

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: 170

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}			
2009/11/01 00:56:10	13815 Furiya	11.0	17.01	4.69	138	1.1	35°20'49" 51°08'04"	331	1.9	UCAC2 38203855	12.33	4 ^h 45 ^m 41.234 ^s 18°03'50.917"	-33.5	213	146.1	-33.5	56.4	16.6	96.2	158			
2009/11/01 15:21:33	975 Perseverantia	26.5	16.13	2.48	27	1.0	35°57'23" 50°10'24"	301	5.2	UCAC2 22110976	13.77	19 ^h 31 ^m 00.665 ^s -24°14'52.682"	-11.7	194	71.5	-11.7	94.1	21.6	98.2	202			
2009/11/01 17:40:38	5196 Bustelli	10.0	16.25	2.39	94	1.0	35°46'40" 50°49'29"	337	2.4	UCAC2 44090627	13.98	3 ^h 39 ^m 04.944 ^s 35°07'11.176"	-33.8	77	153.9	-33.8	35.8	42.4	98.4	121			
2009/11/01 18:44:28	6445 Bellmore	10.0	16.85	4.23	97	1.8	35°49'15" 49°13'52"	200	2.2	UCAC2 24749369	12.64	0 ^h 20 ^m 18.502 ^s -18°09'32.256"	-43.0	173	134.6	-43.0	37.4	49.9	98.6	143			
2009/11/01 20:52:18	47 Aglaja	127.0	11.83	1.08	33	10.8	36°13'30" 50°20'21"	352	39.9	UCAC2 39964620	11.25	3 ^h 10 ^m 10.769 ^s 23°15'02.434"	-54.4	148	166.8	-54.4	23.7	55.0	98.8	117			
2009/11/01 20:55:19	24243 1999 XL101	8.3	16.89	7.09	241	0.8	34°47'02" 51°59'46"	334	0.7	TYC 175600315	9.80	1 ^h 44 ^m 54.243 ^s 24°39'26.113"	-54.5	191	165.7	-54.5	9.6	54.9	98.8	163			
2009/11/01 23:17:00	21036 1990 BA2	11.0	17.29	5.16	55	1.0	36°23'08" 49°33'22"	173	2.3	UCAC2 38188534	12.14	0 ^h 20 ^m 06.650 ^s 18°00'50.027"	-47.3	260	149.0	-47.3	19.4	42.1	99.0	186			
2009/11/01 23:17:37	5434 1989 ES	18.2	16.24	4.26	233	1.6	37°31'49" 48°07'18"	157	1.7	TYC 468301028	12.01	1 ^h 10 ^m 20.424 ^s -5°23'01.691"	-47.2	234	152.1	-47.2	22.5	42.1	99.0	175			
2009/11/02 01:35:11	5369 Virgiugum	6.0	16.54	5.38	208	1.6	35°03'04" 51°44'33"	335	0.1	UCAC2 37314105	11.17	5 ^h 25 ^m 24.307 ^s 15°36'57.260"	-27.7	213	137.5	-27.7	52.5	21.9	99.2	81			
2009/11/02 14:26:36	1796 Riga	73.8	16.03	3.54	28	1.7	36°10'37" 49°48'15"	196	11.0	UCAC2 30215714	12.53	16 ^h 44 ^m 52.762 ^s -4°45'24.900"	-3.3	229	34.4	-3.3	140.7	8.8	99.8	265			
2009/11/02 18:02:42	156677 2002 JP127	5.2	16.92	5.01	154	0.6	37°19'34" 51°15'33"	29	0.6	UCAC2 29946608	11.92	1 ^h 58 ^m 11.177 ^s -5°15'34.667"	-37.4	135	158.2	-37.4	25.3	42.1	99.8	300			
2009/11/02 23:49:02	5326 1988 RT6	8.7	17.28	5.55	186	0.9	34°05'31" 50°57'29"	303	1.1	UCAC2 32488233	11.73	5 ^h 14 ^m 27.582 ^s 2°02'06.694"	-43.6	176	138.0	-43.6	42.7	48.4	99.8	148			
2009/11/03 02:41:31	20788 2000 SB29	6.9	17.50	5.60	156	0.6	36°11'53" 48°38'57"	182	1.1	UCAC2 39613403	11.90	3 ^h 49 ^m 29.778 ^s 22°07'54.074"	-17.3	263	160.5	-17.3	15.5	23.0	99.7	156			
2009/11/03 16:21:26	23569 1994 YF1	7.6	17.48	5.82	7	0.6	36°21'26" 50°00'31"	131	1.6	UCAC2 42184358	11.66	3 ^h 08 ^m 47.704 ^s 29°55'11.546"	-21.8	75	163.3	-21.8	7.5	20.8	98.9	184			
2009/11/03 16:28:55	16009 1999 CM8	11.5	14.68	2.55	169	1.1	36°40'56" 48°32'53"	170	1.0	UCAC2 36403952	12.23	2 ^h 12 ^m 37.302 ^s 13°13'36.665"	-23.0	100	174.2	-23.0	17.7	21.9	98.9	95			
2009/11/03 16:28:55	16009 1999 CM8	11.5	14.68	2.78	169	1.1	36°40'56" 48°32'53"	170	1.0	TYC 63600695	11.98	2 ^h 12 ^m 37.302 ^s 13°13'36.665"	-23.0	100	174.2	-23.0	17.7	21.9	98.9	95			
2009/11/03 21:08:13	22419 1995 WP5	5.2	18.03	6.15	6	2.0	36°12'52" 50°01'36"	246	1.5	UCAC2 40327033	11.89	6 ^h 24 ^m 27.804 ^s 24°00'57.463"	-55.4	97	125.9	-55.4	40.4	60.8	98.4	142			
2009/11/04 00:19:01	46248 2001 HM22	7.6	18.84	6.52	88	0.9	35°04'39" 50°10'49"	280	1.2	TYC 13600814	12.32	6 ^h 18 ^m 36.346 ^s 2°25'18.240"	-39.7	166	123.9	-39.7	44.7	54.6	98.0	225			
2009/11/04 02:16:50	531 Zetlina	15.2	17.65	4.00	87	0.8	37°28'28" 50°12'42"	78	2.7	UCAC2 25498776	13.67	7 ^h 42 ^m 21.735 ^s -16°55'21.560"	-21.5	178	98.1	-21.5	71.7	37.9	97.8	208			
2009/11/04 02:42:25	9670 Magni	10.5	17.50	6.41	130	2.2	37°52'03" 49°28'44"	119	1.8	TYC 73600558	11.10	6 ^h 25 ^m 36.719 ^s 9°56'55.615"	-17.3	215	124.1	-17.3	41.3	33.9	97.7	183			

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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}
2009/11/04 18:11:52	2415 Ganesa	13.2	16.79	3.63	183	6.9	34°34'45" 51°16'52"	318	1.6 3.6	UCAC2 39653316	13.20	7 ^h 00 ^m 29.202 ^s 22°28'31.524"	4.2	59	118.4	-39.2	36.2	30.4	95.1	146
2009/11/04 19:21:01	2599 Veseli	19.1	16.00	3.09	257	2.7	38°38'47" 51°48'56"	41	1.1 5.3	UCAC2 45818070	12.97	7 ^h 47 ^m 06.346 ^s 40°28'01.304"	21.2	52	109.9	-48.3	44.6	41.1	94.9	143
2009/11/04 20:22:10	23023 WA7	5.5	18.81	8.88	130	2.8	37°23'33" 49°07'19"	142	0.9 1.3	TYC 132300863	9.93	6 ^h 20 ^m 22.360 ^s 20°04'53.231"	28.7	92	127.5	-53.9	26.9	50.3	94.7	175
2009/11/04 21:16:13	3142 Kilopi	11.5	16.19	2.85	83	1.4	36°22'36" 49°18'05"	176	2.8 3.5	UCAC2 46787101	13.42	4 ^h 19 ^m 08.028 ^s 43°30'42.085"	71.7	101	144.9	-55.7	18.4	57.5	94.5	132
2009/11/05 01:29:54	4547 Massachusetts	24.3	15.35	4.63	85	2.9	37°25'05" 49°48'37"	108	5.4 6.4	TYC 339501456	10.73	7 ^h 04 ^m 04.875 ^s 46°56'07.317"	86.6	148	117.8	-29.2	35.6	54.7	93.5	152
2009/11/05 01:32:57	8029 RR30	13.2	16.85	3.61	75	3.8	35°17'07" 50°15'25"	288	2.9 3.2	UCAC2 42394674	13.28	6 ^h 49 ^m 41.368 ^s 30°15'25.175"	70.4	184	121.5	-28.7	29.0	54.3	93.6	162
2009/11/05 16:10:13	1811 Bruwer	24.0	16.48	4.03	142	0.6	37°38'56" 49°07'56"	136	3.5 4.2	UCAC2 25586690	12.47	17 ^h 43 ^m 40.204 ^s −16°55'38.893"	6.0	235	43.2	-20.4	169.4	4.7	89.7	229
2009/11/05 17:44:47	3644 Kojitaku	7.6	16.52	4.64	41	1.9	36°46'00" 49°50'34"	124	2.9 3.2	TYC 190600409	11.90	6 ^h 53 ^m 14.261 ^s 28°14'10.832"	6.7	53	121.4	-35.4	20.2	17.6	89.2	94
2009/11/05 17:57:00	15519 XW	11.5	18.14	4.81	40	0.6	36°10'43" 50°23'59"	349	2.0 2.0	UCAC2 19296214	13.35	20 ^h 49 ^m 40.504 ^s −30°12'56.380"	3.0	212	83.4	-37.3	134.6	19.4	89.2	228
2009/11/05 22:43:39	22658 QQ8	7.2	18.68	8.65	69	0.6	36°27'33" 49°26'13"	170	1.5 1.6	TYC 139200343	10.03	8 ^h 42 ^m 04.073 ^s 16°30'46.418"	26.7	96	95.0	-51.9	44.1	60.8	87.7	184
2009/11/06 00:02:04	3920 Aubignan	7.6	16.47	4.69	225	13.2	38°41'27" 48°46'16"	130	0.2 3.3	UCAC2 36797945	11.79	6 ^h 47 ^m 47.281 ^s 14°03'30.326"	50.8	149	121.4	-42.6	19.8	65.8	87.3	91
2009/11/06 16:48:35	4350 Shibechea	12.0	18.17	4.70	208	0.5	33°39'22" 50°52'19"	296	1.2 1.4	UCAC2 18074257	13.48	20 ^h 14 ^m 21.523 ^s −32°58'15.994"	2.7	206	74.5	-26.8	154.4	1.0	81.6	339
2009/11/06 22:01:38	1347 Patria	32.4	15.61	4.11	55	5.1	35°47'34" 50°25'57"	321	10.5 12.0	UCAC2 34763899	11.52	23 ^h 35 ^m 50.339 ^s 8°12'39.597"	26.0	251	132.5	-55.2	100.3	46.3	79.5	107
2009/11/07 02:04:07	3298 Massandra	11.2	18.63	8.00	10	0.8	36°10'28" 50°00'05"	237	2.8 2.8	TYC 140101977	10.63	9 ^h 11 ^m 52.482 ^s 15°46'14.327"	50.7	142	89.0	-24.2	34.9	62.6	78.0	160
2009/11/07 19:16:53	17478 LQ	5.8	18.58	7.59	69	1.2	36°06'38" 50°39'24"	349	1.3 1.5	TYC 133201381	10.99	6 ^h 27 ^m 10.327 ^s 18°25'13.547"	17.7	82	128.7	-48.6	15.1	10.5	70.9	155
2009/11/07 22:27:28	7563 1988 BC	11.5	16.29	3.33	116	0.9	37°19'41" 49°15'26"	140	2.4 3.6	UCAC2 40014157	13.02	8 ^h 05 ^m 54.487 ^s 23°04'38.897"	36.0	96	106.8	-53.8	6.5	39.1	69.4	127
2009/11/07 22:30:37	13423 Bobwoolley	9.5	17.91	6.30	40	0.7	36°32'57" 49°43'53"	152	2.2 2.2	UCAC2 37714383	11.62	8 ^h 56 ^m 47.423 ^s 16°51'23.468"	23.7	92	93.7	-53.6	18.9	39.6	69.3	169
2009/11/07 22:49:28	3869 Norton	8.3	15.93	6.65	147	0.8	36°46'23" 48°46'02"	166	1.1 3.3	TYC 121800269	9.28	2 ^h 20 ^m 13.661 ^s 17°38'04.089"	49.4	228	172.3	-51.9	74.5	42.4	69.2	100
2009/11/07 22:49:48	6985 UF2	7.6	15.45	9.93	213	0.8	36°33'57" 51°57'08"	5	0.1 4.0	HIP 13327	5.52	2 ^h 51 ^m 29.607 ^s 15°04'55.217"	50.5	216	178.6	-51.8	68.1	42.4	69.2	76
2009/11/08 00:11:07	1602 Indiana	12.2	15.95	2.59	209	5.5	38°39'01" 48°58'24"	125	0.4 5.2	UCAC2 39998178	13.46	6 ^h 40 ^m 00.794 ^s 23°22'04.451"	61.5	153	126.4	-41.9	14.6	53.3	68.7	94

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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}
2009/11/08 03:55:47	56251 1999 JR77	6.0	18.62	7.76	107	1.1	36°10'49'' 51°00'08''	356	1.2 1.5	TYC 136700921	10.86	7 ^h 52 ^m 19.218 ^s 18°36'58.585''	53.1	221	109.2	-6.7	2.1	54.9	67.0	160
2009/11/08 20:06:27	40108 1998 QU7	6.9	18.21	7.55	97	1.8	37°22'53'' 49°32'30''	126	1.3 1.6	TYC 639600428	10.67	23 ^h 25 ^m 44.845 ^s −16°54'31.164''	16.5	215	118.3	-53.9	138.1	6.3	59.7	176
2009/11/08 21:40:37	252 Clementina	69.3	13.80	0.89	190	6.5	34°30'19'' 51°19'49''	318	8.1 18.9	UCAC2 36238223	13.54	4 ^h 53 ^m 58.457 ^s 12°41'57.662''	48.0	144	151.2	-56.6	53.2	20.4	58.8	145
2009/11/08 22:20:19	6392 Takashimizuno	20.9	15.65	3.18	168	1.5	36°42'51'' 51°31'55''	10	2.1 2.3	UCAC2 33687805	12.53	2 ^h 14 ^m 25.769 ^s 5°58'59.193''	41.0	215	165.2	-54.6	93.3	26.4	58.4	356
2009/11/09 01:59:05	3827 Zdenekhorsky	11.5	16.39	3.80	78	2.4	36°46'31'' 50°40'16''	27	3.0 3.6	UCAC2 42029883	12.62	5 ^h 51 ^m 02.632 ^s 29°23'11.089''	61.4	234	138.3	-25.5	41.7	54.2	56.7	126
2009/11/09 02:11:10	16546 1991 RP5	10.0	18.07	6.64	120	0.7	36°54'02'' 49°02'45''	159	1.6 1.9	TYC 474200511	11.43	4 ^h 31 ^m 26.813 ^s −5°01'57.798''	20.4	234	148.0	-23.5	66.3	55.0	56.6	209
2009/11/09 16:09:57	8379 Straczynski	7.9	17.38	5.69	185	1.7	38°45'10'' 50°34'30''	72	0.9 2.3	UCAC2 29206999	11.70	23 ^h 17 ^m 19.374 ^s −7°53'13.440''	29.2	155	119.8	-21.2	149.7	-26.0	50.2	137
2009/11/10 00:35:19	65284 2002 HE1	5.0	18.84	7.83	162	1.7	37°42'53'' 51°11'20''	39	0.7 1.1	TYC 135100984	11.01	7 ^h 23 ^m 02.231 ^s 16°54'55.581''	54.6	153	117.6	-38.8	32.6	34.5	45.9	180
2009/11/10 00:39:30	67202 2000 CJ108	10.0	17.22	3.52	65	1.0	36°20'37'' 50°37'55''	4	2.0 2.2	UCAC2 37472876	13.74	0 ^h 17 ^m 29.293 ^s 16°26'31.387''	11.8	282	141.0	-38.2	131.1	35.0	45.9	185
2009/11/10 03:11:33	43505 2001 CK33	5.0	16.74	5.97	142	0.6	38°03'56'' 50°37'31''	63	0.8 1.7	TYC 235700076	10.78	3 ^h 57 ^m 39.664 ^s 30°48'14.323''	32.9	280	161.1	-14.1	80.8	50.1	44.8	120
2009/11/10 14:40:27	233 Asterope	102.8	13.59	1.66	196	2.4	37°38'46'' 48°31'27''	150	12.6 19.7	UCAC2 24889063	12.20	17 ^h 35 ^m 22.590 ^s −18°24'14.289''	12.1	221	36.2	-7.2	113.8	-27.7	39.5	206
2009/11/10 15:16:23	421 Zahrangia	14.6	16.13	3.70	239	0.6	35°21'30'' 52°06'44''	344	0.9 4.3	UCAC2 26791164	12.47	20 ^h 31 ^m 02.545 ^s −14°27'19.022''	25.3	188	78.3	-12.8	155.6	-30.1	39.2	136
2009/11/10 20:26:30	13748 Radaly	6.6	17.29	5.37	26	0.6	36°28'38'' 49°51'12''	148	1.4 1.4	UCAC2 37118995	11.92	2 ^h 39 ^m 17.525 ^s 15°04'41.031''	54.8	169	173.7	-55.8	111.7	-14.0	36.8	193
2009/11/10 23:38:07	8269 Calandrelli	7.9	16.11	5.61	62	2.0	35°38'39'' 50°25'24''	312	2.4 2.8	TYC 71501155	10.50	5 ^h 46 ^m 44.901 ^s 7°49'40.471''	47.7	172	139.4	-47.1	69.1	14.3	35.3	115
2009/11/11 02:34:52	273 Atropos	29.3	15.51	4.18	168	2.3	37°49'41'' 51°11'39''	41	4.2 7.1	TYC 21200335	11.35	8 ^h 50 ^m 55.440 ^s 0°34'38.636''	40.3	170	93.5	-20.1	25.6	37.9	34.0	164
2009/11/11 03:26:59	5111 Jachiff	7.9	15.87	4.17	191	0.9	35°29'27'' 48°24'53''	197	0.4 3.4	UCAC2 39795979	11.72	4 ^h 11 ^m 13.442 ^s 22°48'31.493''	26.4	275	163.6	-11.8	93.1	42.4	33.6	92
2009/11/11 14:22:20	490 Veritas	115.5	13.99	0.96	47	5.1	36°09'46'' 50°27'56''	349	23.4 24.1	UCAC2 27007798	13.61	20 ^h 40 ^m 50.054 ^s −13°30'50.835''	26.2	172	79.9	-4.7	144.8	-26.8	28.9	188
2009/11/11 15:01:23	1471 Tornio	33.0	16.12	3.15	88	1.3	35°17'19'' 50°30'37''	306	6.3 7.0	UCAC2 24241987	13.03	20 ^h 17 ^m 02.167 ^s −19°36'16.566''	20.1	188	72.8	-10.6	137.2	-31.0	28.7	187
2009/11/11 17:23:35	19693 1999 RU230	9.5	17.84	6.68	120	0.5	37°37'44'' 49°24'10''	127	1.6 2.0	TYC 694800543	11.16	21 ^h 44 ^m 37.912 ^s −26°31'45.499''	11.1	200	90.1	-33.4	149.0	-38.3	27.7	191
2009/11/11 23:04:11	99269 2001 OU97	6.6	20.00	8.09	135	0.6	37°08'53'' 48°58'18''	153	0.8 0.8	TYC 250100279	11.91	9 ^h 42 ^m 28.283 ^s 30°49'16.950''	34.3	81	92.0	-51.4	37.6	-3.0	25.3	319

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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}
2009/11/11 23:45:59	57359 Robcrw-ford	9.1	15.86	5.67	163	0.7	35°00'48'' 48°50'38''	214	1.3 2.9	TYC 231400378	10.19	2 ^h 19 ^m 35.410 ^s 33°38'28.100''	50.8	264	160.5	-46.3	125.2	3.4	25.0	127
2009/11/12 02:44:56	15140 2000 EB97	5.8	17.82	7.10	120	0.6	34°53'55'' 49°26'53''	236	1.1 1.7	TYC 119800924	10.72	1 ^h 28 ^m 23.139 ^s 15°49'00.654''	1.7	293	155.8	-18.7	145.3	28.3	23.8	134
2009/11/12 03:54:37	28624 2000 FM31	5.2	17.22	4.93	26	1.1	35°55'43'' 50°00'04''	259	1.9 2.0	TYC 186700644	12.30	5 ^h 58 ^m 23.606 ^s 24°59'19.348''	40.1	262	140.1	-7.8	82.6	35.0	23.4	107
2009/11/12 04:31:22	4024 Ronan	8.7	16.52	5.97	124	0.6	36°37'16'' 51°08'13''	11	1.7 3.3	TYC 194502206	10.55	8 ^h 41 ^m 41.090 ^s 25°27'52.643''	58.9	228	103.6	-2.3	47.6	37.3	23.2	105
2009/11/12 18:50:23	1174 Mar-mara	13.2	16.10	2.43	67	1.1	36°38'37'' 49°29'40''	157	3.2 3.6	UCAC2 43224259	13.79	3 ^h 40 ^m 14.792 ^s 32°38'28.365''	53.4	101	163.8	-46.4	120.5	-43.6	17.9	146
2009/11/12 20:17:41	9383 Montelimar	5.5	18.78	6.40	10	0.8	36°18'22'' 49°57'38''	172	1.1 1.1	TYC 1500091	12.39	0 ^h 55 ^m 01.653 ^s 2°37'57.398''	40.1	205	143.1	-55.7	165.7	-37.1	17.3	194
2009/11/12 20:37:42	17568 1994 GT8	7.2	17.88	7.38	138	0.7	37°48'39'' 49°17'34''	128	1.2 1.8	TYC 468301226	10.50	1 ^h 01 ^m 29.885 ^s -4°11'21.875''	32.6	207	141.0	-57.0	161.9	-34.9	17.2	161
2009/11/12 21:16:12	948 Jucunda	18.2	15.78	2.15	137	1.5	36°03'29'' 51°15'57''	353	3.2 4.9	UCAC2 43055312	13.80	4 ^h 01 ^m 31.530 ^s 32°10'30.594''	70.0	147	161.8	-58.0	117.7	-30.2	17.0	149
2009/11/12 23:18:24	45643 2000 EG37	8.3	17.20	5.30	123	0.7	36°17'06'' 48°56'20''	180	1.5 1.9	TYC 178200848	11.91	2 ^h 59 ^m 13.974 ^s 23°28'54.121''	53.1	237	173.5	-50.0	134.4	-12.7	16.3	174
2009/11/12 23:58:08	12766 Paschen	10.0	17.10	4.40	42	1.2	36°08'44'' 49°40'52''	194	2.3 2.3	UCAC2 38929670	12.72	5 ^h 28 ^m 43.169 ^s 20°27'19.269''	60.3	191	147.8	-44.9	100.7	-6.6	16.1	170
2009/11/13 16:52:59	32495 2000 WT171	7.9	17.46	6.00	147	0.6	36°00'45'' 51°21'40''	352	1.3 2.0	UCAC2 31977082	11.46	4 ^h 20 ^m 49.680 ^s 0°41'58.438''	5.2	95	156.3	-28.8	124.6	-43.8	10.8	158
2009/11/13 18:05:29	40159 1998 QC90	7.2	18.48	7.70	239	0.8	33°33'07'' 51°18'32''	306	0.7 1.4	TYC 132201410	10.78	6 ^h 14 ^m 32.795 ^s 19°40'59.105''	13.1	75	137.8	-40.2	100.1	-49.4	10.5	213
2009/11/14 02:12:57	4522 Britastra	22.1	15.45	2.33	68	2.6	36°17'48'' 50°39'16''	1	7.2 9.4	UCAC2 32818989	13.25	4 ^h 57 ^m 50.606 ^s 3°17'08.956''	28.1	238	151.2	-24.3	120.7	1.9	8.3	94
2009/11/14 17:29:39	121 Hermione	209.0	12.17	3.32	92	20.6	36°58'53'' 49°21'04''	147	58.0 91.9	HIP 24668	8.91	5 ^h 17 ^m 32.433 ^s 22°49'45.157''	19.3	77	152.1	-34.8	126.6	-47.3	5.0	60
2009/11/14 20:16:17	76649 2000 HU31	6.6	17.68	6.05	101	0.8	36°03'11'' 49°08'55''	189	1.1 1.3	UCAC2 37140062	11.64	5 ^h 58 ^m 52.241 ^s 15°06'39.097''	33.7	108	142.0	-56.1	117.6	-55.0	4.5	204
2009/11/15 01:46:43	534 Nassovia	33.1	13.73	1.51	115	3.3	36°40'31'' 51°03'06''	14	7.0 11.1	UCAC2 34954960	12.54	2 ^h 12 ^m 39.899 ^s 9°03'18.619''	10.7	271	160.9	-28.8	170.7	-13.1	3.5	118
2009/11/15 02:07:02	1103 Sequoia	11.7	15.83	4.86	139	1.1	38°00'33'' 50°38'36''	62	1.7 5.0	TYC 80800282	10.98	8 ^h 29 ^m 43.044 ^s 14°32'51.805''	54.5	172	106.5	-25.5	85.5	-10.0	3.4	94
2009/11/15 17:37:26	15129 Sparks	5.0	15.91	3.93	216	0.7	34°36'01'' 51°40'30''	326	0.1 2.4	TYC 180600064	12.01	3 ^h 29 ^m 29.561 ^s 27°29'01.686''	41.8	96	171.0	-36.2	163.3	-45.6	1.4	84
2009/11/15 21:23:50	26705 2001 FL145	13.8	18.24	5.18	102	0.9	36°16'08'' 50°57'54''	359	1.1 1.2	UCAC2 38558410	13.07	3 ^h 28 ^m 49.390 ^s 19°22'17.885''	59.6	180	178.7	-58.8	167.2	-58.3	1.1	472
2009/11/16 00:22:45	1552 Bessel	18.6	14.85	2.41	55	1.7	35°55'49'' 49°36'46''	208	5.4 5.9	UCAC2 43054405	12.57	3 ^h 54 ^m 33.479 ^s 32°18'39.292''	56.6	253	164.8	-42.0	159.8	-36.7	0.8	125

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}
2009/11/16 01:47:08	1381 Danubia	24.0	15.19	1.52	103	3.9	36°58'56'' 50°51'50''	29	5.3	UCAC2 42722095	13.98	5 ^h 25 ^m 36.856 ^s 31°13'10.368''	56.9	250	150.1	-28.9	142.5	-23.8	0.7	84
2009/11/16 15:19:50	85588 1998 FA15	5.5	17.75	5.64	234	1.0	39°14'40'' 49°11'30''	114	0.5	TYC 293901416	12.12	6 ^h 29 ^m 06.681 ^s 43°52'29.332''	11.6	31	134.6	-14.4	134.8	-19.2	0.2	162
2009/11/16 16:45:29	92242 2000 AO148	6.0	17.22	6.58	59	0.6	37°06'16'' 49°58'56''	97	1.6	TYC 128800165	10.65	4 ^h 54 ^m 51.504 ^s 20°28'11.501''	15.4	76	159.5	-28.1	157.4	-32.6	0.2	141
2009/11/16 17:03:09	20805 2000 SC220	11.0	15.50	4.15	25	1.2	36°17'05'' 49°49'20''	180	3.8	UCAC2 40980810	11.37	5 ^h 03 ^m 37.641 ^s 26°06'02.517''	21.0	74	156.7	-31.0	155.8	-35.3	0.2	113
2009/11/16 22:32:05	32460 2000 SY92	15.1	16.53	2.97	156	2.6	35°01'01'' 48°55'07''	216	2.3	UCAC2 38064984	13.64	7 ^h 44 ^m 36.996 ^s 17°34'55.045''	41.3	115	119.6	-55.8	121.0	-60.2	0.2	176
2009/11/17 04:31:35	3345 Tarkovskij	24.2	14.93	1.41	118	2.2	37°34'45'' 50°42'57''	51	4.9	UCAC2 46369620	13.86	2 ^h 38 ^m 20.315 ^s 42°19'24.855''	15.7	319	154.1	-3.4	157.0	-9.5	0.3	113
2009/11/17 04:55:00	1351 Uzbek-istania	64.9	14.32	2.83	54	7.3	36°59'22'' 50°13'04''	69	17.3	UCAC2 44461012	11.58	5 ^h 51 ^m 46.877 ^s 36°04'58.969''	33.7	288	144.5	-0.1	150.4	-6.3	0.3	137
2009/11/17 14:41:14	32419 2000 RY33	6.6	18.24	7.86	152	0.6	35°29'40'' 51°19'03''	338	1.0	TYC 240900204	10.38	5 ^h 49 ^m 29.508 ^s 32°36'17.499''	2.1	37	146.3	-8.6	156.5	-7.6	0.8	161
2009/11/17 16:53:30	18845 Ci-chocki	9.5	17.53	7.25	12	2.1	36°23'32'' 49°57'36''	142	2.5	TYC 295901487	10.29	7 ^h 48 ^m 03.596 ^s 37°31'26.393''	7.8	38	121.8	-29.6	133.0	-27.1	0.9	153
2009/11/17 20:32:43	24752 1992 UN	7.9	17.39	8.01	196	1.1	37°14'27'' 48°24'13''	160	1.0	TYC 132401029	9.38	5 ^h 52 ^m 51.062 ^s 21°38'26.117''	43.9	110	147.1	-57.9	158.8	-59.1	1.3	165
2009/11/17 21:24:39	48098 2001 FL54	10.0	18.39	5.52	93	0.7	36°18'14'' 49°12'50''	179	1.6	UCAC2 44458248	12.88	5 ^h 35 ^m 40.524 ^s 36°14'29.368''	64.9	112	148.0	-59.3	161.0	-63.8	1.3	233
2009/11/18 02:24:14	4911 Rosen-zweig	10.5	16.23	3.29	225	1.3	34°43'46'' 51°48'37''	330	0.8	UCAC2 34605026	13.00	6 ^h 09 ^m 13.939 ^s 8°17'05.968''	38.2	230	140.8	-23.4	152.0	-37.8	1.9	142
2009/11/18 19:24:07	4058 Cecil-green	17.4	16.01	2.92	12	1.3	36°15'06'' 49°56'38''	192	4.3	UCAC2 40305556	13.16	4 ^h 52 ^m 17.188 ^s 24°28'22.272''	45.4	107	161.7	-51.8	174.8	-42.7	4.2	161
2009/11/18 23:35:09	743 Eugenis	53.2	13.66	0.78	16	5.2	36°18'26'' 49°54'14''	175	18.5	UCAC2 37301018	13.61	2 ^h 37 ^m 29.260 ^s 15°37'47.910''	38.0	247	165.3	-49.4	139.8	-65.3	4.9	112
2009/11/19 00:21:51	1246 Chaka	18.1	14.09	0.91	221	1.8	36°26'16'' 48°03'48''	177	0.9	UCAC2 46108520	13.80	5 ^h 00 ^m 44.180 ^s 41°14'07.188''	70.8	252	151.8	-42.8	163.6	-62.0	5.0	110
2009/11/19 03:34:41	15532 2000 AP126	11.0	17.08	5.27	120	0.8	35°01'53'' 49°20'18''	229	2.0	TYC 232901672	11.82	2 ^h 48 ^m 26.249 ^s 32°13'45.940''	14.9	303	163.0	-12.4	143.5	-35.3	5.6	178
2009/11/19 03:48:13	4095 Ishizuchisan	5.2	16.91	4.70	111	1.0	36°44'41'' 51°00'08''	17	1.1	TYC 187701426	12.22	6 ^h 12 ^m 54.970 ^s 23°20'51.840''	37.9	262	143.9	-10.3	171.0	-33.2	5.7	91
2009/11/19 04:05:28	3621 Curtis	12.0	17.31	4.32	99	2.4	36°39'20'' 50°54'25''	15	2.5	UCAC2 38598832	13.01	7 ^h 02 ^m 15.152 ^s 19°07'23.132''	39.7	251	132.0	-7.7	158.9	-30.5	5.7	160
2009/11/19 15:00:22	224 Oceana	61.8	12.91	1.20	171	7.6	38°27'58'' 49°25'43''	114	7.6	TYC 242300822	12.15	6 ^h 08 ^m 01.114 ^s 31°56'23.275''	2.3	39	144.6	-11.8	173.1	2.5	7.9	121
2009/11/19 17:14:28	7356 Casagrande	6.0	18.01	5.20	30	0.6	35°54'53'' 50°10'14''	297	1.7	TYC 241600333	12.81	5 ^h 40 ^m 14.781 ^s 36°11'23.447''	26.1	64	148.9	-33.2	167.9	-14.6	8.4	142

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}
2009/11/19 21:42:20	24094 1999 UN60	11.0	16.50	4.50	65	0.9	35°40'39" 49°36'55"	222	3.0	UCAC2 32643393	12.02	1 ^h 24 ^m 17.999 ^s 2°54'17.990"	32.2	229	142.7	-59.4	107.1	-54.6	9.5	131
2009/11/19 23:59:56	40333 1999 NO1	9.5	17.12	5.20	45	0.7	36°26'31" 49°39'34"	166	2.3	UCAC2 44967859	11.93	5 ^h 01 ^m 27.806 ^s 37°32'22.342"	71.2	237	155.0	-46.2	159.1	-65.1	10.0	156
2009/11/20 00:37:21	0 2005 LT18	6.9	20.12	8.27	204	0.5	36°14'16" 48°12'43"	181	0.6	TYC 62301164	11.85	2 ^h 00 ^m 13.433 ^s 8°26'06.641"	16.3	264	153.0	-40.7	116.0	-63.9	10.2	362
2009/11/20 01:04:53	405 Thia	124.9	12.88	1.53	218	17.5	34°46'56" 51°45'43"	331	8.9	UCAC2 38949778	11.65	6 ^h 36 ^m 04.164 ^s 20°16'54.965"	58.8	203	139.2	-36.5	174.4	-62.0	10.3	121
2009/11/20 01:40:16	39180 2000 WA161	5.2	19.06	6.46	178	0.6	38°40'23" 50°32'34"	72	0.7	TYC 19700525	12.60	8 ^h 29 ^m 57.659 ^s 1°03'22.035"	40.8	171	107.3	-30.8	141.3	-58.5	10.4	189
2009/11/20 04:42:02	6186 Zenon	6.6	17.08	7.16	43	1.3	35°54'54" 49°44'25"	218	2.4	TYC 194100169	9.93	8 ^h 23 ^m 51.334 ^s 23°09'40.424"	49.0	244	115.1	-2.6	153.9	-32.1	11.1	101
2009/11/21 03:15:49	13685 1997 QG4	9.1	18.42	7.01	120	2.1	35°58'14" 51°06'10"	349	1.5	UCAC2 35379681	11.41	7 ^h 25 ^m 52.423 ^s 10°05'43.440"	41.3	227	126.3	-15.8	167.5	-50.9	17.5	197
2009/11/22 00:54:20	47735 2000 DS60	12.0	17.34	3.83	61	0.8	36°42'35" 50°31'18"	30	2.3	UCAC2 45292085	13.54	2 ^h 59 ^m 32.926 ^s 38°59'39.043"	43.2	283	158.1	-38.5	113.1	-59.0	24.4	195
2009/11/22 17:10:45	4455 Ruriko	20.0	15.41	4.13	149	1.8	37°52'21" 49°11'15"	130	3.2	TYC 130401643	11.30	5 ^h 26 ^m 40.307 ^s 20°31'29.300"	18.2	79	158.1	-33.0	135.5	11.1	30.0	177
2009/11/22 18:04:58	50823 2000 FL35	5.2	19.61	8.39	96	0.8	36°55'07" 49°17'27"	152	0.9	UCAC2 41529084	11.22	7 ^h 16 ^m 42.797 ^s 27°53'43.706"	15.2	64	133.2	-41.5	158.7	4.6	30.3	220
2009/11/22 18:37:43	71671 2000 EM166	6.3	17.64	5.54	108	0.7	36°30'45" 49°05'11"	171	1.2	TYC 72701035	12.11	5 ^h 51 ^m 42.161 ^s 14°43'27.191"	23.9	95	151.3	-46.3	140.1	0.3	30.5	178
2009/11/22 19:04:44	7024 1992 PA4	11.0	16.31	3.62	4	1.6	36°14'10" 50°03'31"	289	3.1	UCAC2 36403678	12.73	2 ^h 06 ^m 20.064 ^s 13°03'25.490"	52.8	168	153.4	-50.0	86.2	-3.5	30.7	142
2009/11/22 21:38:41	13944 1990 OX1	6.9	15.98	3.78	25	0.8	36°20'02" 50°16'11"	8	2.7	TYC 65101405	12.24	3 ^h 11 ^m 23.297 ^s 11°59'21.047"	50.2	203	166.9	-60.2	99.9	-26.7	31.7	99
2009/11/22 22:28:37	33982 2000 NQ23	6.3	17.34	5.29	32	0.5	36°15'59" 49°45'27"	183	1.4	TYC 285902254	12.06	3 ^h 01 ^m 10.643 ^s 43°35'24.127"	68.6	264	154.1	-57.5	104.1	-34.3	32.0	174
2009/11/22 22:47:43	69881 1998 SL91	5.0	18.44	6.61	10	0.6	36°20'23" 50°08'03"	21	0.8	TYC 292600180	11.84	6 ^h 12 ^m 28.933 ^s 39°17'47.343"	76.1	135	144.7	-55.7	139.5	-37.1	32.1	263
2009/11/22 23:05:34	72550 2001 EJ1	5.0	18.66	7.70	153	0.8	37°45'27" 49°03'11"	136	0.8	TYC 194200133	10.97	8 ^h 35 ^m 31.007 ^s 22°37'00.442"	46.2	112	115.1	-53.8	173.1	-39.6	32.2	184
2009/11/23 00:54:24	14942 Steve-baker	6.9	18.31	6.84	154	0.9	38°13'03" 49°26'49"	116	1.1	UCAC2 32516826	11.47	7 ^h 13 ^m 40.068 ^s 2°07'15.679"	42.2	185	128.1	-38.7	152.4	-52.3	32.9	180
2009/11/23 15:52:17	3344 Modena	8.7	17.29	5.55	149	0.7	34°13'02" 50°13'10"	277	1.4	TYC 640301019	11.74	23 ^h 28 ^m 19.025 ^s -15°13'00.686"	23.5	164	105.0	-20.5	31.5	25.0	38.5	149
2009/11/23 17:42:14	582 Olympia	43.4	14.98	3.91	115	1.6	36°50'41" 49°04'33"	160	7.3	TYC 576701567	11.10	20 ^h 38 ^m 45.759 ^s -13°16'15.770"	10.6	234	67.3	-38.1	10.5	16.2	39.2	201
2009/11/23 18:22:58	15633 2000 JZ1	9.5	16.72	5.05	223	0.7	36°31'35" 48°02'57"	176	0.6	TYC 70100879	11.69	5 ^h 32 ^m 28.007 ^s 8°20'16.914"	20.3	102	154.0	-44.3	123.3	11.4	39.4	124

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 (km)	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Dist	Alt	Phase (%)	σ_{km}
2009/11/23 21:05:38	1351 Uzbek- istania	64.9	14.20	1.14	45	6.5	36°14'12" 49°38'51"	185	18.0	UCAC2	13.53	5 ^h 47 ^m 07.980 ^s 36°26'51.517"	64.0	109	151.3	-60.5	125.1	-11.7	40.5	135
2009/11/23 22:26:42	23573 1995 BG	7.9	17.55	5.85	206	0.9	36°35'00" 48°12'22"	174	0.9	UCAC2	11.71	6 ^h 12 ^m 43.108 ^s 11°15'09.948"	48.9	154	146.4	-57.9	131.6	-24.2	41.0	182
2009/11/24 01:01:11	2196 Ellicott	59.2	16.19	3.91	180	4.1	34°56'40" 48°41'10"	212	7.7	UCAC2	12.32	9 ^h 47 ^m 06.847 ^s 1°48'10.465"	34.8	140	93.3	-37.8	169.8	-44.8	42.0	217
2009/11/24 01:54:49	58 Concordia	93.4	13.05	3.37	125	11.1	36°25'30" 51°10'01"	5	18.1	TYC	9.73	6 ^h 07 ^m 17.690 ^s 16°01'13.220"	45.3	234	149.2	-29.3	128.9	-49.3	42.4	118
2009/11/24 03:52:41	19995 1990 VU8	7.2	17.78	5.99	97	0.6	35°49'15" 49°13'53"	200	1.5	TYC	11.79	5 ^h 45 ^m 31.077 ^s 11°55'31.162"	21.1	263	153.1	-10.6	122.4	-49.8	43.2	155
2009/11/24 14:01:31	33 Polyhym- nia	64.6	12.23	2.11	259	2.5	33°40'56" 51°41'31"	315	1.6	TYC	10.29	21 ^h 51 ^m 02.809 ^s -13°28'49.664"	24.8	161	83.0	-3.7	5.0	28.7	47.1	110
2009/11/24 17:34:15	1712 Angola	59.5	15.61	3.28	44	1.9	35°55'21" 49°43'53"	216	11.4	UCAC2	12.39	20 ^h 16 ^m 53.772 ^s -1°40'23.386"	17.8	245	65.0	-36.9	27.9	25.5	48.5	203
2009/11/24 21:02:44	4981 Sinyavskaya	13.2	17.35	5.58	220	2.3	34°51'21" 51°48'06"	332	1.4	TYC	11.78	9 ^h 09 ^m 18.070 ^s 19°25'26.986"	20.2	84	108.6	-60.6	160.5	-1.2	50.0	172
2009/11/24 23:26:18	27271 2000 AD23	7.2	18.03	7.44	158	0.6	36°20'13" 48°37'41"	179	1.0	TYC	10.60	2 ^h 50 ^m 30.158 ^s 29°18'16.075"	47.9	260	161.6	-51.8	75.0	-23.0	50.9	211
2009/11/25 03:57:45	1259 Ogyalla	33.1	16.74	6.54	69	1.2	35°46'28" 49°31'08"	212	6.3	TYC	10.20	11 ^h 32 ^m 17.649 ^s 5°23'52.293"	44.2	162	71.4	-10.1	163.2	-46.1	52.7	198
2009/11/25 04:24:25	5202 1983 XX	10.2	15.29	2.40	90	1.2	35°47'03" 49°18'24"	204	2.7	UCAC2	13.02	4 ^h 54 ^m 05.789 ^s 28°22'08.226"	19.5	291	166.2	-6.1	99.0	-45.3	52.9	93
2009/11/25 14:23:43	9907 Oileus	15.8	18.81	7.33	31	2.2	36°25'15" 49°46'43"	162	1.6	TYC	11.48	1 ^h 14 ^m 27.212 ^s 0° - 13'02.345"	17.6	113	133.3	-7.0	37.8	32.4	56.8	391
2009/11/25 20:04:04	10099 Glaze- brook	6.9	17.46	5.66	188	0.6	36°58'11" 48°25'07"	165	0.8	UCAC2	11.80	4 ^h 51 ^m 47.467 ^s 20°41'03.596"	52.1	129	169.3	-57.2	90.4	17.5	59.0	153
2009/11/25 20:22:12	1435 Garlena	17.6	15.70	2.26	140	3.4	37°05'21" 48°54'12"	156	2.7	UCAC2	13.58	2 ^h 10 ^m 10.625 ^s 8°35'34.285"	47.1	201	149.5	-58.7	49.9	15.0	59.2	101
2009/11/25 23:01:29	10016 Yugan	5.5	16.44	4.64	32	0.7	36°16'13" 49°45'31"	182	2.2	TYC	11.82	3 ^h 13 ^m 58.022 ^s 26°32'23.234"	52.7	245	166.7	-54.9	67.5	-9.1	60.3	96
2009/11/25 23:32:58	71547 2000 DB3	10.0	17.38	3.84	205	0.7	37°29'13" 51°43'30"	25	1.2	UCAC2	13.57	4 ^h 51 ^m 45.716 ^s 42°11'47.739"	73.3	251	156.6	-51.1	89.6	-13.8	60.4	199
2009/11/26 00:11:45	6357 Glushko	12.0	18.09	5.24	75	0.9	35°59'58" 50°41'48"	344	2.1	UCAC2	12.86	10 ^h 30 ^m 44.583 ^s 19°40'39.263"	38.3	106	91.7	-45.7	160.4	-19.5	60.7	215
2009/11/26 02:03:03	189099 2001 RO	6.6	16.34	4.96	36	0.5	35°49'43" 49°54'12"	244	2.5	TYC	11.39	9 ^h 09 ^m 49.538 ^s 21°36'32.414"	61.5	170	110.3	-28.4	145.3	-33.4	61.4	98
2009/11/26 03:17:06	16439 Yame- hoshinokawa	11.0	16.54	4.89	37	0.9	35°55'58" 49°48'33"	224	3.0	UCAC2	11.66	4 ^h 48 ^m 38.392 ^s 40°46'15.693"	36.6	292	158.2	-16.5	87.1	-39.3	61.9	139
2009/11/26 03:52:32	832 Karin	19.2	15.62	3.53	119	3.0	36°59'58" 51°01'09"	25	3.9	UCAC2	12.13	6 ^h 53 ^m 41.285 ^s 22°29'14.866"	38.6	259	141.5	-11.1	114.4	-40.6	62.2	133

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 8		LinOccult 2.1.1			
		Asteroid			Nearest point			Star			Sun			Moon						
Date Time (UTC)	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Az	Dist	Alt	Phase (%)	σ_{km}		
2009/11/26 17:00:15	31246 1998 DZ12	5.0	17.55	6.03	164	2.0	35°07'20'' 51°19'11''	330	0.6	TYC 247100520	11.53	7 ^h 50 ^m 27.072 ^s 32°35'59.481''	7.9	47	130.0	-31.7	42.1	67.1	114	
2009/11/26 20:50:28	23023 1999 WA7	5.5	18.36	8.19	10	0.6	36°20'29'' 49°58'10''	156	1.4	TYC 132200820	10.17	6 ^h 11 ^m 17.475 ^s 19°58'23.186''	47.7	121	151.8	-60.5	21.2	68.7	160	
2009/11/26 23:03:15	152 Atala	71.4	12.66	0.69	172	6.2	37°11'08'' 51°28'58''	22	9.1	UCAC2 43760672	12.79	5 ^h 28 ^m 57.323 ^s 34°11'55.253''	73.8	197	158.3	-54.9	1.3	69.6	128	
2009/11/26 23:16:06	3316 Herzberg	23.5	16.73	5.85	219	1.8	36°45'03'' 48°06'19''	171	2.6	TYC 64400616	10.88	2 ^h 55 ^m 50.393 ^s 10°35'53.457''	34.8	242	159.2	-53.4	47.9	-0.7	69.7	220
2009/11/27 03:13:07	161701 2006 JW41	9.1	19.67	8.28	89	0.6	35°09'35'' 49°42'46''	245	0.6	TYC 7700909	11.39	4 ^h 12 ^m 28.872 ^s 4°18'30.119''	4.8	271	163.2	-17.3	64.9	-30.9	71.2	560
2009/11/27 04:36:27	19979 1989 VJ	10.0	17.25	4.09	190	0.5	38°08'14'' 51°16'55''	44	1.2	UCAC2 33045090	13.18	10 ^h 36 ^m 44.400 ^s 3°48'28.029''	42.8	197	85.6	-4.8	158.8	-35.2	71.7	142
2009/11/27 20:05:12	2729 Urumqi	19.0	15.54	2.63	252	1.5	35°22'04'' 52°14'06''	345	1.7	UCAC2 39974810	13.01	5 ^h 01 ^m 34.121 ^s 23°29'02.295''	54.3	126	168.9	-57.6	67.9	37.4	77.4	207
2009/11/27 21:34:58	192966 2000 CS140	10.5	19.53	5.89	98	0.7	35°52'34'' 50°53'21''	343	0.7	UCAC2 39429548	13.64	2 ^h 36 ^m 39.808 ^s 21°48'04.567''	54.5	228	157.2	-61.3	33.9	25.4	77.9	631
2009/11/27 21:59:27	78725 2002 TM230	6.0	18.46	7.33	128	0.6	36°14'21'' 48°54'07''	182	0.7	TYC 14301686	11.13	6 ^h 10 ^m 03.947 ^s 6°10'20.920''	43.4	153	148.4	-60.5	84.7	21.8	78.0	314
2009/11/27 23:35:26	632 Pyrrha	15.8	16.41	5.32	61	1.3	36°21'59'' 50°35'27''	5	3.9	UCAC2 41167569	11.09	6 ^h 08 ^m 54.853 ^s 26°32'35.226''	66.5	191	153.6	-51.2	81.1	7.2	78.6	151
2009/11/28 00:24:53	3687 Dzus	28.6	17.68	5.70	163	1.1	38°11'35'' 50°51'37''	56	3.5	UCAC2 27666824	11.98	11 ^h 35 ^m 05.019 ^s -11°35'28.705''	6.9	117	67.4	-44.2	165.5	-0.3	78.9	274
2009/11/28 01:46:23	1667 Pels	12.6	16.75	6.07	145	1.3	36°17'11'' 51°20'56''	360	2.1	TYC 141000096	10.68	9 ^h 43 ^m 32.722 ^s 17°21'18.653''	55.1	153	103.5	-31.4	129.8	-11.8	79.4	132
2009/11/28 17:08:27	1146 Biarmia	31.1	14.91	1.52	129	0.7	35°46'10'' 51°09'49''	343	5.2	UCAC2 28995239	13.70	19 ^h 23 ^m 17.955 ^s -8°20'12.378''	6.0	249	46.3	-33.1	87.8	50.7	84.5	187
2009/11/28 17:56:35	546 Herodias	66.0	13.31	1.04	244	6.7	35°10'39'' 52°07'46''	341	1.6	UCAC2 41484931	12.79	2 ^h 30 ^m 37.810 ^s 27°58'16.177''	61.3	131	154.7	-40.8	24.5	52.8	84.7	102
2009/11/28 18:20:35	113385 2002 SS15	7.6	18.71	9.08	62	0.7	35°45'45'' 50°29'35''	323	1.3	TYC 190100824	9.63	6 ^h 42 ^m 59.186 ^s 27°06'08.923''	25.7	78	146.7	-44.4	78.5	53.0	84.8	231
2009/11/28 23:17:54	190264 2007 NE2	12.0	18.95	5.90	135	1.1	36°39'25'' 48°51'31''	169	0.9	UCAC2 36229707	13.05	2 ^h 05 ^m 57.237 ^s 12°49'16.984''	27.6	257	147.0	-53.6	11.3	21.0	86.4	524
2009/11/28 23:18:10	5372 Bikki	16.6	16.26	4.10	231	1.2	37°16'58'' 52°01'27''	18	1.7	TYC 240100433	12.18	5 ^h 07 ^m 41.618 ^s 37°29'13.104''	72.8	230	160.8	-53.6	55.6	20.9	86.4	207
2009/11/29 02:17:14	4726 Federer	9.1	18.33	6.27	107	0.6	37°01'60'' 50°52'50''	30	1.7	TYC 83901186	12.06	10 ^h 35 ^m 09.292 ^s 7°59'32.359''	44.9	151	89.5	-26.6	132.0	-5.4	87.3	179
2009/11/29 02:45:53	779 Nina	76.6	14.14	2.07	185	6.1	34°04'04'' 49°12'25''	239	10.0	UCAC2 32869483	12.24	10 ^h 04 ^m 23.604 ^s 3°14'35.844''	43.2	173	94.9	-22.0	126.7	-9.0	87.5	187
2009/11/29 04:26:53	4873 Fukaya	14.5	17.00	6.00	120	1.7	36°44'44'' 51°04'56''	16	2.6	TYC 75200049	11.01	6 ^h 59 ^m 09.032 ^s 11°13'09.447''	23.7	259	140.7	-6.5	79.6	-19.5	88.0	170

