

## 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 2.2.0 BETA  
Author: Plekhanov Andrey andyplekhanov@gmail.com  
Events number: 74

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			$\sigma_{km}$				
	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 (%)
2019/05/01 17:21:17	1095 Tulipa	31.5	16.39	4.18	24	0.8	35°58'15" 49°58'33"	251	4.3	UCAC2 37131262	12.23	5 <sup>h</sup> 24 <sup>m</sup> 01.358 <sup>s</sup> 15°03'08.945"	21.1	268	41.1	-5.1	77.5	-37.2	10.5	293
2019/05/02 19:36:17	939 Isberga	17.8	17.47	5.71	73	0.5	37°12'12" 50°20'13"	64	2.8	TYC 188101548	11.77	6 <sup>h</sup> 13 <sup>m</sup> 51.346 <sup>s</sup> 24°39'12.387"	14.2	292	51.3	-20.0	76.6	-37.9	4.9	245
2019/05/03 00:01:09	3493 Stepanov	7.9	17.29	5.59	247	0.5	37°09'12" 52°11'48"	15	0.5	UCAC2 26123902	11.70	20 <sup>h</sup> 32 <sup>m</sup> 38.378 <sup>s</sup> −15°53'56.720"	10.4	131	95.5	-16.8	72.9	-17.9	4.2	145
2019/05/03 17:45:44	39046 UZ94	5.0	17.77	5.91	223	0.7	39°22'41" 50°22'36"	81	0.4	UCAC2 25764963	11.87	11 <sup>h</sup> 38 <sup>m</sup> 19.634 <sup>s</sup> −16°10'18.376"	23.3	169	136.1	-8.0	145.7	-22.2	1.8	135
2019/05/03 19:28:35	2999 Dante	6.6	16.41	4.87	141	0.7	35°58'36" 48°47'45"	189	1.0	TYC 497100510	11.55	13 <sup>h</sup> 54 <sup>m</sup> 46.006 <sup>s</sup> −3°29'29.325"	34.2	157	163.3	-19.1	176.9	-31.2	1.6	109
2019/05/03 19:34:03	777 Gutem- berga	65.6	14.30	1.09	233	7.7	33°05'60" 49°39'53"	259	5.7	UCAC2 22920966	13.71	12 <sup>h</sup> 18 <sup>m</sup> 09.738 <sup>s</sup> −22°17'07.643"	17.5	186	145.6	-19.6	151.6	-31.5	1.6	160
2019/05/03 19:57:39	2156 Kate	22.7	17.62	3.81	61	0.7	35°27'40" 49°53'47"	254	4.2	UCAC2 41354397	13.84	7 <sup>h</sup> 04 <sup>m</sup> 32.094 <sup>s</sup> 27°04'14.506"	19.8	289	61.6	-21.3	75.3	-32.5	1.5	204
2019/05/04 18:05:45	8889 Mock- turtle	12.0	17.40	4.50	21	0.9	36°22'33" 50°13'39"	18	2.3	UCAC2 22237744	12.92	13 <sup>h</sup> 08 <sup>m</sup> 32.001 <sup>s</sup> −23°57'53.876"	12.3	155	156.0	-10.3	154.2	-15.1	0.2	205
2019/05/04 23:28:39	18443 PW8	5.2	19.37	8.74	238	1.4	39°31'09" 50°35'20"	75	0.5	TYC 742300114	10.63	19 <sup>h</sup> 19 <sup>m</sup> 34.241 <sup>s</sup> −31°41'26.800"	1.4	148	116.5	-19.2	116.1	-23.8	0.2	210
2019/05/05 01:31:23	50843 FS44	5.5	17.93	6.07	227	0.7	38°58'27" 48°59'47"	121	0.5	UCAC2 16656504	11.86	17 <sup>h</sup> 17 <sup>m</sup> 05.863 <sup>s</sup> −35°59'37.719"	1.8	198	141.0	-5.5	140.5	-10.3	0.2	146
2019/05/05 21:13:17	72887 KE19	5.2	19.49	8.37	32	0.6	36°41'42" 50°09'55"	66	0.9	TYC 512700499	11.13	18 <sup>h</sup> 59 <sup>m</sup> 19.447 <sup>s</sup> −6°57'50.821"	9.2	113	118.3	-23.7	130.3	-23.1	1.1	221
2019/05/06 00:46:11	3570 Wuy- eesun	17.0	15.64	3.04	18	2.4	36°23'58" 49°54'03"	154	4.2	UCAC2 25341617	12.67	17 <sup>h</sup> 05 <sup>m</sup> 47.275 <sup>s</sup> −17°27'10.025"	21.3	195	147.6	-11.0	161.2	-17.5	1.4	162
2019/05/06 01:59:53	512 Taurinen- sis	23.1	14.96	1.41	89	2.8	36°14'50" 50°50'33"	358	5.2	UCAC2 35218240	13.89	12 <sup>h</sup> 38 <sup>m</sup> 05.705 <sup>s</sup> 9°48'38.107"	0.9	284	138.1	-1.3	125.9	-9.6	1.6	148
2019/05/06 19:10:42	19219 OH5	5.8	19.54	7.84	79	0.5	35°39'05" 49°28'02"	215	0.9	TYC 82700449	11.70	9 <sup>h</sup> 37 <sup>m</sup> 58.810 <sup>s</sup> 14°26'30.073"	39.9	241	96.3	-16.8	73.7	-4.3	3.9	236
2019/05/06 20:46:40	1936 Lugano	24.8	15.69	2.23	236	3.2	33°39'12" 48°48'01"	234	1.9	UCAC2 20195728	13.60	16 <sup>h</sup> 56 <sup>m</sup> 14.204 <sup>s</sup> −28°18'13.892"	3.4	144	149.3	-22.9	168.7	-14.6	4.2	149
2019/05/07 17:30:42	4732 Froeschle	29.8	17.53	5.39	153	1.3	36°14'10" 51°25'07"	359	3.2	UCAC2 32694857	12.15	8 <sup>h</sup> 15 <sup>m</sup> 28.950 <sup>s</sup> 2°48'44.781"	31.9	230	79.3	-5.1	46.1	19.5	8.7	329
2019/05/08 01:23:11	18081 GB126	10.0	15.62	1.91	181	0.9	38°36'45" 49°26'17"	112	0.8	UCAC2 17580379	13.92	18 <sup>h</sup> 16 <sup>m</sup> 25.720 <sup>s</sup> −33°51'38.690"	5.8	187	132.6	-5.9	165.1	-17.1	10.9	101
2019/05/08 18:30:08	1426 Riviera	15.4	16.47	2.97	34	0.5	35°51'23" 49°54'46"	244	2.5	UCAC2 40679264	13.57	7 <sup>h</sup> 34 <sup>m</sup> 05.971 <sup>s</sup> 25°07'44.277"	33.9	270	63.6	-12.2	16.8	20.1	16.3	240
2019/05/09 19:58:04	32794 UE5	10.0	19.38	7.43	187	0.7	38°05'29" 51°16'39"	43	0.9	UCAC2 29106303	11.95	14 <sup>h</sup> 10 <sup>m</sup> 25.176 <sup>s</sup> −7°33'17.686"	32.0	169	163.5	-19.8	103.3	15.6	25.9	373
2019/05/09 20:35:48	839 Valborg	20.4	16.50	5.54	38	0.6	35°45'07" 50°01'37"	267	2.7	TYC 242000345	10.97	6 <sup>h</sup> 15 <sup>m</sup> 14.770 <sup>s</sup> 31°28'55.036"	7.8	311	45.2	-21.7	18.6	10.0	26.2	300

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Page 2		Table 1					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 (%)	$\sigma_{km}$				
2019/05/10 00:34:20	45626 2000 DF95	5.0	19.61	9.50	147	0.7	35°48'32" 48°45'42"	193	0.7	TYC 632301203	10.11	20 <sup>h</sup> 11 <sup>m</sup> 39.823 <sup>s</sup> −20°09'03.489"	14.9	150	108.2	-11.4	171.8	-15.7	27.9	222				
2019/05/10 17:31:09	3324 Avsyuk	18.2	16.24	3.93	204	4.2	33°48'43" 49°09'41"	241	2.0	UCAC2 26225686	12.34	11 <sup>h</sup> 58 <sup>m</sup> 53.146 <sup>s</sup> −15°12'02.391"	24.0	167	134.7	-4.5	65.0	45.7	35.1	155				
2019/05/10 17:43:30	1211 Bressole	38.2	16.32	4.02	36	5.3	36°11'54" 50°22'12"	350	7.4	UCAC2 36123660	12.33	12 <sup>h</sup> 43 <sup>m</sup> 34.489 <sup>s</sup> 12°20'29.244"	48.9	149	133.4	-6.1	63.4	43.9	35.3	203				
2019/05/10 17:54:19	2332 Kalm	29.6	17.22	4.27	210	0.7	38°04'21" 51°33'19"	37	3.0	UCAC2 42024601	12.97	5 <sup>h</sup> 27 <sup>m</sup> 09.296 <sup>s</sup> 29°26'57.919"	21.3	291	33.8	-7.5	39.8	42.3	35.4	319				
2019/05/10 20:08:43	38547 1999 VN35	5.0	18.30	6.75	15	0.7	36°29'23" 50°04'12"	80	1.3	TYC 623102433	11.55	17 <sup>h</sup> 03 <sup>m</sup> 34.683 <sup>s</sup> −21°12'51.425"	6.7	135	152.7	-20.1	133.1	21.7	36.4	159				
2019/05/11 19:38:31	686 Gersuind	41.1	15.66	2.66	182	1.2	34°44'17" 51°21'40"	323	4.7	UCAC2 36610723	13.10	6 <sup>h</sup> 25 <sup>m</sup> 17.633 <sup>s</sup> 13°36'23.817"	1.7	289	46.5	-17.9	42.8	33.1	47.4	288				
2019/05/11 22:27:12	32258 2000 OF53	6.0	19.02	7.79	197	1.9	35°04'26" 51°38'35"	334	0.7	UCAC2 29279369	11.23	11 <sup>h</sup> 30 <sup>m</sup> 36.175 <sup>s</sup> −7°27'53.083"	6.9	250	125.0	-21.1	39.2	7.0	48.6	213				
2019/05/12 20:36:11	3097 Tacitus	25.0	16.15	2.66	192	2.5	38°03'01" 51°21'34"	41	3.0	UCAC2 27118761	13.59	16 <sup>h</sup> 19 <sup>m</sup> 53.252 <sup>s</sup> −13°14'19.167"	21.8	149	164.0	-20.9	92.7	29.7	59.3	156				
2019/05/12 22:15:32	11610 1995 XJ1	11.0	16.98	4.95	43	0.8	35°51'19" 49°46'42"	226	2.3	UCAC2 20876104	12.04	15 <sup>h</sup> 36 <sup>m</sup> 31.941 <sup>s</sup> −26°41'42.646"	13.2	186	170.3	-21.2	85.5	14.2	60.1	185				
2019/05/13 00:15:03	23097 1999 XF157	5.5	18.45	8.48	163	0.9	36°21'13" 48°34'50"	178	0.8	TYC 631700028	9.97	19 <sup>h</sup> 52 <sup>m</sup> 05.874 <sup>s</sup> −17°23'50.669"	18.4	152	115.0	-12.8	141.6	-3.9	61.1	160				
2019/05/13 20:53:07	4369 Seifert	13.2	16.71	3.01	96	0.9	35°00'09" 49°49'01"	254	2.0	UCAC2 19162417	13.78	13 <sup>h</sup> 59 <sup>m</sup> 59.792 <sup>s</sup> −30°00'23.248"	9.5	190	158.3	-21.2	55.4	31.3	70.4	237				
2019/05/13 23:48:02	193 Ambrosia	38.4	15.15	1.65	234	6.0	38°27'45" 48°29'52"	138	3.9	UCAC2 15853541	13.76	19 <sup>h</sup> 02 <sup>m</sup> 55.121 <sup>s</sup> −37°56'00.163"	0.2	164	128.2	-15.2	114.6	4.2	71.8	209				
2019/05/13 23:55:21	1092 Lilium	46.2	14.71	3.02	199	4.8	36°50'58" 48°17'56"	168	4.9	TYC 614800400	11.76	13 <sup>h</sup> 59 <sup>m</sup> 11.649 <sup>s</sup> −21°07'33.107"	3.0	231	160.6	-14.5	48.2	3.1	71.8	142				
2019/05/14 01:48:43	7569 1989 BK	8.3	17.78	6.64	92	0.6	35°46'52" 50°48'29"	337	1.6	TYC 562500859	11.14	16 <sup>h</sup> 19 <sup>m</sup> 14.327 <sup>s</sup> −14°43'36.542"	11.8	229	165.7	-1.1	75.5	-13.7	72.6	185				
2019/05/14 17:04:17	1628 Strobel	57.1	15.76	3.18	183	1.5	35°50'55" 48°25'59"	190	6.5	UCAC2 34613850	12.64	6 <sup>h</sup> 28 <sup>m</sup> 04.770 <sup>s</sup> 8°25'27.321"	20.9	258	45.8	-0.0	83.0	43.0	78.9	285				
2019/05/15 01:47:35	5262 Bruce-goldberg	19.1	15.03	1.99	163	1.7	36°09'07" 51°30'31"	357	2.8	UCAC2 32212745	13.23	15 <sup>h</sup> 05 <sup>m</sup> 12.645 <sup>s</sup> 1°03'27.740"	13.9	255	159.6	-1.1	40.7	-10.5	82.2	152				
2019/05/16 00:33:09	4717 Kaneko	18.1	15.97	3.57	10	4.1	36°08'57" 50°01'22"	254	4.3	UCAC2 20966781	12.44	19 <sup>h</sup> 07 <sup>m</sup> 19.184 <sup>s</sup> −26°34'58.693"	13.1	172	129.5	-10.2	87.8	4.8	89.8	167				
2019/05/16 19:54:40	2786 Grinevia	13.8	16.22	2.73	250	1.0	33°37'03" 48°37'42"	230	1.0	UCAC2 16629521	13.58	15 <sup>h</sup> 43 <sup>m</sup> 21.285 <sup>s</sup> −35°33'43.116"	1.3	159	163.3	-17.9	38.5	33.8	94.6	163				
2019/05/17 00:42:03	33323 1998 QN53	10.5	16.89	3.75	147	1.4	38°20'04" 49°56'26"	95	1.7	UCAC2 29185526	13.18	19 <sup>h</sup> 45 <sup>m</sup> 05.631 <sup>s</sup> −7°53'17.173"	30.8	163	118.0	-9.0	84.2	6.9	95.5	160				
2019/05/17 17:22:25	1327 Na-maqua	25.1	17.82	4.40	68	0.6	36°53'23" 49°34'54"	140	3.2	UCAC2 40305778	13.44	4 <sup>h</sup> 53 <sup>m</sup> 37.668 <sup>s</sup> 24°20'02.630"	13.2	292	18.7	-1.9	145.9	16.1	98.2	304				

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 3		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 (%)	$\sigma_{km}$
2019/05/18 00:44:31	2206 Gabrova	17.4	16.77	3.34	192	1.5	38°21'17'' 51°09'40''	50	2.2 3.4	UCAC2 21216081	13.48	21 <sup>h</sup> 16 <sup>m</sup> 00.170 <sup>s</sup> -26°06'49.374''	7.5	148	102.9	-8.5	88.5	9.8	99.0	204
2019/05/18 01:03:45	29159 GB	5.5	17.26	5.88	80	0.7	36°11'07'' 49°19'38''	185	1.5 1.9	UCAC2 16260644	11.39	18 <sup>h</sup> 09 <sup>m</sup> 29.501 <sup>s</sup> -36°50'56.847''	2.2	192	142.5	-6.3	49.1	7.2	99.0	116
2019/05/18 17:24:11	11652 John-brownlee	10.0	17.56	7.94	196	1.8	38°22'46'' 51°12'34''	49	1.2 2.2	TYC 27000681	9.62	11 <sup>h</sup> 29 <sup>m</sup> 45.348 <sup>s</sup> 7°12'22.403''	47.4	181	112.9	-2.0	64.9	6.2	99.8	183
2019/05/18 17:30:55	9046 PG17	6.3	16.07	4.31	250	1.1	33°14'31'' 48°58'37''	241	0.1 2.7	UCAC2 17723547	11.78	13 <sup>h</sup> 19 <sup>m</sup> 11.928 <sup>s</sup> -33°22'57.874''	3.8	160	145.8	-2.9	35.8	7.1	99.8	95
2019/05/19 00:36:55	20734 XA169	11.0	16.45	8.97	57	1.0	36°54'17'' 49°43'54''	129	4.0 5.0	TYC 740701615	7.48	18 <sup>h</sup> 41 <sup>m</sup> 57.206 <sup>s</sup> -31°28'41.618''	8.6	181	137.8	-9.2	41.4	13.4	99.9	88
2019/05/19 00:38:07	19848 Ye-ungchuchiu	11.5	17.10	3.23	71	1.0	37°04'30'' 49°40'10''	127	2.3 2.5	UCAC2 20441553	13.93	17 <sup>h</sup> 09 <sup>m</sup> 27.135 <sup>s</sup> -27°44'34.948''	9.2	202	158.2	-9.1	21.3	13.3	99.9	185
2019/05/19 01:24:46	3882 Johncox	8.7	16.15	4.70	134	3.2	34°25'11'' 50°12'37''	278	1.5 3.3	TYC 571900142	11.46	19 <sup>h</sup> 03 <sup>m</sup> 18.529 <sup>s</sup> -14°59'54.694''	24.7	189	131.7	-3.4	45.9	7.8	99.9	107
2019/05/19 20:36:02	28029 DW9	11.5	18.22	8.93	31	2.0	36°41'52'' 49°57'45''	108	1.9 1.9	TYC 628700331	9.29	19 <sup>h</sup> 05 <sup>m</sup> 33.849 <sup>s</sup> -18°06'28.971''	1.8	121	132.6	-19.3	35.2	17.2	98.8	242
2019/05/19 23:45:36	28029 DW9	11.5	18.22	5.44	30	2.0	35°58'15'' 49°52'29''	230	1.9 1.9	UCAC2 24959689	12.78	19 <sup>h</sup> 05 <sup>m</sup> 31.728 <sup>s</sup> -18°06'15.508''	20.5	163	132.7	-14.2	33.4	18.9	98.5	242
2019/05/20 01:16:05	6776 Dix	6.6	18.68	6.83	198	0.8	35°05'35'' 48°26'41''	206	0.8 1.4	UCAC2 24007994	11.85	21 <sup>h</sup> 05 <sup>m</sup> 31.306 <sup>s</sup> -20°26'39.415''	16.6	157	105.7	-4.4	60.0	11.9	98.3	192
2019/05/20 23:48:41	67997 XA29	6.3	18.23	6.53	102	1.0	35°53'39'' 49°10'12''	196	1.2 1.4	TYC 740202070	11.70	18 <sup>h</sup> 34 <sup>m</sup> 58.825 <sup>s</sup> -34°57'08.832''	4.9	174	140.6	-13.7	18.2	18.5	95.0	179
2019/05/21 01:06:17	1906 Naef	10.5	16.12	2.81	140	1.6	38°08'47'' 49°40'02''	108	1.8 3.3	UCAC2 17568891	13.40	17 <sup>h</sup> 57 <sup>m</sup> 17.903 <sup>s</sup> -33°44'40.778''	4.1	198	148.4	-5.4	12.8	15.2	94.7	125
2019/05/21 01:24:16	2763 Jeans	11.5	15.48	2.26	52	3.2	35°46'31'' 50°22'58''	316	3.8 4.3	UCAC2 20236759	13.36	18 <sup>h</sup> 11 <sup>m</sup> 37.939 <sup>s</sup> -28°02'16.660''	9.4	200	146.6	-3.1	9.1	13.9	94.6	108
2019/05/22 00:41:10	11970 Pal-itzsch	5.0	19.02	7.50	54	0.6	36°07'46'' 49°34'36''	192	1.0 1.0	TYC 626801614	11.53	18 <sup>h</sup> 13 <sup>m</sup> 21.413 <sup>s</sup> -17°36'29.142''	21.6	193	146.8	-8.2	7.3	17.6	89.3	192
2019/05/22 18:31:01	120 Lachesis	174.1	13.87	0.88	116	4.0	36°37'58'' 51°03'42''	12	19.7 21.0	UCAC2 41673731	13.62	5 <sup>h</sup> 25 <sup>m</sup> 09.943 <sup>s</sup> 28°21'36.671''	8.3	305	21.8	-9.3	154.0	-20.1	84.3	328
2019/05/22 19:39:04	1440 Rostia	11.0	17.70	5.19	212	0.7	38°11'46'' 51°31'20''	40	1.2 2.0	UCAC2 24608198	12.52	15 <sup>h</sup> 18 <sup>m</sup> 14.692 <sup>s</sup> -18°41'41.654''	19.5	162	170.9	-15.5	56.3	-9.9	84.0	221
2019/05/22 19:43:30	681 Gorgo	24.0	15.09	2.18	245	2.9	37°24'55'' 52°08'00''	19	1.8 6.0	UCAC2 30048330	13.06	17 <sup>h</sup> 55 <sup>m</sup> 21.329 <sup>s</sup> -5°01'44.288''	16.7	120	147.2	-15.9	26.6	-9.3	84.0	158
2019/05/23 22:11:23	14835 Holdridge	7.9	16.60	4.85	53	0.7	35°47'03'' 49°41'55''	223	2.5 2.7	UCAC2 30891444	11.76	18 <sup>h</sup> 43 <sup>m</sup> 23.805 <sup>s</sup> -2°56'00.763''	31.0	144	136.6	-19.0	29.2	4.6	75.4	117
2019/05/24 00:38:40	1809 Prometheus	15.8	15.50	2.30	119	1.4	35°37'17'' 51°01'43''	336	3.1 4.2	UCAC2 24374376	13.34	16 <sup>h</sup> 29 <sup>m</sup> 15.670 <sup>s</sup> -19°01'34.459''	12.5	218	173.2	-8.2	54.7	17.5	74.4	152
2019/05/24 20:37:43	44907 VM24	5.2	17.26	6.19	124	0.5	35°19'09'' 49°07'55''	214	1.0 1.8	TYC 684500906	11.07	17 <sup>h</sup> 59 <sup>m</sup> 59.326 <sup>s</sup> -24°49'59.112''	6.4	142	153.1	-18.4	43.1	-13.4	67.2	117

Longitude = 36.287(36°17'11.5'') Latitude = 50.047(50°02'50.8'')										Sorted by date/time.			Table 1		Page 4		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 (%)	$\sigma_{km}$
2019/05/24 21:04:54	0 2017 DS44	6.6	21.04	10.12	159	0.7	36°15'28'' 48°36'56''	181	0.7	TYC 89900588	10.92	13 <sup>h</sup> 40 <sup>m</sup> 30.002 <sup>s</sup> 13°13'40.410''	46.2	224	130.9	-19.1	114.3	-9.3	67.0	364
2019/05/24 23:05:54	17584 1994 XF1	5.8	16.39	8.12	186	0.8	37°12'12'' 48°29'07''	159	0.0	HIP 73435	8.27	15 <sup>h</sup> 00 <sup>m</sup> 23.147 <sup>s</sup> −9°08'09.902''	21.5	223	160.6	-16.3	89.4	7.3	66.2	59
2019/05/25 01:10:43	4748 Toki- wagozen	15.8	15.30	3.13	76	1.4	35°57'00'' 50°41'38''	342	4.0	UCAC2 30382431	12.23	15 <sup>h</sup> 21 <sup>m</sup> 15.169 <sup>s</sup> −4°19'37.350''	11.8	248	160.4	-4.2	87.1	18.9	65.4	135
2019/05/26 21:09:43	13897 Vestu- vius	11.0	17.97	4.40	91	1.7	36°47'34'' 50°47'42''	24	1.7	UCAC2 27902782	13.58	18 <sup>h</sup> 53 <sup>m</sup> 40.183 <sup>s</sup> −11°03'41.201''	17.2	133	140.1	-18.8	55.6	-17.6	48.4	233
2019/05/26 23:52:29	18399 Ten- tounushi	11.5	17.90	4.32	106	1.3	37°02'49'' 50°52'09''	31	1.2	UCAC2 18801460	13.60	20 <sup>h</sup> 45 <sup>m</sup> 15.794 <sup>s</sup> −31°23'09.941''	3.7	153	119.1	-12.4	34.1	7.3	47.2	379
2019/05/27 18:20:04	378 Holmia	26.7	15.42	2.88	258	0.6	35°09'13'' 47°51'20''	198	2.5	TYC 133500575	12.62	6 <sup>h</sup> 55 <sup>m</sup> 23.359 <sup>s</sup> 17°50'52.777''	12.0	283	37.6	-7.3	115.0	-43.8	40.0	284
2019/05/29 19:39:58	14330 1981 EG21	6.0	19.53	9.04	135	1.2	35°45'56'' 48°52'45''	196	0.8	TYC 495900244	10.49	13 <sup>h</sup> 22 <sup>m</sup> 16.983 <sup>s</sup> −2°12'36.085''	35.7	202	131.7	-14.4	172.7	-35.6	21.8	249
2019/05/29 21:33:41	2186 Keldysh	10.0	17.90	5.55	100	0.8	36°35'57'' 50°55'10''	13	1.7	UCAC2 33045921	12.36	10 <sup>h</sup> 57 <sup>m</sup> 06.522 <sup>s</sup> 3°52'54.936''	7.8	267	96.0	-18.5	149.6	-22.7	21.2	205
2019/05/30 19:12:42	2153 Akiyama	16.8	17.06	4.58	217	1.2	38°19'06'' 51°30'51''	42	1.9	UCAC2 22498801	12.50	16 <sup>h</sup> 53 <sup>m</sup> 34.485 <sup>s</sup> −23°16'09.447''	8.3	143	174.0	-12.1	129.6	-34.9	14.3	210
2019/05/30 19:57:05	122 Gerda	81.7	13.99	0.75	126	2.1	36°49'28'' 51°07'43''	18	9.6	UCAC2 39301755	13.99	7 <sup>h</sup> 11 <sup>m</sup> 03.427 <sup>s</sup> 21°16'26.558''	0.9	303	37.7	-15.4	81.3	-32.9	14.1	313
2019/05/30 20:26:32	1427 Ruvuma	37.6	14.53	1.13	57	3.6	36°09'12'' 50°33'20''	350	10.7	UCAC2 26690276	13.87	15 <sup>h</sup> 33 <sup>m</sup> 04.629 <sup>s</sup> −14°09'29.751''	25.9	178	164.8	-16.9	151.1	-30.8	13.9	127
2019/05/31 17:29:54	2510 Shan- dong	10.0	15.56	3.14	32	1.9	36°14'38'' 50°19'48''	354	3.8	TYC 498200576	12.48	14 <sup>h</sup> 12 <sup>m</sup> 36.317 <sup>s</sup> −5°32'56.957''	30.3	150	142.5	-0.6	175.6	-26.2	8.4	100
2019/05/31 17:29:54	2510 Shan- dong	10.0	15.56	3.48	32	1.9	36°14'38'' 50°19'48''	354	3.8	UCAC2 29843957	12.12	14 <sup>h</sup> 12 <sup>m</sup> 36.317 <sup>s</sup> −5°32'56.957''	30.3	150	142.5	-0.6	175.6	-26.2	8.4	100
2019/05/31 21:34:49	2281 Biela	6.6	15.88	3.66	199	2.6	37°54'42'' 51°30'31''	36	0.2	TYC 628900123	12.26	18 <sup>h</sup> 49 <sup>m</sup> 53.313 <sup>s</sup> −20°29'38.820''	13.6	148	148.1	-18.2	117.0	-24.4	7.5	83

