

Occultations table

Observation point: VladimirNebotov
EMail: nebotov@ukr.net
Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')
Maximal Distance = 250.0
Maximal Mv = 14.00
Minimal Duration = 0.5s
Maximal Sun Elevation = 0.0
Minimal drop: 0.5
Minimal probability: 0.0
Minimal probability in nearest point: 0.5
Minimal star elevation: 0.0
Program: LinOccult 2.0.0
Author: Plekhanov Andrey andyplekhanov@gmail.com
Events number: 141

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 1		LinOccult 2.0.0		
		Asteroid			Nearest point			Star				Sun		Moon					
Date Time (UTC)	Number Name	Diam (km)	Mag	Drop	Dist (km)	Durat (sec)	Longitude Latitude	Az	Prob (%)	Catalog Number	Mag	RA Dec	Alt	Dist	Alt	Phase (%)	σ_{km}		
2009/02/01 00:49:51	4006 Sandler	16.2	15.29	1.59	213	1.8	37°39'49" 51°44'56"	27	0.0	UCAC2 38609409	13.98	8 ^h 08 ^m 51.380 ^s 19°18'27.810"	-41.1	168.0	-41.1	102.2	-27.2	29.8	58
2009/02/01 17:49:05	8391 Kring	11.0	16.52	4.55	89	1.0	36°30'37" 49°15'27"	170	3.0	TYC 83500343	11.98	9 ^h 56 ^m 43.096 ^s 13°59'59.166"	-32.3	166.4	-32.3	118.8	35.8	36.8	95
2009/02/01 21:46:04	4877 Hum- boldt	7.9	16.44	6.17	84	0.8	36°46'46" 50°43'48"	25	2.3	UCAC2 31158253	10.28	8 ^h 26 ^m 51.328 ^s −1°54′51.846″	-57.0	159.3	-57.0	101.1	0.5	38.6	88
2009/02/01 22:37:15	946 Poesia	43.8	14.30	2.48	64	5.0	36°41'07" 50°33'50"	26	16.5	UCAC2 40011153	11.94	7 ^h 37 ^m 59.861 ^s 23°15'05.797"	-55.6	159.2	-55.6	82.1	-6.3	39.0	67
2009/02/02 00:26:01	3506 French	17.4	16.14	3.54	225	3.3	35°24'54" 48°06'23"	196	1.9	UCAC2 43763269	12.64	5 ^h 39 ^m 16.473 ^s 34°17'55.936"	-44.3	131.5	-44.3	54.0	-17.6	39.9	219
2009/02/02 01:53:29	34715 2001 PO12	10.0	16.26	4.35	81	0.8	37°25'16" 50°04'27"	88	2.7	TYC 142500018	11.94	10 ^h 18 ^m 20.488 ^s 21°42'18.764"	-31.2	161.5	-31.2	114.9	-22.4	40.4	117
2009/02/02 03:50:50	10793 Quito	10.0	17.26	4.85	232	0.7	34°38'07" 48°15'44"	211	0.4	UCAC2 36817102	12.42	8 ^h 13 ^m 13.861 ^s 14°07'32.886"	-12.3	167.7	-12.3	89.7	-20.9	41.3	110
2009/02/02 16:36:43	49461 1999 AK5	9.5	17.22	5.61	109	2.2	37°49'02" 50°04'27"	88	2.0	TYC 290901359	11.62	5 ^h 29 ^m 42.241 ^s 38°19'23.286"	-20.4	128.4	-20.4	43.8	55.2	47.1	136
2009/02/02 19:29:33	51227 2000 JK25	7.2	18.37	6.29	195	0.9	37°38'31" 48°31'58"	150	0.8	TYC 293400292	12.08	6 ^h 14 ^m 37.493 ^s 41°53'43.623"	-46.6	135.6	-46.6	51.3	32.2	48.4	151
2009/02/02 21:04:54	7800 Zhongkeyuan	5.5	17.51	5.67	25	0.5	36°21'40" 50°16'05"	12	3.4	TYC 191401299	11.85	7 ^h 24 ^m 33.590 ^s 25°06'23.622"	-55.6	154.9	-55.6	66.0	17.6	49.1	59
2009/02/02 22:48:07	4178 1988 EO1	10.5	18.74	6.03	183	0.9	34°59'31" 48°38'07"	210	0.9	UCAC2 37832672	12.71	2 ^h 57 ^m 54.015 ^s 17°27'19.487"	-54.6	93.0	-54.6	5.7	2.9	49.9	104
2009/02/02 23:38:27	1504 Lappeen- ranta	12.7	15.79	2.37	239	1.4	35°02'24" 48°03'40"	202	0.0	UCAC2 38381417	13.55	4 ^h 02 ^m 30.736 ^s 18°53'33.054"	-50.0	108.2	-50.0	19.4	-3.4	50.2	62
2009/02/03 00:43:49	5450 Sokrates	13.2	15.62	3.13	4	1.8	36°18'55" 50°01'02"	149	6.3	UCAC2 38420895	12.55	7 ^h 07 ^m 19.545 ^s 18°33'16.628"	-41.5	151.5	-41.5	61.5	-10.3	50.9	83
2009/02/03 04:48:07	31300 1998 FZ82	11.5	17.61	4.20	106	1.5	35°42'09" 49°10'31"	203	2.5	UCAC2 35031357	13.43	11 ^h 57 ^m 49.074 ^s 9°04'49.193"	-3.3	137.9	-3.3	126.9	-16.3	52.8	137
2009/02/03 14:40:19	51059 2000 GR142	6.0	18.54	6.59	75	0.9	35°48'27" 49°26'39"	207	1.3	UCAC2 35705102	11.95	5 ^h 44 ^m 25.396 ^s 11°07'46.462"	-2.0	130.2	-2.0	37.2	59.8	57.2	174
2009/02/03 16:21:12	826 Henrika	19.3	16.19	3.10	202	1.7	35°58'31" 51°50'53"	354	0.2	UCAC2 36626637	13.15	7 ^h 04 ^m 38.363 ^s 13°36'43.063"	-17.7	149.8	-17.7	53.6	63.6	58.1	69
2009/02/03 16:49:48	27227 1999 GB48	6.0	18.45	6.61	112	1.5	36°34'20" 49°03'37"	169	1.3	TYC 183000615	11.84	4 ^h 42 ^m 27.319 ^s 23°52'17.262"	-22.3	117.4	-22.3	18.3	62.3	58.3	95
2009/02/03 18:02:59	30545 2001 OT35	14.5	16.08	3.27	110	1.5	37°25'33" 50°42'50"	48	3.0	UCAC2 24543216	12.87	7 ^h 22 ^m 51.927 ^s −18°48′25.403″	-33.9	136.1	-33.9	72.0	55.3	58.8	147
2009/02/03 18:41:15	21255 1996 CD2	7.9	17.37	5.08	99	0.6	36°00'19" 50°54'54"	348	1.9	TYC 138500965	12.30	8 ^h 09 ^m 08.804 ^s 19°57'23.075"	-39.7	165.2	-39.7	64.8	50.3	59.2	101
2009/02/03 21:06:07	1258 Sicilia	44.5	15.19	2.08	219	3.3	36°36'26" 52°00'24"	6	0.0	UCAC2 34841927	13.29	9 ^h 46 ^m 32.911 ^s 8°52'02.770"	-55.4	168.4	-55.4	89.4	28.7	60.3	41

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 2		LinOccult 2.0.0			
		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}
2009/02/03 22:55:54	12915 1998 SL161	7.6	16.57	5.57	175	0.9	35°15'07'' 48°37'53''	205	0.2	TYC 25200457	11.00	10 ^h 26 ^m 31.698 ^s 7°25'00.255''	47.5	177	159.4	-53.8	97.9	12.4	61.1	67
2009/02/03 23:27:25	4122 Ferrari	11.5	16.07	3.35	11	1.2	36°21'13'' 50°08'20''	25	5.4	UCAC2 35009039	12.77	7 ^h 21 ^m 40.841 ^s 9°03'15.137''	30.8	245	152.5	-50.9	55.1	8.1	61.4	84
2009/02/04 00:54:16	3687 Dzus	28.6	16.34	3.14	166	2.7	35°41'30'' 48°36'18''	195	3.2	UCAC2 32339063	13.26	6 ^h 55 ^m 03.614 ^s 1°57'55.680''	7.7	264	143.7	-39.8	51.6	-2.5	62.1	106
2009/02/04 15:04:50	1812 Gilgamesh	19.2	15.67	3.65	91	2.3	36°26'00'' 50°51'50''	7	5.0	UCAC2 34996930	12.06	6 ^h 51 ^m 39.140 ^s 9°20'55.505''	22.8	103	144.9	-5.5	39.8	58.3	68.4	81
2009/02/04 15:04:50	1812 Gilgamesh	19.2	15.67	3.06	91	2.3	36°26'00'' 50°51'50''	7	5.0	TYC 74700491	12.67	6 ^h 51 ^m 39.140 ^s 9°20'55.505''	22.8	103	144.9	-5.5	39.8	58.3	68.4	81
2009/02/04 16:03:32	7414 Bosch	10.0	17.32	7.60	41	0.7	35°59'07'' 50°21'31''	328	3.7	TYC 139500266	9.72	8 ^h 37 ^m 33.162 ^s 17°59'10.915''	21.8	88	171.2	-14.6	59.3	64.2	68.9	100
2009/02/04 17:38:17	16913 1998 EK9	7.2	16.45	6.14	223	0.6	33°42'36'' 48°57'10''	237	0.4	TYC 74501402	10.31	6 ^h 31 ^m 08.524 ^s 14°11'27.353''	50.2	146	140.8	-29.8	31.7	65.4	69.6	121
2009/02/04 18:30:42	12187 Lenagoryunova	6.0	17.46	5.48	71	0.6	35°46'42'' 49°30'14''	211	1.6	UCAC2 32188055	11.98	7 ^h 50 ^m 33.342 ^s 1°06'23.755''	35.5	144	154.6	-37.9	54.8	61.1	70.0	131
2009/02/04 21:44:24	940 Kordula	87.2	15.17	2.45	187	9.2	35°23'47'' 48°28'27''	200	0.3	UCAC2 41695769	12.84	6 ^h 48 ^m 01.731 ^s 28°29'52.842''	55.7	245	144.1	-56.1	29.0	33.7	71.5	52
2009/02/05 00:14:58	10316 Williamturner	10.5	18.07	6.84	94	1.3	35°38'47'' 49°18'28''	209	2.6	TYC 242101140	11.23	6 ^h 21 ^m 38.249 ^s 30°19'59.354''	29.0	284	138.0	-45.0	21.7	11.6	72.6	110
2009/02/05 01:07:51	25960 2001 FQ20	7.2	17.23	5.83	28	0.6	36°34'27'' 50°13'07''	47	2.7	TYC 484800772	11.40	8 ^h 19 ^m 06.747 ^s -1°19'23.657''	15.5	249	157.9	-37.6	58.4	4.7	72.9	102
2009/02/05 02:06:31	10446 Siegbahn	5.5	18.44	5.66	52	0.7	36°45'21'' 50°24'34''	40	2.5	TYC 555300215	12.78	13 ^h 55 ^m 10.851 ^s -7°57'00.612''	32.0	174	106.7	-28.5	134.8	-1.9	73.4	64
2009/02/05 02:11:10	2687 Tortali	11.9	16.32	3.58	109	1.3	37°30'17'' 50°38'15''	53	2.6	UCAC2 44297448	12.78	7 ^h 04 ^m 24.407 ^s 35°54'47.999''	21.9	300	144.7	-27.7	30.1	-2.4	73.4	94
2009/02/05 17:57:34	800 Kressmannia	15.8	15.36	6.30	118	1.4	36°21'08'' 51°06'14''	2	0.0	HIP 52360	9.07	10 ^h 42 ^m 04.964 ^s 7°30'36.144''	12.9	94	157.8	-32.6	75.6	67.2	79.9	33
2009/02/05 21:42:19	1680 Brahe	14.1	15.75	2.14	23	1.4	36°13'39'' 49°50'44''	191	7.5	UCAC2 40843150	13.77	7 ^h 09 ^m 52.650 ^s 25°45'26.406''	56.4	235	148.4	-55.8	19.7	44.1	81.4	71
2009/02/06 00:41:56	71427 2000 AE199	5.8	16.99	5.47	243	0.5	33°21'43'' 48°58'02''	240	0.3	TYC 249300488	11.52	9 ^h 16 ^m 11.035 ^s 31°17'42.293''	52.6	257	164.3	-41.1	44.8	16.9	82.5	136
2009/02/06 03:30:53	3099 Hergenrother	17.4	16.66	5.77	158	0.5	35°18'04'' 48°46'48''	207	2.6	TYC 682201282	10.90	17 ^h 00 ^m 12.241 ^s -28°42'54.166''	7.1	154	60.7	-14.7	167.1	-3.9	83.6	146
2009/02/06 15:12:12	51981 2001 RS148	6.9	17.43	5.71	93	0.7	37°30'08'' 49°44'53''	111	1.7	UCAC2 41025389	11.73	10 ^h 49 ^m 56.125 ^s 26°21'18.040''	2.3	50	156.6	-6.1	57.7	41.2	87.6	128
2009/02/06 16:06:58	1738 Oosterhoff	11.5	16.36	4.21	83	4.7	35°26'41'' 50°33'49''	314	0.8	UCAC2 42206560	12.17	5 ^h 52 ^m 04.422 ^s 29°37'52.169''	58.0	117	130.1	-14.7	9.6	49.3	87.9	35
2009/02/06 18:29:27	164199 2004 CP80	5.0	18.05	7.34	62	0.6	36°43'56'' 49°33'56''	149	0.9	TYC 246100458	10.71	7 ^h 38 ^m 46.104 ^s 34°03'43.441''	66.4	123	150.2	-37.2	15.4	65.0	88.7	225

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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}
2009/02/07 00:24:07	51063 2000 GO143	6.9	18.67	7.95	173	1.0	34°24'43'' 49°04'27''	231	0.9	TYC	10.73	4 ^h 19 ^m 32.744 ^s 22°56'39.846''	2.9	303	108.8	-43.3	35.2	27.9	90.5	131
2009/02/07 00:55:39	46333 2001 QS276	7.2	18.07	6.67	114	0.6	37°17'28'' 50°50'58''	39	1.5	TYC	11.40	8 ^h 44 ^m 01.073 ^s 32°48'06.291''	45.6	269	160.4	-38.9	24.7	23.1	90.7	111
2009/02/07 15:14:23	20196 1997 CP19	6.9	16.69	4.44	238	1.0	37°25'14'' 52°04'01''	20	0.1	TYC	12.26	6 ^h 50 ^m 49.405 ^s 14°54'27.583''	30.6	104	142.8	-6.2	13.1	29.8	94.4	87
2009/02/07 17:27:09	5696 Ibsen	10.5	17.80	5.55	68	0.7	36°14'02'' 49°26'24''	183	3.5	UCAC2	12.25	10 ^h 25 ^m 24.198 ^s 13°37'33.594''	16.6	88	165.4	-27.3	40.3	49.5	94.9	87
2009/02/07 17:33:28	10560 Michinari	6.6	17.54	8.12	21	1.8	36°15'58'' 50°14'13''	356	3.4	TYC	9.42	6 ^h 20 ^m 17.361 ^s 25°18'54.673''	62.1	145	135.6	-28.3	18.3	50.3	94.9	73
2009/02/07 22:09:44	5450 Sokrates	13.2	15.74	3.70	91	2.2	35°18'31'' 49°31'31''	230	3.5	UCAC2	12.07	7 ^h 04 ^m 42.771 ^s 18°52'15.055''	45.3	241	146.0	-55.0	11.6	54.3	95.9	84
2009/02/08 18:35:17	4962 Vecherka	11.5	16.79	4.21	216	0.9	35°32'09'' 48°10'18''	194	1.3	UCAC2	12.60	10 ^h 15 ^m 49.009 ^s -8°38'14.622''	11.8	119	153.9	-37.6	35.3	46.8	99.0	209
2009/02/08 19:55:13	28282 1999 CJ35	10.0	17.69	4.64	70	1.0	36°29'04'' 49°25'58''	168	3.1	UCAC2	13.06	7 ^h 21 ^m 12.464 ^s 35°02'55.594''	75.0	192	144.7	-48.1	25.6	55.1	99.1	102
2009/02/08 21:21:42	14826 Nicolier	8.7	18.62	8.56	3	0.7	36°17'55'' 50°04'32''	15	3.0	TYC	10.06	7 ^h 41 ^m 41.796 ^s 24°19'20.506''	60.0	219	152.8	-54.5	17.4	57.7	99.2	118
2009/02/08 22:36:16	47898 2000 GA47	6.3	17.98	7.18	36	1.0	35°47'21'' 50°04'19''	274	1.5	TYC	10.80	6 ^h 34 ^m 47.153 ^s 5°46'11.135''	25.9	246	136.0	-53.6	35.7	53.3	99.3	165
2009/02/08 22:44:04	26604 2000 FO25	11.5	15.86	2.26	157	1.0	38°19'26'' 50°35'57''	67	1.5	UCAC2	13.75	8 ^h 25 ^m 31.087 ^s 2°48'09.926''	36.5	218	160.0	-53.1	16.1	52.5	99.4	108
2009/02/09 15:11:20	105 Artemis	119.1	13.03	2.98	279	11.4	33°55'28'' 48°04'23''	218	0.0	TYC	10.12	6 ^h 18 ^m 49.852 ^s -6°08'09.410''	18.9	126	127.6	-5.2	51.8	4.5	100.0	19
2009/02/09 19:02:37	1742 Schaifers	19.9	16.57	2.71	39	0.9	36°22'05'' 50°23'45''	9	7.6	UCAC2	13.95	2 ^h 44 ^m 59.496 ^s 13°18'11.573''	28.9	256	81.9	-41.2	100.4	38.5	99.9	96
2009/02/09 20:08:52	4672 Takuboku	35.7	16.56	3.94	32	9.4	35°51'21'' 50°07'12''	285	9.3	UCAC2	12.65	5 ^h 18 ^m 18.925 ^s 24°15'37.689''	50.5	244	119.4	-49.2	63.5	46.1	99.9	150
2009/02/09 23:21:33	14354 Kolesnikov	7.2	18.69	7.85	139	0.6	37°33'23'' 50°59'58''	41	1.2	TYC	10.84	7 ^h 33 ^m 52.365 ^s 17°36'20.820''	36.8	252	150.9	-49.8	33.8	48.4	99.8	111
2009/02/10 04:19:05	1099 Figneria	29.4	15.54	2.94	112	2.6	34°59'45'' 49°29'20''	236	5.0	UCAC2	12.67	7 ^h 51 ^m 21.877 ^s 37°09'58.873''	10.3	318	147.5	-6.1	40.1	7.1	99.5	72
2009/02/10 19:28:46	14127 1998 QA91	7.6	17.80	7.00	234	0.6	37°23'01'' 52°01'52''	20	0.0	TYC	10.80	10 ^h 45 ^m 18.301 ^s 3°33'58.442''	26.4	119	160.3	-44.4	3.6	29.9	98.0	77
2009/02/10 19:35:26	1975 Pikelner	13.8	16.24	4.85	28	1.1	36°11'05'' 49°48'01''	195	7.0	TYC	11.41	8 ^h 45 ^m 30.126 ^s 12°19'09.535''	49.0	149	167.2	-45.2	27.9	30.8	98.0	73
2009/02/11 00:50:27	18059 Cava-lieri	12.6	16.18	3.81	156	1.3	37°07'54'' 51°20'47''	23	1.1	TYC	12.40	7 ^h 47 ^m 09.041 ^s 19°38'50.909''	25.6	271	152.8	-38.6	46.3	38.9	97.2	86
2009/02/11 19:09:53	36772 2000 RF99	14.5	16.01	3.16	169	1.8	35°40'17'' 48°34'48''	195	1.4	UCAC2	12.91	11 ^h 04 ^m 38.716 ^s -15°19'21.262''	6.0	123	144.3	-41.6	16.0	15.3	93.7	100

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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}
2009/02/11 22:07:46	26296 1998 SM116	6.6	17.76	6.14	240	4.1	33°06'31" 49°24'10"	252	0.1	UCAC2 37681386	11.62	6 ^h 16 ^m 43.710 ^s 16°37'26.882 ^{''}	34.3	254	130.5	-53.7	79.4	35.6	93.0	94
2009/02/12 00:41:03	3329 Golay	17.4	17.02	3.46	44	1.7	35°43'14" 49°53'27"	247	4.0	UCAC2 25092653	13.60	14 ^h 34 ^m 33.748 ^s -17°40'52.046 ^{''}	17.4	150	101.4	-39.7	46.4	37.0	92.3	169
2009/02/12 00:46:45	7462 Grenoble	5.5	17.51	7.00	77	0.5	35°33'29" 49°32'38"	223	1.7	TYC 184201011	10.51	4 ^h 36 ^m 24.743 ^s 28°24'01.196 ^{''}	4.1	311	108.2	-38.9	104.1	36.7	92.3	77
2009/02/12 19:06:52	1607 Mavis	12.0	15.88	3.88	227	0.8	36°48'03" 52°03'34"	9	0.0	UCAC2 38074991	12.03	9 ^h 53 ^m 54.807 ^s 17°46'25.340 ^{''}	43.3	118	175.2	-41.0	42.3	3.0	87.2	20
2009/02/12 19:46:30	2810 Lev Tolstoj	10.0	16.12	4.54	102	1.7	37°42'16" 49°56'43"	96	2.4	TYC 15401916	11.60	6 ^h 36 ^m 39.639 ^s 3°54'18.416 ^{''}	41.9	203	132.4	-45.9	85.2	8.7	87.1	101
2009/02/12 20:01:01	51858 2001 OQ105	8.7	18.19	6.22	16	0.9	36°13'02" 50°11'14"	342	3.4	UCAC2 39837554	11.97	7 ^h 22 ^m 52.650 ^s 22°42'52.380 ^{''}	62.1	197	144.9	-47.5	77.5	10.8	86.9	101
2009/02/12 23:19:10	1397 Umtata	16.8	16.86	4.37	156	2.1	37°32'58" 51°12'02"	35	0.6	UCAC2 40837117	12.51	6 ^h 43 ^m 38.435 ^s 25°38'36.225 ^{''}	33.1	272	135.5	-49.1	88.7	30.9	85.9	65
2009/02/13 15:36:28	12045 Klein	7.9	18.13	9.74	175	1.0	38°38'33" 49°38'09"	105	0.8	TYC 292802000	8.39	6 ^h 35 ^m 22.229 ^s 37°43'00.235 ^{''}	56.2	94	130.6	-8.1	101.0	-39.3	80.5	105
2009/02/13 16:41:35	1047 Geisha	14.1	15.67	4.25	54	1.3	36°02'55" 50°30'36"	342	3.0	UCAC2 40471268	11.44	4 ^h 40 ^m 21.711 ^s 24°50'10.621 ^{''}	65.0	181	107.0	-18.6	126.0	-30.5	80.1	28
2009/02/13 16:49:48	1049 Gotha	50.7	15.08	4.56	221	3.9	38°13'32" 48°30'43"	141	0.2	TYC 248301211	10.54	8 ^h 33 ^m 59.598 ^s 31°02'12.339 ^{''}	44.8	93	155.1	-19.9	76.4	-29.3	80.1	68
2009/02/13 19:43:00	2630 Hernod	14.5	16.61	5.31	110	1.8	36°28'11" 51°01'34"	7	2.9	TYC 191000493	11.30	7 ^h 32 ^m 05.225 ^s 24°07'58.664 ^{''}	64.2	186	145.7	-45.2	88.8	-3.1	79.1	84
2009/02/13 20:50:42	20044 1993 FV1	6.6	17.03	6.81	197	0.9	33°33'07" 49°53'40"	265	0.2	TYC 75302136	10.23	7 ^h 03 ^m 05.224 ^s 10°16'32.457 ^{''}	44.5	219	139.1	-51.4	93.0	6.5	78.7	86
2009/02/13 21:58:50	31753 1999 JL94	6.9	18.51	8.85	191	0.6	34°37'40" 48°42'50"	219	0.8	TYC 193901271	9.66	8 ^h 12 ^m 30.744 ^s 29°03'14.171 ^{''}	61.0	234	152.3	-53.2	82.8	15.0	78.3	148
2009/02/14 00:10:02	2016 Heinemann	22.1	17.67	4.59	56	1.5	35°31'47" 49°54'35"	254	8.8	UCAC2 24366062	13.10	15 ^h 29 ^m 39.801 ^s -19°19'38.756 ^{''}	8.1	134	90.4	-43.2	33.1	25.5	77.4	76
2009/02/14 00:20:13	2386 Nikonov	12.7	17.60	3.84	96	3.1	36°35'18" 50°53'15"	13	3.2	UCAC2 43934954	13.79	5 ^h 36 ^m 32.559 ^s 34°31'04.347 ^{''}	19.2	301	119.1	-41.9	117.5	25.9	77.3	108
2009/02/14 02:13:44	3434 Hurlless	8.3	17.81	6.37	44	0.6	36°44'36" 50°18'39"	48	3.7	TYC 85101231	11.44	11 ^h 12 ^m 32.909 ^s 10°06'00.049 ^{''}	35.2	240	159.7	-25.2	39.1	25.2	76.7	76
2009/02/14 02:40:51	3129 Bonestell	11.0	15.71	2.19	87	1.2	35°13'09" 49°40'15"	241	2.8	UCAC2 39484447	13.68	8 ^h 26 ^m 14.988 ^s 21°31'50.021 ^{''}	13.7	287	158.1	-20.8	80.0	23.7	76.5	66
2009/02/14 02:41:13	5033 Mistral	12.6	17.46	3.61	235	0.9	35°01'55" 48°06'10"	203	0.0	UCAC2 26465237	13.89	15 ^h 05 ^m 42.480 ^s -14°48'00.823 ^{''}	25.1	174	97.2	-20.8	25.9	23.7	76.5	64
2009/02/14 03:59:37	800 Kressmannia	15.8	15.12	2.26	92	1.2	35°47'21" 49°16'54"	203	0.3	UCAC2 34654199	13.00	10 ^h 34 ^m 01.868 ^s 8°03'57.657 ^{''}	11.3	269	168.3	-8.2	47.1	17.0	76.0	32
2009/02/14 17:25:58	6613 William-carl	11.5	18.02	4.45	224	0.7	38°37'37" 51°24'48"	48	0.7	UCAC2 27641980	13.59	7 ^h 55 ^m 04.407 ^s -11°39'03.329 ^{''}	20.8	142	141.8	-25.4	85.1	-34.8	71.0	126

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 5		LinOccult 2.0.0			
		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}
2009/02/15 02:09:06	23549 ES6	20.9	18.94	6.38	57	0.7	36°36'50" 50°30'50"	24	3.0 3.1	UCAC2 25150434	12.56	18 ^h 02 ^m 45.394 ^s −17°49'50.779"	5.7	127	55.9	-25.6	55.8	21.7	67.6	270
2009/02/15 15:54:19	16029 DQ6	12.0	16.63	3.31	151	1.4	34°56'40" 49°00'39"	220	1.7 4.5	UCAC2 33368169	13.37	6 ^h 56 ^m 49.264 ^s 4°39'44.860"	31.9	126	134.9	-10.5	114.6	-56.2	62.2	106
2009/02/15 16:55:35	84835 AA10	7.2	18.06	6.25	50	0.7	35°56'53" 49°39'31"	209	1.5 1.6	TYC 135702174	11.81	7 ^h 04 ^m 33.095 ^s 21°33'23.288"	53.1	129	138.0	-20.3	118.3	-49.2	61.7	186
2009/02/15 20:29:02	1775 Zimmer-wald	12.6	17.81	4.12	191	0.7	35°51'04" 48°21'06"	189	0.5 5.8	UCAC2 34396277	13.72	3 ^h 16 ^m 34.010 ^s 7°45'42.399"	12.1	268	81.8	-49.2	164.4	-17.4	60.3	86
2009/02/15 20:50:49	1963 Bezovec	44.7	14.43	6.03	193	4.0	37°59'07" 51°24'36"	39	0.0 37.4	HIP 66890	8.40	13 ^h 42 ^m 28.067 ^s 28°12'08.380"	33.4	85	125.5	-50.8	52.1	-14.1	60.2	46
2009/02/16 01:47:43	2114 Wallen-quist	27.7	16.37	6.56	137	4.5	35°15'27" 49°00'34"	212	4.3 11.0	TYC 189400123	9.81	6 ^h 53 ^m 41.117 ^s 23°32'33.389"	8.3	297	134.9	-28.7	125.9	16.7	58.1	101
2009/02/16 03:29:38	2331 Parvule-sco	20.7	17.95	6.15	141	0.6	34°50'10" 49°11'56"	228	2.4 9.8	TYC 685900472	11.81	18 ^h 42 ^m 32.710 ^s −22°34'49.532"	7.0	138	47.7	-12.4	51.0	17.1	57.4	84
2009/02/16 18:31:53	6872 CN1	7.2	15.80	6.85	7	0.8	36°16'27" 50°06'42"	353	4.3 4.3	TYC 81900367	8.95	9 ^h 17 ^m 42.763 ^s 9°21'56.151"	38.6	129	169.0	-35.0	97.1	-45.0	51.4	67
2009/02/16 23:32:50	105194 OA38	6.6	19.38	8.90	10	0.5	36°08'59" 50°03'24"	276	1.5 1.5	TYC 493800704	10.49	11 ^h 57 ^m 33.799 ^s −5°18'47.453"	34.8	177	146.4	-46.5	57.4	-1.2	49.4	176
2009/02/17 01:01:28	37586 BP2	6.9	16.11	6.46	80	0.6	37°08'56" 49°35'14"	130	2.0 2.9	TYC 723500565	9.65	12 ^h 02 ^m 22.021 ^s −32°30'13.627"	6.0	195	126.9	-35.4	49.2	8.0	48.7	95
2009/02/17 04:10:50	156 Xan-thippe	121.0	13.59	1.19	273	3.0	37°17'04" 52°25'04"	15	0.0 95.2	UCAC2 24212353	12.84	18 ^h 52 ^m 48.272 ^s −19°58'47.169"	12.8	145	46.2	-5.6	41.6	14.6	47.5	31
2009/02/17 15:35:45	25915 CF30	6.9	18.85	6.80	213	1.1	38°38'21" 51°14'56"	52	0.6 2.0	TYC 240200368	12.05	5 ^h 23 ^m 42.904 ^s 36°12'37.840"	68.6	121	112.9	-7.0	162.8	-65.7	42.9	140
2009/02/17 15:43:05	82506 OC48	5.8	18.79	7.82	242	0.7	35°23'18" 47°57'21"	195	0.4 1.5	TYC 77600203	10.97	7 ^h 26 ^m 54.701 ^s 14°01'01.900"	34.8	112	141.6	-8.2	134.3	-66.0	43.0	157
2009/02/17 16:20:55	31144 TM26	5.2	17.13	6.01	61	1.7	36°45'38" 49°35'16"	146	1.8 2.2	TYC 192201019	11.12	7 ^h 30 ^m 39.871 ^s 29°16'17.822"	51.6	106	140.2	-14.2	137.9	-66.1	42.8	94
2009/02/17 18:37:53	28663 GH43	5.2	20.19	8.21	189	0.6	36°40'50" 51°43'28"	9	0.5 1.7	UCAC2 39971407	11.99	4 ^h 32 ^m 45.706 ^s 23°10'10.947"	51.7	239	100.9	-35.6	176.5	-52.9	41.8	121
2009/02/17 22:28:02	13308 RL59	5.5	18.70	8.96	10	0.5	36°20'07" 49°57'49"	160	2.3 2.3	TYC 127100436	9.74	4 ^h 45 ^m 43.330 ^s 18°30'31.637"	14.2	282	103.1	-51.0	171.6	-18.1	40.3	95
2009/02/18 00:42:29	32173 NF12	8.7	19.18	8.10	98	0.6	37°10'28" 50°43'10"	40	2.1 2.9	UCAC2 21563812	11.08	15 ^h 53 ^m 34.223 ^s −25°03'29.982"	5.7	141	87.8	-37.8	10.2	-0.4	39.4	119
2009/02/18 01:46:52	73972 BA18	6.0	19.04	7.77	104	0.8	35°21'05" 49°20'18"	220	1.0 1.1	TYC 292601666	11.27	6 ^h 18 ^m 13.802 ^s 37°37'21.919"	13.8	313	123.1	-28.3	156.8	6.0	38.9	218
2009/02/18 03:25:25	16461 BO	15.8	17.97	5.89	164	0.6	38°14'56" 50°49'39"	58	1.8 6.0	UCAC2 16435630	12.09	17 ^h 05 ^m 36.576 ^s −36°10'04.889"	2.0	164	71.3	-12.6	10.6	12.3	38.4	106
2009/02/18 18:05:58	6975 Hiroaki	10.5	18.49	4.67	163	2.4	35°13'46" 51°20'43"	332	1.4 3.6	UCAC2 41169945	13.84	6 ^h 17 ^m 27.558 ^s 26°48'57.819"	67.0	185	123.7	-30.6	166.5	-63.6	32.8	117

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.				Table 1		Page 6		LinOccult 2.0.0			
		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}	
2009/02/18 18:12:48	16913 1998 EK9	7.2	16.82	6.31	121	0.7	34°35'46'' 50°08'10''	275	1.4	TYC	10.52	6 ^h 28 ^m 34.850 ^s 17°57'16.822''	58.1	182	126.5	-31.6	161.2	-62.9	32.8	134	
2009/02/18 19:48:32	185 Eunike	157.5	12.00	0.62	35	11.9	35°53'21'' 49°52'15''	235	98.7	UCAC2 33919832	12.28	7 ^h 54 ^m 47.235 ^s 6°07'21.288''	46.2	185	146.4	-44.3	137.8	-50.6	32.2	20	
2009/02/18 20:59:01	28639 2000 FK49	6.9	18.58	7.13	49	0.9	36°57'40'' 50°07'31''	80	1.5	TYC	11.45	5 ^h 14 ^m 18.575 ^s 33°19'20.099''	42.7	274	109.8	-50.2	173.4	-39.9	31.8	175	
2009/02/19 17:40:17	2291 Kevo	34.6	15.71	3.19	187	2.7	33°41'35'' 49°52'39''	264	3.2	UCAC2 30482385	12.58	6 ^h 23 ^m 39.947 ^s −3°36'30.727''	36.4	174	121.2	-26.4	149.5	-66.7	24.5	114	
2009/02/19 21:31:51	29869 Chiarabar- bara	11.0	17.39	4.54	163	0.9	36°10'21'' 51°30'29''	357	1.6	UCAC2 45167738	12.87	8 ^h 45 ^m 55.557 ^s 38°03'26.040''	72.8	233	146.6	-51.0	146.7	-42.2	23.2	141	
2009/02/20 03:46:14	694 Ekard	90.8	14.25	2.10	136	2.5	35°56'04'' 51°14'54''	349	0.0	TYC	12.32	18 ^h 10 ^m 47.676 ^s −18°19'48.806''	16.9	151	59.1	-8.6	9.0	8.1	21.2	26	
2009/02/20 15:36:10	27621 2001 KF67	13.8	16.33	4.36	179	1.1	38°47'53'' 50°04'08''	89	1.6	UCAC2 30697622	11.99	9 ^h 43 ^m 28.179 ^s −3°12'57.355''	0.9	96	163.8	-6.3	130.5	-48.7	17.5	130	
2009/02/20 18:45:26	4186 Tamashima	27.2	16.96	3.25	79	1.4	35°32'25'' 50°34'19''	318	4.1	UCAC2 31444786	13.77	4 ^h 37 ^m 45.097 ^s 0° − 34'54.195''	29.5	226	95.1	-35.8	136.6	-64.9	16.6	252	
2009/02/20 19:54:32	1315 Bronis- lawa	63.5	16.37	3.26	157	1.9	35°25'26'' 51°20'53''	337	1.6	UCAC2 35866395	13.17	1 ^h 34 ^m 26.343 ^s 11°46'35.429''	1.3	287	54.0	-44.4	101.4	-60.7	16.2	59	
2009/02/20 20:08:27	4170 Semmel- weis	17.4	16.94	6.12	237	3.1	33°06'53'' 50°42'11''	288	0.9	TYC	10.83	6 ^h 15 ^m 16.193 ^s 11°58'37.566''	42.3	230	120.9	-45.8	162.5	-59.3	16.2	124	
2009/02/21 00:27:17	54866 2001 OO39	5.8	18.57	8.52	110	0.5	37°30'43'' 50°39'12''	52	1.2	TYC	10.05	8 ^h 36 ^m 18.292 ^s 25°55'06.484''	35.4	269	151.6	-38.9	161.6	-21.2	14.9	133	
2009/02/21 02:48:14	4763 Ride	11.5	15.40	5.18	143	1.0	35°37'21'' 48°50'06''	199	1.9	TYC	10.22	9 ^h 46 ^m 21.184 ^s 15°40'05.734''	16.5	275	170.8	-17.7	144.8	-1.3	14.2	124	
2009/02/21 04:18:02	26538 2000 DG7	8.7	17.87	6.51	20	1.1	36°26'07'' 49°53'44''	148	3.7	TYC	11.36	14 ^h 13 ^m 04.230 ^s 2°59'11.628''	32.8	228	121.2	-3.3	79.8	8.6	13.9	92	
2009/02/21 15:18:06	462 Eriphyla	35.6	14.21	0.89	45	15.6	36°17'44'' 49°38'50''	179	19.2	UCAC2 40169067	13.96	6 ^h 50 ^m 56.606 ^s 23°45'10.860''	46.4	110	128.6	-3.2	167.4	-36.7	11.0	39	
2009/02/21 15:36:59	8085 1989 CD8	18.2	16.50	4.33	104	1.6	36°21'02'' 49°07'01''	177	2.3	UCAC2 38924104	12.19	4 ^h 49 ^m 17.872 ^s 20°23'22.597''	59.5	161	100.4	-6.2	138.7	-39.6	10.9	301	
2009/02/21 17:45:48	4164 Shilov	12.0	15.79	3.06	144	1.7	37°48'07'' 50°54'20''	49	2.0	UCAC2 31851612	12.80	7 ^h 54 ^m 21.714 ^s 0°07'56.119''	36.2	150	142.3	-26.7	157.9	-56.8	10.4	122	
2009/02/21 22:29:09	7032 Hitch- cock	7.2	16.85	5.07	59	1.3	36°38'56'' 50°31'44''	26	2.6	TYC	11.79	6 ^h 01 ^m 05.497 ^s 20°04'08.931''	24.6	272	116.9	-49.5	152.0	-44.7	9.3	89	
2009/02/21 23:57:38	25379 1999 TL210	9.5	16.49	5.24	229	1.5	36°36'37'' 47°59'54''	174	0.4	TYC	11.26	7 ^h 12 ^m 11.697 ^s 34°48'53.688''	32.2	287	130.5	-42.2	162.1	-31.1	8.8	114	
2009/02/22 00:43:20	15127 2000 EN45	13.8	17.07	4.89	77	1.3	35°53'20'' 49°24'31''	202	3.5	UCAC2 47635326	12.19	6 ^h 54 ^m 39.617 ^s 47°04'52.417''	31.2	308	123.1	-36.4	150.2	-23.9	8.7	132	
2009/02/22 20:22:54	2361 Gogol	15.1	15.42	3.18	5	1.5	36°17'01'' 50°05'20''	357	8.0	TYC	12.29	10 ^h 59 ^m 19.414 ^s 8°55'48.638''	42.1	138	171.3	-46.4	146.4	-58.0	4.8	75	

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.				Table 1		Page 7		LinOccult 2.0.0			
		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}	
2009/02/22 23:12:08	14706 2000 CQ2	10.5	17.31	3.90	188	1.5	38°06'12'' 51°16'55''	43	0.4	UCAC2 26899321	13.44	14 ^h 40 ^m 31.358 ^s −13°34'54.168''	16.2	137	112.4	-46.4	88.6	-42.0	4.3	84	
2009/02/23 15:25:05	1993 Gualcolda	13.2	16.38	3.23	58	0.9	36°14'48'' 49°31'33''	183	4.8	UCAC2 34843712	13.20	10 ^h 29 ^m 59.093 ^s 8°34'49.038''	2.6	80	178.8	-3.8	162.7	-17.6	2.0	89	
2009/02/23 18:02:38	31672 JB8	6.6	17.47	5.67	105	0.5	36°39'13'' 50°57'27''	15	1.5	TYC 288300877	11.81	4 ^h 26 ^m 48.007 ^s 40°18'39.803''	64.5	261	96.0	-28.7	109.9	-40.7	1.7	91	
2009/02/23 19:44:28	28192 WE24	8.3	17.74	6.46	79	0.7	36°59'40'' 50°35'46''	40	2.3	TYC 184503056	11.29	5 ^h 02 ^m 24.470 ^s 23°29'34.279''	42.9	255	101.6	-42.3	115.9	-51.1	1.6	108	
2009/02/24 15:39:14	15451 XK42	13.2	17.95	5.35	157	0.7	37°08'19'' 48°44'60''	157	1.9	UCAC2 38919477	12.61	3 ^h 49 ^m 27.508 ^s 20°01'20.280''	59.5	196	83.5	-5.8	88.3	-9.0	0.2	123	
2009/02/24 18:25:38	12656 5170 T-3	6.3	16.41	5.34	229	0.7	37°58'08'' 51°48'43''	31	0.1	TYC 82501117	11.08	9 ^h 15 ^m 47.718 ^s 13°11'02.028''	45.2	134	161.0	-31.9	164.7	-33.6	0.1	91	
2009/02/25 01:10:15	2159 Kukkamaki	12.8	15.93	2.56	100	6.3	36°52'09'' 50°51'50''	25	2.9	UCAC2 40844789	13.48	7 ^h 19 ^m 40.318 ^s 25°38'57.491''	14.0	293	131.3	-31.7	130.9	-29.3	0.0	77	
2009/02/25 18:12:43	1352 Wawel	24.0	15.37	2.30	41	2.9	36°07'01'' 49°41'52''	197	14.2	UCAC2 36819039	13.21	8 ^h 33 ^m 47.273 ^s 14°26'05.872''	49.9	144	149.7	-29.7	142.0	-21.2	0.6	41	
2009/02/25 22:16:46	2144 Marietta	18.0	15.33	3.40	203	2.1	34°38'04'' 48°34'46''	216	0.8	UCAC2 38252894	11.98	8 ^h 41 ^m 12.383 ^s 18°14'05.135''	47.3	235	150.6	-48.5	140.3	-42.1	0.9	96	
2009/02/26 00:07:25	3463 Kaokuen	7.6	16.49	5.79	162	8.3	36°31'59'' 51°29'44''	6	0.4	TYC 191900460	10.71	7 ^h 35 ^m 23.590 ^s 26°27'42.885''	26.0	281	133.6	-39.7	121.6	-36.8	1.1	73	
2009/02/26 02:06:17	7857 Lagerros	11.5	16.29	2.62	195	1.4	38°42'11'' 49°15'48''	117	0.7	UCAC2 38970452	13.77	8 ^h 32 ^m 46.258 ^s 20°05'10.462''	11.7	287	148.0	-22.9	135.8	-22.6	1.2	103	
2009/02/26 15:23:29	487 Venetia	63.1	12.71	0.55	263	14.4	39°38'12'' 49°06'30''	114	0.0	UCAC2 39993180	13.16	6 ^h 26 ^m 31.351 ^s 23°28'51.012''	53.3	124	118.0	-2.7	99.4	15.4	2.7	36	
2009/02/26 16:14:45	2075 Martinez	8.3	15.71	3.80	137	0.8	37°26'36'' 49°04'22''	143	0.5	TYC 302001453	11.94	12 ^h 24 ^m 05.484 ^s 41°28'12.798''	20.3	49	139.6	-10.9	135.1	7.7	2.8	64	
2009/02/26 23:33:21	5330 Senrikyu	12.4	16.77	3.56	214	0.7	34°02'17'' 51°19'56''	312	0.8	UCAC2 20148305	13.25	10 ^h 42 ^m 08.207 ^s −28°19'49.596''	8.4	203	143.2	-43.0	149.9	-35.6	4.0	118	
2009/02/27 03:21:28	11536 1992 FZ	13.2	17.75	5.22	28	0.7	36°37'10'' 50°10'42''	59	5.3	UCAC2 19192943	12.54	16 ^h 42 ^m 28.226 ^s −30°23'18.572''	9.4	174	85.4	-10.5	110.3	-13.2	4.7	95	
2009/02/27 17:20:02	1299 Mertona	17.4	15.67	2.08	86	2.2	37°03'38'' 49°27'38''	140	3.2	UCAC2 37145697	13.76	6 ^h 16 ^m 08.402 ^s 15°25'01.302''	55.6	180	114.5	-21.1	83.9	9.1	7.6	50	
2009/02/27 18:16:01	1774 Kulikov	10.5	16.40	2.66	77	0.9	36°34'14'' 50°42'40''	15	2.8	UCAC2 35213704	13.84	10 ^h 14 ^m 26.817 ^s 9°49'39.212''	35.1	121	172.7	-29.6	140.6	0.7	7.8	54	
2009/02/27 20:47:05	3095 Omarhayyam	18.2	16.58	4.93	53	1.5	36°01'07'' 49°36'19''	201	6.3	UCAC2 36821748	11.66	9 ^h 13 ^m 10.206 ^s 14°00'14.821''	53.7	192	157.1	-46.4	123.8	-19.5	8.4	101	
2009/02/27 21:27:32	915 Cosette	15.1	14.77	1.49	147	2.5	36°16'55'' 48°43'35''	180	0.0	UCAC2 40685553	13.60	8 ^h 48 ^m 15.119 ^s 25°07'15.412''	59.2	225	147.6	-48.0	113.6	-23.6	8.6	36	
2009/02/27 21:36:31	967 Helionape	12.0	15.88	2.44	173	1.1	37°22'31'' 51°26'23''	27	0.1	UCAC2 40018964	13.56	9 ^h 22 ^m 24.140 ^s 23°15'40.916''	60.1	214	155.3	-48.2	121.4	-24.4	8.7	54	

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.		Table 1		Page 8		LinOccult 2.0.0				
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}		
2009/02/27 23:02:57	6424 Ando	14.5	16.58	3.05	166	2.1	33°58'22'' 49°59'46''	268	2.1	UCAC2	13.60	7 ^h 56 ^m 04.131 ^s 17°05'23.470''	31.7	259	138.2	-45.3	104.0	-29.5	9.0	159