ^m 58.880 ^s 38°37'57.588"	25.4	59	116.8	-34.6	67.3	39.6	99.6	223
2009/10/03 21:29:37	26076 1979 MM1	7.9	18.58	6.62	108	0.6	36°46'09" 49°07'46"	161	1.4	TYC	11.96	6 ^h 23 ^m 51.507 ^s 8°34'06.603"	10.1	89	94.4	-44.3	90.9	46.5	99.7	200
2009/10/03 22:41:15	6610 Burwitz	8.7	15.93	4.36	254	1.4	33°27'22" 51°27'33"	308	0.1	UCAC2	11.59	4 ^h 43 ^m 38.803 ^s 18°46'18.870"	44.7	118	118.7	-41.5	65.4	42.5	99.7	88
2009/10/03 23:27:32	489 Comacina	139.4	13.13	0.79	149	10.3	34°54'39" 51°03'32"	319	22.7	UCAC2	13.06	1 ^h 43 ^m 38.843 ^s 0° - 13'02.939"	38.3	199	163.4	-37.4	22.2	37.9	99.7	146
2009/10/04 00:05:47	859 Bouzareah	74.0	15.05	2.26	242	4.8	38°48'27" 48°37'10"	131	6.5	UCAC2	12.93	6 ^h 30 ^m 32.839 ^s 32°56'45.801"	51.7	98	94.2	-33.0	87.9	33.2	99.8	174
2009/10/04 01:51:25	54617 2000 RS98	6.3	18.88	7.39	236	1.6	37°17'60" 52°04'18"	18	0.6	TYC	11.49	4 ^h 05 ^m 41.425 ^s 31°48'49.217"	68.6	218	124.6	-17.9	56.6	18.2	99.8	208
2009/10/04 15:10:23	13684 Bor-bona	10.5	17.39	5.38	134	0.8	34°47'12" 50°46'18"	307	1.7	UCAC2	12.01	23 ^h 42 ^m 28.989 ^s 22°51'20.609"	24.7	83	156.6	-1.4	20.3	4.8	99.7	198

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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}
2009/10/04 15:10:23	13684 Bor- bona	10.5	17.39	5.38	134	0.8	34°47'12" 50°46'18"	307	1.7	UCAC2 39953772	12.01	23 ^h 42 ^m 28.989 ^s 22°51'20.609"	24.7	83	156.6	-1.4	20.3	4.8	99.7	198
2009/10/04 16:12:01	28079 1998 QY63	12.0	17.87	6.65	245	1.1	33°13'43" 49°05'25"	244	1.1	TYC 574301147	11.22	20 ^h 04 ^m 42.461 ^s −9°39'04.561"	30.0	170	109.5	-11.3	74.7	14.5	99.6	197
2009/10/05 18:34:10	1382 Gerti	12.0	15.03	1.58	18	1.1	36°11'11" 50°11'33"	336	5.0	UCAC2 32982467	13.74	0 ^h 27 ^m 24.945 ^s 3°47'55.643"	34.2	133	175.2	-32.8	23.5	33.2	97.3	95
2009/10/06 03:18:58	245 Vera	79.5	12.88	0.50	206	5.3	36°36'09" 48°12'17"	174	8.3	UCAC2 40497932	13.46	6 ^h 42 ^m 12.955 ^s 24°39'22.383"	64.9	181	93.3	-4.5	63.7	27.1	95.9	150
2009/10/06 17:54:15	2686 Linda Susan	15.8	15.97	2.83	13	1.2	36°26'14" 49°58'34"	126	3.6	UCAC2 36226556	13.22	0 ^h 47 ^m 22.250 ^s 12°43'19.195"	34.1	113	172.5	-27.8	28.1	22.2	92.9	174
2009/10/06 18:23:38	47120 1999 CP84	6.6	17.69	8.40	169	0.6	38°24'11" 49°22'51"	116	0.9	HIP 101600	9.29	20 ^h 35 ^m 28.261 ^s −27°21'09.058"	10.9	197	110.5	-31.8	100.5	26.8	92.9	139
2009/10/06 19:22:30	15718 1990 BB2	7.2	17.18	5.59	50	0.6	36°33'28" 49°37'49"	157	2.1	TYC 175001321	11.59	1 ^h 12 ^m 24.521 ^s 26°06'26.991"	53.9	118	158.5	-38.8	21.5	36.0	92.6	129
2009/10/07 00:25:55	14173 1998 VL9	5.2	16.55	4.24	158	0.6	35°47'30" 51°25'55"	347	0.7	TYC 467600241	12.33	0 ^h 46 ^m 37.419 ^s −3°20'03.587"	23.3	232	171.2	-31.3	40.3	59.5	91.3	107
2009/10/07 16:25:34	3684 Berry	12.4	16.82	4.32	148	1.0	36°11'44" 48°43'03"	183	1.9	UCAC2 30461296	12.52	1 ^h 15 ^m 57.388 ^s −3°47'01.362"	3.6	100	168.9	-14.5	43.3	3.7	86.9	114
2009/10/07 22:26:00	27109 1998 VV32	12.6	18.16	7.08	139	0.5	37°06'33" 48°55'13"	155	1.7	TYC 192801419	11.08	8 ^h 17 ^m 24.593 ^s 22°45'07.079"	14.2	71	73.3	-43.9	61.0	56.6	84.9	258
2009/10/07 23:09:24	405 Thia	124.9	13.78	0.86	132	10.3	36°25'48" 48°52'04"	176	22.1	UCAC2 39822602	13.58	6 ^h 30 ^m 25.304 ^s 22°55'11.742"	38.3	100	97.7	-40.5	36.5	61.2	84.7	159
2009/10/08 00:55:51	819 Barnar- diana	13.8	16.70	3.26	73	1.1	35°56'20" 50°39'46"	340	3.2	UCAC2 41695882	13.49	6 ^h 48 ^m 25.127 ^s 28°21'35.561"	55.9	116	94.1	-27.3	38.9	63.8	84.1	153
2009/10/08 02:15:39	34105 2000 PD20	5.8	16.70	4.77	23	0.6	36°22'31" 50°14'48"	16	1.6	TYC 119200043	11.95	1 ^h 01 ^m 55.510 ^s 19°45'16.032"	26.8	269	165.9	-15.1	40.9	56.9	83.7	141
2009/10/08 15:24:39	87935 2000 SG347	6.0	17.71	7.17	182	0.7	34°10'30" 50°58'28"	304	0.8	TYC 329801151	10.54	2 ^h 15 ^m 29.427 ^s 47°49'34.872"	25.2	45	134.9	-5.1	34.6	-7.7	79.0	170
2009/10/08 22:03:46	13023 1988 XT1	10.5	15.22	5.46	168	1.1	37°09'23" 51°27'09"	22	1.5	TYC 468502496	9.77	1 ^h 37 ^m 52.158 ^s −3°28'07.051"	36.7	181	166.1	-45.4	54.5	46.7	76.4	149
2009/10/09 03:39:46	18898 2000 JX	10.5	17.16	5.42	195	0.6	36°11'13" 51°48'03"	358	1.3	UCAC2 34261458	11.74	7 ^h 08 ^m 34.719 ^s 7°00'27.200"	47.1	183	88.3	-1.9	35.5	54.9	74.2	165
2009/10/09 20:04:57	8073 Johnhar- mon	8.7	17.47	8.31	135	1.3	35°26'29" 51°07'49"	333	1.6	TYC 574502016	9.16	20 ^h 21 ^m 11.255 ^s −10°54'54.932"	14.8	232	108.3	-43.8	140.1	19.5	67.3	139
2009/10/09 22:09:19	31208 1998 BU1	5.0	17.42	7.04	136	0.7	34°42'14" 50°44'06"	304	0.9	TYC 471300981	10.38	3 ^h 05 ^m 08.871 ^s −6°25'03.844"	31.3	158	146.5	-45.5	51.4	38.4	66.2	126
2009/10/10 15:57:37	4969 Lawrence	10.0	15.03	3.19	89	0.7	35°21'27" 49°31'11"	229	1.8	TYC 525300786	11.90	23 ^h 52 ^m 47.529 ^s −1°22'54.482"	15.8	112	160.4	-11.1	100.4	-14.0	58.1	197
2009/10/10 18:32:03	302 Clarissa	38.5	15.32	2.65	44	4.2	36°49'39" 49°51'28"	119	11.9	UCAC2 23026714	12.77	20 ^h 26 ^m 38.975 ^s −22°02'26.429"	14.1	206	106.2	-34.4	155.9	-1.9	57.0	121

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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}
2009/10/10 18:45:18	2379 Heiskanen	31.6	15.55	1.90	67	1.5	36°14'37" 49°27'00"	183	5.8 6.1	UCAC2 23004876	13.85	19 ^h 02 ^m 21.919 ^s −22°28'51.720"	4.4	227	86.9	−36.1	175.1	−0.4	56.9	206
2009/10/10 20:46:09	29150 1988 RM5	9.1	17.07	6.42	52	1.6	36°57'29" 49°52'23"	112	2.6 2.8	TYC 578500558	10.66	21 ^h 22 ^m 56.346 ^s −14°53'52.928"	13.3	226	120.9	−46.4	142.5	15.5	55.8	131
2009/10/10 21:24:03	9576 van der Weyden	7.6	18.55	6.53	199	0.6	37°29'16" 48°26'44"	154	0.9 1.6	TYC 189800870	12.02	6 ^h 56 ^m 54.629 ^s 24°33'50.255"	20.2	76	94.7	−47.0	1.7	21.1	55.5	186
2009/10/10 23:25:59	46457 4166 P-L	5.5	19.42	7.88	179	0.5	35°58'47" 48°27'23"	187	0.7 1.0	UCAC2 36968690	11.54	6 ^h 25 ^m 59.648 ^s 14°56'13.390"	37.3	114	101.2	−39.8	11.3	39.7	54.6	228
2009/10/11 02:58:55	5470 Kurtlindstrom	11.5	17.13	6.20	1	2.2	36°16'45" 50°02'50"	268	2.4 2.4	TYC 289100300	10.94	4 ^h 26 ^m 12.455 ^s 44°53'06.671"	66.5	271	122.4	−8.9	38.3	63.5	53.0	192
2009/10/11 03:01:00	2346 Lilio	13.8	13.91	1.42	149	1.9	35°43'10" 48°45'36"	196	1.5 6.2	UCAC2 36576579	12.83	0 ^h 39 ^m 53.641 ^s 13°48'12.039"	9.7	280	170.7	−8.6	89.9	63.6	52.8	88
2009/10/11 17:04:13	2536 Kozyrev	8.3	15.91	6.16	40	1.0	36°07'22" 50°23'36"	343	3.5 3.9	TYC 576100731	9.75	20 ^h 51 ^m 19.700 ^s −10°19'19.297"	29.8	180	113.8	−22.0	159.2	−16.6	46.3	86
2009/10/11 21:16:20	45687 2000 EK140	6.9	17.78	7.21	37	0.6	35°47'19" 50°08'59"	288	1.5 1.5	TYC 5600213	10.57	3 ^h 10 ^m 20.155 ^s 1°27'25.580"	34.6	141	149.1	−47.4	70.6	9.1	44.2	181
2009/10/12 16:08:03	655 Briseis	30.8	15.49	2.69	122	1.3	36°01'16" 51°08'03"	351	5.0 6.0	UCAC2 23209110	12.90	18 ^h 24 ^m 35.171 ^s −21°32'51.008"	15.5	203	76.4	−13.4	149.3	−21.9	35.4	205
2009/10/12 19:22:28	591 Irmgard	51.9	15.38	2.21	34	3.6	36°05'48" 50°19'26"	336	14.0 14.4	UCAC2 40799281	13.33	1 ^h 37 ^m 40.847 ^s 25°48'40.904"	53.4	118	160.7	−41.1	96.2	−15.1	34.0	143
2009/10/13 00:35:17	85807 1998 WR10	12.0	19.00	5.95	234	0.7	35°39'31" 52°06'51"	349	0.6 0.6	UCAC2 41481652	13.05	1 ^h 33 ^m 00.455 ^s 27°41'09.680"	50.3	252	159.4	−31.6	99.5	27.2	31.6	755
2009/10/13 01:50:09	1382 Gerti	12.0	15.30	3.32	36	1.2	36°04'41" 49°45'24"	205	4.6 5.0	UCAC2 32807783	12.03	0 ^h 20 ^m 24.944 ^s 3°07'27.423"	8.5	265	166.2	−20.4	126.3	38.2	31.0	96
2009/10/13 17:55:02	4648 Tirion	12.3	16.39	3.71	65	2.2	35°51'30" 49°31'43"	208	3.8 4.5	UCAC2 45134696	12.71	4 ^h 54 ^m 24.026 ^s 38°06'11.953"	19.4	53	122.3	−30.3	66.6	−27.8	24.2	109
2009/10/13 21:12:10	2083 Smither	7.3	16.63	4.79	65	0.5	35°58'13" 50°35'35"	340	2.5 3.1	TYC 190100858	11.85	6 ^h 49 ^m 12.159 ^s 27°52'34.082"	23.8	74	99.6	−48.1	43.4	−13.8	22.8	94
2009/10/13 21:23:07	50403 2000 CB114	9.1	16.18	4.64	94	0.9	37°09'18" 50°41'13"	41	2.3 3.3	TYC 238901421	11.56	5 ^h 10 ^m 43.065 ^s 31°07'48.634"	43.5	91	120.8	−48.2	65.0	−12.5	22.8	112
2009/10/14 01:08:07	65712 1992 SJ17	5.0	18.47	6.84	19	0.6	36°08'23" 50°11'10"	326	0.9 0.9	TYC 65700460	11.63	3 ^h 40 ^m 24.593 ^s 9°13'37.199"	45.8	210	144.4	−27.1	90.5	20.1	21.2	228
2009/10/14 15:33:37	300 Geraldina	80.2	15.89	3.01	78	2.0	35°51'02" 50°41'18"	336	12.1 12.7	UCAC2 23890247	12.95	15 ^h 48 ^m 17.462 ^s −20°16'58.607"	4.2	231	38.1	−8.5	84.9	−22.4	15.9	250
2009/10/14 16:04:09	9338 1991 FL4	10.5	16.83	4.68	44	1.2	35°41'44" 49°56'31"	254	2.5 2.6	TYC 525400280	12.17	23 ^h 34 ^m 42.147 ^s −2°56'14.789"	20.4	122	151.7	−13.4	161.5	−25.8	15.7	163
2009/10/14 18:55:48	623 Chimaera	44.1	15.50	1.80	18	6.1	36°04'09" 50°07'36"	300	13.4 13.5	UCAC2 28113237	13.93	20 ^h 40 ^m 11.736 ^s −10°50'49.841"	22.5	216	108.0	−38.8	153.0	−33.7	14.8	130
2009/10/14 19:46:26	17133 1999 JC81	7.9	18.42	8.67	250	0.9	39°30'19" 49°12'47"	112	0.7 1.8	TYC 73102545	9.75	6 ^h 16 ^m 42.320 ^s 7°57'59.129"	1.1	79	106.5	−44.1	62.9	−31.9	14.4	177

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2009/10/15 00:53:21	15351 1994 VO6	5.0	16.27	4.58	32	0.9	36°36'59" 50°14'09"	48	1.8	TYC	11.70	3 ^h 06 ^m 58.967 ^s 18°16'27.210"	52.0	223	152.2	-29.6	110.6	5.5	12.8	104
2009/10/15 02:04:59	21371 1997 TD28	13.8	18.90	5.13	210	0.8	35°32'43" 51°52'46"	345	1.0	UCAC2	13.78	1 ^h 08 ^m 03.403 ^s 0° - 8'56.883"	10.0	258	170.9	-18.5	143.7	16.3	12.4	510
2009/10/15 14:45:36	269 Justitia	53.6	14.14	1.11	273	1.4	36°04'38" 47°35'47"	183	3.0	UCAC2	13.52	17 ^h 00 ^m 12.872 ^s -18°51'32.203"	17.2	207	53.7	-1.1	87.9	-14.6	8.7	158
2009/10/15 19:37:20	6279 1977 UO5	11.0	18.25	8.23	172	0.9	38°14'29" 49°10'09"	125	1.5	TYC	10.02	19 ^h 56 ^m 32.315 ^s -23°08'57.541"	1.7	230	94.2	-43.7	125.2	-40.2	7.5	206
2009/10/16 01:20:04	6351 Neu-mann	13.2	16.81	3.20	221	1.1	35°06'51" 51°53'34"	338	1.3	UCAC2	13.67	2 ^h 47 ^m 48.213 ^s 7°59'11.337"	37.0	231	159.2	-25.8	131.1	-2.8	6.1	173
2009/10/16 03:55:40	128236 2003 SC151	5.0	18.87	6.55	147	0.6	36°13'44" 48°43'33"	182	0.5	TYC	12.32	3 ^h 48 ^m 25.345 ^s 7°05'55.997"	22.7	253	144.3	-1.1	117.7	19.9	5.5	340
2009/10/16 20:53:27	8879 1993 FN20	5.2	18.59	7.80	159	0.7	35°05'56" 51°15'43"	328	0.8	TYC	10.79	6 ^h 20 ^m 56.393 ^s 24°13'59.768"	24.6	81	108.7	-48.9	91.3	-45.8	2.5	160
2009/10/17 00:20:08	13812 1998 YR	12.6	18.43	5.65	59	0.6	36°34'19" 50°32'59"	20	2.0	UCAC2	12.79	8 ^h 48 ^m 05.538 ^s 14°51'33.975"	27.3	100	73.3	-34.8	57.5	-23.9	2.0	243
2009/10/17 01:25:46	11239 Marc-graf	6.0	17.41	7.94	36	0.7	36°06'12" 49°44'47"	201	2.1	TYC	9.47	6 ^h 05 ^m 18.160 ^s 20°27'01.349"	60.0	165	112.4	-25.2	97.1	-14.1	1.9	109
2009/10/17 02:04:50	244 Sita	10.9	13.61	1.96	77	1.7	36°06'03" 50°43'54"	350	3.3	UCAC2	11.85	1 ^h 04 ^m 29.838 ^s 7°47'11.319"	14.3	265	174.1	-19.1	170.4	-8.1	1.8	64
2009/10/17 14:48:09	1082 Pirola	43.0	15.72	2.55	215	1.6	35°32'02" 51°55'19"	346	4.5	UCAC2	13.28	18 ^h 39 ^m 22.672 ^s -22°18'00.438"	17.7	185	74.9	-2.2	82.8	-9.3	0.7	169
2009/10/17 15:46:03	397 Vienna	43.3	12.41	0.69	6	5.4	36°16'11" 49°59'43"	192	21.5	UCAC2	12.54	21 ^h 50 ^m 15.877 ^s 4°36'17.493"	38.8	143	125.3	-11.4	133.8	-18.5	0.6	79
2009/10/17 21:37:26	3911 Otomo	17.4	15.67	5.44	221	2.3	34°14'54" 51°33'28"	319	1.5	TYC	10.23	23 ^h 13 ^m 13.217 ^s 3°09'25.490"	32.9	228	145.2	-49.5	150.2	-51.7	0.3	148
2009/10/17 22:05:14	57275 2001 QE139	5.2	16.56	6.78	242	1.4	36°44'40" 52°11'55"	8	0.1	HIP	9.79	23 ^h 25 ^m 09.555 ^s 11°16'54.734"	37.8	237	149.0	-48.6	154.6	-50.2	0.3	104
2009/10/18 17:41:38	105680 2000 SP46	5.2	17.39	5.64	10	0.7	36°08'39" 50°02'02"	261	1.6	UCAC2	11.76	23 ^h 09 ^m 17.473 ^s 7°02'43.795"	44.6	154	144.1	-30.0	139.3	-32.7	0.5	129
2009/10/18 18:02:10	21555 Levary	10.5	18.44	6.07	84	0.8	35°24'12" 49°33'01"	229	1.7	UCAC2	12.38	20 ^h 21 ^m 09.383 ^s -2°46'46.911"	31.8	215	101.1	-33.0	96.2	-35.8	0.5	223
2009/10/19 02:02:52	16498 Passau	7.9	17.29	8.26	199	0.9	38°52'28" 49°25'14"	111	0.8	TYC	9.03	4 ^h 55 ^m 03.615 ^s 0° - 32'43.590"	36.5	206	129.2	-19.9	135.3	-31.7	1.1	139
2009/10/19 16:00:13	1382 Gerti	12.0	15.50	4.68	214	1.3	37°40'32" 48°21'19"	152	0.5	TYC	10.84	0 ^h 14 ^m 49.209 ^s 2°34'41.230"	21.4	113	158.1	-14.3	140.1	-12.1	2.6	99
2009/10/19 18:56:52	1712 Angola	59.5	15.30	1.95	111	3.0	35°53'02" 49°04'59"	195	11.2	UCAC2	13.55	19 ^h 35 ^m 58.416 ^s -1°08'04.593"	20.8	241	89.3	-40.6	72.9	-39.5	3.0	171
2009/10/19 20:47:13	10893 1997 SB10	6.3	16.96	5.36	251	0.6	38°14'05" 48°11'08"	146	0.2	UCAC2	11.60	1 ^h 08 ^m 16.031 ^s 11°07'25.737"	51.3	179	172.6	-49.8	153.2	-54.7	3.3	118

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			σ_{km}			
	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist		Alt	Phase (%)	Dist
2009/10/19 22:41:36	534 Nassovia	33.1	13.63	0.59	82	3.1	36°41'25" 49°21'43"	159	8.8	UCAC2 35510615	13.98	2 ^h 34 ^m 15.411 ^s 10°31'16.878"	50.3	190	166.3	-46.9	-61.7	3.6	117
2009/10/19 23:40:57	3052 Herzen	15.2	17.26	3.41	132	1.2	36°13'56" 51°13'54"	358	2.8	UCAC2 39297507	13.90	6 ^h 54 ^m 53.782 ^s 21°16'25.829"	45.5	114	103.8	-40.8	-59.3	3.8	121
2009/10/20 00:23:04	32227 2000 OM25	6.6	17.63	5.80	224	0.6	37°43'38" 48°16'23"	152	0.6	UCAC2 43258980	11.83	6 ^h 51 ^m 43.656 ^s 32°58'34.880"	60.9	113	105.4	-35.3	-55.5	3.9	147
2009/10/20 02:19:49	2216 Kerch	21.8	14.72	5.09	108	2.0	35°33'04" 50°53'46"	331	4.4	TYC 468501883	9.64	1 ^h 37 ^m 29.454 ^s -2°45'35.399"	7.1	257	166.9	-17.4	-39.8	4.2	158
2009/10/20 16:30:42	386 Siegena	165.0	12.97	0.60	108	6.1	35°37'35" 49°10'19"	206	29.8	UCAC2 28768563	13.30	18 ^h 38 ^m 05.823 ^s -8°45'21.526"	24.4	217	73.0	-19.5	-11.2	7.0	180
2009/10/20 22:31:08	38301 1999 RH92	6.0	18.31	9.34	219	1.3	37°13'20" 48°10'50"	162	0.3	TYC 524600072	8.97	23 ^h 11 ^m 09.223 ^s -4°19'19.120"	17.7	240	139.5	-48.0	-62.2	8.4	111
2009/10/21 02:02:17	7776 Takeishi	9.1	17.37	7.77	60	0.6	36°19'00" 49°30'17"	178	2.4	TYC 193500684	9.60	8 ^h 10 ^m 47.415 ^s 26°25'05.147"	59.2	130	88.6	-20.5	-52.0	9.2	139
2009/10/21 02:29:14	2815 Soma	7.6	15.99	4.05	54	4.0	36°35'55" 49°36'30"	155	3.0	HIP 22266	11.97	4 ^h 47 ^m 37.973 ^s 13°06'56.497"	45.2	226	134.8	-16.1	-48.2	9.4	82
2009/10/21 02:37:07	71472 2000 BO15	8.3	18.05	6.91	160	1.4	38°08'45" 49°16'00"	123	1.2	TYC 188101517	11.14	6 ^h 10 ^m 13.863 ^s 25°32'46.785"	63.9	206	115.4	-14.9	-47.0	9.3	213
2009/10/21 17:02:10	6750 Katgert	11.0	18.45	5.58	77	0.5	37°03'14" 49°34'08"	134	1.7	UCAC2 20739627	12.87	19 ^h 22 ^m 35.851 ^s -27°07'23.168"	8.0	208	80.1	-24.8	-9.6	13.1	240
2009/10/21 17:17:33	7788 Tsukuba	5.8	18.00	6.74	202	0.5	37°26'59" 48°23'46"	156	0.7	TYC 6100096	11.26	3 ^h 08 ^m 01.637 ^s 5°12'13.711"	9.8	94	158.7	-27.2	-11.7	13.2	174
2009/10/21 17:33:30	4566 Chaokuang- piu	11.5	16.97	3.47	89	0.6	35°54'35" 50°48'46"	342	1.8	UCAC2 28633733	13.54	19 ^h 54 ^m 58.113 ^s -9°16'01.057"	24.9	214	90.6	-29.7	-14.0	13.3	244
2009/10/21 17:38:29	258 Tyche	64.8	13.60	0.73	203	1.8	37°09'36" 48°18'46"	162	7.6	UCAC2 27692923	13.64	17 ^h 24 ^m 44.267 ^s -11°38'54.240"	3.5	247	53.7	-30.4	-14.7	13.3	178
2009/10/21 21:28:47	21127 1993 BF4	6.0	17.86	6.28	37	0.9	36°18'42" 49°42'57"	177	1.6	TYC 73302265	11.58	6 ^h 31 ^m 51.431 ^s 8°10'30.054"	19.7	101	109.6	-51.0	-49.7	14.5	141
2009/10/22 15:13:16	8369 1991 GR	15.8	14.63	4.22	52	1.6	36°06'49" 50°30'14"	346	4.1	TYC 179001048	10.43	2 ^h 58 ^m 39.180 ^s 27°38'18.398"	9.8	58	156.7	-7.7	8.2	19.8	145
2009/10/22 19:41:32	6373 Stern	10.0	17.72	3.84	70	1.4	37°02'26" 49°38'46"	130	2.2	UCAC2 24988490	13.91	21 ^h 37 ^m 36.431 ^s -18°14'25.251"	13.8	218	111.2	-46.5	-25.3	21.3	170
2009/10/22 19:59:01	25976 2001 FE44	7.2	18.42	6.48	43	0.7	36°09'03" 49°40'04"	193	1.6	TYC 633501699	11.95	20 ^h 45 ^m 34.711 ^s -17°37'05.977"	6.4	233	99.6	-48.0	-28.0	21.4	179
2009/10/22 20:46:27	23920 1998 SE135	6.6	17.57	6.05	138	0.8	34°53'41" 50°54'43"	314	1.1	TYC 1001265	11.52	0 ^h 30 ^m 30.197 ^s 0°03'06.830"	39.2	195	157.4	-50.8	-35.4	21.8	173
2009/10/22 22:02:29	930 West- phalia	36.5	15.96	3.24	155	5.6	38°10'51" 50°44'32"	60	5.5	UCAC2 46683879	12.77	6 ^h 12 ^m 44.991 ^s 43°26'27.405"	52.7	78	115.3	-50.4	-47.0	22.1	127
2009/10/22 22:24:40	13917 Correg- gia	10.5	16.32	3.59	185	1.0	35°44'12" 48°25'33"	192	1.3	UCAC2 43391283	12.77	2 ^h 32 ^m 02.168 ^s 33°28'41.540"	73.1	197	155.7	-49.1	-50.3	22.3	159

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}
2009/10/22 22:49:14	4725 Milone	11.0	16.29	2.69	216	1.1	34°43'44'' 48°23'29''	211	0.7	UCAC2 33886825	13.70	6 ^h 13 ^m 28.342 ^s 6°15'04.451''	33.4	125	114.8	-47.2	159.1	-53.7	22.5	117
2009/10/23 00:01:57	4661 Yebes	8.3	16.38	5.45	199	4.0	36°56'37'' 48°18'39''	166	0.4	TYC 130201020	10.93	5 ^h 39 ^m 51.049 ^s 18°39'44.056''	56.1	151	124.2	-38.9	172.8	-62.3	22.9	96
2009/10/23 00:27:49	9670 Magni	10.5	17.71	6.05	253	1.6	38°55'01'' 51°36'15''	47	0.9	UCAC2 35540683	11.66	6 ^h 24 ^m 29.170 ^s 10°48'45.941''	47.2	148	112.9	-35.4	162.5	-64.3	23.0	187
2009/10/23 17:54:47	1653 Yakhontovia	17.4	14.13	1.04	154	3.9	34°30'50'' 50°50'35''	305	1.6	UCAC2 42207085	13.62	5 ^h 53 ^m 29.344 ^s 29°30'07.884''	10.1	56	121.6	-33.5	171.7	-2.4	29.2	86
2009/10/23 19:21:18	9816 von Matt	5.8	17.93	6.72	73	0.5	36°18'59'' 50°42'02''	2	1.5	TYC 332900928	11.22	4 ^h 24 ^m 01.423 ^s 46°24'50.635''	46.7	68	132.8	-44.8	147.3	-14.0	29.6	129
2009/10/23 23:48:11	209 Dido	159.9	14.37	1.27	328	6.9	34°40'46'' 52°48'57''	340	9.3	UCAC2 39487498	13.51	9 ^h 23 ^m 12.399 ^s 21°42'29.627''	26.0	87	74.3	-41.0	141.9	-53.8	31.3	211
2009/10/24 00:13:24	19964 BX1	6.6	17.99	7.62	15	1.3	36°21'55'' 50°10'20''	22	1.7	TYC 132601025	10.37	6 ^h 10 ^m 50.555 ^s 21°44'20.692''	57.6	143	118.1	-37.7	173.1	-57.0	31.5	150
2009/10/24 02:26:11	20267 FU27	5.2	18.10	6.40	194	1.6	37°23'09'' 48°27'42''	156	0.6	UCAC2 38386687	11.70	5 ^h 02 ^m 02.238 ^s 18°50'25.182''	50.9	228	134.3	-17.4	155.8	-64.3	32.4	137
2009/10/24 03:00:17	285 Regina	45.1	14.61	1.61	105	4.1	37°14'22'' 50°46'24''	40	10.1	UCAC2 45112172	13.28	1 ^h 28 ^m 02.703 ^s 38°24'56.119''	27.3	298	152.6	-11.9	113.0	-62.6	32.5	124
2009/10/24 15:01:37	13726 QV89	10.0	16.96	3.67	209	0.8	33°41'09'' 50°56'22''	298	1.1	UCAC2 39424640	13.33	0 ^h 59 ^m 30.973 ^s 21°51'54.969''	22.9	83	163.1	-6.4	96.3	16.6	37.0	174
2009/10/24 17:12:45	2400 Derevskaia	13.8	16.82	2.98	98	1.5	36°45'31'' 50°52'43''	20	2.9	UCAC2 27584514	13.91	21 ^h 28 ^m 29.390 ^s -12°17'38.485''	27.6	186	109.2	-27.4	33.5	9.3	37.9	157
2009/10/24 20:26:31	1103 Sequoia	11.7	16.17	3.00	96	0.7	36°50'47'' 50°49'52''	25	2.9	UCAC2 38430827	13.24	8 ^h 11 ^m 46.712 ^s 18°53'35.880''	4.2	65	90.5	-50.6	167.7	-14.6	39.1	107
2009/10/25 01:32:41	649 Josefa	11.0	15.14	1.66	150	1.4	34°46'45'' 49°07'22''	226	1.3	UCAC2 44615559	13.74	3 ^h 28 ^m 58.154 ^s 36°51'52.445''	58.2	261	147.8	-26.1	126.0	-58.1	41.1	92
2009/10/25 03:27:21	3816 Chugainov	13.8	16.46	3.39	246	1.2	36°50'54'' 52°13'43''	9	0.9	UCAC2 43263949	13.12	7 ^h 29 ^m 46.483 ^s 32°34'45.601''	71.5	205	102.4	-7.8	169.1	-61.3	41.8	141
2009/10/25 21:48:18	26489 AS242	8.3	18.68	7.19	82	1.0	37°16'33'' 49°40'48''	120	1.3	TYC 11101344	11.49	5 ^h 08 ^m 33.949 ^s 5°41'26.817''	34.9	130	133.3	-52.0	133.1	-17.5	49.0	239
2009/10/25 21:56:24	41838 WK59	6.6	16.76	6.73	5	0.7	36°14'29'' 50°00'49''	221	1.7	HIP 10279	10.04	2 ^h 12 ^m 19.834 ^s 3°34'14.042''	43.4	189	170.8	-51.7	90.9	-18.8	49.1	154
2009/10/25 23:46:06	78186 NH38	7.9	18.10	7.15	144	0.9	36°03'54'' 51°19'52''	354	1.1	UCAC2 43919825	10.95	3 ^h 58 ^m 42.559 ^s 34°45'12.278''	74.0	203	145.2	-41.8	121.3	-35.6	49.8	233
2009/10/26 20:28:28	89956 Leibacher	6.0	19.42	7.86	47	0.5	35°53'39'' 50°23'09''	323	0.8	TYC 17401720	11.56	7 ^h 07 ^m 08.597 ^s 5°53'17.434''	5.8	88	105.3	-51.4	151.2	3.6	57.9	285
2009/10/26 23:50:22	3181 Ahnert	9.1	15.63	6.22	107	0.9	36°43'57'' 49°08'03''	163	2.0	TYC 122301515	9.42	2 ^h 47 ^m 31.206 ^s 16°19'24.479''	49.8	223	169.2	-41.6	90.4	-26.5	59.2	91
2009/10/26 23:54:53	3043 San Diego	6.3	16.23	3.91	197	0.6	39°02'33'' 50°06'12''	88	0.1	TYC 376100713	12.35	5 ^h 44 ^m 47.281 ^s 58°49'35.437''	77.2	40	118.6	-41.0	122.9	-27.2	59.2	79

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}	
2009/10/27 01:31:18	44405 1998 SS123	6.0	18.60	8.01	210	1.4	39°06'52" 49°34'28"	105	0.7 1.1	TYC 72801328	10.59	5 ^h 57 ^m 02.823 ^s 13°42'01.639"	53.6	189	123.8	-26.8	133.9	-41.1	59.9	209	
2009/10/27 01:50:45	313 Chaldaea	96.3	12.57	1.83	81	9.7	37°08'37" 50°31'26"	49	27.8 38.7	UCAC2 34250044	10.96	6 ^h 36 ^m 17.647 ^s 7°09'11.870"	47.3	181	113.3	-23.8	142.1	-43.6	60.0	95	
2009/10/27 15:21:59	690 Wratislavia	135.0	13.00	0.57	103	9.3	36°14'32" 49°07'35"	182	28.3 35.7	UCAC2 30282573	13.40	20 ^h 44 ^m 48.524 ^s -4°50'58.567"	34.8	170	97.9	-10.4	14.0	25.5	65.1	146	
2009/10/27 16:30:24	742 Edisona	45.6	15.15	2.92	87	1.5	35°12'06" 49°42'16"	244	8.2 9.0	UCAC2 18768298	12.30	18 ^h 37 ^m 59.938 ^s -31°18'54.981"	1.1	214	64.2	-21.5	45.2	28.2	65.5	202	
2009/10/27 16:56:47	96574 1998 UJ23	5.2	17.44	8.33	70	0.6	35°26'59" 50°22'30"	301	0.8 0.9	TYC 283601082	9.11	2 ^h 39 ^m 31.975 ^s 40°08'18.053"	39.5	72	151.8	-25.7	87.1	28.3	65.7	242	
2009/10/27 23:19:36	3992 Wagner	15.1	17.32	5.69	208	1.9	37°19'22" 51°48'01"	21	1.7 3.2	TYC 76601241	11.63	7 ^h 16 ^m 23.601 ^s 10°27'51.273"	35.2	119	105.0	-45.6	142.7	-11.6	68.2	188	
2009/10/28 00:49:34	202855 2008 TX109	10.5	19.58	7.92	151	0.8	35°51'42" 51°22'26"	348	0.7 0.7	UCAC2 35693928	11.66	4 ^h 06 ^m 24.872 ^s 11°15'20.500"	46.8	215	151.4	-33.5	95.7	-25.4	68.7	603	
2009/10/28 02:33:34	1436 Salonta	62.9	16.41	3.91	111	3.6	35°28'45" 49°11'43"	211	10.0 11.4	UCAC2 35749983	12.53	8 ^h 35 ^m 32.498 ^s 11°05'50.892"	48.6	153	86.3	-17.1	160.6	-39.5	69.3	220	
2009/10/28 03:58:08	5429 1988 BZ1	12.0	16.35	6.18	33	0.9	36°33'25" 50°16'57"	36	2.9 3.0	TYC 63601104	10.17	2 ^h 12 ^m 36.955 ^s 12°42'17.289"	3.8	285	179.2	-3.7	67.3	-47.4	69.9	161	
2009/10/28 15:23:06	962 Aslog	39.5	17.18	3.78	193	1.3	37°21'05" 48°27'35"	157	4.9 7.4	UCAC2 22983635	13.43	18 ^h 30 ^m 44.135 ^s -22°04'25.719"	14.3	205	61.9	-10.9	56.6	27.2	73.9	213	
2009/10/29 00:59:47	7965 Kat-suhiko	13.2	16.89	3.14	88	0.9	36°51'49" 50°44'57"	28	2.4 2.7	UCAC2 47254646	13.81	1 ^h 02 ^m 54.065 ^s 45°53'48.977"	42.9	295	144.2	-32.2	60.6	-16.6	77.3	198	
2009/10/29 01:20:59	2813 Zappala	32.6	15.45	3.25	16	3.6	36°26'11" 49°56'46"	136	8.4 8.5	TYC 127300864	12.26	4 ^h 28 ^m 44.617 ^s 19°33'12.939"	53.0	225	147.0	-28.9	89.9	-19.8	77.4	153	
2009/10/29 17:01:22	2255 Qinghai	22.9	16.70	4.16	159	1.2	37°51'49" 49°03'19"	134	3.3 4.6	UCAC2 17847878	12.56	20 ^h 46 ^m 23.793 ^s -33°04'17.909"	5.4	195	88.8	-26.9	45.3	36.7	82.5	200	
2009/10/29 21:17:51	24960 1997 TV17	6.6	18.90	7.95	159	1.1	38°28'18" 50°20'11"	78	1.0 1.3	TYC 72800907	10.95	5 ^h 54 ^m 37.590 ^s 13°52'05.712"	33.1	109	127.2	-53.8	100.1	26.2	83.8	205	
2009/10/29 22:11:05	1775 Zimmer-wald	12.6	17.87	5.16	87	0.7	37°02'05" 49°25'48"	142	2.3 2.6	UCAC2 33567357	12.72	8 ^h 39 ^m 38.971 ^s 5°03'40.947"	8.7	93	85.6	-52.2	140.9	19.3	84.1	193	
2009/10/29 22:54:46	3531 Cruik-shank	8.7	16.70	6.73	106	1.1	34°51'35" 50°19'25"	287	1.9 2.7	TYC 68400636	9.98	4 ^h 53 ^m 18.372 ^s 7°47'26.242"	46.1	158	141.2	-48.8	84.3	13.0	84.3	126	
2009/10/30 00:24:42	482 Petrina	46.6	14.52	2.18	181	6.5	38°38'23" 50°40'17"	68	6.2 10.5	UCAC2 33720306	12.50	6 ^h 45 ^m 44.358 ^s 5°44'12.826"	42.6	152	113.5	-37.7	111.5	-0.6	84.8	176	
2009/10/30 01:33:46	87312 2000 QK1	6.9	16.71	4.76	151	0.7	35°20'40" 48°50'31"	207	1.1 2.1	UCAC2 39958295	11.97	1 ^h 11 ^m 10.994 ^s 23°13'54.271"	23.6	279	161.7	-27.2	35.1	-11.1	85.1	133	
2009/10/30 02:04:51	55568 2002 CU15	17.4	18.19	6.64	162	1.0	35°49'49" 51°28'27"	348	1.2 1.3	TYC 2900150	11.55	1 ^h 47 ^m 07.338 ^s 1°15'35.366"	7.9	263	165.5	-22.2	36.2	-15.7	85.3	551	
2009/10/30 02:15:17	68923 2002 LV40	6.9	18.65	7.02	109	0.8	34°45'50" 50°01'16"	268	1.2 1.4	UCAC2 35180411	11.63	6 ^h 48 ^m 11.270 ^s 9°58'02.155"	49.8	190	113.8	-20.5	110.9	-17.2	85.3	203	

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}
2009/10/30 14:18:25	732 Tjilaki	37.6	15.49	3.57	97	2.2	36°01'27" 49°11'30"	191	8.4 10.7	UCAC2 27008274	11.96	20 ^h 45 ^m 06.620 ^s −13°44'09.405"	23.6	157	92.8	-1.3	47.8	17.6	88.7	140
2009/10/31 01:02:19	6414 Mizunuma	8.7	17.09	5.54	102	0.8	36°30'35" 49°08'24"	171	2.0 3.0	UCAC2 40012341	11.55	7 ^h 47 ^m 44.154 ^s 23°14'25.093"	56.8	134	103.0	-32.3	110.7	4.5	91.4	117
2009/10/31 01:19:38	7969 RP3	10.0	16.92	3.02	24	3.4	36°21'14" 49°50'19"	168	2.8 2.9	UCAC2 38749292	13.97	5 ^h 22 ^m 57.393 ^s 19°57'35.823"	57.9	207	136.2	-29.6	77.7	1.8	91.5	139
2009/10/31 02:35:48	1549 Mikko	10.2	15.82	2.54	62	0.5	36°12'06" 50°36'12"	354	3.0 3.5	UCAC2 38792035	13.39	8 ^h 47 ^m 32.485 ^s 19°32'04.255"	56.8	150	88.7	-17.5	124.2	-9.5	91.7	116
2009/10/31 16:51:52	8090 RO23	13.2	17.37	3.43	194	1.7	38°14'15" 48°51'07"	134	1.2 1.3	UCAC2 46277801	13.98	7 ^h 01 ^m 32.063 ^s 41°50'41.482"	9.6	32	114.7	-25.9	88.3	37.7	94.7	396
2009/10/31 20:01:56	21955 VW178	10.0	17.87	5.62	30	1.4	36°09'39" 50°18'20"	343	2.3 2.3	UCAC2 33543461	12.25	6 ^h 53 ^m 50.730 ^s 5°22'22.403"	6.4	89	113.2	-51.2	91.5	49.9	95.4	173
2009/10/31 23:27:13	62836 UC59	5.0	19.40	8.16	224	1.2	33°21'11" 49°22'35"	250	0.5 1.0	TYC 244000849	11.24	6 ^h 51 ^m 18.142 ^s 33°30'07.691"	60.0	110	117.2	-45.8	84.3	29.9	95.9	194