

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 2.2.0 BETA
Author: Plekhanov Andrey andyplekhanov@gmail.com
Events number: 156

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 1		LinOccult 2.2.0 BETA				
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}	
2017/11/01 04:22:40	3127 Bagra- tion	31.0	18.38	6.85	177	0.7	35°07'14" 48°39'02"	208	3.5	UCAC2 29281464	11.53	12 ^h 31 ^m 13.688 ^s −7°08'51.663"	20.8	131	28.9	−0.9	166.7	−34.0	88.2	291	
2017/11/01 17:02:24	7605 Cindy- graber	18.2	17.06	7.12	232	2.8	35°10'01" 52°00'26"	340	1.9	TYC 52901092	9.94	21 ^h 27 ^m 13.241 ^s 1°40'59.606"	40.9	195	104.9	−27.9	44.8	31.6	91.6	244	
2017/11/01 17:07:03	6916 Lewis- pearce	15.1	16.66	2.78	249	1.0	33°24'59" 51°20'55"	305	1.3	UCAC2 45448102	13.97	1°52 ^m 50.428 ^s 39°16'11.166"	51.1	85	154.1	−28.6	45.0	32.1	91.6	190	
2017/11/01 17:59:20	2254 Requiem	11.5	16.41	2.63	157	1.6	34°46'21" 51°04'46"	317	1.7	UCAC2 41531951	13.88	7 ^h 35 ^m 33.887 ^s 27°55'47.792"	1.1	45	108.1	−36.7	105.1	36.5	91.9	135	
2017/11/01 18:13:52	2183 Neufang	37.5	16.93	3.83	258	7.1	34°20'02" 52°00'36"	327	3.4	UCAC2 38946417	13.13	6 ^h 28 ^m 13.932 ^s 20°27'07.675"	5.8	65	122.6	−38.8	90.3	37.5	91.8	213	
2017/11/01 20:15:39	1294 Antwer- pia	34.7	14.55	6.11	2	5.5	36°16'30" 50°01'60"	207	21.4	TYC 189600996	8.44	7 ^h 07 ^m 17.953 ^s 22°30'30.874"	20.0	78	113.9	−52.6	97.9	38.5	92.4	64	
2017/11/01 22:50:44	59890 1999 RG133	7.9	17.67	7.20	99	0.6	35°50'36" 50°53'22"	341	1.4	TYC 121701392	10.48	2 ^h 17 ^m 15.403 ^s 17°32'19.531"	51.5	222	176.0	−50.0	29.8	24.2	93.1	196	
2017/11/02 01:48:57	34972 5039 T- 2	5.8	18.81	7.55	186	0.6	34°46'22" 48°41'58"	216	0.7	UCAC2 45626144	11.26	4 ^h 27 ^m 02.910 ^s 39°43'38.745"	61.4	264	144.0	−25.4	63.6	−1.8	93.7	204	
2017/11/02 03:08:01	193306 2000 SD285	6.9	18.91	7.53	170	0.6	38°29'33" 50°38'12"	67	0.9	UCAC2 35922003	11.38	7 ^h 37 ^m 16.881 ^s 11°39'53.579"	50.9	196	105.3	−12.7	101.7	−13.7	94.0	254	
2017/11/02 04:24:58	113 Amalthea	46.1	13.33	0.94	248	0.9	36°28'16" 52°16'14"	3	4.5	UCAC2 30202757	12.99	13 ^h 17 ^m 39.548 ^s −4°39'33.631"	17.7	121	20.3	−0.8	172.6	−24.2	94.3	234	
2017/11/02 17:02:57	480 Hansa	56.2	14.05	1.02	277	1.5	35°10'04" 47°40'24"	197	4.9	UCAC2 27873040	13.57	17 ^h 37 ^m 37.175 ^s −11°19'44.551"	3.9	247	45.4	−28.2	115.6	30.0	96.7	257	
2017/11/02 21:22:22	19858 2000 UT18	7.2	17.42	5.45	225	1.8	34°34'25" 48°21'50"	213	0.7	TYC 241301460	11.97	5 ^h 43 ^m 10.558 ^s 34°11'50.298"	52.8	97	132.9	−55.1	65.8	42.5	97.4	156	
2017/11/02 22:50:54	38057 1999 BO15	7.6	15.59	4.17	31	1.0	36°16'38" 49°46'01"	181	2.9	TYC 177700196	11.45	2 ^h 19 ^m 19.070 ^s 28°26'03.943"	60.6	233	166.1	−50.3	26.1	34.7	97.6	100	
2017/11/02 23:43:06	440 Theodora	15.8	15.81	2.62	69	0.6	35°46'18" 50°34'28"	328	3.8	UCAC2 36645975	13.29	9 ^h 44 ^m 02.808 ^s 13°33'18.770"	22.2	95	76.8	−44.3	119.9	28.2	97.7	150	
2017/11/03 01:24:26	4085 Weir	12.6	17.16	3.75	43	0.7	36°02'43" 50°23'53"	336	2.6	UCAC2 41366608	13.45	9 ^h 02 ^m 49.814 ^s 27°05'20.023"	54.5	117	90.3	−29.5	106.1	13.5	98.0	188	
2017/11/03 02:49:22	572 Rebekka	29.6	14.39	1.17	64	5.1	37°10'35" 49°57'58"	98	9.0	UCAC2 35172517	13.67	6 ^h 24 ^m 47.509 ^s 9°33'10.562"	44.7	216	123.2	−15.9	70.1	0.6	98.2	111	
2017/11/03 19:06:50	2579 Sparta- cus	6.9	16.67	4.73	195	0.7	34°31'06" 51°24'03"	320	0.6	TYC 182202130	11.96	4 ^h 03 ^m 22.740 ^s 27°48'41.460"	43.4	97	156.0	−46.4	31.2	42.5	99.6	115	
2017/11/03 21:50:51	2322 Kitt Peak	16.0	17.55	4.88	182	1.2	35°51'05" 51°39'37"	350	2.0	UCAC2 37534851	12.69	8 ^h 23 ^m 17.801 ^s 16°27'34.229"	19.9	88	97.2	−54.7	86.8	48.4	99.7	148	
2017/11/03 22:00:48	6497 Ya- masaki	5.2	17.98	6.86	9	0.9	36°21'01" 49°58'33"	150	1.6	TYC 136401758	11.12	7 ^h 29 ^m 53.387 ^s 18°26'37.201"	31.6	99	110.1	−54.3	73.7	47.9	99.7	132	
2017/11/04 17:22:23	54476 2000 OK16	7.2	17.13	5.63	108	0.7	37°24'46" 49°24'15"	132	1.4	UCAC2 44786246	11.50	3 ^h 07 ^m 38.507 ^s 37°05'35.942"	42.2	79	157.4	−31.8	24.5	24.4	99.5	160	

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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}
2017/11/04 19:24:15	29562 Dan-macdonald	7.2	18.57	7.68	122	1.5	35°48'51" 48°59'58"	196	1.2	TYC	10.89	6 ^h 27 ^m 54.281 ^s 9°53'05.482"	10.5	87	124.2	-48.7	46.6	42.0	99.3	197
2017/11/04 20:02:25	44461 1998 VH17	5.0	19.35	7.89	151	1.0	35°11'36" 48°53'47"	211	0.8	UCAC2	11.46	6 ^h 38 ^m 58.782 ^s 14°12'21.172"	18.2	89	122.4	-52.5	48.4	46.5	99.3	197
2017/11/04 23:34:56	16086 1999 TF90	6.9	18.24	6.18	8	0.6	36°12'50" 49°59'55"	224	1.5	TYC	12.06	3 ^h 57 ^m 26.342 ^s 18°28'46.748"	56.4	206	161.3	-45.9	8.6	49.4	99.0	189
2017/11/04 23:36:09	544 Jetta	24.6	14.05	1.81	193	2.0	36°28'17" 48°19'14"	176	2.8	UCAC2	12.46	3 ^h 20 ^m 44.248 ^s 30°38'11.765"	63.5	233	162.3	-45.7	17.1	49.3	99.0	145
2017/11/05 02:24:37	26999 1998 BQ41	6.9	18.18	6.31	22	1.3	36°09'21" 50°13'35"	335	1.5	TYC	11.87	5 ^h 51 ^m 06.982 ^s 6°42'08.037"	40.4	219	132.6	-20.4	34.2	27.9	98.7	182
2017/11/05 03:41:42	14465 1993 NB	9.1	17.94	6.22	57	0.9	36°26'22" 50°33'08"	11	1.2	UCAC2	11.72	8 ^h 32 ^m 39.273 ^s 12°02'34.207"	51.6	193	95.2	-8.1	71.5	16.1	98.6	300
2017/11/05 16:57:32	21530 De-spiau	7.6	17.51	8.68	184	0.7	34°10'51" 51°01'17"	306	0.5	HIP	8.83	3 ^h 53 ^m 32.512 ^s 35°03'35.986"	30.5	70	155.0	-28.1	19.4	14.2	96.7	96
2017/11/05 22:53:34	14120 Espe-nak	6.3	17.48	5.56	103	0.8	36°00'28" 49°08'30"	191	1.4	UCAC2	11.92	7 ^h 31 ^m 01.713 ^s 16°05'43.779"	39.0	114	111.5	-50.9	44.1	57.0	95.5	128
2017/11/06 01:14:35	17445 Avatcha	10.0	17.02	4.31	86	1.7	35°42'30" 49°22'30"	209	2.1	UCAC2	12.73	5 ^h 35 ^m 34.556 ^s 42°23'02.480"	76.4	242	134.9	-31.8	28.7	48.2	95.0	167
2017/11/06 02:29:13	5296 Friedrich	12.0	18.03	5.36	213	2.0	36°31'29" 51°57'08"	5	1.4	UCAC2	12.68	7 ^h 54 ^m 35.910 ^s 20°49'46.794"	61.0	181	107.0	-19.8	47.0	38.3	94.8	227
2017/11/06 03:08:33	26619 2000 GP44	6.0	17.85	7.62	109	0.5	36°07'18" 49°04'15"	186	1.2	TYC	10.23	3 ^h 50 ^m 49.392 ^s 16°52'51.768"	24.9	267	164.1	-13.5	11.1	32.6	94.6	156
2017/11/06 20:07:07	35451 1998 CW4	5.0	16.83	4.53	13	0.7	36°15'13" 50°09'31"	349	1.6	TYC	12.32	1 ^h 23 ^m 58.659 ^s 32°44'41.885"	72.8	189	154.8	-53.4	54.4	36.0	90.2	122
2017/11/06 21:34:32	55060 2001 QM73	19.1	19.18	9.38	158	0.7	37°11'17" 48°45'12"	156	1.6	TYC	9.80	11 ^h 05 ^m 33.929 ^s 24°37'20.994"	1.4	52	67.9	-56.1	78.0	48.4	89.7	436
2017/11/07 00:33:13	20041 1992 YH	7.6	16.61	4.76	59	1.3	35°27'32" 50°04'02"	272	2.2	UCAC2	11.87	6 ^h 36 ^m 38.259 ^s 25°31'58.888"	64.9	163	126.2	-38.3	16.3	58.6	88.9	119
2017/11/07 04:21:51	22177 Sao-tome	11.5	18.04	5.98	62	1.1	37°09'12" 50°07'07"	83	2.0	UCAC2	12.07	6 ^h 08 ^m 26.009 ^s 28°50'09.673"	43.1	265	132.6	-2.4	11.3	32.1	87.6	223
2017/11/07 21:22:32	359 Georgia	43.9	12.91	0.65	139	5.8	36°19'40" 48°47'59"	179	7.6	UCAC2	13.12	5 ^h 14 ^m 08.726 ^s 31°59'58.900"	59.0	112	144.2	-56.6	20.3	39.0	81.6	134
2017/11/07 22:08:18	33783 1999 RD183	5.5	19.80	8.30	137	2.9	36°13'03" 48°48'48"	182	0.8	TYC	11.50	7 ^h 01 ^m 33.051 ^s 23°59'51.484"	43.8	105	121.4	-55.1	9.0	45.5	81.5	232
2017/11/07 23:05:52	12214 Mirosh-nikov	14.5	17.58	3.85	221	1.7	38°10'40" 48°29'27"	142	1.6	UCAC2	13.76	6 ^h 02 ^m 50.234 ^s 21°50'27.451"	57.7	143	134.8	-50.1	6.9	52.8	80.9	227
2017/11/07 23:24:14	6984 Lewis-carroll	24.0	16.32	3.37	219	2.3	34°00'33" 48°45'21"	229	2.7	UCAC2	13.00	7 ^h 27 ^m 04.841 ^s 2°57'34.021"	33.6	134	111.2	-48.0	21.5	54.7	80.7	221
2017/11/08 01:31:48	38489 1999 TB116	5.2	19.66	9.51	188	1.0	33°48'29" 49°29'54"	251	0.7	TYC	10.15	7 ^h 28 ^m 48.083 ^s 11°54'43.363"	51.8	171	113.2	-29.5	14.6	59.4	79.9	224

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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}	
2017/11/08 02:50:24	2979 Mur-mansk	30.0	16.59	5.11	52	2.6	36°29'34" 49°35'58"	164	6.2	UCAC2 32482213	11.49	3 ^h 46 ^m 41.653 ^s 2°20'03.877"	14.8	256	160.6	-16.9	46.0	53.5	79.4	185	
2017/11/08 04:05:55	2646 Abetti	22.4	16.80	2.99	73	1.9	36°11'33" 49°23'39"	185	3.3	UCAC2 41538431	13.89	8 ^h 51 ^m 39.570 ^s 27°46'38.183"	66.0	208	97.9	-5.1	30.2	43.9	79.0	258	
2017/11/08 16:03:30	368 Haidea	69.6	15.08	1.80	152	2.2	37°03'39" 48°46'51"	159	10.2	UCAC2 26564774	13.51	19 ^h 31 ^m 20.287 ^s -14°33'43.487"	19.5	213	66.2	-20.0	173.6	-13.4	74.0	206	
2017/11/08 18:02:04	77862 2001 RG143	5.0	19.38	7.08	112	1.5	37°21'17" 50°47'17"	43	0.8	TYC 57100203	12.30	22 ^h 49 ^m 08.946 ^s 3°24'09.272"	42.3	197	118.2	-38.7	123.8	-0.1	73.1	225	
2017/11/08 18:28:45	55133 2001 QL182	5.0	18.60	6.37	201	1.0	35°24'37" 51°46'06"	342	0.6	TYC 132600828	12.23	6 ^h 08 ^m 25.276 ^s 21°53'09.726"	16.3	75	134.3	-42.6	16.9	3.5	73.1	167	
2017/11/08 21:55:02	24310 1999 YT9	6.6	17.35	6.40	201	1.1	35°23'13" 48°20'26"	199	0.7	TYC 186602003	10.95	5 ^h 45 ^m 32.503 ^s 25°25'58.396"	54.8	122	139.7	-56.0	24.7	34.5	71.6	137	
2017/11/09 22:19:18	3869 Norton	10.0	16.53	4.24	161	1.4	37°10'00" 48°43'21"	157	1.4	UCAC2 39981093	12.31	5 ^h 36 ^m 16.818 ^s 23°05'21.273"	57.5	137	142.9	-54.9	41.0	28.1	60.5	132	
2017/11/09 22:22:37	28938 2000 SR311	12.6	16.92	5.17	10	1.3	36°08'54" 50°04'20"	286	2.7	UCAC2 39951346	11.76	23 ^h 03 ^m 37.227 ^s 22°51'41.913"	26.6	275	124.5	-54.7	124.8	28.6	60.4	188	
2017/11/10 15:41:03	9790 1995 OK8	21.9	18.95	7.11	154	0.6	35°13'58" 48°50'26"	209	1.7	UCAC2 23910362	11.84	17 ^h 13 ^m 48.727 ^s -20°10'24.957"	0.5	237	31.1	-16.8	123.6	-24.2	52.4	493	
2017/11/10 16:19:08	5917 Chibasai	11.5	16.02	3.18	242	1.0	39°25'56" 49°17'06"	111	1.1	UCAC2 43917829	12.90	3 ^h 45 ^m 36.952 ^s 34°41'54.435"	28.6	69	160.1	-22.9	74.5	-23.4	52.1	213	
2017/11/10 16:52:00	50989 2000 GG94	5.0	19.61	9.83	42	0.6	36°49'30" 49°53'22"	115	0.8	TYC 639300344	9.78	22 ^h 49 ^m 29.371 ^s -22°23'19.627"	17.6	177	106.4	-28.2	156.5	-22.0	51.9	243	
2017/11/10 20:19:31	1265 Schweikarda	19.1	16.08	4.39	204	11.0	38°43'03" 49°06'40"	121	2.2	TYC 245200122	11.71	7 ^h 25 ^m 05.156 ^s 30°35'39.417"	29.1	76	119.6	-55.4	31.2	-0.2	50.1	181	
2017/11/10 21:26:09	1729 Beryl	11.0	16.54	2.83	12	8.7	36°20'16" 50°08'60"	18	3.1	UCAC2 41008864	13.79	6 ^h 59 ^m 18.203 ^s 26°04'17.611"	40.8	97	125.0	-57.4	35.2	9.5	50.1	141	
2017/11/11 01:12:12	687 Tinette	15.1	14.36	1.82	180	5.8	35°14'09" 48°34'47"	205	0.8	TYC 173702633	12.76	0 ^h 24 ^m 22.206 ^s 28°05'46.616"	16.0	295	141.7	-33.3	120.8	42.8	47.7	88	
2017/11/11 02:31:40	388 Charybdis	114.2	13.49	3.51	132	14.0	35°12'45" 49°05'11"	216	19.6	TYC 240800547	10.02	5 ^h 37 ^m 33.602 ^s 32°08'20.554"	55.5	254	142.5	-20.6	57.0	51.2	47.4	172	
2017/11/11 14:59:07	2384 Schulhof	13.8	16.37	3.11	139	1.3	34°32'04" 50°36'17"	296	2.3	UCAC2 45793240	13.32	5 ^h 11 ^m 57.521 ^s 40°24'15.558"	12.0	39	144.6	-10.3	69.1	-25.3	41.8	171	
2017/11/12 00:09:43	42917 1999 SU1	7.9	16.31	5.37	175	0.9	37°04'15" 51°32'16"	19	1.0	TYC 176202709	10.95	1 ^h 47 ^m 11.727 ^s 28°10'53.230"	38.1	270	158.5	-42.9	117.3	23.8	37.7	127	
2017/11/12 21:36:08	1978 Patrice	8.7	15.17	6.24	109	1.6	36°21'48" 51°01'16"	3	0.9	TYC 62200248	8.94	1 ^h 44 ^m 49.813 ^s 8°26'01.453"	43.2	217	156.8	-57.8	138.5	-9.8	28.7	55	
2017/11/12 22:38:39	311 Claudia	24.1	15.55	2.02	168	1.3	35°20'12" 51°26'09"	336	3.3	UCAC2 37003023	13.72	9 ^h 57 ^m 28.426 ^s 14°57'56.365"	17.1	87	84.2	-54.2	20.1	-0.7	28.3	216	
2017/11/13 00:14:57	26675 2001 EZ	5.8	17.99	6.51	112	0.8	35°42'02" 50°58'43"	338	1.2	UCAC2 36997686	11.48	8 ^h 24 ^m 36.501 ^s 14°50'29.390"	45.6	130	105.7	-42.4	42.8	14.0	27.7	148	

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2017/11/13 00:37:42	86037 NN37	5.0	18.33	6.66	235	0.5	35°51'41" 47°57'16"	187	0.4	TYC 289601611	11.67	5 ^h 15 ^m 14.926 ^s 38°18'53.778"	72.2	237	146.3	-39.1	86.0	17.5	27.5	153	
2017/11/13 03:19:57	2995 Taratuta	16.6	16.45	3.41	184	1.7	38°37'60" 50°44'35"	65	2.1	UCAC2 32527375	13.09	7 ^h 54 ^m 19.415 ^s 2°00'02.611"	39.2	206	109.3	-13.3	52.2	39.2	26.5	149	
2017/11/13 04:15:19	2659 Millis	26.5	16.25	4.03	114	5.5	36°48'38" 51°00'43"	19	4.6	UCAC2 39455879	12.25	6 ^h 07 ^m 35.664 ^s 21°37'17.236"	35.1	262	138.9	-4.8	77.8	43.9	26.1	192	
2017/11/13 22:55:26	23255 YD17	6.0	17.07	6.22	102	0.9	37°20'13" 49°25'49"	132	1.3	TYC 701900860	10.86	3 ^h 06 ^m 04.826 ^s -31°34'25.720"	5.1	203	130.1	-52.8	128.5	-8.6	19.4	142	
2017/11/14 00:05:30	1294 Antwerpia	34.7	14.33	2.35	40	10.2	35°43'25" 50°03'24"	271	11.3	TYC 189601257	12.11	7 ^h 11 ^m 23.490 ^s 23°17'28.432"	60.4	148	125.2	-44.0	73.6	2.0	19.0	115	
2017/11/14 01:05:35	191 Kolga	101.0	13.98	1.80	138	24.0	34°41'03" 49°22'16"	237	16.9	TYC 77801459	12.41	7 ^h 41 ^m 47.008 ^s 8°17'58.180"	47.7	166	115.1	-35.0	66.4	11.2	18.6	171	
2017/11/14 01:48:23	38577 XZ10	10.0	18.10	5.05	173	0.8	33°55'19" 49°43'51"	258	1.3	UCAC2 47184842	13.06	6 ^h 47 ^m 56.768 ^s 45°08'59.739"	79.0	249	128.8	-28.2	81.3	17.6	18.4	215	
2017/11/14 02:27:08	2264 Sabrina	27.5	15.76	3.28	236	2.5	35°24'49" 48°00'16"	195	2.7	UCAC2 39803640	12.54	5 ^h 13 ^m 05.493 ^s 22°57'34.636"	44.0	252	152.4	-22.0	102.2	23.1	18.2	190	
2017/11/14 16:29:54	36093 RA103	9.1	17.11	6.08	33	0.8	35°52'53" 50°10'51"	297	2.0	TYC 121700318	11.03	2 ^h 10 ^m 48.366 ^s 18°27'16.956"	36.4	105	163.7	-25.4	150.7	-33.2	13.8	175	
2017/11/14 19:37:00	11734 KM55	10.5	15.59	1.86	36	0.9	36°43'09" 49°52'53"	121	3.3	UCAC2 36941183	13.95	3 ^h 55 ^m 04.682 ^s 14°41'01.301"	45.3	130	170.8	-52.5	130.9	-39.4	12.9	120	
2017/11/14 20:58:02	3476 Dongguan	31.5	16.60	2.97	112	2.8	37°41'50" 49°37'12"	115	5.4	UCAC2 24748359	13.70	23 ^h 49 ^m 56.247 ^s -18°52'28.672"	9.5	225	116.3	-58.3	155.8	-33.4	12.6	196	
2017/11/15 01:35:39	5168 Jenner	10.0	16.69	4.89	3	0.8	36°18'35" 50°04'21"	31	2.9	UCAC2 46563138	11.81	9 ^h 19 ^m 19.418 ^s 42°52'45.132"	71.4	103	102.7	-30.5	66.0	5.4	11.3	139	
2017/11/15 03:54:34	657 Gunlod	42.5	15.86	6.37	114	1.7	37°19'08" 50°49'39"	40	7.5	TYC 83701184	9.49	10 ^h 19 ^m 59.381 ^s 7°57'04.243"	47.9	172	78.8	-8.4	41.5	24.9	10.7	186	
2017/11/15 16:32:29	3414 Cham-pollion	6.0	16.22	4.33	199	1.0	37°05'48" 48°20'38"	163	0.3	UCAC2 35866246	11.91	1 ^h 30 ^m 12.482 ^s 11°53'13.450"	38.2	122	151.9	-25.9	172.3	-32.2	7.7	93	
2017/11/15 18:05:32	1112 Polonia	35.8	15.73	3.62	245	1.3	34°07'34" 51°46'51"	321	3.5	UCAC2 25664991	12.15	20 ^h 18 ^m 07.716 ^s -16°49'51.513"	5.9	235	69.6	-40.6	100.3	-41.8	7.3	235	
2017/11/15 18:05:32	1112 Polonia	35.8	15.73	3.41	245	1.3	34°07'34" 51°46'51"	321	3.5	TYC 632800128	12.37	20 ^h 18 ^m 07.716 ^s -16°49'51.513"	5.9	235	69.6	-40.6	100.3	-41.8	7.3	235	
2017/11/15 20:38:32	17009 CM70	6.0	18.11	6.44	158	0.8	35°03'31" 51°13'60"	326	0.9	UCAC2 34576521	11.67	0 ^h 59 ^m 26.908 ^s 8°23'04.660"	43.2	217	143.4	-57.8	170.6	-42.8	6.7	157	
2017/11/16 02:26:35	188 Menippe	38.6	13.14	0.98	97	2.9	36°08'59" 49°11'00"	186	8.6	UCAC2 39261708	12.72	4 ^h 01 ^m 59.198 ^s 21°06'54.707"	30.2	267	171.0	-22.5	143.8	3.0	5.6	142	
2017/11/16 15:28:18	32417 RK32	5.0	19.27	7.66	95	0.9	37°14'34" 50°38'41"	46	0.9	UCAC2 43257712	11.61	6 ^h 44 ^m 02.190 ^s 32°47'16.090"	1.2	35	134.0	-15.8	112.6	-19.9	3.5	196	
2017/11/16 16:13:06	17596 EP1	7.6	17.71	6.70	208	0.5	38°22'43" 48°45'58"	134	0.8	TYC 234900737	11.01	3 ^h 25 ^m 22.637 ^s 35°16'27.262"	34.8	75	163.5	-23.0	148.2	-26.7	3.3	173	

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 5		LinOccult 2.2.0 BETA			
		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}
2017/11/16 16:52:15	137605 1999 VK174	6.0	16.20	5.18	66	0.8	36°05'53" 50°37'39"	348	2.0	TYC	11.03	5 ^h 41 ^m 18.291 ^s 9°34'23.082"	1.0	76	146.4	-29.3	128.8	-32.4	3.3	95
2017/11/16 23:55:04	25853 2000 ES151	6.9	17.71	5.68	119	0.6	34°37'11" 50°02'09"	269	1.3	TYC	12.03	6 ^h 44 ^m 05.310 ^s -25°46'34.464"	13.8	171	114.8	-46.2	108.6	-29.8	2.3	165
2017/11/17 20:38:22	17573 1994 PJ13	6.6	18.50	5.91	228	0.6	35°02'22" 51°56'27"	337	0.7	TYC	12.60	22 ^h 45 ^m 51.567 ^s -8°26'25.198"	11.0	242	104.2	-58.2	111.3	-52.5	0.6	203
2017/11/17 22:05:55	17620 1995 WY	8.7	18.14	7.48	31	1.0	36°35'41" 49°51'09"	135	1.7	TYC	10.66	8 ^h 50 ^m 17.775 ^s 25°44'22.692"	33.6	89	107.4	-57.9	100.4	-50.4	0.5	196
2017/11/18 13:57:40	839 Valborg	20.4	15.29	2.17	108	0.7	37°31'59" 49°30'05"	124	3.8	UCAC2	13.28	20 ^h 55 ^m 40.189 ^s -17°41'20.988"	21.8	169	75.2	-2.3	74.2	2.6	0.2	175
2017/11/18 15:30:49	507 Laodica	43.8	15.35	2.50	98	1.2	36°31'31" 50°54'39"	10	5.7	UCAC2	12.96	18 ^h 54 ^m 41.007 ^s -22°31'50.895"	8.1	220	46.4	-16.5	44.8	-11.3	0.2	288
2017/11/18 15:52:03	492 Gismonda	51.7	15.12	3.41	208	1.9	38°20'02" 48°44'23"	135	6.0	UCAC2	11.75	20 ^h 54 ^m 46.313 ^s -18°58'17.533"	19.2	198	74.5	-19.9	72.8	-14.6	0.2	204
2017/11/19 18:36:39	152113 2004 RG207	5.0	19.11	7.40	17	0.5	36°03'34" 50°05'38"	288	0.7	UCAC2	11.71	0 ^h 19 ^m 43.982 ^s 24°59'16.927"	64.1	200	133.5	-45.8	118.8	-34.9	1.7	277
2017/11/19 19:37:31	4903 Ichikawa	10.0	16.80	6.68	11	1.5	36°16'57" 50°08'44"	359	2.4	TYC	10.13	1 ^h 48 ^m 01.988 ^s 7°55'22.646"	48.0	184	150.4	-53.6	135.9	-43.8	1.8	163
2017/11/19 20:38:22	9046 1991 PG17	6.3	18.00	7.77	209	0.8	35°06'21" 51°46'11"	336	0.6	TYC	10.23	6 ^h 32 ^m 08.943 ^s 35°31'32.590"	49.5	90	139.2	-58.6	150.6	-51.4	1.9	151
2017/11/20 00:58:01	54479 2000 OX23	5.2	18.95	7.80	226	0.6	37°32'18" 51°54'55"	23	0.5	TYC	11.15	6 ^h 14 ^m 05.646 ^s 18°46'32.077"	56.3	209	144.1	-37.5	161.5	-47.2	2.4	189
2017/11/20 02:15:15	4471 Graculus	12.6	15.87	2.17	99	1.5	37°19'14" 50°38'19"	48	2.9	UCAC2	13.86	5 ^h 24 ^m 08.438 ^s 45°02'25.112"	57.6	280	146.9	-25.1	152.6	-36.3	2.5	135
2017/11/20 20:11:13	56935 2000 RU41	5.8	18.29	6.47	225	0.5	34°35'32" 51°45'43"	328	0.6	TYC	11.82	2 ^h 20 ^m 14.437 ^s 24°03'40.644"	64.1	188	159.9	-57.0	134.5	-43.1	5.1	185
2017/11/20 21:38:55	295 Theresia	27.7	13.46	2.20	152	4.6	35°32'20" 51°19'32"	339	4.0	TYC	11.41	5 ^h 43 ^m 34.966 ^s 25°00'37.359"	58.7	133	152.2	-59.7	174.1	-54.1	5.4	114
2017/11/21 01:11:50	9022 Drake	8.3	17.88	7.52	253	0.9	33°11'33" 51°11'26"	300	0.7	TYC	10.36	7 ^h 12 ^m 44.767 ^s 9°16'18.233"	49.1	189	129.0	-35.5	156.8	-52.4	6.0	178
2017/11/21 02:20:12	4345 Rachmaninoff	10.0	18.01	6.06	123	0.5	36°43'23" 51°07'01"	15	1.6	UCAC2	11.95	10 ^h 16 ^m 48.315 ^s 10°25'28.036"	46.4	147	86.4	-24.5	115.0	-43.6	6.3	209
2017/11/21 23:17:53	31818 1999 RM135	12.6	17.65	4.92	249	3.2	36°59'17" 52°14'19"	12	1.2	UCAC2	12.74	23 ^h 53 ^m 10.417 ^s 20°20'20.696"	16.3	282	124.8	-52.1	88.0	-58.8	10.8	226
2017/11/22 00:39:41	102492 1999 TG265	7.9	17.83	7.02	136	0.6	36°33'12" 51°15'26"	8	1.3	TYC	10.81	2 ^h 06 ^m 11.727 ^s 27°23'52.237"	29.5	279	155.2	-40.7	118.6	-59.3	11.1	200
2017/11/22 01:17:51	208 Lacrimosa	41.3	12.83	1.52	13	3.4	36°16'57" 50°09'58"	359	10.9	TYC	11.62	3 ^h 31 ^m 29.660 ^s 21°15'05.799"	32.7	265	175.5	-34.7	136.7	-56.9	11.3	149
2017/11/22 02:27:34	88009 2000 UE54	5.0	19.12	8.94	224	0.5	34°58'17" 51°53'03"	335	0.5	TYC	10.18	9 ^h 06 ^m 30.626 ^s 24°58'58.799"	65.1	175	107.9	-23.6	145.7	-49.4	11.5	187

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 6		LinOccult 2.2.0 BETA				
		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}	
2017/11/22 03:11:16	22908 Bayefsky-Anand	5.2	17.81	5.97	217	0.8	35°56'45'' 51°58'55''	354	0.4	UCAC2 37686962	11.84	6 ^h 31 ^m 15.242 ^s 16°43'04.910''	39.6	246	141.8	-16.6	176.0	-43.5	11.7	127	
2017/11/22 04:41:28	4292 Aoba	24.6	17.02	4.03	116	2.8	37°11'39'' 50°54'51''	34	4.6	UCAC2 38434477	13.02	9 ^h 08 ^m 55.384 ^s 18°33'22.839''	50.3	229	105.7	-3.0	145.8	-29.8	12.1	170	
2017/11/22 14:12:39	13311 1998 RA68	10.0	16.53	2.88	56	2.0	35°43'35'' 50°24'13''	315	2.5	UCAC2 38551382	13.73	1 ^h 15 ^m 20.314 ^s 19°04'19.673''	28.8	94	143.1	-5.1	99.0	16.8	14.6	148	
2017/11/22 15:55:35	60383 2000 AR184	20.0	18.86	5.53	120	0.5	35°59'55'' 48°59'12''	190	1.6	UCAC2 25836695	13.34	18 ^h 16 ^m 32.990 ^s -16°16'57.172''	3.8	239	34.3	-20.9	12.6	7.4	15.1	476	
2017/11/22 16:18:22	1547 Nele	23.4	16.47	3.54	243	0.9	34°37'06'' 51°57'30''	331	2.3	UCAC2 27004921	12.98	20 ^h 21 ^m 55.032 ^s -13°40'49.059''	18.5	218	64.3	-24.6	18.7	4.7	15.2	245	
2017/11/22 18:09:48	5975 Otake-mayumi	12.0	15.71	2.61	18	1.6	36°21'50'' 49°53'24''	162	3.6	UCAC2 47631845	13.20	6 ^h 15 ^m 05.211 ^s 47°09'22.756''	37.9	59	140.5	-42.3	150.2	-10.4	15.7	133	
2017/11/22 19:21:54	4745 Nancy-marie	12.6	17.20	4.36	213	1.6	33°59'13'' 51°17'33''	310	1.4	UCAC2 37695206	12.86	6 ^h 52 ^m 52.259 ^s 16°41'31.697''	22.7	91	137.4	-52.2	174.1	-21.4	16.0	187	
2017/11/22 20:25:47	20915 4302 P-L	5.0	19.15	7.55	93	0.7	35°35'38'' 50°45'13''	328	0.9	UCAC2 38770610	11.60	6 ^h 36 ^m 51.782 ^s 19°58'33.408''	37.9	105	141.7	-58.5	170.7	-31.3	16.3	189	
2017/11/22 23:55:27	50812 2000 FC30	5.0	15.99	4.35	118	0.8	36°36'08'' 49°00'24''	169	0.9	TYC 6801063	11.66	3 ^h 48 ^m 14.794 ^s 4°45'01.836''	33.6	231	164.4	-47.4	125.4	-57.9	17.4	87	
2017/11/23 00:14:42	2704 Julian Loewe	9.1	16.16	4.49	70	3.8	35°20'31'' 50°12'43''	285	2.7	TYC 134600523	11.68	7 ^h 16 ^m 56.679 ^s 15°57'26.711''	55.7	168	131.8	-44.6	175.9	-58.9	17.6	109	
2017/11/23 00:44:54	1986 Plaut	49.5	15.27	1.60	160	5.0	36°03'25'' 48°36'59''	186	7.4	UCAC2 37482674	13.95	3 ^h 48 ^m 18.342 ^s 16°19'43.230''	36.2	251	175.9	-40.1	128.3	-59.7	17.7	149	
2017/11/23 03:12:17	13977 Frisch	11.0	16.11	3.74	151	0.9	36°42'24'' 48°43'11''	169	1.7	UCAC2 32318208	12.40	5 ^h 23 ^m 47.181 ^s 1°37'19.905''	16.7	252	151.3	-16.6	144.1	-49.4	18.4	127	
2017/11/23 03:51:16	21706 Rob-minehart	5.5	18.14	8.43	154	0.7	35°25'47'' 48°46'56''	204	0.9	TYC 186400131	9.71	6 ^h 00 ^m 32.236 ^s 23°15'54.603''	32.7	268	150.7	-10.6	158.3	-44.2	18.6	158	
2017/11/23 13:46:42	477 Italia	22.5	14.74	1.64	187	0.6	38°15'06'' 48°57'25''	131	2.9	UCAC2 21888427	13.37	19 ^h 50 ^m 04.578 ^s -24°31'55.291''	15.2	188	53.7	-1.5	5.6	20.8	21.7	188	
2017/11/23 16:12:24	1345 Potomac	71.8	14.76	1.63	67	5.6	36°06'12'' 50°38'05''	349	13.9	UCAC2 33871255	13.40	4 ^h 24 ^m 00.592 ^s 6°07'08.019''	8.7	91	164.3	-23.8	126.5	11.6	22.4	193	
2017/11/23 16:48:26	17170 Vse-vustinov	5.5	17.91	7.62	142	1.2	37°09'38'' 48°54'05''	154	0.9	TYC 189601665	10.29	7 ^h 10 ^m 11.591 ^s 22°50'38.290''	2.0	56	135.2	-29.6	168.0	7.6	22.6	132	
2017/11/23 17:49:37	4907 Zoser	21.9	16.92	3.53	81	3.0	36°28'45'' 49°19'59''	170	4.3	UCAC2 32644360	13.43	1 ^h 53 ^m 53.768 ^s 2°41'28.570''	39.3	151	145.1	-39.3	89.1	-0.0	23.0	183	
2017/11/23 17:52:29	62117 2000 RC102	7.9	17.74	6.09	203	0.8	39°05'39'' 50°19'54''	81	0.9	UCAC2 34036490	11.65	0 ^h 13 ^m 21.037 ^s 6°57'39.321''	47.0	186	124.3	-39.7	67.1	-0.4	23.1	203	
2017/11/24 02:52:42	303 Josephina	99.3	14.73	2.03	272	5.6	35°00'26'' 47°45'22''	200	8.6	UCAC2 35937384	12.88	10 ^h 39 ^m 05.804 ^s 11°48'31.153''	49.5	154	84.9	-19.9	145.9	-55.3	26.1	233	
2017/11/24 14:20:43	42367 2002 CQ134	20.9	19.07	5.90	48	0.7	36°11'49'' 49°37'15''	188	1.8	UCAC2 32782024	13.18	20 ^h 00 ^m 15.863 ^s 2°42'45.424''	41.1	200	63.1	-6.5	22.7	22.7	30.1	471	

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 7		LinOccult 2.2.0 BETA			
		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}
2017/11/24 20:03:11	1624 Rabe	28.0	16.12	2.98	89	3.7	35°50'40" 50°47'38"	339	5.6	UCAC2 39290361	13.21	6 ^h 30 ^m 45.013 ^s 21°13'56.247"	37.4	102	145.3	-57.0	145.7	-11.0	32.2	176
2017/11/24 20:35:49	1729 Beryl	11.0	16.22	3.27	15	1.9	36°12'39" 50°10'18"	339	3.3	UCAC2 41008048	13.01	6 ^h 55 ^m 14.249 ^s 26°29'16.339"	42.5	99	140.0	-59.5	150.3	-16.0	32.4	130
2017/11/24 22:30:32	21784 SO1	6.9	17.17	6.73	180	1.1	36°00'01" 48°26'41"	187	0.9	TYC 62801114	10.45	1 ^h 45 ^m 33.984 ^s 13°30'16.323"	34.6	248	146.7	-57.7	76.5	-33.6	33.2	148
2017/11/25 00:23:11	56 Melete	113.2	12.96	1.36	179	9.3	35°50'23" 51°37'40"	350	15.3	UCAC2 36250629	11.97	5 ^h 59 ^m 05.768 ^s 12°42'57.253"	50.5	206	151.0	-43.8	135.1	-48.8	33.9	163
2017/11/25 03:37:19	91937 VQ58	7.2	18.70	6.16	73	0.8	36°45'24" 49°28'14"	152	1.3	TYC 249301058	12.54	9 ^h 20 ^m 59.517 ^s 31°22'43.235"	68.6	216	109.3	-13.1	164.4	-53.4	35.1	211
2017/11/25 04:05:14	53382 J191	6.3	18.23	6.53	194	0.6	35°23'09" 51°41'26"	341	0.8	UCAC2 39846914	11.70	9 ^h 12 ^m 46.883 ^s 22°33'05.811"	57.0	223	108.9	-8.9	173.4	-51.0	35.3	165
2017/11/25 19:33:08	16782 XC19	6.9	18.31	8.11	229	1.8	35°54'52" 52°05'38"	353	0.7	TYC 136900237	10.20	7 ^h 37 ^m 43.955 ^s 19°28'17.278"	21.2	85	130.5	-54.0	149.7	2.3	41.2	179
2017/11/26 00:00:00	1734 Zhongolovich	28.5	17.35	5.11	31	2.2	36°02'13" 49°48'59"	215	4.2	UCAC2 33222364	12.25	10 ^h 10 ^m 21.627 ^s 4°11'42.751"	27.3	119	90.6	-47.4	169.6	-37.6	43.2	272
2017/11/26 00:00:00	1734 Zhongolovich	28.5	17.35	5.62	31	2.2	36°02'13" 49°48'59"	215	4.2	TYC 24801094	11.74	10 ^h 10 ^m 21.627 ^s 4°11'42.751"	27.3	119	90.6	-47.4	169.6	-37.6	43.2	272
2017/11/26 17:28:43	41488 Sindbad	11.0	17.39	3.56	38	0.9	36°00'11" 50°20'18"	328	2.0	UCAC2 34585272	13.87	4 ^h 25 ^m 47.270 ^s 8°08'41.208"	24.0	107	166.6	-36.3	91.1	24.4	50.3	217
2017/11/26 17:32:23	4580 Child	12.0	16.21	2.40	122	1.0	35°43'17" 51°05'05"	341	2.3	UCAC2 32315667	13.94	5 ^h 04 ^m 35.557 ^s 1°31'26.046"	13.4	104	156.4	-36.9	99.2	24.2	50.3	143
2017/11/26 20:22:45	9054 Hippocastanum	7.2	18.74	7.18	129	0.5	37°00'18" 51°06'31"	23	1.1	TYC 142301263	11.56	10 ^h 26 ^m 58.579 ^s 17°43'52.274"	2.0	64	92.6	-58.9	172.8	4.6	51.5	208
2017/11/26 22:05:03	16895 DQ9	10.5	16.63	4.63	163	1.0	35°43'43" 48°37'52"	194	1.5	UCAC2 40652695	12.01	5 ^h 49 ^m 36.829 ^s 25°23'59.441"	63.4	151	156.9	-59.9	110.7	-10.7	52.2	151
2017/11/27 02:09:05	18412 Kruselnicki	6.0	18.35	9.88	108	0.5	35°40'35" 49°09'34"	204	1.3	TYC 241101355	8.47	5 ^h 27 ^m 55.088 ^s 34°53'30.368"	49.3	269	158.2	-27.5	104.2	-44.3	54.0	112
2017/11/27 03:39:35	3443 Leetsungdao	7.9	18.28	6.81	75	1.1	35°51'50" 50°39'48"	336	1.6	UCAC2 33383526	11.47	7 ^h 45 ^m 53.345 ^s 4°41'26.236"	33.2	231	125.6	-13.2	134.3	-49.6	54.6	185
2017/11/27 14:13:40	1126 Otero	12.0	14.53	1.47	167	2.0	38°12'08" 49°12'34"	124	1.0	UCAC2 43940537	13.38	6 ^h 06 ^m 08.912 ^s 34°59'50.359"	3.8	35	151.7	-5.8	106.0	26.2	58.9	90
2017/11/28 00:30:07	105151 NQ22	5.5	18.22	6.37	132	0.5	36°25'29" 48°51'43"	176	0.9	UCAC2 44815329	11.86	6 ^h 13 ^m 42.005 ^s 37°04'04.590"	72.1	231	149.9	-43.3	102.1	-22.5	63.3	175
2017/11/28 02:22:07	1360 Tarka	29.8	16.37	4.71	134	3.1	37°54'50" 50°39'06"	60	4.9	UCAC2 44772867	11.68	0 ^h 50 ^m 07.629 ^s 37°16'07.607"	9.2	320	133.0	-25.6	46.5	-37.1	64.1	192
2017/11/28 14:14:18	7028 Tachikawa	9.1	17.18	6.67	184	1.3	35°31'28" 51°37'54"	343	1.2	TYC 63000273	10.52	2 ^h 04 ^m 23.346 ^s 8°00'17.604"	16.7	98	145.2	-6.0	33.3	25.2	68.9	160
2017/11/28 18:32:20	68922 LW12	7.9	18.46	6.65	243	0.6	38°44'32" 48°33'31"	133	0.8	UCAC2 37147411	11.81	6 ^h 21 ^m 04.342 ^s 15°12'05.466"	22.5	93	150.3	-46.2	93.7	34.6	70.7	216

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.		Table 1		Page 8		LinOccult 2.2.0 BETA				
	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}		
2017/11/28 18:32:37	16962 Eliza-woolard	5.0	17.21	7.30	147	0.7	35°41'06'' 51°18'51''	343	0.7	TYC 131901176	9.91	6 ^h 16 ^m 28.313 ^s 18°07'35.834''	25.4	92	152.1	-46.3	34.5	70.7	109	
2017/11/28 19:59:54	8918 1996 OR1	5.2	17.10	5.48	195	0.6	35°37'54'' 51°45'14''	346	0.4	UCAC2 43418486	11.63	5 ^h 48 ^m 37.749 ^s 33°12'02.454''	54.5	102	156.8	-57.3	86.6	71.3	107	
2017/11/28 22:05:18	13338 1998 SK119	9.5	16.08	4.08	111	1.0	36°32'18'' 51°01'53''	9	2.1	TYC 239700037	12.02	5 ^h 09 ^m 34.164 ^s 35°07'07.235''	75.3	174	162.3	-60.3	77.8	10.1	72.1	126
2017/11/28 22:43:21	32646 3010 P-L	6.6	19.31	7.39	145	0.6	35°24'49'' 48°52'47''	206	0.9	TYC 23600038	11.92	9 ^h 44 ^m 47.807 ^s 0°11'05.950''	18.3	113	98.1	-57.3	141.7	4.4	72.5	228
2017/11/28 23:14:14	18835 1999 NK56	10.5	16.69	3.45	207	0.8	36°43'56'' 48°12'49''	171	1.1	UCAC2 41144366	13.29	3 ^h 27 ^m 00.786 ^s 26°43'05.695''	51.1	249	166.9	-54.0	53.7	-0.4	72.6	158
2017/11/29 01:00:45	57276 2001 QP139	9.1	18.31	7.58	163	1.7	37°55'18'' 51°04'24''	46	1.3	UCAC2 37180872	10.73	9 ^h 21 ^m 33.831 ^s 15°00'03.470''	51.3	147	108.7	-38.8	133.3	-16.5	73.4	211
2017/11/29 01:04:33	11972 1994 VK	5.5	17.91	8.80	245	0.5	35°05'28'' 47°59'27''	200	0.4	TYC 178400337	9.11	3 ^h 18 ^m 49.494 ^s 23°49'08.565''	30.2	272	165.8	-38.2	49.8	-17.0	73.4	165
2017/11/29 19:38:50	1314 Paula	11.3	15.87	3.06	15	3.5	36°12'39'' 50°10'07''	338	4.4	TYC 138200795	12.88	8 ^h 23 ^m 28.216 ^s 17°08'49.149''	15.6	82	123.5	-55.1	108.5	37.9	80.6	102
2017/11/29 20:45:02	19196 1992 DQ7	5.2	18.84	8.93	100	0.5	36°32'55'' 49°10'02''	169	1.0	TYC 188300738	9.91	6 ^h 29 ^m 50.563 ^s 24°52'19.119''	49.8	113	150.8	-60.8	81.3	31.4	80.8	182
2017/11/29 21:27:14	1901 Moravia	27.0	16.58	2.86	11	1.6	36°13'11'' 49°57'40''	206	5.4	UCAC2 34402047	13.80	4 ^h 45 ^m 30.778 ^s 7°41'47.780''	47.7	174	165.1	-61.7	54.9	26.2	81.1	200
2017/11/29 21:42:45	22997 1999 VT70	6.6	18.38	6.50	50	0.5	36°44'10'' 49°42'13''	140	1.3	UCAC2 35168748	11.88	6 ^h 15 ^m 02.111 ^s 9°37'25.966''	45.6	147	150.7	-61.4	76.9	24.1	81.2	188
2017/11/29 23:40:26	4922 Leshin	6.6	15.94	4.84	201	0.7	36°56'16'' 48°17'25''	167	0.5	TYC 125100222	11.12	4 ^h 08 ^m 11.255 ^s 16°52'22.256''	44.9	237	174.1	-50.8	45.7	6.8	82.0	110
2017/11/30 01:17:25	3520 Klopsteg	6.9	17.00	6.02	147	1.0	35°38'06'' 48°47'54''	199	1.1	TYC 135300120	10.99	7 ^h 05 ^m 23.095 ^s 18°45'27.316''	55.6	212	142.1	-36.3	86.9	-7.9	82.5	118
2017/11/30 02:11:06	484 Pitts-burghia	31.6	13.76	1.76	83	2.7	36°26'16'' 49°18'21''	173	7.6	TYC 6600253	12.24	3 ^h 53 ^m 01.019 ^s 1°55'06.104''	7.9	263	158.9	-27.7	39.1	-15.6	82.8	138
2017/11/30 04:03:49	10710 1982 JE1	5.0	16.51	5.05	174	0.6	37°53'55'' 51°13'33''	41	0.3	UCAC2 40314731	11.47	5 ^h 44 ^m 03.650 ^s 24°13'39.651''	24.3	279	161.5	-10.0	66.5	-29.1	83.5	89
2017/11/30 15:16:52	8506 1991 CN	5.8	16.51	4.81	93	0.6	37°13'07'' 49°28'26''	134	1.5	UCAC2 42017821	11.71	4 ^h 51 ^m 39.286 ^s 29°10'53.031''	17.3	65	170.5	-15.5	49.8	28.7	87.2	102

