

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 2.3.1
Author: Plekhanov Andrey andyplekhanov@gmail.com
Events number: 278

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 1		LinOccult 2.3.1			
		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}
2018/12/01 03:17:24	4981 Sinyavskaya	11.5	16.14	2.54	41	1.0	36°33'27" 50°22'12"	28	4.1	UCAC4 555-7875	13.71	3 ^h 47 ^m 22.953 ^s 20°52'30.624"	10.5	290	170.6	-17.3	113.8	43.7	37.6	102
2018/12/01 04:13:25	3726 Johnadams	12.6	17.97	5.16	168	0.6	35°18'58" 48°40'46"	204	1.8	UCAC4 478-51724	12.82	11 ^h 30 ^m 54.661 ^s 5°31'42.831"	45.6	176	77.5	-8.7	3.3	46.3	37.2	164
2018/12/01 04:22:38	1535 Pajanne	26.7	16.12	3.88	24	1.8	36°33'04" 49°55'03"	127	7.0	UCAC4 570-10429	12.27	4 ^h 17 ^m 07.527 ^s 23°57'37.607"	7.6	299	176.7	-7.4	106.9	46.4	37.1	150
2018/12/01 15:49:34	27139 1998 XX46	9.1	17.60	4.64	42	0.6	36°13'46" 49°40'28"	186	2.9	UCAC4 496-146863	12.98	22 ^h 57 ^m 29.035 ^s 9°06'33.006"	49.3	180	99.8	-20.7	157.9	-33.9	32.1	116
2018/12/01 18:26:29	8400 Tomizo	9.1	16.36	3.15	186	1.5	35°49'42" 51°41'31"	350	0.4	UCAC4 500-38911	13.27	7 ^h 06 ^m 11.135 ^s 9°54'58.906"	12.0	89	140.8	-45.6	76.4	-33.9	31.1	87
2018/12/01 18:44:30	5192 Yabuki	22.9	15.69	4.64	254	2.7	37°00'50" 47°49'06"	168	1.0	TYC 1909-1250-1	11.07	7 ^h 23 ^m 08.771 ^s 24°13'49.051"	22.8	79	140.3	-48.2	72.9	-32.7	30.9	126
2018/12/01 21:28:43	4147 Lennon	8.3	16.48	2.91	17	0.8	36°25'27" 49°55'21"	145	3.8	UCAC4 590-20423	13.65	5 ^h 38 ^m 23.197 ^s 27°54'48.435"	65.2	146	163.5	-62.0	97.9	-14.1	29.7	86
2018/12/01 22:53:06	1535 Pajanne	26.7	16.14	4.59	195	1.8	36°24'22" 48°18'07"	177	3.1	UCAC4 570-10383	11.57	4 ^h 16 ^m 27.656 ^s 23°54'59.194"	57.1	228	176.0	-56.9	117.5	-1.6	29.1	150
2018/12/02 00:39:09	1762 Russell	19.1	16.96	3.07	28	0.8	35°59'55" 49°52'48"	228	4.7	UCAC4 461-49860	13.96	11 ^h 38 ^m 33.791 ^s 2°06'24.934"	21.8	115	75.3	-42.6	12.2	14.5	28.3	160
2018/12/02 03:17:21	1227 Geronium	41.8	15.97	3.32	52	2.9	36°46'09" 50°23'53"	41	10.5	UCAC4 653-16462	12.70	3 ^h 36 ^m 28.136 ^s 40°29'27.087"	23.1	306	157.9	-17.4	120.6	34.8	27.3	149
2018/12/02 13:31:03	4716 Urey	15.8	15.81	2.23	10	1.5	36°25'20" 50°02'38"	92	5.5	UCAC4 635-30302	13.73	5 ^h 56 ^m 48.767 ^s 36°56'54.539"	4.2	32	156.5	-0.3	101.6	-17.2	23.3	114
2018/12/02 13:33:37	1471 Tornio	33.0	16.46	3.95	200	1.1	38°10'12" 48°44'24"	137	4.0	UCAC4 372-175686	12.54	20 ^h 52 ^m 53.109 ^s -15°40'22.984"	24.4	178	61.2	-0.6	118.3	-17.6	23.2	188
2018/12/02 15:27:17	25851 2000 EE120	9.5	17.39	4.73	208	0.7	38°21'15" 48°44'58"	134	1.0	UCAC4 619-14350	12.67	4 ^h 18 ^m 18.414 ^s 33°37'11.473"	28.1	70	167.8	-17.3	122.8	-32.6	22.5	148
2018/12/02 16:14:09	4176 Sudek	30.0	15.97	2.69	146	2.8	35°23'27" 51°13'57"	334	4.9	UCAC4 530-6528	13.37	3 ^h 33 ^m 58.333 ^s 15°54'11.119"	29.9	101	164.6	-24.7	139.2	-37.1	22.2	163
2018/12/02 16:41:16	28343 1999 FG9	11.0	17.54	6.61	167	0.7	37°37'39" 48°49'32"	145	1.5	TYC 2896-649-1	10.93	5 ^h 17 ^m 41.767 ^s 38°56'54.558"	33.8	68	160.6	-29.1	110.5	-39.1	22.1	139
2018/12/02 19:48:45	3230 Vampilov	23.4	16.83	3.01	32	1.5	36°22'07" 50°19'40"	11	6.9	UCAC4 578-16305	13.89	5 ^h 30 ^m 45.805 ^s 25°34'05.061"	52.3	116	166.7	-56.5	112.5	-36.2	20.9	131
2018/12/02 19:50:41	2865 Laurel	14.7	15.43	2.24	131	1.2	35°23'04" 51°04'33"	331	2.7	UCAC4 666-33768	13.34	5 ^h 08 ^m 18.479 ^s 43°02'56.502"	67.5	96	157.7	-56.7	112.5	-36.1	20.9	113
2018/12/03 00:33:15	8400 Tomizo	9.1	16.33	2.64	158	1.4	37°17'01" 51°19'20"	27	0.8	UCAC4 500-38678	13.79	7 ^h 05 ^m 29.311 ^s 9°58'32.358"	49.3	195	142.2	-43.7	93.4	2.4	19.2	86
2018/12/03 00:35:09	20718 1999 XZ97	11.5	17.67	4.45	122	0.7	37°03'15" 51°01'30"	27	2.1	UCAC4 563-14027	13.24	5 ^h 05 ^m 02.845 ^s 22°33'33.422"	48.2	244	173.2	-43.4	121.5	2.7	19.1	161
2018/12/03 03:30:07	295 Theresia	27.7	15.90	2.10	86	0.9	37°04'15" 50°38'17"	40	5.4	UCAC4 423-57856	13.97	12 ^h 27 ^m 11.518 ^s -5°29'27.035"	30.2	150	62.3	-15.6	14.3	26.6	18.1	185

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 2		LinOccult 2.3.1			
		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}
2018/12/03 13:50:46	4930 Rephilitim	31.2	17.41	4.94	227	0.7	35°24'04'' 52°00'42''	344	3.2 4.4	UCAC4 352-139976	12.48	18 ^h 35 ^m 24.293 ^s −19°44'27.055''	12.9	216	27.4	-3.0	71.8	-16.9	14.7	281
2018/12/03 19:08:57	27231 JM57	9.5	15.55	2.78	156	1.0	34°22'58'' 50°45'12''	300	0.9 4.3	UCAC4 501-10191	12.86	5 ^h 06 ^m 51.630 ^s 10°07'29.739''	38.1	126	166.3	-51.7	132.8	-46.2	13.0	88
2018/12/03 20:03:33	5235 Jean-Loup	9.5	16.52	5.75	136	2.9	34°48'46'' 50°49'21''	309	1.4 4.3	TYC 620-868-1	10.78	1 ^h 28 ^m 02.988 ^s 13°42'43.941''	47.4	222	133.9	-58.1	169.6	-43.5	12.7	90
2018/12/03 20:05:11	5457 Queen's	12.6	16.98	3.46	71	1.8	35°48'35'' 50°36'25''	331	3.5 4.1	UCAC4 531-3411	13.57	1 ^h 58 ^m 39.576 ^s 16°11'39.317''	52.5	213	141.7	-58.3	170.4	-43.4	12.7	122
2018/12/03 21:44:34	1485 Isa	26.3	15.93	4.36	146	2.0	35°41'55'' 51°18'34''	343	4.2 8.5	UCAC4 609-16038	11.59	4 ^h 58 ^m 07.009 ^s 31°44'59.414''	72.0	182	169.5	-62.0	132.0	-33.2	12.3	124
2018/12/03 21:56:11	13360 1998 UD8	9.1	16.92	3.12	175	0.7	36°19'34'' 51°37'01''	1	0.9 3.3	UCAC4 564-13859	13.86	5 ^h 07 ^m 16.808 ^s 22°45'30.895''	63.0	182	173.6	-61.6	132.8	-31.7	12.2	110
2018/12/03 22:24:20	1813 Imhotep	24.7	15.90	4.60	131	2.0	36°36'05'' 51°12'41''	10	4.2 9.8	UCAC4 607-17362	11.32	5 ^h 11 ^m 08.280 ^s 31°16'06.568''	70.7	199	168.4	-59.8	129.9	-27.9	12.1	100
2018/12/03 23:07:11	10487 Dan-peterson	9.5	16.55	3.21	34	0.7	36°01'50'' 49°47'24''	213	3.8 4.0	UCAC4 528-27264	13.40	6 ^h 27 ^m 07.142 ^s 15°26'19.242''	55.6	178	153.8	-55.6	115.3	-21.7	11.9	95
2018/12/03 23:59:50	1712 Angola	59.5	16.09	3.69	54	2.9	35°32'05'' 50°05'60''	276	13.6 14.3	UCAC4 384-57772	12.43	10 ^h 42 ^m 56.364 ^s −13°13'56.907''	12.3	129	84.3	-48.8	50.4	-13.7	11.6	165
2018/12/04 00:32:00	2283 Bunke	11.0	15.65	4.48	95	1.2	36°18'23'' 50°54'06''	1	2.7 5.5	UCAC4 502-4731	11.19	3 ^h 12 ^m 37.284 ^s 10°14'18.822''	21.4	260	155.9	-44.0	163.8	-8.8	11.4	79
2018/12/04 03:42:41	4084 Hollis	12.0	17.56	6.89	160	1.3	36°54'16'' 51°25'58''	16	1.8 3.5	UCAC4 521-50032	10.68	10 ^h 07 ^m 44.291 ^s 14°10'11.394''	52.8	201	102.8	-13.9	65.1	18.3	10.6	136
2018/12/04 13:42:09	243 Ida	28.0	15.79	2.15	117	0.6	37°44'47'' 49°35'13''	116	4.6 5.4	UCAC4 332-165561	13.80	18 ^h 32 ^m 05.880 ^s −23°46'33.814''	9.3	214	25.3	-1.9	58.0	-11.6	8.0	207
2018/12/04 14:11:22	2104 Toronto	36.3	15.81	4.47	230	0.8	34°33'22'' 51°48'11''	328	3.8 6.8	UCAC4 362-124599	11.36	17 ^h 59 ^m 43.301 ^s −17°42'23.453''	8.1	230	18.7	-5.9	49.9	-16.3	7.9	212
2018/12/04 16:37:28	25851 EE120	9.5	17.40	4.16	138	0.7	35°01'12'' 50°59'40''	319	1.7 2.6	UCAC4 619-14114	13.26	4 ^h 16 ^m 25.214 ^s 33°36'16.538''	40.6	84	167.2	-28.5	148.1	-38.0	7.4	148
2018/12/04 18:37:00	2554 Skiff	9.5	16.46	3.22	246	1.2	38°25'43'' 48°19'57''	141	0.1 4.3	UCAC4 558-4856	13.30	2 ^h 25 ^m 14.068 ^s 21°32'38.934''	61.2	166	148.0	-47.3	168.1	-49.6	6.9	88
2018/12/04 20:58:59	1123 Shapleya	15.8	14.36	1.34	191	3.8	35°31'58'' 48°24'15''	196	0.1 9.9	UCAC4 572-41330	13.40	7 ^h 41 ^m 39.227 ^s 24°13'54.867''	43.3	104	139.2	-62.0	110.0	-47.3	6.4	64
2018/12/05 02:10:54	6424 Ando	12.0	16.07	3.43	106	1.1	36°10'15'' 49°06'08''	184	2.8 4.6	UCAC4 483-10046	12.69	5 ^h 03 ^m 24.598 ^s 6°32'41.591''	19.7	256	163.6	-28.5	149.5	-4.5	5.3	104
2018/12/05 02:46:51	13678 Shimada	10.5	18.55	5.92	179	0.6	38°27'21'' 50°52'08''	59	1.4 2.5	UCAC4 425-54329	12.64	10 ^h 48 ^m 11.758 ^s −5°08'44.232''	34.3	168	87.3	-22.8	63.2	0.8	5.2	170
2018/12/05 15:32:47	8345 Ulmerspatz	9.5	14.69	1.66	72	0.8	35°33'09'' 49°36'11''	227	3.0 6.8	UCAC4 674-13984	13.30	2 ^h 41 ^m 10.012 ^s 44°47'34.926''	52.4	76	145.8	-18.2	147.6	-24.6	3.0	56
2018/12/05 16:26:27	17168 1999 NP3	8.3	16.09	2.82	114	0.7	37°31'58'' 49°25'09''	128	1.6 3.8	UCAC4 558-12902	13.35	5 ^h 01 ^m 27.965 ^s 21°26'43.736''	23.9	85	176.6	-26.8	157.5	-32.8	2.9	88

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.		Table 1		Page 3		LinOccult 2.3.1				
		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}
2018/12/05 18:52:39	2544 Gubarev	9.2	15.96	4.20	73	0.7	35°36'16'' 50°31'55''	318	2.9 3.9	UCAC4 695-37769	11.78	5 ^h 26 ^m 33.270 ^s 48°58'28.889''	59.5	73	152.2	-49.6	139.0	-51.2	2.6	95
2018/12/05 19:08:10	2498 Tsesse- vich	14.5	16.38	3.69	81	1.4	36°45'05'' 49°23'03''	156	3.9 4.9	UCAC4 574-31846	12.73	6 ^h 43 ^m 17.099 ^s 24°36'39.865''	35.8	93	153.5	-51.7	135.3	-52.4	2.5	118
2018/12/05 20:18:20	48832 1997 YR3	8.7	16.12	3.19	215	0.9	39°05'30'' 49°23'02''	110	0.3 3.5	UCAC4 523-27573	12.99	6 ^h 28 ^m 05.040 ^s 14°28'06.483''	41.2	122	155.0	-59.6	139.4	-55.1	2.4	99
2018/12/05 21:04:22	10065 1988 XK	8.7	16.56	3.96	135	1.1	37°16'16'' 49°00'56''	149	1.4 3.4	UCAC4 538-29340	12.63	6 ^h 32 ^m 24.534 ^s 17°27'40.239''	49.2	131	155.0	-62.3	139.0	-53.9	2.3	102
2018/12/05 21:42:26	18984 Olathe	8.7	18.35	4.53	239	1.2	35°08'35'' 52°04'00''	340	0.6 2.3	UCAC4 589-3190	13.83	1 ^h 18 ^m 08.996 ^s 27°36'43.042''	41.8	264	132.5	-62.3	144.1	-51.4	2.2	148
2018/12/05 23:57:52	4577 Chikako	11.0	15.47	2.28	40	1.0	35°56'48'' 50°20'02''	323	5.2 6.0	UCAC4 580-44375	13.33	9 ^h 39 ^m 12.963 ^s 25°56'23.550''	54.5	120	114.5	-49.4	98.6	-35.0	1.9	72
2018/12/06 00:23:15	20718 1999 XZ97	11.5	17.58	4.45	104	0.7	35°38'28'' 49°13'01''	207	2.3 2.9	UCAC4 564-13252	13.15	5 ^h 02 ^m 34.526 ^s 22°36'30.940''	47.9	245	176.8	-45.7	161.2	-31.2	1.9	160
2018/12/06 01:02:34	67779 2000 UU81	8.7	16.13	3.98	161	0.5	34°43'51'' 51°05'57''	316	0.9 3.6	UCAC4 516-34551	12.18	6 ^h 54 ^m 00.667 ^s 13°07'16.124''	48.7	215	148.9	-39.6	135.5	-25.3	1.8	96
2018/12/06 03:43:17	8345 U1- merspatz	9.5	14.69	2.08	70	0.8	35°34'46'' 49°36'36''	226	3.1 6.8	UCAC4 673-14118	12.79	2 ^h 41 ^m 01.608 ^s 44°34'16.753''	15.3	324	145.6	-14.1	147.2	-1.1	1.5	56
2018/12/06 14:37:22	10562 1993 UB1	8.3	16.07	2.58	233	0.9	33°10'23'' 50°41'58''	288	0.0 4.3	UCAC4 740-31019	13.59	3 ^h 48 ^m 11.372 ^s 57°56'54.236''	42.2	46	142.7	-9.8	138.9	-10.7	0.6	77
2018/12/06 15:16:32	31335 1998 HY124	9.5	17.72	4.35	225	0.6	34°34'15'' 51°45'06''	327	0.8 2.7	UCAC4 603-33838	13.39	6 ^h 27 ^m 45.826 ^s 30°27'47.202''	8.3	51	157.0	-15.7	148.3	-16.8	0.6	143
2018/12/06 16:19:01	15941 Steve- authier	8.3	18.24	4.63	31	0.7	35°59'25'' 50°14'50''	316	2.3 2.4	UCAC4 592-38818	13.62	7 ^h 13 ^m 54.572 ^s 28°13'29.225''	8.6	56	147.5	-25.6	139.4	-26.6	0.5	140
2018/12/06 17:30:56	176 Iduana	121.0	13.95	2.90	254	3.5	35°53'03'' 52°18'52''	353	9.4 28.2	UCAC4 440-116420	11.13	20 ^h 37 ^m 07.526 ^s -2°06'20.172''	14.0	249	58.3	-37.2	63.5	-37.6	0.5	168
2018/12/06 22:32:43	3495 Colch- agua	15.1	16.96	8.94	125	1.3	36°19'46'' 51°10'07''	1	2.7 6.4	TYC 1341- 2323-1	8.02	6 ^h 37 ^m 44.663 ^s 21°27'07.258''	60.7	162	155.7	-59.6	151.4	-54.2	0.2	94
2018/12/06 23:02:26	5270 Kak- abadze	9.1	17.12	4.69	58	0.7	36°28'21'' 49°32'34''	167	2.9 3.3	UCAC4 492-5762	12.45	3 ^h 54 ^m 04.186 ^s 8°21'05.377''	37.3	232	160.0	-56.7	165.4	-51.3	0.2	109
2018/12/07 01:43:34	29200 1991 FX2	8.3	16.14	2.91	133	0.8	37°38'34'' 50°52'09''	47	1.4 3.3	UCAC4 668-40385	13.31	5 ^h 34 ^m 05.094 ^s 43°32'36.561''	53.0	281	157.3	-33.2	152.8	-28.8	0.2	100
2018/12/07 03:28:14	4943 Lac d'Orient	8.3	16.73	4.60	249	0.9	36°35'07'' 47°49'13''	175	0.1 3.6	UCAC4 511-35936	12.15	7 ^h 08 ^m 10.854 ^s 12°07'18.572''	30.2	252	146.3	-16.6	145.6	-12.8	0.1	91
2018/12/07 14:36:25	475 Ocllo	31.0	15.27	3.17	122	1.2	34°37'29'' 50°19'41''	285	4.7 15.7	UCAC4 389-138334	12.16	23 ^h 08 ^m 45.656 ^s -12°23'35.372''	26.2	163	88.2	-9.7	85.1	-5.1	0.2	78
2018/12/07 15:07:41	720 Bohlmia	33.7	15.48	3.79	145	0.9	37°32'37'' 49°02'02''	141	5.4 7.3	UCAC4 344-193651	11.72	20 ^h 24 ^m 16.350 ^s -21°17'56.868''	12.8	212	48.1	-14.4	44.6	-9.6	0.2	183
2018/12/07 16:44:27	10945 1999 GS9	9.1	17.20	4.25	48	0.7	36°07'10'' 50°28'07''	346	2.8 3.0	UCAC4 543-21070	12.97	5 ^h 53 ^m 19.279 ^s 18°34'26.244''	17.6	82	166.0	-29.7	171.2	-24.5	0.2	120

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.				Table 1		Page 4		LinOccult 2.3.1			
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}	
2018/12/07 17:29:08	1252 Celestia	17.4	16.74	4.02	90	0.6	36°05'49'' 50°50'52''	351	3.5 4.0	UCAC4 342-195443	12.75	21 ^h 08 ^m 06.090 ^s −21°44'37.193''	1.9	232	57.8	-36.9	53.4	-31.4	0.3	173	
2018/12/07 18:53:50	2898 Neuvo	13.8	15.44	1.72	254	1.1	36°37'08'' 52°19'02''	5	0.1 6.1	UCAC4 487-9609	13.97	5 ^h 03 ^m 13.620 ^s 7°20'01.721''	36.2	129	164.6	-49.8	166.6	-44.2	0.3	90	
2018/12/07 20:45:04	5995 Saint-Aignan	8.3	16.37	3.56	9	0.7	36°21'44'' 50°07'00''	35	3.9 4.0	UCAC4 541-20291	12.85	5 ^h 51 ^m 43.087 ^s 18°11'17.837''	53.1	141	166.4	-61.7	173.4	-57.4	0.4	84	
2018/12/07 23:45:24	870 Manto	15.1	17.22	5.55	98	1.1	36°22'51'' 49°10'21''	176	3.4 4.2	UCAC4 492-55099	11.68	11 ^h 10 ^m 31.681 ^s 8°19'22.680''	26.5	110	90.2	-51.4	97.9	-53.9	0.5	142	
2018/12/08 00:18:49	21867 1999 TQ251	9.5	17.79	5.28	254	1.0	35°12'12'' 52°13'31''	342	0.5 2.8	UCAC4 449-27743	12.52	7 ^h 00 ^m 58.412 ^s 0° - 14°10.418''	38.8	196	142.2	-46.6	150.2	-49.9	0.6	137	
2018/12/08 00:56:16	35534 1998 FW73	8.3	18.61	7.28	253	0.5	34°44'40'' 48°00'43''	206	0.6 2.0	UCAC4 690-23471	11.33	3 ^h 29 ^m 32.201 ^s 47°50'57.752''	43.0	298	149.2	-40.9	142.8	-44.9	0.6	164	
2018/12/08 01:51:55	4573 Piestany	24.5	16.27	3.01	12	1.9	36°19'30'' 49°56'28''	167	7.7 7.8	UCAC4 608-11284	13.33	4 ^h 00 ^m 54.546 ^s 31°31'00.193''	29.2	285	164.5	-32.0	155.9	-36.7	0.7	126	
2018/12/08 04:10:44	4174 Pikulia	13.2	17.83	7.34	111	2.4	37°13'31'' 50°50'33''	37	2.6 3.4	TYC 1383-393-1	10.49	8 ^h 29 ^m 12.799 ^s 18°18'57.611''	40.2	249	130.6	-10.3	140.6	-15.4	0.8	154	
2018/12/08 04:25:45	791 Ani	103.5	14.94	1.74	198	2.2	38°54'26'' 49°30'07''	108	12.6 19.9	UCAC4 396-65507	13.44	16 ^h 37 ^m 39.709 ^s −10°58'38.243''	4.2	113	12.6	-8.0	18.3	-13.1	0.8	205	
2018/12/08 17:17:08	481 Emita	116.0	13.48	1.70	25	6.7	36°36'48'' 49°58'50''	108	39.0 39.9	UCAC4 389-138927	12.03	23 ^h 34 ^m 38.468 ^s −12°23'53.274''	25.4	201	92.9	-35.0	77.3	-22.7	2.0	111	
2018/12/08 17:36:46	10095 Carl-loewe	10.5	17.02	4.00	147	0.8	35°16'24'' 51°12'14''	331	1.7 3.4	UCAC4 516-12247	13.05	5 ^h 25 ^m 24.965 ^s 13°08'05.714''	27.1	102	168.8	-38.1	166.4	-25.7	2.0	124	
2018/12/08 18:07:24	17840 1998 HG96	10.5	17.65	4.67	219	0.7	35°07'38'' 51°52'12''	338	0.9 3.0	UCAC4 457-9326	12.99	5 ^h 15 ^m 27.196 ^s 1°20'22.253''	23.8	119	158.3	-42.9	155.7	-30.5	2.1	141	
2018/12/08 18:33:58	27759 1991 RE6	8.3	17.76	6.88	46	0.6	36°07'33'' 50°27'00''	346	2.4 2.6	UCAC4 629-30729	10.88	6 ^h 08 ^m 34.977 ^s 35°36'26.972''	45.1	85	160.4	-46.9	165.6	-34.6	2.1	127	
2018/12/08 21:59:50	1358 Gaika	20.0	16.96	7.19	87	2.4	36°17'57'' 49°16'04''	179	5.4 7.7	TYC 1916-348-1	9.77	7 ^h 42 ^m 24.242 ^s 24°27'33.926''	54.7	124	143.2	-62.1	160.9	-60.2	2.6	104	
2018/12/09 00:32:43	5950 Leukip-pos	10.0	16.85	3.15	205	0.8	37°06'08'' 51°48'48''	17	0.7 3.4	UCAC4 623-25453	13.76	5 ^h 34 ^m 25.716 ^s 34°29'22.985''	58.1	256	166.2	-44.7	162.6	-55.2	2.9	117	
2018/12/09 02:46:29	82805 2001 QO30	8.3	16.89	3.84	42	0.7	36°50'11'' 50°11'10''	69	2.6 2.8	UCAC4 674-34369	13.08	5 ^h 11 ^m 39.786 ^s 44°46'07.448''	39.5	296	157.8	-23.4	151.5	-36.8	3.2	120	
2018/12/09 13:27:39	3127 Bagra-tion	31.0	17.07	4.20	67	0.6	35°22'59'' 50°12'45''	286	6.9 7.5	UCAC4 328-125797	12.89	18 ^h 01 ^m 25.073 ^s −24°26'43.408''	5.1	221	13.2	-0.2	12.6	12.9	4.9	164	
2018/12/09 15:35:37	1263 Varsavia	49.3	14.68	2.39	129	4.8	38°04'12'' 49°53'05''	98	8.8 18.9	UCAC4 327-571	12.41	0 ^h 31 ^m 45.836 ^s −24°42'50.637''	13.4	162	98.5	-18.7	75.3	-0.9	5.3	103	
2018/12/09 15:40:16	1230 Riceia	8.3	15.85	4.08	236	0.9	37°09'32'' 48°00'35''	165	0.0 4.2	UCAC4 487-11756	11.80	5 ^h 29 ^m 30.848 ^s 7°16'08.432''	3.8	83	163.4	-19.5	154.1	-1.5	5.3	78	
2018/12/09 15:56:48	2562 Chali-apin	24.5	16.31	2.45	81	2.7	37°15'40'' 49°41'12''	120	6.2 7.4	UCAC4 623-40892	13.98	7 ^h 31 ^m 00.449 ^s 34°29'24.883''	10.2	47	146.0	-22.1	165.3	-3.7	5.3	131	

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.				Table 1		Page 5		LinOccult 2.3.1			
		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}	
2018/12/09 17:43:59	2107 Ilmari	15.6	14.90	1.79	235	1.5	34°25'59" 51°48'39"	326	0.1	UCAC4 516-21118	13.34	6 ^h 08 ^m 36.774 ^s 13°10'59.203"	22.0	96	162.1	-39.3	164.5	-19.3	5.7	84	
2018/12/09 18:45:23	7485 Changchun	13.2	15.65	2.59	164	1.9	38°29'14" 50°28'17"	73	1.2	UCAC4 451-2945	13.16	2 ^h 19 ^m 03.017 ^s 0°11'56.387"	40.3	182	133.7	-48.6	107.1	-28.8	5.8	94	
2018/12/09 18:55:14	4437 Yaroshenko	9.1	17.42	3.68	245	4.0	33°42'43" 51°31'59"	312	0.3	UCAC4 498-2211	13.78	1 ^h 30 ^m 06.006 ^s 9°26'36.330"	47.5	204	126.9	-50.0	98.7	-30.3	6.0	110	
2018/12/09 19:28:38	506 Marion	105.9	12.75	1.43	209	9.5	34°15'41" 51°25'23"	317	4.6	UCAC4 674-23848	11.65	3 ^h 59 ^m 37.808 ^s 44°41'54.141"	79.9	116	154.3	-54.5	135.1	-35.5	6.0	95	
2018/12/09 20:08:47	29877 1999 GL17	9.1	16.22	2.47	191	1.0	37°41'45" 51°30'34"	32	0.4	UCAC4 467-5182	13.87	3 ^h 44 ^m 23.608 ^s 3°14'27.927"	43.4	181	152.3	-59.0	127.1	-41.6	6.1	91	
2018/12/09 21:41:16	2009 Voloshina	34.8	15.16	2.02	4	4.2	36°14'37" 50°01'18"	227	11.5	UCAC4 560-34692	13.33	6 ^h 46 ^m 47.268 ^s 21°51'58.334"	57.3	141	156.6	-62.8	174.1	-54.1	6.4	120	
2018/12/09 23:42:08	51349 2000 QQ173	8.7	19.19	6.22	119	0.5	36°23'29" 51°07'01"	4	1.4	UCAC4 601-11169	12.97	4 ^h 01 ^m 12.845 ^s 30°10'55.324"	47.9	261	163.7	-52.2	135.4	-61.6	6.8	217	
2018/12/10 02:01:17	1344 Caubeta	9.5	16.64	6.32	57	0.7	36°09'07" 49°32'36"	190	3.5	UCAC4 531-50685	10.32	10 ^h 35 ^m 24.051 ^s 16°03'49.860"	54.5	157	103.2	-30.8	134.0	-50.4	7.3	87	
2018/12/10 21:24:06	8316 Wolkenstein	14.5	16.48	5.97	145	1.3	35°37'24" 51°17'04"	341	2.4	TYC 1903-685-1	10.52	7 ^h 05 ^m 11.267 ^s 26°52'03.307"	57.9	125	153.6	-63.1	165.3	-44.7	11.8	144	
2018/12/10 21:28:40	29411 1996 WQ2	8.3	16.50	5.72	127	0.6	35°26'46" 51°03'05"	332	1.6	UCAC4 572-13641	10.79	5 ^h 00 ^m 45.826 ^s 24°18'32.907"	64.4	186	177.4	-63.1	137.8	-45.4	11.8	115	
2018/12/10 21:37:06	3862 Agekian	8.3	17.71	4.75	21	0.6	36°21'21" 50°13'56"	14	2.7	UCAC4 551-31252	12.97	6 ^h 42 ^m 04.495 ^s 20°07'08.198"	56.2	144	158.5	-63.0	160.9	-46.5	11.9	121	
2018/12/10 21:40:10	16565 1992 CZ1	10.0	16.83	2.93	68	0.8	36°12'25" 50°39'15"	355	2.8	UCAC4 587-13543	13.97	4 ^h 49 ^m 47.128 ^s 27°17'19.769"	66.6	199	173.6	-63.0	135.4	-47.0	11.9	120	
2018/12/11 01:32:17	2111 Tselina	30.1	14.73	3.02	203	3.0	36°26'59" 51°51'54"	3	2.3	UCAC4 491-31583	11.78	6 ^h 43 ^m 52.041 ^s 8°01'09.084"	37.5	230	153.2	-35.6	155.4	-57.8	12.9	118	
2018/12/11 02:55:42	1656 Suomi	8.1	15.03	1.41	154	1.5	34°20'06" 50°38'56"	296	0.1	UCAC4 312-22402	13.97	7 ^h 22 ^m 38.242 ^s -27°41'30.163"	0.9	222	120.2	-22.2	130.3	-48.8	13.3	51	
2018/12/11 04:20:02	4914 Pardina	15.8	14.25	0.93	246	1.5	35°07'43" 47°58'06"	200	0.0	UCAC4 553-17911	13.92	5 ^h 41 ^m 45.209 ^s 20°29'11.820"	12.0	288	172.5	-9.3	143.5	-36.6	13.7	75	
2018/12/11 13:38:38	1571 Cesco	34.5	17.80	4.08	113	0.8	37°23'46" 49°19'35"	135	5.3	UCAC4 322-170666	13.75	18 ^h 24 ^m 40.740 ^s -25°47'41.135"	4.4	220	16.5	-1.6	31.1	19.9	16.3	230	
2018/12/11 14:03:56	5314 Wilkickia	12.6	17.77	6.07	142	0.7	36°43'10" 48°48'09"	167	2.1	UCAC4 437-117255	11.70	22 ^h 57 ^m 57.107 ^s -2°36'02.045"	35.5	159	85.5	-5.1	38.1	18.9	16.4	155	
2018/12/11 19:04:15	15127 2000 EN45	12.0	15.93	2.31	29	2.1	36°02'47" 50°15'38"	324	2.4	UCAC4 673-12458	13.76	2 ^h 25 ^m 34.269 ^s 44°25'41.205"	83.1	220	139.5	-51.3	99.3	-14.9	17.9	196	
2018/12/11 21:05:16	2730 Barks	14.5	16.37	3.87	132	1.1	36°12'39" 51°13'52"	358	2.6	UCAC4 613-36296	12.53	6 ^h 35 ^m 48.831 ^s 32°29'11.210"	64.2	123	159.7	-62.8	146.5	-33.5	18.5	114	
2018/12/11 21:41:51	18285 Vlad-platonov	9.1	16.66	3.31	74	0.7	36°02'47" 49°24'12"	193	2.8	UCAC4 615-13459	13.41	4 ^h 15 ^m 46.615 ^s 32°55'20.046"	68.4	225	163.7	-63.0	117.0	-39.0	18.7	100	

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.		Table 1		Page 6		LinOccult 2.3.1				
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}
2018/12/11 21:51:37	10094 Ejikato	12.6	15.42	1.69	107	1.5	36°21'27'' 49°05'27''	177	2.8 5.5	UCAC4 677-20960	13.99	3 ^h 37 ^m 27.992 ^s 45°20'55.903''	69.2	269	150.2	-62.7	110.7	-40.4	18.7	92
2018/12/11 22:36:39	700 Auravictrix	15.4	13.92	0.74	134	1.5	36°43'17'' 51°13'20''	13	1.4 8.8	UCAC4 556-22846	13.95	6 ^h 01 ^m 03.225 ^s 21°09'26.050''	61.0	191	169.1	-59.9	139.1	-46.6	18.9	70
2018/12/12 01:49:00	161 Athor	44.2	14.52	1.64	184	1.8	35°29'07'' 48°28'36''	198	5.4 12.4	UCAC4 459-50142	13.15	12 ^h 31 ^m 52.809 ^s 1°43'55.006''	29.3	128	73.1	-33.1	126.0	-57.7	20.0	142
2018/12/12 03:52:02	11233 1999 JA82	9.1	16.90	3.03	35	0.7	36°30'56'' 50°19'30''	28	3.3 3.5	UCAC4 536-25923	13.94	6 ^h 22 ^m 15.362 ^s 17°06'45.831''	19.7	273	163.3	-13.6	141.0	-45.8	20.6	103
2018/12/12 04:48:41	8175 Boerhaave	12.0	17.45	3.52	82	2.1	35°19'32'' 50°26'43''	303	3.0 3.6	UCAC4 568-45908	13.97	9 ^h 10 ^m 02.128 ^s 23°25'50.036''	42.1	256	126.6	-5.3	174.6	-37.7	20.9	134
2018/12/12 13:37:51	39264 2000 YQ139	22.9	18.83	5.38	133	0.7	35°54'16'' 51°13'08''	348	2.5 2.7	UCAC4 431-107933	13.46	20 ^h 14 ^m 08.094 ^s −3°48'53.397''	34.0	202	46.8	-1.5	22.1	23.0	23.8	335
2018/12/12 20:49:08	1240 Centennaria	58.9	14.81	2.00	125	6.2	36°45'44'' 48°57'49''	164	11.4 18.3	UCAC4 603-43383	13.00	7 ^h 49 ^m 31.552 ^s 30°33'55.428''	50.0	101	145.7	-62.2	151.0	-22.0	26.2	127
2018/12/12 22:51:17	4687 Brunosandrej	9.5	16.48	5.61	233	1.0	35°56'41'' 52°07'60''	354	0.3 3.6	TYC 1880-982-1	10.87	6 ^h 41 ^m 06.412 ^s 22°36'11.739''	62.8	181	161.1	-58.6	136.4	-40.3	26.9	104
2018/12/12 23:19:46	18041 1999 RX13	10.0	16.97	3.28	79	0.8	36°33'13'' 50°44'16''	14	2.7 3.4	UCAC4 572-23766	13.75	6 ^h 05 ^m 41.708 ^s 24°14'31.025''	61.4	212	169.3	-55.4	128.1	-44.1	27.1	119
2018/12/13 01:21:13	1227 Gernium	41.8	16.11	2.41	93	3.3	36°57'50'' 50°45'52''	31	9.1 10.9	UCAC4 650-14746	13.83	3 ^h 26 ^m 33.423 ^s 39°52'44.287''	31.3	296	150.8	-37.7	95.8	-55.1	27.8	152
2018/12/13 04:10:29	2529 Rockwell Kent	8.3	16.44	3.54	199	0.7	35°50'12'' 48°16'59''	189	0.4 3.6	UCAC4 537-11172	12.94	5 ^h 01 ^m 55.682 ^s 17°15'54.117''	3.8	293	172.8	-11.0	110.1	-46.9	28.8	93
2018/12/13 14:05:11	48242 2001 PB1	9.1	16.58	3.63	110	0.8	34°54'04'' 50°29'39''	297	2.0 3.3	UCAC4 621-18905	12.98	4 ^h 53 ^m 47.010 ^s 34°02'05.223''	17.6	58	167.4	-5.2	105.9	26.0	32.4	111
2018/12/13 14:26:29	28991 2001 MU27	9.1	16.45	3.76	143	0.8	37°40'19'' 49°07'59''	136	1.5 3.2	UCAC4 584-19416	12.72	5 ^h 43 ^m 40.907 ^s 26°38'22.499''	8.0	58	173.9	-8.2	115.9	26.2	32.5	114
2018/12/13 14:45:44	7522 1991 AJ	10.0	16.96	4.65	124	1.2	36°26'43'' 48°56'33''	175	1.9 3.5	UCAC4 482-4835	12.33	3 ^h 22 ^m 20.186 ^s 6°14'42.040''	17.2	101	146.6	-11.1	78.8	26.0	32.6	113
2018/12/13 16:19:58	5196 Bustelli	9.1	16.12	2.86	32	0.9	36°01'32'' 50°16'38''	324	3.9 4.2	UCAC4 666-26368	13.34	4 ^h 35 ^m 04.848 ^s 43°01'10.051''	46.1	73	157.8	-25.7	102.3	21.5	33.2	87
2018/12/13 16:53:32	56768 2000 OS27	8.7	17.92	4.96	83	0.6	37°10'29'' 49°34'13''	130	2.1 2.5	UCAC4 650-37204	12.97	6 ^h 03 ^m 26.060 ^s 39°54'33.488''	35.9	68	161.1	-31.1	118.5	18.7	33.4	141
2018/12/13 17:17:11	239 Adrastea	41.5	14.00	0.94	252	4.4	37°21'09'' 47°53'46''	162	0.4 17.9	UCAC4 516-31363	13.65	6 ^h 43 ^m 59.411 ^s 13°10'42.938''	14.5	87	158.3	-34.9	127.5	16.3	33.5	92
2018/12/13 17:42:49	6011 Tozzi	8.7	17.33	4.26	101	0.7	36°50'53'' 49°13'14''	156	2.1 3.1	UCAC4 548-31611	13.10	6 ^h 40 ^m 47.283 ^s 19°31'35.116''	23.9	88	161.5	-39.0	127.1	13.5	33.7	112
2018/12/13 20:10:23	29411 1996 WQ2	8.3	16.59	4.31	61	0.6	35°48'49'' 50°30'05''	326	2.5 2.9	UCAC4 570-13276	12.30	4 ^h 57 ^m 57.593 ^s 23°56'09.407''	62.2	154	174.2	-59.3	102.5	-6.7	34.6	115
2018/12/13 20:23:49	1930 Lucifer	27.0	16.19	2.83	89	2.1	36°40'56'' 50°48'37''	18	6.4 8.0	UCAC4 521-146689	13.44	23 ^h 43 ^m 58.056 ^s 14°09'37.456''	24.5	263	100.2	-60.5	33.4	-8.8	34.7	134

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.		Table 1		Page 7		LinOccult 2.3.1				
		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}		
2018/12/13 23:26:40	12109 1998 KD51	10.5	16.93	3.24	156	0.8	36°41'00" 51°25'29"	10	1.4	UCAC4 526-23224	13.74	6 ^h 13 ^m 07.146 ^s 15°01'26.062"	165.8	208	165.8	-54.7	-36.3	35.9	112	
2018/12/13 23:53:06	6024 Ochano-mizu	8.7	15.59	2.19	219	0.9	34°46'30" 48°20'45"	210	0.0	UCAC4 623-26871	13.56	5 ^h 42 ^m 32.756 ^s 34°35'59.115"	167.8	248	167.8	-51.2	-39.8	36.1	72	
2018/12/14 01:00:41	1971 Hagi-hara	11.0	16.26	5.20	47	1.0	36°11'59" 49°37'39"	188	3.8	UCAC4 603-30459	11.07	6 ^h 08 ^m 09.539 ^s 30°33'56.677"	167.6	254	167.6	-41.0	-47.4	36.5	103	
2018/12/14 01:41:20	1652 Herge	11.5	15.65	2.70	122	0.9	35°48'51" 48°59'28"	196	2.0	UCAC4 561-12984	13.04	4 ^h 58 ^m 30.360 ^s 22°06'54.112"	174.0	270	174.0	-34.6	99.5	-50.5	87	
2018/12/14 01:48:28	2692 Chkalov	13.2	16.34	2.71	166	0.6	37°46'45" 51°11'38"	40	1.9	UCAC4 416-54210	13.72	11 ^h 19 ^m 17.940 ^s -6°49'30.226"	88.4	153	88.4	-33.4	158.2	-50.9	145	
2018/12/14 03:26:08	4653 Tom-maso	9.5	17.52	4.69	145	0.8	36°07'37" 48°44'45"	185	1.5	UCAC4 485-35265	12.84	7 ^h 12 ^m 39.107 ^s 6°54'50.848"	149.3	253	149.3	-17.8	128.6	-51.2	119	
2018/12/14 03:28:31	6463 Isoda	15.1	15.15	5.33	113	1.4	35°43'55" 49°05'52"	201	3.0	TYC 1901-857-1	9.82	6 ^h 43 ^m 24.752 ^s 28°00'06.356"	161.6	275	161.6	-17.5	122.6	-51.1	37.4	86
2018/12/14 04:55:51	54428 2000 LN27	11.0	17.22	4.00	250	0.7	33°47'08" 48°30'25"	226	0.6	UCAC4 642-19825	13.25	4 ^h 47 ^m 25.067 ^s 38°20'12.530"	162.8	317	162.8	-4.6	98.1	-43.6	38.0	135
2018/12/14 14:55:29	6424 Ando	12.0	16.12	2.36	21	1.1	35°59'45" 50°00'21"	257	4.5	UCAC4 484-8655	13.89	4 ^h 55 ^m 12.374 ^s 6°39'03.752"	161.8	85	161.8	-12.5	89.6	29.9	41.8	105
2018/12/14 18:01:17	717 Wisibada	31.0	15.25	2.19	8	2.7	36°10'19" 50°03'19"	276	11.8	UCAC4 578-32917	13.21	6 ^h 41 ^m 01.472 ^s 25°25'56.190"	163.0	87	163.0	-41.9	115.1	19.6	43.0	104
2018/12/14 18:41:49	1861 Komen-sky	15.1	16.72	4.84	153	1.4	37°03'01" 48°46'05"	159	2.3	UCAC4 628-41382	11.89	7 ^h 48 ^m 01.885 ^s 35°33'36.219"	147.1	74	147.1	-48.1	127.6	14.9	43.3	129
2018/12/14 19:27:39	12279 Laon	9.5	16.85	4.42	199	0.8	36°02'06" 51°49'55"	355	0.6	UCAC4 573-31297	12.45	6 ^h 34 ^m 48.689 ^s 24°24'29.043"	164.5	107	164.5	-54.4	113.0	8.8	43.6	107
2018/12/15 02:04:56	3571 Mi-lanstefanik	38.9	17.04	5.73	218	2.3	37°17'17" 51°54'01"	19	4.3	TYC 1307-449-1	11.32	5 ^h 48 ^m 06.899 ^s 20°23'23.587"	174.7	264	174.7	-30.9	98.6	-45.4	46.3	232
2018/12/15 13:35:57	723 Hammonia	35.7	15.88	2.40	243	0.8	37°58'09" 48°09'49"	150	3.5	UCAC4 351-137368	13.60	18 ^h 28 ^m 31.365 ^s -19°53'27.995"	13.8	224	13.8	-1.2	77.7	27.3	50.8	213
2018/12/15 14:26:18	172 Baucis	62.4	13.00	5.12	144	4.5	37°09'18" 48°52'59"	154	0.0	HIP 118019	7.89	23 ^h 56 ^m 21.009 ^s 10°55'07.622"	100.1	147	100.1	-8.2	17.3	31.4	51.2	31
2018/12/15 14:51:39	4759 Aretta	15.6	16.76	4.98	175	1.2	37°41'47" 48°46'22"	145	1.8	UCAC4 562-18639	11.79	5 ^h 37 ^m 41.336 ^s 22°20'28.411"	178.2	67	178.2	-11.9	90.1	32.8	51.3	122
2018/12/15 15:11:52	2523 Ryba	23.6	16.02	4.86	184	2.1	33°55'46" 50°44'19"	295	2.8	UCAC4 586-8573	11.17	3 ^h 34 ^m 35.706 ^s 27°06'11.921"	153.5	90	153.5	-15.0	64.0	33.6	51.5	139
2018/12/15 15:55:00	1553 Bauersfelda	15.8	15.39	3.25	175	1.6	37°36'12" 48°43'43"	147	1.3	UCAC4 558-34432	12.19	6 ^h 47 ^m 36.691 ^s 21°33'46.901"	162.3	67	162.3	-21.7	105.7	34.2	51.7	99
2018/12/15 16:49:01	54808 2001 ME24	12.0	16.91	3.56	183	0.7	37°08'00" 51°36'23"	19	1.2	UCAC4 576-131192	13.40	23 ^h 03 ^m 27.725 ^s 25°03'02.028"	93.8	230	93.8	-30.3	33.0	32.8	52.1	119
2018/12/15 17:13:12	2162 Anhui	10.0	15.24	2.20	114	2.2	36°45'45" 49°04'08"	163	1.2	UCAC4 542-43443	13.19	7 ^h 52 ^m 52.930 ^s 18°20'27.754"	146.6	71	146.6	-34.2	120.6	31.5	52.2	63

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 8		LinOccult 2.3.1			
		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}
2018/12/15 18:14:19	11004 Sten-mark	14.5	16.73	4.26	34	1.0	36°04'59'' 50°19'39''	335	4.2 4.3	UCAC4 685-36009	12.49	5 ^h 18 ^m 36.535 ^s 46°56'15.701''	60.2	78	156.1	-43.9	88.1	26.6	52.7	133
2018/12/15 19:05:39	1993 Gualcolda	8.7	17.88	5.23	133	0.8	35°53'34'' 51°12'51''	348	1.6 2.7	UCAC4 495-41972	12.65	7 ^h 21 ^m 05.715 ^s 8°48'50.567''	23.9	105	150.1	-51.5	111.9	20.9	53.0	129
2018/12/15 21:48:15	1807 Slovakia	11.0	15.16	2.84	228	1.5	36°55'27'' 48°02'25''	168	0.0 6.8	UCAC4 538-42667	12.40	7 ^h 33 ^m 20.305 ^s 17°26'18.981''	51.7	139	151.1	-63.2	113.5	-2.2	54.1	65
2018/12/15 23:08:31	949 Hel	69.2	14.50	1.42	13	4.9	36°14'04'' 50°09'49''	344	22.2 22.3	UCAC4 629-29980	13.42	6 ^h 04 ^m 04.292 ^s 35°38'37.124''	71.3	227	165.8	-57.1	92.8	-14.5	54.7	122
2018/12/16 02:06:25	2094 Mag-nitka	12.7	14.55	1.38	158	1.4	37°04'03'' 51°22'47''	21	0.5 7.5	UCAC4 577-27853	13.53	6 ^h 22 ^m 26.069 ^s 25°12'45.396''	40.1	262	168.6	-30.8	94.7	-37.8	55.9	67
2018/12/16 02:06:39	420 Bertholda	141.2	13.70	0.75	188	20.1	36°00'32'' 51°43'48''	354	16.0 41.0	UCAC4 512-44753	13.71	8 ^h 22 ^m 36.960 ^s 12°20'14.669''	46.5	220	138.3	-30.7	123.4	-37.9	55.9	131
2018/12/16 02:28:50	1637 Swings	45.5	15.41	2.22	38	4.1	36°45'32'' 50°12'31''	62	12.4 12.8	UCAC4 653-49415	13.35	7 ^h 55 ^m 26.614 ^s 40°27'17.420''	61.2	266	145.5	-27.1	112.5	-39.8	56.1	141
2018/12/16 02:38:17	1191 Alfa-terna	41.9	15.16	8.18	157	3.5	37°06'56'' 51°21'20''	22	1.0 27.5	HIP 32535	6.98	6 ^h 47 ^m 20.685 ^s 5°28'25.554''	24.0	249	154.8	-25.6	99.6	-40.5	56.1	60
2018/12/16 03:09:46	8475 Vsevoivanov	8.3	16.39	3.02	85	1.0	36°04'38'' 49°17'40''	190	2.3 3.5	UCAC4 529-8239	13.44	4 ^h 19 ^m 46.941 ^s 15°43'37.489''	3.6	290	161.2	-20.6	64.5	-42.5	56.4	96
2018/12/16 04:21:59	114 Kassandra	99.6	13.41	0.59	178	2.6	35°03'28'' 48°40'05''	210	13.3 25.9	UCAC4 394-55925	13.78	14 ^h 17 ^m 43.063 ^s -11°23'37.397''	24.0	150	47.9	-9.6	145.6	-43.8	56.8	150
2018/12/16 04:48:46	27508 2000 GS142	10.0	16.87	4.35	229	0.7	38°12'52'' 51°42'05''	37	0.5 3.5	UCAC4 548-22744	12.54	6 ^h 05 ^m 07.523 ^s 19°28'39.650''	7.4	292	171.7	-5.8	89.0	-43.0	57.0	115
2018/12/16 16:23:25	3829 Gunma	24.3	18.04	5.03	207	1.1	35°02'29'' 51°44'08''	335	2.7 3.5	UCAC4 421-141670	13.02	22 ^h 50 ^m 26.033 ^s -5°59'05.627''	30.1	209	77.3	-26.2	26.8	38.7	61.7	276
2018/12/16 17:05:50	5632 Ingelehnann	13.2	16.25	3.46	82	0.9	35°58'57'' 50°45'36''	345	3.6 4.7	UCAC4 591-32328	12.84	6 ^h 27 ^m 21.561 ^s 28°06'04.764''	28.1	79	167.4	-33.0	88.4	38.3	61.9	111
2018/12/16 21:31:29	5555 Wimberly	11.0	16.44	3.02	75	1.1	36°15'29'' 50°43'20''	358	3.2 4.1	UCAC4 642-39509	13.49	7 ^h 01 ^m 03.398 ^s 38°15'18.880''	71.3	121	156.6	-63.5	93.2	10.5	63.7	106
2018/12/17 04:24:47	286 Iclea	96.9	15.26	1.67	167	2.8	36°38'19'' 51°31'52''	9	13.5 18.8	UCAC4 444-57611	13.85	14 ^h 21 ^m 33.887 ^s -1°18'30.908''	33.8	147	52.4	-9.3	159.5	-39.0	66.5	204
2018/12/17 14:22:23	458 Hercynia	38.8	15.70	1.99	139	0.9	37°16'30'' 48°58'38''	149	5.8 7.2	UCAC4 356-178829	13.90	19 ^h 09 ^m 32.174 ^s -18°48'59.430''	8.0	228	21.4	-7.5	93.2	31.2	70.4	215
2018/12/17 20:47:26	9090 Chironomondai	9.5	15.97	2.91	56	0.9	36°31'10'' 50°31'36''	17	3.3 3.9	UCAC4 589-14330	13.13	4 ^h 51 ^m 28.749 ^s 27°43'33.057''	67.9	184	168.0	-62.2	53.0	27.0	72.8	97
2018/12/18 00:59:13	11785 Migaic	9.1	16.71	3.32	158	0.8	37°30'34'' 51°14'16''	33	1.4 2.6	UCAC4 567-10303	13.45	4 ^h 21 ^m 02.264 ^s 23°15'50.818''	28.8	273	161.5	-41.7	42.8	-10.5	74.5	139
2018/12/18 01:05:57	16843 1997 XX3	12.6	18.35	4.44	10	0.7	36°14'47'' 49°57'47''	197	2.5 2.5	UCAC4 533-14633	13.93	5 ^h 28 ^m 07.065 ^s 16°35'34.722''	33.5	255	172.6	-40.6	56.9	-11.5	74.5	199
2018/12/18 02:53:02	1108 Demeter	25.6	17.49	5.79	48	1.6	36°57'34'' 50°04'46''	86	6.4 6.7	UCAC4 342-60507	11.71	10 ^h 49 ^m 11.777 ^s -21°37'31.466''	18.4	184	92.8	-23.5	134.5	-25.1	75.2	152

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.				Table 1		Page 9		LinOccult 2.3.1			
Date Time (UTC)	Asteroid			Nearest point			Star				Sun			Moon							
	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}	
2018/12/18 21:36:43	2098 Zyskin	17.8	15.72	6.69	256	1.5	36°32'12" 47°45'27"	176	0.1	TYC 2409- 1653-1	9.03	5 ^h 48 ^m 04.295 ^s 33°26'29.281"	73.7	183	169.8	-63.5	53.2	30.5	81.9	87	
2018/12/18 23:30:46	6522 Aci	8.3	17.21	4.11	200	0.5	36°10'16" 48°15'17"	182	0.5	UCAC4 660-28662	13.13	4 ^h 56 ^m 14.501 ^s 41°53'28.337"	59.9	271	158.7	-54.7	46.4	13.6	82.5	107	
2018/12/18 23:45:10	717 Wisibada	31.0	15.16	2.44	10	2.6	36°20'15" 50°07'59"	21	11.8	UCAC4 578-32002	12.85	6 ^h 37 ^m 05.729 ^s 25°29'31.303"	60.9	221	168.1	-52.8	61.2	11.3	82.6	104	
2018/12/19 00:06:27	8570 1996 TN10	10.5	17.92	4.78	161	0.9	35°45'60" 48°38'18"	193	1.5	UCAC4 496-57569	13.15	11 ^h 28 ^m 31.937 ^s 9°11'05.712"	34.0	120	97.6	-49.8	131.6	8.1	82.8	141	
2018/12/19 00:49:48	10065 1988 XK	8.7	16.20	4.19	40	0.9	36°20'41" 49°41'22"	174	3.2	UCAC4 535-25837	12.04	6 ^h 21 ^m 40.268 ^s 16°49'05.156"	43.5	240	169.4	-43.3	56.7	1.5	83.0	98	
2018/12/19 03:03:45	29536 1998 BC12	9.1	16.93	3.10	117	0.7	35°21'18" 49°11'23"	215	1.9	UCAC4 539-25135	13.89	6 ^h 20 ^m 44.362 ^s 17°47'17.502"	23.3	270	170.2	-21.9	55.3	-16.8	83.7	113	
2018/12/19 15:21:30	17428 Charletoi	17.4	17.20	3.52	67	1.1	36°40'50" 49°30'01"	155	3.6	UCAC4 556-20392	13.72	5 ^h 50 ^m 08.157 ^s 21°11'20.430"	14.4	74	177.8	-16.2	41.4	34.1	87.6	180	
2018/12/19 15:27:09	700 Auravic- trix	15.4	13.62	0.61	102	1.4	37°07'27" 49°18'50"	144	3.0	UCAC4 558-21297	13.93	5 ^h 51 ^m 59.087 ^s 21°33'31.534"	15.3	75	178.1	-17.1	41.9	34.9	87.6	69	
2018/12/19 15:31:24	813 Baumeia	13.5	14.19	1.27	15	1.5	36°15'28" 50°11'06"	352	7.7	UCAC4 588-13887	13.32	4 ^h 44 ^m 08.628 ^s 27°32'28.201"	31.0	83	164.8	-17.8	28.7	35.5	87.6	68	
2018/12/19 15:41:19	51814 2001 OZ8	9.5	17.38	4.62	181	1.6	38°38'13" 49°28'04"	111	1.0	UCAC4 534-4996	12.77	2 ^h 53 ^m 42.465 ^s 16°47'34.654"	41.9	118	138.5	-19.3	5.2	36.9	87.7	123	
2018/12/19 16:09:53	2374 Vlad- vysotskij	15.1	15.94	2.76	192	1.9	38°51'26" 49°33'36"	106	1.5	UCAC4 654-13535	13.27	3 ^h 12 ^m 27.527 ^s 40°47'26.026"	60.2	92	143.0	-23.8	28.8	40.7	87.8	126	
2018/12/19 17:30:02	3495 Colch- agua	15.1	16.67	3.43	154	1.1	37°02'14" 48°45'02"	160	2.4	UCAC4 559-28775	13.29	6 ^h 27 ^m 56.245 ^s 21°38'28.607"	29.2	91	170.9	-36.7	49.0	49.3	88.2	154	
2018/12/19 18:33:39	6463 Isoda	15.1	15.02	3.26	7	1.3	36°19'07" 49°59'18"	161	7.0	UCAC4 589-33146	11.81	6 ^h 37 ^m 07.950 ^s 27°40'42.804"	42.3	96	168.4	-46.6	50.9	52.5	88.5	85	
2018/12/19 19:56:05	1145 Robel- monte	23.2	15.05	3.17	98	1.8	35°52'31" 50°53'33"	343	5.7	UCAC4 614-19476	11.94	5 ^h 16 ^m 57.333 ^s 32°44'16.312"	69.4	141	168.2	-57.7	35.0	50.7	88.9	94	
2018/12/19 20:02:55	536 Merapi	151.4	13.27	0.89	136	10.6	36°11'37" 48°49'44"	183	26.9	UCAC4 606-14677	13.02	4 ^h 42 ^m 49.099 ^s 31°02'20.899"	70.8	166	163.3	-58.5	27.9	50.3	89.0	136	
2018/12/19 20:44:37	21018 1988 VV1	8.7	17.97	6.30	57	1.4	35°31'08" 50°11'51"	287	2.5	UCAC4 583-3595	11.68	1 ^h 34 ^m 55.328 ^s 26°30'48.507"	44.1	259	122.8	-62.0	26.8	46.7	89.2	128	
2018/12/19 21:14:05	2053 Nuki	14.5	15.20	1.91	71	1.7	36°25'41" 49°24'47"	172	4.8	UCAC4 494-36378	13.49	7 ^h 00 ^m 12.946 ^s 8°45'03.993"	45.1	149	157.7	-63.4	55.5	43.5	89.3	86	
2018/12/19 22:13:43	9414 Masamimu- rakami	10.0	16.33	2.58	77	0.7	36°37'36" 50°42'16"	18	3.0	UCAC4 623-32530	13.85	6 ^h 18 ^m 06.173 ^s 34°32'19.025"	74.5	191	167.2	-62.3	46.2	35.9	89.6	94	
2018/12/19 22:31:33	5070 Arai	15.1	16.09	2.82	136	1.2	36°30'44" 51°15'35"	7	2.7	UCAC4 609-19029	13.35	5 ^h 20 ^m 20.579 ^s 31°44'30.971"	65.4	231	169.3	-61.0	33.8	33.3	89.7	151	
2018/12/20 00:35:54	13166 1995 WU1	10.0	15.92	2.32	188	1.3	34°05'58" 49°07'41"	237	0.3	UCAC4 636-43545	13.74	8 ^h 17 ^m 47.389 ^s 37°06'59.970"	75.7	211	145.6	-45.5	69.2	14.6	90.3	82	

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 10		LinOccult 2.3.1			
		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}
2018/12/20 00:50:46	7483 Seki-takakazu	10.0	18.30	4.50	50	0.9	36°06'19" 49°37'03"	195	2.5	UCAC4 489-53807	13.82	11 ^h 30 ^m 10.823 ^s 7°39'39.706"	38.7	133	97.7	-43.2	118.5	12.3	90.4	154
2018/12/20 01:52:09	58 Concordia	93.4	12.69	0.67	124	8.5	36°56'49" 51°04'36"	22	17.1	UCAC4 530-34481	12.86	6 ^h 51 ^m 11.833 ^s 15°49'32.649"	37.3	248	163.9	-33.5	49.8	3.1	90.6	94
2018/12/20 04:01:16	565 Marbachia	27.6	14.68	1.85	228	3.0	39°27'17" 49°52'53"	95	0.5	UCAC4 431-52390	13.05	10 ^h 01 ^m 18.965 ^s -3°58'37.608"	28.3	220	113.2	-13.1	98.6	-13.8	91.2	90
2018/12/20 14:31:40	8376 OZ9	15.1	17.89	4.63	221	0.9	38°07'13" 48°27'51"	143	1.6	UCAC4 577-13762	13.27	5 ^h 09 ^m 22.034 ^s 25°12'59.704"	16.6	70	169.9	-8.7	20.0	21.5	93.8	187
2018/12/20 20:38:58	1561 Fricke	26.0	16.78	6.92	164	2.1	35°52'50" 51°29'56"	350	3.8	TYC 1259-699-1	9.86	4 ^h 09 ^m 13.154 ^s 18°59'14.459"	57.5	203	155.2	-61.6	2.4	55.1	95.1	189
2018/12/20 21:04:50	4366 Venikagan	30.6	16.20	4.08	208	3.0	36°19'24" 48°10'46"	179	1.5	UCAC4 576-35789	12.15	6 ^h 56 ^m 07.097 ^s 25°06'20.417"	60.0	137	165.8	-63.1	39.7	53.3	95.2	101
2018/12/20 23:05:10	32353 QX118	8.7	17.82	4.90	159	0.6	36°26'44" 51°28'32"	4	1.3	UCAC4 629-21260	12.93	5 ^h 11 ^m 04.339 ^s 35°37'07.396"	61.5	253	164.5	-57.9	22.5	39.2	95.6	142
2018/12/21 00:23:48	33750 Davehiggins	9.5	16.02	2.42	94	1.1	37°28'02" 50°25'55"	63	2.2	UCAC4 782-8690	13.72	3 ^h 03 ^m 08.000 ^s 66°15'39.167"	45.9	325	129.3	-47.4	50.6	27.6	95.9	131
2018/12/21 03:23:37	2447 Kronstadt	8.7	16.13	2.95	42	0.8	35°57'39" 49°43'46"	213	3.6	UCAC4 508-27406	13.25	6 ^h 32 ^m 13.085 ^s 11°35'14.876"	16.1	269	165.3	-18.9	31.3	0.8	96.4	86
2018/12/21 14:29:17	929 Algunde	15.8	16.46	3.34	132	0.5	35°20'12" 51°04'15"	329	2.9	UCAC4 420-147565	13.17	22 ^h 34 ^m 05.043 ^s -6°01'10.168"	33.9	186	68.5	-8.3	96.2	14.8	98.1	127
2018/12/21 16:33:28	4192 Breysacher	24.7	17.19	5.05	121	1.5	35°28'03" 50°59'49"	331	4.9	UCAC4 457-245	12.15	0 ^h 11 ^m 13.151 ^s 1°16'00.274"	40.3	196	93.6	-27.5	72.1	34.1	98.4	140
2018/12/21 19:10:28	475 Ocllo	31.0	15.52	2.05	62	1.1	36°56'02" 50°24'49"	49	11.0	UCAC4 418-154621	13.64	23 ^h 34 ^m 10.340 ^s -6°30'00.596"	13.1	243	81.9	-51.9	85.1	55.0	98.7	87
2018/12/21 20:11:54	453 Tea	20.2	13.44	0.70	86	1.8	36°03'10" 50°48'03"	349	5.6	UCAC4 614-28456	13.54	5 ^h 58 ^m 27.864 ^s 32°43'10.549"	67.4	132	170.6	-59.3	17.6	59.2	98.8	75
2018/12/21 22:44:14	6759 1980 KD	10.5	17.40	3.91	187	0.8	37°00'21" 51°39'44"	16	1.2	UCAC4 532-33363	13.52	6 ^h 50 ^m 37.298 ^s 16°13'17.399"	56.2	189	165.9	-60.0	23.5	51.8	99.0	132
2018/12/21 23:43:16	2214 Carol	25.2	17.68	4.03	157	2.0	36°28'50" 48°38'26"	175	3.9	UCAC4 462-39444	13.67	8 ^h 05 ^m 24.122 ^s 2°20'40.304"	42.5	182	142.9	-53.2	45.0	44.3	99.1	158
2018/12/22 01:05:31	2905 Plaskett	13.2	16.36	2.60	114	1.0	35°33'51" 49°08'25"	207	2.8	UCAC4 630-24363	13.87	5 ^h 24 ^m 44.061 ^s 35°55'15.060"	44.0	277	165.4	-41.1	16.1	32.1	99.3	115
2018/12/22 02:21:20	6719 Gallaj	8.3	16.78	8.63	250	0.8	38°26'30" 51°50'29"	38	0.0	TYC 1913-2-1	8.15	7 ^h 15 ^m 59.335 ^s 24°23'13.850"	41.9	258	162.5	-28.9	26.6	20.5	99.4	43
2018/12/22 02:50:05	1185 Nikko	12.6	16.22	2.59	59	0.9	36°08'41" 49°31'23"	190	4.4	UCAC4 495-56809	13.73	11 ^h 43 ^m 59.601 ^s 8°53'42.722"	48.7	170	97.1	-24.3	91.7	16.2	99.4	93
2018/12/22 14:21:15	1124 Stroobantia	24.6	16.27	2.87	185	1.2	38°19'09" 49°01'48"	128	3.2	UCAC4 432-118135	13.48	23 ^h 37 ^m 50.518 ^s -3°47'44.332"	35.4	166	83.0	-7.1	95.0	6.4	99.9	172
2018/12/22 18:25:24	2431 Skovoroda	9.5	17.76	6.53	220	0.7	37°21'44" 48°11'57"	160	0.7	TYC 1926-1417-1	11.24	7 ^h 59 ^m 18.305 ^s 23°15'05.018"	26.5	85	153.3	-45.2	26.8	43.2	100.0	127

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.				Table 1		Page 11		LinOccult 2.3.1			
			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}	
2018/12/22 18:46:35	2498 Tseesevich	14.5	15.99	3.34	60	1.1	36°30'14" 49°31'38"	165	4.4	UCAC4 575-29112	12.70	6 ^h 28 ^m 30.245 ^s 24°48'53.020"	45.5	106	173.9	-48.4	6.6	46.3	100.0	115	
2018/12/22 22:46:57	717 Wisibada	31.0	15.07	2.74	14	2.5	36°12'08" 49°56'16"	206	11.8	UCAC4 578-31071	12.42	6 ^h 33 ^m 17.864 ^s 25°32'16.196"	64.3	203	172.9	-59.8	5.9	58.9	99.9	104	
2018/12/22 22:56:32	1266 Tone	73.3	14.77	1.46	194	5.2	36°32'15" 51°46'49"	5	8.1	UCAC4 666-26891	13.64	4 ^h 37 ^m 46.603 ^s 43°01'55.156"	60.5	273	153.5	-58.9	29.9	58.2	99.9	139	
2018/12/23 01:25:36	28938 2000 SR311	12.0	16.59	2.81	189	0.8	35°54'46" 48°21'49"	188	1.2	UCAC4 560-26132	13.86	6 ^h 14 ^m 27.636 ^s 21°48'54.179"	38.5	258	177.1	-38.0	2.0	39.4	99.8	126	
2018/12/23 16:17:25	3730 Hurban	26.3	16.73	6.36	120	0.8	35°39'37" 51°02'59"	338	5.2	TYC 5231-527-1	10.38	22 ^h 12 ^m 38.418 ^s -6°02'43.329"	24.4	224	61.5	-24.7	131.5	14.6	98.7	136	
2018/12/23 16:19:04	5488 Kiyosato	19.1	15.55	2.13	69	1.3	36°32'34" 49°26'53"	165	4.5	UCAC4 558-22281	13.59	5 ^h 55 ^m 58.394 ^s 21°28'47.060"	25.3	86	176.9	-25.0	15.3	14.8	98.7	153	
2018/12/23 17:59:14	27667 1979 KJ	9.1	17.28	3.84	49	0.8	36°27'27" 49°37'23"	165	2.9	UCAC4 521-42332	13.47	7 ^h 38 ^m 33.089 ^s 14°07'49.995"	19.6	91	156.5	-41.0	10.6	30.1	98.6	114	
2018/12/23 19:13:16	4768 Hartley	36.7	16.98	3.56	187	3.6	34°52'54" 51°28'34"	328	4.7	UCAC4 576-45348	13.46	9 ^h 10 ^m 54.013 ^s 25°03'18.188"	24.7	80	138.3	-52.1	28.0	41.4	98.4	204	
2018/12/23 21:38:29	1372 Hare-mari	23.9	15.63	4.96	170	1.7	37°24'33" 51°24'02"	28	2.7	TYC 1184-1002-1	10.68	0 ^h 09 ^m 46.171 ^s 20°54'36.372"	15.4	284	98.6	-63.5	96.8	59.0	98.1	111	
2018/12/23 22:26:24	5520 Natori	12.0	18.18	4.93	66	0.9	35°42'56" 49°35'10"	218	2.7	UCAC4 422-54500	13.26	11 ^h 40 ^m 48.324 ^s -5°38'52.322"	8.3	109	93.9	-61.6	69.6	61.4	97.9	166	
2018/12/24 02:18:16	34119 2000 PY27	10.5	16.52	2.85	6	0.7	36°16'57" 50°06'11"	357	3.9	UCAC4 509-41972	13.76	7 ^h 44 ^m 29.548 ^s 11°47'24.405"	35.8	242	154.4	-29.6	10.2	40.9	97.4	108	
2018/12/24 20:18/12/24 04:13:52	2308 Schilt	17.6	16.72	4.26	257	2.7	33°01'32" 51°03'57"	296	0.5	UCAC4 608-46982	12.49	10 ^h 10 ^m 50.718 ^s 31°27'57.370"	55.4	253	126.4	-11.5	36.4	23.1	97.1	115	
2018/12/24 18:02:42	1110 Jaroslawa	17.4	15.19	3.74	71	1.4	36°37'52" 49°27'06"	160	5.3	TYC 790-473-1	11.49	7 ^h 41 ^m 08.265 ^s 14°52'49.612"	20.9	92	157.2	-41.5	8.9	20.2	94.3	103	
2018/12/24 18:27:27	3649 Guillermina	12.6	16.62	4.44	117	0.9	35°53'08" 51°03'56"	346	2.6	UCAC4 548-31441	12.20	6 ^h 40 ^m 14.546 ^s 19°24'32.412"	37.9	106	172.2	-45.3	21.5	24.0	94.2	125	
2018/12/24 19:45:50	3062 Wren	25.0	16.02	2.93	121	1.2	37°08'45" 49°06'34"	150	4.9	UCAC4 394-336	13.16	0 ^h 15 ^m 54.520 ^s -11°14'50.406"	8.4	241	86.5	-56.2	121.6	36.0	93.9	137	
2018/12/24 21:56:02	1603 Neva	36.0	14.59	1.14	82	3.2	35°54'27" 49°21'07"	199	10.5	UCAC4 530-37476	13.92	7 ^h 02 ^m 48.681 ^s 15°58'27.488"	55.7	168	166.0	-63.2	19.0	53.5	93.3	91	
2018/12/25 02:07:18	27158 1998 YZ29	8.7	17.19	7.89	141	0.8	34°59'13" 49°05'57"	221	1.5	UCAC4 580-12160	9.30	4 ^h 36 ^m 42.263 ^s 25°55'11.514"	18.1	289	158.0	-31.4	54.2	49.7	92.2	122	
2018/12/25 04:17:55	95 Arethusa	136.0	12.13	0.85	244	11.4	35°22'11" 47°56'38"	196	4.2	UCAC4 498-41648	11.95	7 ^h 12 ^m 50.288 ^s 9°32'03.675"	9.7	273	160.2	-10.9	22.8	30.8	91.6	102	
2018/12/25 04:38:41	18153 2000 OC61	10.5	18.08	4.84	103	0.8	35°20'01" 49°21'24"	222	2.2	UCAC4 607-42584	13.25	8 ^h 26 ^m 22.488 ^s 31°20'55.617"	34.0	280	149.5	-7.9	12.3	27.5	91.5	150	
2018/12/25 05:13:39	29200 1991 FX2	8.3	16.25	5.74	95	0.9	35°06'08" 49°40'32"	244	2.1	UCAC4 670-34679	10.51	5 ^h 10 ^m 12.906 ^s 43°48'04.864"	13.1	326	155.7	-3.1	49.9	22.1	91.3	103	

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 12		LinOccult 2.3.1			
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}
2018/12/25 15:38:55	3191 Svanetia	11.5	17.58	5.61	161	1.3	37°46'40" 48°58'16"	138	1.7	UCAC4 483-1680	11.97	1 ^h 08 ^m 08.986 ^s 6°26'15.050"	45.5	163	104.6	-18.5	115.6	-9.7	88.2	139
2018/12/25 16:42:58	47 Aglaja	127.0	13.17	0.79	24	3.7	36°04'47" 50°13'21"	323	32.1	UCAC4 397-130909	13.09	22 ^h 24 ^m 31.049 ^s -10°44'28.970"	17.7	227	60.4	-28.6	160.4	-1.9	87.9	152
2018/12/25 16:59:39	2352 Kurchatov	16.6	17.08	3.76	112	0.5	35°57'08" 51°02'00"	348	3.2	UCAC4 461-129304	13.35	22 ^h 26 ^m 49.272 ^s 2°06'51.975"	27.0	237	66.1	-31.3	152.4	0.3	87.8	159
2018/12/25 18:02:07	4782 Gembloux	12.0	17.54	5.08	191	0.5	37°23'52" 48°29'48"	155	1.4	UCAC4 438-124421	12.47	23 ^h 29 ^m 53.884 ^s -2°26'32.767"	23.2	234	78.5	-41.3	143.0	9.1	87.5	145
2018/12/25 20:02:17	3432 Kobuchizawa	13.8	17.63	3.70	195	0.8	36°47'48" 48°19'36"	169	1.7	UCAC4 651-43463	13.97	6 ^h 56 ^m 25.411 ^s 40°07'53.225"	65.0	101	161.1	-58.0	37.9	27.3	86.8	163
2018/12/25 20:34:13	6463 Isoda	15.1	14.87	3.20	200	1.2	34°59'31" 51°39'06"	333	0.5	UCAC4 587-30496	11.73	6 ^h 30 ^m 02.574 ^s 27°16'57.485"	63.5	142	175.0	-61.1	40.1	32.1	86.6	86
2018/12/25 20:54:44	539 Pamina	54.0	13.48	3.58	275	6.6	34°53'38" 52°21'35"	339	7.0	UCAC4 575-11885	9.94	4 ^h 40 ^m 21.718 ^s 24°50'10.538"	62.7	209	158.1	-62.4	65.0	35.2	86.4	82
2018/12/26 01:31:12	2879 Shimizu	28.2	15.57	2.65	239	2.4	35°11'13" 48°01'18"	199	1.2	UCAC4 498-27392	13.01	6 ^h 25 ^m 52.156 ^s 9°33'56.028"	28.2	250	166.1	-37.3	45.7	55.9	84.8	117
2018/12/26 04:49:54	1698 Christophe	25.0	17.03	4.57	202	0.8	34°39'57" 48°34'03"	215	2.8	UCAC4 398-56183	12.48	13 ^h 46 ^m 02.245 ^s -10°31'27.896"	29.5	176	65.7	-6.4	66.5	32.6	83.7	164
2018/12/26 15:47:52	17168 NP3	8.3	16.50	2.73	95	0.9	37°20'05" 49°31'51"	127	2.1	UCAC4 548-10458	13.86	4 ^h 41 ^m 19.230 ^s 19°24'19.705"	32.7	99	156.8	-19.8	77.2	-17.9	79.5	89
2018/12/26 20:43:46	22106 Tomokoarai	8.7	15.53	4.01	153	0.7	38°25'04" 49°59'31"	92	0.4	UCAC4 389-29639	11.54	7 ^h 30 ^m 09.251 ^s -12°17'54.654"	22.5	148	140.5	-61.7	49.2	22.0	77.4	69
2018/12/26 20:52:24	6522 Aci	8.3	17.30	3.46	235	0.5	34°41'40" 51°54'18"	331	0.3	UCAC4 654-23797	13.89	4 ^h 46 ^m 35.835 ^s 40°43'14.742"	77.2	229	153.6	-62.2	75.9	23.3	77.4	108
2018/12/26 21:09:02	465 Alekto	73.3	16.08	3.73	7	13.6	36°18'35" 49°59'24"	166	17.0	UCAC4 516-1945	12.39	1 ^h 10 ^m 43.417 ^s 13°06'24.085"	22.1	264	106.5	-63.0	129.7	25.8	77.4	170
2018/12/26 23:50:48	336 Lacadiera	69.3	13.55	0.56	89	12.7	35°56'58" 50°48'48"	344	18.9	UCAC4 494-52062	13.97	9 ^h 02 ^m 40.817 ^s 8°42'33.691"	48.6	171	138.8	-52.5	20.9	47.2	76.2	83
2018/12/27 00:12:09	1652 Herge	11.5	16.03	2.20	12	1.1	36°12'45" 50°08'31"	333	5.1	UCAC4 558-11203	13.98	4 ^h 44 ^m 50.488 ^s 21°30'39.723"	33.2	264	157.6	-49.5	81.1	49.1	76.0	89
2018/12/27 01:46:41	10945 GS9	9.1	17.13	5.02	101	0.7	35°26'27" 49°19'23"	217	2.1	UCAC4 547-16732	12.12	5 ^h 35 ^m 52.701 ^s 19°23'22.995"	24.6	271	168.6	-34.8	70.6	53.0	75.4	119
2018/12/27 05:24:43	10094 Ejikato	12.6	15.73	2.27	11	2.0	36°12'33" 50°07'58"	330	5.1	UCAC4 669-17936	13.60	3 ^h 25 ^m 57.443 ^s 43°44'23.205"	5.1	347	138.6	-1.7	94.4	32.5	73.7	98
2018/12/27 14:28:57	1815 Beethoven	30.4	17.94	4.57	137	0.7	34°23'45" 49°53'03"	262	3.6	UCAC4 340-187587	13.38	19 ^h 23 ^m 54.045 ^s -22°07'20.543"	1.3	232	13.8	-7.8	127.1	-29.5	69.9	308
2018/12/27 15:12:13	407 Arachne	95.1	13.88	1.04	127	3.8	35°42'53" 51°07'54"	341	18.0	UCAC4 468-140548	13.37	23 ^h 19 ^m 04.956 ^s 3°33'31.821"	42.8	194	76.6	-14.1	165.4	-28.4	69.6	131
2018/12/27 16:51:10	1206 Numerowia	16.6	17.15	3.99	207	0.9	35°44'53" 51°52'32"	349	1.7	UCAC4 505-148137	13.18	23 ^h 46 ^m 35.502 ^s 10°49'01.085"	44.4	221	85.8	-29.7	156.7	-21.2	68.9	153

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.		Table 1		Page 13		LinOccult 2.3.1				
		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}		
2018/12/27 18:37:23	2412 Wil	14.5	16.05	2.69	92	1.0	35°44'37" 50°47'41"	335	3.7	UCAC4 590-33954	13.45	6 ^h 35 ^m 50.443 ^s 27°51'16.982"	48.2	104	174.8	-46.5	66.4	-8.4	68.1	111
2018/12/27 20:08:16	5947 Bonnie	12.0	16.08	3.04	82	0.8	36°06'54" 49°19'02"	189	2.6	UCAC4 572-28832	13.10	6 ^h 25 ^m 52.762 ^s 24°23'41.281"	59.5	138	178.8	-58.5	69.6	4.8	67.4	165
2018/12/27 21:09:00	1843 Jarmila	25.7	16.31	2.67	244	2.1	36°58'25" 47°54'02"	168	1.7	UCAC4 569-13560	13.73	5 ^h 00 ^m 21.551 ^s 23°39'13.554"	61.4	209	160.5	-63.0	89.7	14.1	66.9	142
2018/12/27 22:55:47	2678 Aavasaksa	10.5	15.19	2.99	176	1.9	35°30'34" 48°33'02"	198	0.3	UCAC4 571-10679	12.27	4 ^h 17 ^m 01.676 ^s 24°04'33.310"	42.2	257	150.6	-59.1	100.4	29.9	66.0	70
2018/12/27 23:27:37	5428 1987 RA1	9.5	16.78	3.89	115	0.7	35°50'04" 49°03'10"	196	2.0	UCAC4 567-24351	12.92	6 ^h 11 ^m 36.139 ^s 23°19'05.685"	53.8	234	176.8	-55.5	74.9	34.2	65.9	117
2018/12/27 23:58:35	95 Arethusa	136.0	12.09	1.56	50	11.1	36°11'10" 50°29'18"	352	44.7	UCAC4 498-40974	10.83	7 ^h 10 ^m 23.829 ^s 9°24'05.102"	44.7	215	162.5	-51.4	62.0	38.1	65.6	102
2018/12/28 01:08:22	34868 2001 TB136	8.7	17.63	4.97	158	0.7	36°28'11" 51°27'35"	5	1.2	UCAC4 523-44420	12.67	7 ^h 40 ^m 52.151 ^s 14°26'09.845"	44.8	231	160.3	-41.0	55.0	44.9	65.1	124
2018/12/28 14:47:53	481 Emita	116.0	13.67	2.05	176	4.7	34°13'29" 50°55'37"	304	14.0	UCAC4 407-139559	11.80	23 ^h 54 ^m 09.387 ^s -8°36'38.060"	31.4	176	78.8	-10.4	176.9	-34.5	58.8	123
2018/12/28 17:28:53	17019 Aldo	8.3	17.37	5.17	56	0.6	36°27'30" 49°33'27"	167	2.6	UCAC4 627-22976	12.21	5 ^h 19 ^m 57.373 ^s 35°13'49.190"	54.9	98	160.8	-35.7	95.2	-27.1	57.6	113
2018/12/28 17:33:35	16038 1999 GD18	11.5	16.30	2.43	35	1.1	36°09'40" 50°20'56"	345	4.1	UCAC4 621-23474	13.99	5 ^h 24 ^m 40.595 ^s 34°08'38.219"	54.2	99	162.2	-36.5	94.5	-26.6	57.6	106
2018/12/28 18:14:55	5778 Ju-rafrance	13.8	15.68	3.54	186	1.2	34°21'02" 51°11'01"	312	0.9	UCAC4 594-14867	12.19	5 ^h 00 ^m 14.265 ^s 28°39'28.156"	60.1	125	159.3	-43.0	101.0	-22.1	57.2	99
2018/12/29 01:03:05	10769 Minas Gerais	9.5	17.79	4.78	128	0.9	35°45'21" 48°57'15"	197	1.8	UCAC4 491-50205	13.02	8 ^h 22 ^m 25.142 ^s 8°08'14.837"	43.8	214	149.2	-41.9	58.4	35.1	54.1	132
2018/12/29 03:49:29	3916 Maeva	22.0	17.84	4.37	245	1.3	34°16'30" 48°17'14"	216	1.6	UCAC4 438-56306	13.49	12 ^h 36 ^m 32.649 ^s -2°34'51.109"	37.5	183	87.7	-15.4	6.5	42.8	52.8	152
2018/12/29 04:25:27	1439 Vogtia	47.9	15.65	2.35	170	3.6	34°38'26" 48°57'35"	224	6.8	UCAC4 588-39810	13.43	7 ^h 23 ^m 05.965 ^s 27°31'20.635"	21.1	288	167.5	-10.0	75.7	41.3	52.5	168
2018/12/29 18:18:56	43390 2000 WF62	10.0	18.68	6.58	170	0.9	33°54'08" 50°02'13"	270	1.4	UCAC4 420-3000	12.10	2 ^h 28 ^m 30.737 ^s -6°00'03.619"	33.1	194	113.5	-43.5	155.4	-31.7	46.2	176
2018/12/29 20:16:04	5040 Rabi-nowitz	8.7	17.48	3.80	113	0.7	35°46'04" 49°05'17"	199	1.9	UCAC4 395-38956	13.71	8 ^h 08 ^m 08.564 ^s -11°02'35.958"	18.2	135	138.7	-59.1	72.5	-16.8	45.3	109
2018/12/29 20:49:14	80076 1999 JO101	8.7	16.86	4.26	207	0.7	36°58'19" 51°51'19"	14	0.6	UCAC4 634-30317	12.62	6 ^h 03 ^m 09.830 ^s 36°38'10.439"	76.6	167	164.9	-61.8	101.5	-11.9	45.0	115
2018/12/29 20:52:44	2800 Ovidius	9.5	18.33	7.44	16	1.2	36°18'03" 49°54'16"	176	2.5	UCAC4 535-49637	10.89	9 ^h 25 ^m 32.621 ^s 16°57'22.548"	36.1	108	139.4	-62.0	55.3	-11.4	45.0	149
2018/12/29 21:47:44	7151 1971 SX3	11.0	15.63	4.98	172	1.3	36°07'34" 51°35'06"	356	0.5	TYC 165-1617-1	10.67	7 ^h 25 ^m 30.597 ^s 0°32'07.277"	40.0	167	154.1	-63.2	83.8	-3.0	44.5	78
2018/12/30 00:34:49	2161 Grissom	12.0	15.69	2.01	102	1.1	35°34'51" 49°15'02"	210	2.8	UCAC4 533-17407	13.87	5 ^h 44 ^m 06.808 ^s 16°30'30.767"	33.4	255	166.4	-46.2	110.2	21.5	43.3	124

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 14		LinOccult 2.3.1			
	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}
2018/12/30 01:23:11	34711 2001 OV97	9.1	16.91	4.35	75	0.7	35°42'54" 49°29'00"	213	2.6 3.3	UCAC4 548-18188	12.58	5 ^h 42 ^m 26.465 ^s 19°33'46.847"	27.7	268	167.3	-38.7	110.7	27.4	42.9	112
2018/12/30 02:04:20	7609 1995 WX3	10.0	16.69	4.57	78	1.0	37°03'40" 50°32'33"	45	2.9 3.7	UCAC4 650-23658	12.13	4 ^h 52 ^m 44.217 ^s 39°55'23.091"	27.9	300	152.6	-32.1	116.8	31.7	42.6	106
2018/12/30 02:29:15	18971 2000 QY177	15.1	19.19	6.17	168	1.4	37°34'51" 51°19'06"	33	1.9 2.3	UCAC4 423-57267	13.03	12 ^h 03 ^m 22.091 ^s −5°32'49.197"	34.1	169	95.1	-28.1	17.2	33.8	42.4	267
2018/12/30 03:05:11	5428 1987 RA1	9.5	16.85	3.97	44	0.7	36°03'21" 49°40'53"	202	3.0 3.3	UCAC4 567-23703	12.91	6 ^h 09 ^m 33.715 ^s 23°19'01.333"	18.5	285	174.1	-22.4	105.1	36.2	42.1	117
2018/12/30 04:08:22	16915 2000 Bredthauer	13.2	18.57	9.10	218	1.0	33°40'37" 49°04'09"	240	1.5 2.5	TYC 2372-1579-1	9.48	4 ^h 24 ^m 49.462 ^s 31°13'48.716"	2.2	320	150.0	-12.6	126.5	37.9	41.6	211
2018/12/30 04:38:33	18045 1999 RR100	11.0	16.42	3.40	14	0.8	36°08'45" 50°07'52"	313	3.7 3.7	UCAC4 566-34703	13.06	7 ^h 00 ^m 02.224 ^s 23°04'29.207"	11.7	292	174.4	-8.1	94.4	37.6	41.4	117
2018/12/30 04:39:02	6959 Mikkelkocha	12.0	16.78	3.49	80	1.0	35°23'18" 49°37'56"	235	3.2 4.0	UCAC4 665-36966	13.33	5 ^h 22 ^m 08.804 ^s 42°48'35.064"	14.8	321	155.1	-8.1	112.0	37.6	41.4	119
2018/12/30 15:38:58	3376 Armand-hammer	11.0	17.03	4.42	126	1.2	36°28'26" 48°55'24"	174	2.1 3.9	UCAC4 512-2138	12.62	1 ^h 24 ^m 38.451 ^s 12°15'06.433"	51.3	163	105.5	-17.9	171.6	-43.1	36.6	111
2018/12/30 17:24:36	378 Holmia	26.7	13.53	1.54	157	3.8	37°20'04" 48°48'28"	152	2.7 11.6	UCAC4 534-9338	12.29	4 ^h 38 ^m 01.126 ^s 16°47'52.794"	47.7	130	151.2	-34.8	135.2	-44.1	35.9	92
2018/12/30 23:17:43	31402 Negishi	9.5	16.87	4.08	216	0.6	36°25'55" 51°59'06"	3	0.5 3.6	UCAC4 614-38600	12.81	7 ^h 07 ^m 16.348 ^s 32°36'04.663"	68.2	225	168.6	-56.7	103.0	-0.4	33.4	107
2018/12/31 00:16:47	5632 In-gelehmann	13.2	16.17	2.34	83	0.9	37°03'12" 50°36'45"	41	3.6 4.7	UCAC4 598-29546	13.96	6 ^h 11 ^m 59.495 ^s 29°26'20.401"	49.5	258	171.2	-48.9	115.6	8.4	33.0	111
2018/12/31 00:27:50	48242 2001 PB1	9.1	16.91	8.58	237	1.0	35°19'37" 48°00'55"	197	0.0 5.0	TYC 2377-1392-1	8.33	4 ^h 38 ^m 44.792 ^s 32°39'54.592"	34.9	281	151.8	-47.3	134.0	10.0	32.8	73
2018/12/31 00:55:39	5070 Arai	15.1	16.29	2.71	106	1.3	35°35'05" 49°12'27"	208	3.1 3.9	UCAC4 607-17218	13.67	5 ^h 10 ^m 16.034 ^s 31°21'34.372"	34.6	279	158.6	-43.1	128.5	13.8	32.7	153
2018/12/31 01:09:20	3148 Grechko	51.5	16.08	2.99	73	4.7	36°39'39" 50°39'25"	22	15.7 20.4	UCAC4 566-38456	13.17	7 ^h 27 ^m 07.017 ^s 23°02'22.927"	48.2	245	169.0	-40.9	99.5	15.6	32.6	100
2018/12/31 03:30:14	23973 1999 CA4	10.0	17.46	3.53	225	0.7	38°46'48" 51°18'12"	52	0.7 3.1	UCAC4 636-28727	13.97	5 ^h 43 ^m 32.458 ^s 37°10'09.173"	20.6	304	161.4	-18.4	121.5	30.1	31.6	129
2018/12/31 04:55:46	1850 Ko-houtek	8.7	16.02	4.35	55	0.7	35°45'08" 49°41'49"	224	3.4 4.3	TYC 1888-470-1	11.69	6 ^h 38 ^m 25.783 ^s 26°28'27.657"	8.2	302	176.5	-5.7	112.6	33.0	31.0	81
2018/12/31 20:37:41	2728 Yatskiv	15.5	16.78	8.35	99	1.6	36°19'58" 50°56'09"	2	1.1 14.0	TYC 1275-1275-1	8.43	4 ^h 41 ^m 57.598 ^s 18°50'02.580"	56.7	207	151.5	-60.8	148.8	-34.8	24.9	44
2018/12/31 23:38:02	1861 Komen-sky	15.1	16.45	4.68	22	1.1	36°06'04" 49°53'21"	217	4.8 4.8	UCAC4 634-40527	11.78	7 ^h 33 ^m 31.565 ^s 36°42'53.028"	71.7	231	162.5	-54.3	110.4	-8.0	23.8	125

