

## 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: 204

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 (%)	$\sigma_{km}$	
2020/07/01 00:30:14	5624 Shirley	11.5	16.73	3.03	86	1.1	35°44'42'' 50°44'30''	333	3.0	UCAC4 401-119036	13.77	19 <sup>h</sup> 52 <sup>m</sup> 11.301 <sup>s</sup> -9°55'27.608''	26.2	208	158.5	-7.6	72.7	-16.0	79.2	115	
2020/07/01 00:52:16	828 Linde- mannia	53.4	16.42	5.84	195	1.2	33°43'43'' 50°40'37''	291	6.4	TYC 1848-817-1	10.59	5 <sup>h</sup> 28 <sup>m</sup> 29.742 <sup>s</sup> 24°05'04.648''	4.6	57	16.6	-5.3	142.2	-19.5	79.3	238	
2020/07/01 17:44:34	132 Aethra	42.7	12.82	0.98	133	1.0	37°16'02'' 51°04'07''	32	7.5	UCAC4 408-51940	12.41	9 <sup>h</sup> 57 <sup>m</sup> 06.001 <sup>s</sup> -8°35'15.167''	3.9	252	56.9	-0.7	82.2	23.2	85.5	113	
2020/07/01 22:02:22	3266 Bernar- dus	8.7	14.46	2.21	22	0.7	36°35'20'' 49°59'43''	105	6.3	UCAC4 364-173943	12.41	19 <sup>h</sup> 46 <sup>m</sup> 03.587 <sup>s</sup> -17°18'49.686''	22.3	170	164.5	-16.9	57.4	9.4	86.9	50	
2020/07/02 00:52:38	17619 1995 VT	11.0	16.79	2.91	81	0.9	36°24'59'' 49°19'29''	173	2.9	UNKNOWN UN- KNOWN	13.95	18 <sup>h</sup> 32 <sup>m</sup> 43.893 <sup>s</sup> -13°35'09.509''	12.0	231	170.2	-5.3	39.0	-14.7	87.8	122	
2020/07/02 21:31:09	9444 1997 JA	8.3	17.53	4.04	178	0.7	37°13'53'' 48°34'26''	158	1.0	UCAC4 330-146843	13.52	18 <sup>h</sup> 21 <sup>m</sup> 48.959 <sup>s</sup> -24°03'06.354''	15.9	185	173.8	-17.2	23.5	14.6	93.5	131	
2020/07/02 21:57:13	1297 Quadea	66.0	15.31	2.22	149	5.0	36°53'24'' 51°20'02''	17	10.4	UCAC4 315-208714	13.23	18 <sup>h</sup> 35 <sup>m</sup> 46.134 <sup>s</sup> -27°04'05.631''	12.7	187	174.9	-17.0	26.7	12.4	93.6	127	
2020/07/02 22:05:18	23617 Duna	8.7	17.95	5.04	194	0.7	35°53'40'' 48°19'10''	188	0.9	UCAC4 465-108693	12.92	19 <sup>h</sup> 37 <sup>m</sup> 10.725 <sup>s</sup> 2°54'06.094''	42.8	173	151.5	-16.9	48.9	11.7	93.6	139	
2020/07/02 22:15:00	5515 Naderi	8.3	16.16	4.45	87	0.9	35°48'54'' 50°46'20''	337	2.3	UCAC4 443-103320	11.73	19 <sup>h</sup> 16 <sup>m</sup> 41.135 <sup>s</sup> -1°32'16.438''	38.6	183	157.5	-16.7	42.1	10.8	93.7	83	
2020/07/03 01:21:11	191 Kolga	101.0	13.46	0.80	197	8.9	36°11'54'' 48°16'51''	182	8.1	UCAC4 414-69944	13.36	17 <sup>h</sup> 38 <sup>m</sup> 37.186 <sup>s</sup> -7°21'23.393''	4.8	253	157.0	-2.0	17.9	-13.2	94.4	111	
2020/07/03 17:57:11	1336 Zee- landia	21.0	13.95	0.73	76	2.0	37°17'01'' 50°17'57''	69	6.4	UCAC4 334-191963	13.99	18 <sup>h</sup> 55 <sup>m</sup> 18.235 <sup>s</sup> -23°16'58.615''	1.6	130	179.1	-2.4	19.3	11.0	97.4	94	
2020/07/03 18:43:26	2790 Need- ham	10.0	17.14	3.26	94	0.9	35°06'01'' 49°41'23''	245	2.4	UNKNOWN UN- KNOWN	13.94	17 <sup>h</sup> 04 <sup>m</sup> 21.890 <sup>s</sup> -35°32'06.226''	3.2	166	153.4	-7.6	14.3	14.2	97.5	120	
2020/07/03 20:22:21	13381 1998 WJ17	11.0	16.88	2.98	59	1.0	36°04'58'' 49°32'14''	194	2.8	UCAC4 359-172451	13.97	18 <sup>h</sup> 51 <sup>m</sup> 55.510 <sup>s</sup> -18°18'30.713''	19.8	161	175.5	-15.3	18.0	17.2	97.8	144	
2020/07/03 20:24:12	9444 1997 JA	8.3	17.56	3.92	149	0.7	36°16'27'' 51°23'10''	360	1.3	UCAC4 330-145196	13.67	18 <sup>h</sup> 21 <sup>m</sup> 01.487 <sup>s</sup> -24°04'01.082''	15.4	170	172.7	-15.4	10.0	17.2	97.8	131	
2020/07/03 21:32:05	15104 2000 BV3	9.1	16.69	2.85	160	0.8	37°45'12'' 48°58'23''	139	1.1	UCAC4 355-136814	13.93	18 <sup>h</sup> 24 <sup>m</sup> 11.337 <sup>s</sup> -19°09'25.225''	20.7	186	172.4	-17.2	10.8	15.6	97.9	107	
2020/07/03 23:06:12	5021 Krylania	10.5	17.50	4.56	152	0.8	37°23'40'' 48°53'13''	148	1.7	UCAC4 336-151358	12.95	18 <sup>h</sup> 26 <sup>m</sup> 33.513 <sup>s</sup> -22°59'32.907''	12.8	207	173.9	-14.7	9.6	9.1	98.1	145	
2020/07/03 23:37:31	7338 1990 VJ3	11.5	17.00	3.23	72	1.0	36°18'23'' 49°24'09''	179	3.1	UCAC4 387-137862	13.83	20 <sup>h</sup> 16 <sup>m</sup> 55.523 <sup>s</sup> -12°44'43.920''	26.9	190	157.7	-12.6	37.3	6.1	98.2	124	
2020/07/03 23:56:00	6828 Elbsteel	8.3	17.37	4.67	160	0.6	35°10'54'' 51°18'27''	331	1.1	UCAC4 354-117895	12.71	18 <sup>h</sup> 09 <sup>m</sup> 20.251 <sup>s</sup> -19°20'13.196''	10.0	223	169.2	-11.1	6.5	4.0	98.2	117	
2020/07/04 00:56:04	2378 Pan- nekoek	32.3	15.92	2.39	142	2.4	35°44'58'' 51°16'30''	344	5.5	UCAC4 435-75921	13.66	18 <sup>h</sup> 17 <sup>m</sup> 00.970 <sup>s</sup> -3°06'36.120''	17.1	243	158.4	-5.1	21.3	-3.3	98.4	142	
2020/07/04 01:09:25	551 Ortrud	78.5	14.32	0.99	80	6.1	37°11'46'' 49°38'07''	125	20.0	UCAC4 339-185992	13.89	19 <sup>h</sup> 34 <sup>m</sup> 11.045 <sup>s</sup> -22°14'34.849''	8.6	219	170.5	-3.5	24.0	-5.0	98.4	127	

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 (%)	$\sigma_{km}$
2020/07/04 01:13:51	4223 Shikoku	22.9	14.71	1.70	73	2.1	35°57'27'' 50°39'60''	341	6.8	UCAC4 363-182950	13.26	19 <sup>h</sup> 25 <sup>m</sup> 02.367 <sup>s</sup> -17°26'17.044''	11.4	224	170.8	-3.0	23.0	-5.6	98.4	105
2020/07/04 01:29:00	500 Selinur	43.9	14.28	1.31	124	1.2	37°39'35'' 49°22'42''	127	8.3	UCAC4 577-6554	13.36	2 <sup>h</sup> 58 <sup>m</sup> 41.773 <sup>s</sup> 25°19'53.788''	35.9	92	53.2	-1.1	141.0	-7.7	98.4	152
2020/07/04 17:40:09	2977 Chivi-Ikhin	10.0	16.07	2.46	144	1.0	36°14'13'' 48°45'28''	181	1.3	UCAC4 410-115896	13.72	19 <sup>h</sup> 09 <sup>m</sup> 57.013 <sup>s</sup> -8°03'15.501''	10.5	116	164.9	-0.3	18.5	2.4	99.7	92
2020/07/04 17:49:52	1145 Robel-monte	23.2	15.51	2.02	42	1.5	36°33'34'' 50°22'51''	28	7.6	UCAC4 385-61935	13.67	12 <sup>h</sup> 58 <sup>m</sup> 13.885 <sup>s</sup> -13°09'50.372''	20.8	214	95.5	-1.5	78.6	3.5	99.7	114
2020/07/04 18:04:45	779 Nina	76.6	11.56	3.30	91	9.7	35°05'49'' 49°45'42''	249	6.5	TYC 7329-416-1	8.32	15 <sup>h</sup> 55 <sup>m</sup> 45.628 <sup>s</sup> -30°20'21.273''	9.4	173	139.2	-3.3	35.0	5.1	99.7	35
2020/07/04 18:54:50	6340 Kath-mandu	11.0	17.22	5.27	31	0.8	36°00'28'' 49°50'08''	220	3.0	UCAC4 329-172642	11.96	18 <sup>h</sup> 48 <sup>m</sup> 11.282 <sup>s</sup> -24°16'48.183''	8.2	145	177.6	-8.8	3.2	9.8	99.8	141
2020/07/04 19:30:34	4892 Chrispol-las	8.7	16.57	3.33	114	1.0	36°34'03'' 51°03'05''	10	1.7	UCAC4 428-116714	13.30	20 <sup>h</sup> 33 <sup>m</sup> 19.554 <sup>s</sup> -4°35'04.335''	17.3	120	150.3	-12.0	34.4	12.4	99.8	87
2020/07/04 21:03:15	8990 Compassion	9.5	17.94	4.15	77	1.0	37°21'11'' 49°56'38''	99	2.3	UCAC4 438-58686	13.82	14 <sup>h</sup> 03 <sup>m</sup> 41.916 <sup>s</sup> -2°30'40.727''	14.1	248	106.4	-16.9	69.8	16.0	99.9	139
2020/07/04 22:07:52	1970 Sumeria	21.9	16.77	3.88	253	1.7	36°40'40'' 47°47'27''	174	0.7	UCAC4 321-219108	12.92	19 <sup>h</sup> 34 <sup>m</sup> 07.577 <sup>s</sup> -25°59'36.511''	14.1	178	170.9	-17.1	11.9	15.4	99.9	118
2020/07/04 22:29:31	6663 Tate-bayashi	11.0	15.54	2.03	21	1.1	36°01'52'' 50°08'14''	299	5.0	UCAC4 396-85222	13.69	18 <sup>h</sup> 38 <sup>m</sup> 19.250 <sup>s</sup> -10°56'05.509''	27.3	199	167.4	-16.5	13.2	14.7	99.9	85
2020/07/05 00:57:33	20402 1998 OH6	8.3	17.59	4.31	31	0.7	36°33'34'' 49°49'59''	141	2.5	UCAC4 376-127921	13.31	18 <sup>h</sup> 34 <sup>m</sup> 32.887 <sup>s</sup> -14°53'56.438''	8.9	234	170.5	-5.0	9.8	2.9	100.0	130
2020/07/05 21:11:12	3274 Maillen	9.1	17.42	3.63	201	2.2	37°14'48'' 48°21'14''	160	0.7	UCAC4 379-163966	13.83	21 <sup>h</sup> 55 <sup>m</sup> 52.564 <sup>s</sup> -14°23'49.915''	11.9	130	137.9	-17.2	33.6	15.1	99.4	118
2020/07/05 22:24:21	7750 McEwen	12.4	14.73	3.97	242	1.7	33°05'25'' 49°22'39''	252	0.0	UCAC4 424-77486	10.79	18 <sup>h</sup> 16 <sup>m</sup> 38.314 <sup>s</sup> -5°19'59.174''	31.4	207	159.6	-16.7	27.4	16.6	99.3	69
2020/07/05 23:43:47	1846 Bengt	11.4	17.51	6.43	60	1.0	35°38'24'' 49°42'27''	231	3.6	UCAC4 309-146775	11.08	18 <sup>h</sup> 00 <sup>m</sup> 09.300 <sup>s</sup> -28°22'32.595''	1.4	220	165.1	-12.3	24.1	14.4	99.2	107
2020/07/06 20:15:25	4999 MPC	12.0	16.85	3.07	48	1.1	36°02'11'' 50°27'03''	338	3.6	UCAC4 400-128692	13.85	20 <sup>h</sup> 15 <sup>m</sup> 51.371 <sup>s</sup> -10°05'43.334''	21.2	139	158.9	-15.2	12.6	8.7	96.8	121
2020/07/06 20:25:17	335 Roberta	89.1	11.10	0.57	209	13.6	37°48'06'' 48°27'05''	149	0.2	UCAC4 373-168897	11.49	19 <sup>h</sup> 20 <sup>m</sup> 41.156 <sup>s</sup> -15°25'32.133''	21.8	157	171.9	-15.7	18.5	9.7	96.8	56
2020/07/06 21:33:20	34476 2000 SX118	8.7	17.93	4.43	241	0.8	33°21'55'' 51°09'29''	301	0.6	UCAC4 273-101403	13.51	17 <sup>h</sup> 01 <sup>m</sup> 45.735 <sup>s</sup> -35°31'40.399''	0.6	204	150.3	-17.5	48.5	15.1	96.6	141
2020/07/07 00:38:04	11183 1998 GB7	8.7	16.11	3.16	65	0.8	35°50'15'' 49°32'38''	210	3.0	UCAC4 348-133506	13.01	18 <sup>h</sup> 14 <sup>m</sup> 29.478 <sup>s</sup> -20°26'15.728''	3.2	232	167.9	-7.4	34.8	16.4	96.1	88
2020/07/07 00:47:48	2853 Harvill	8.3	16.16	3.12	235	0.8	34°42'21'' 51°54'46''	331	0.1	UCAC4 370-151512	13.10	18 <sup>h</sup> 47 <sup>m</sup> 30.324 <sup>s</sup> -16°06'23.015''	9.8	230	172.3	-6.3	28.1	15.8	96.1	85
2020/07/07 01:37:11	2387 Xi'an	17.4	17.19	3.71	197	0.7	37°38'03'' 48°30'41''	151	2.1	UCAC4 473-2810	13.52	2 <sup>h</sup> 01 <sup>m</sup> 01.976 <sup>s</sup> 4°35'54.459''	31.5	126	75.5	-0.4	81.3	12.4	96.0	168

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			
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	Phase (%)	$\sigma_{km}$		
2020/07/07 18:04:20	18369 LM	8.3	15.59	2.34	89	0.7	35°06'12" 49°48'04"	252	2.2	UCAC4 333-201282	13.38	19 <sup>h</sup> 04 <sup>m</sup> 43.673 <sup>s</sup> -23°35'00.242"	3.0	133	178.6	-3.5	32.3	-13.0	92.7	81
2020/07/07 18:52:26	1383 Limbur- gia	22.3	15.58	6.28	24	2.1	36°07'12" 49°51'40"	210	8.4	TYC 6308- 2221-1	9.30	19 <sup>h</sup> 12 <sup>m</sup> 21.760 <sup>s</sup> -22°18'59.402"	8.5	141	179.1	-8.8	30.9	-5.8	92.5	103
2020/07/07 19:49:26	6694 1986 PF	8.7	16.10	2.70	25	0.9	36°13'20" 49°49'48"	191	3.8	UCAC4 373-170922	13.49	19 <sup>h</sup> 26 <sup>m</sup> 38.150 <sup>s</sup> -15°29'53.362"	18.9	148	171.9	-13.7	28.8	2.1	92.3	88
2020/07/07 19:49:58	4043 Perolof	11.0	16.35	3.41	12	1.0	36°19'15" 50°09'08"	12	3.9	UCAC4 314-208591	12.99	18 <sup>h</sup> 32 <sup>m</sup> 18.456 <sup>s</sup> -27°12'08.577"	11.2	164	170.4	-13.7	40.6	2.1	92.3	111
2020/07/07 20:47:06	11644 BR1	9.1	16.97	3.13	32	0.7	36°30'32" 49°47'40"	151	3.0	UCAC4 365-162633	13.91	19 <sup>h</sup> 01 <sup>m</sup> 14.544 <sup>s</sup> -17°03'50.866"	22.3	169	174.3	-16.7	35.1	9.1	92.1	117
2020/07/07 22:40:14	13326 Ferri	8.7	16.79	8.97	75	3.7	35°14'17" 50°01'51"	269	2.2	UCAC4 397-130027	7.82	21 <sup>h</sup> 57 <sup>m</sup> 59.710 <sup>s</sup> -10°42'19.680"	25.0	151	138.1	-16.4	10.0	18.9	91.5	49
2020/07/07 23:05:03	871 Amnenis	12.2	14.64	2.56	81	1.6	36°54'25" 49°26'21"	147	3.3	UCAC4 370-152431	12.19	18 <sup>h</sup> 48 <sup>m</sup> 40.425 <sup>s</sup> -16°10'20.198"	19.8	207	172.1	-15.2	39.4	20.2	91.5	61
2020/07/07 23:33:51	260 Huberta	94.7	14.04	1.77	243	16.5	34°05'20" 51°44'02"	320	4.7	UCAC4 404-130112	12.51	21 <sup>h</sup> 35 <sup>m</sup> 13.168 <sup>s</sup> -9°12'15.568"	30.5	171	142.7	-13.3	9.5	21.1	91.4	123
2020/07/08 01:02:18	6378 SE13	9.1	17.37	3.79	141	0.7	34°33'41" 50°40'21"	299	1.6	UCAC4 334-194312	13.61	18 <sup>h</sup> 59 <sup>m</sup> 54.936 <sup>s</sup> -23°16'30.197"	2.9	228	177.6	-4.8	37.1	20.5	91.1	136
2020/07/08 18:06:04	23617 Duma	8.7	17.89	5.19	198	0.7	36°08'48" 51°49'34"	357	0.9	UCAC4 465-106593	12.71	19 <sup>h</sup> 32 <sup>m</sup> 59.373 <sup>s</sup> 2°57'51.291"	22.2	113	154.2	-3.8	44.0	-17.5	86.6	138
2020/07/08 19:02:57	5442 Drossart	8.3	16.89	3.15	159	0.8	35°04'49" 48°51'23"	213	1.1	UCAC4 322-146544	13.80	18 <sup>h</sup> 14 <sup>m</sup> 38.241 <sup>s</sup> -25°39'54.769"	11.3	158	166.3	-9.9	56.8	-8.6	86.3	111
2020/07/08 19:46:20	20676 VA7	9.1	17.89	4.34	82	0.6	37°06'39" 49°32'27"	134	2.2	UCAC4 372-103108	13.57	17 <sup>h</sup> 51 <sup>m</sup> 13.400 <sup>s</sup> -15°39'27.122"	24.1	172	159.6	-13.6	63.7	-2.1	86.1	144
2020/07/08 19:56:03	5971 Tickell	10.5	15.37	2.15	246	1.4	39°42'44" 50°18'50"	83	0.0	UCAC4 301-128383	13.38	17 <sup>h</sup> 20 <sup>m</sup> 32.071 <sup>s</sup> -29°50'28.702"	10.2	182	153.8	-14.2	68.8	-0.7	86.1	75
2020/07/08 20:55:57	1297 Quadea	66.0	15.43	1.83	10	5.2	36°10'22" 50°00'08"	238	20.5	UCAC4 316-199499	13.82	18 <sup>h</sup> 30 <sup>m</sup> 24.173 <sup>s</sup> -26°53'59.529"	13.2	180	169.3	-17.1	54.2	7.6	85.7	127
2020/07/08 22:07:35	3164 Prast	19.1	17.50	3.88	102	1.4	35°27'53" 50°47'45"	325	4.1	UCAC4 325-149565	13.65	18 <sup>h</sup> 19 <sup>m</sup> 01.029 <sup>s</sup> -25°08'57.513"	12.7	199	167.3	-17.5	57.4	16.0	85.4	146
2020/07/08 23:03:46	7318 Dyukov	10.0	16.73	2.93	111	0.6	36°18'25" 49°02'54"	179	2.1	UCAC4 433-1021	13.88	0 <sup>h</sup> 47 <sup>m</sup> 54.714 <sup>s</sup> -3°25'48.930"	14.6	114	97.2	-15.4	37.3	21.0	85.1	100
2020/07/08 23:05:02	16943 1998 HP42	9.5	16.73	3.17	186	0.8	35°46'01" 48°24'27"	191	0.8	UCAC4 278-196634	13.62	18 <sup>h</sup> 26 <sup>m</sup> 32.580 <sup>s</sup> -34°28'55.596"	0.6	207	164.0	-15.3	56.5	21.1	85.1	107
2020/07/09 00:25:13	3164 Prast	19.1	17.50	4.01	255	1.4	33°23'27" 48°45'06"	235	1.2	UCAC4 325-149360	13.52	18 <sup>h</sup> 18 <sup>m</sup> 56.452 <sup>s</sup> -25°09'00.556"	0.4	228	167.2	-8.9	58.7	25.0	84.7	146
2020/07/09 00:45:33	15104 2000 BV3	9.1	16.81	3.00	232	0.8	34°14'22" 51°41'18"	321	0.3	UNKNOWN UN- KNOWN	13.88	18 <sup>h</sup> 19 <sup>m</sup> 38.643 <sup>s</sup> -19°28'59.318"	2.7	235	167.1	-6.8	59.1	25.4	84.6	107
2020/07/09 17:37:51	1248 Jugurtha	34.7	15.45	2.55	198	1.2	34°03'06" 49°01'27"	235	4.1	UCAC4 493-58330	13.01	11 <sup>h</sup> 57 <sup>m</sup> 54.389 <sup>s</sup> 8°30'11.503"	31.9	242	68.6	-0.3	165.5	-25.8	79.3	164

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	Phase (%)	$\sigma_{km}$	
2020/07/09 18:10:22	2575 Bulgaria	18.8	14.71	1.41	17	3.0	36°31'28'' 50°01'58''	96	11.8 12.3	UCAC4 303-229826	13.64	18 <sup>h</sup> 24 <sup>m</sup> 38.703 <sup>s</sup> -29°25'04.626''	3.4	147	166.3	-4.4	66.3	-20.7	79.1	61
2020/07/09 18:59:50	2575 Bulgaria	18.8	14.71	2.07	157	3.0	34°38'38'' 49°07'43''	229	0.5 12.3	UCAC4 303-229771	12.81	18 <sup>h</sup> 24 <sup>m</sup> 36.579 <sup>s</sup> -29°24'58.398''	7.2	157	166.2	-9.7	66.7	-12.9	78.9	61
2020/07/09 22:46:42	6458 Nouda	8.3	16.18	5.34	159	1.0	36°10'40'' 51°28'14''	357	0.5 4.2	UCAC4 472-97514	10.84	19 <sup>h</sup> 29 <sup>m</sup> 26.907 <sup>s</sup> 4°20'59.415''	43.0	199	153.2	-16.4	57.1	19.4	77.5	78
2020/07/09 23:13:14	1720 Niels	9.1	16.27	3.74	238	1.2	38°19'25'' 48°22'32''	142	0.1 4.3	UCAC4 339-87854	12.57	17 <sup>h</sup> 10 <sup>m</sup> 14.996 <sup>s</sup> -22°13'15.808''	2.8	230	150.6	-14.9	86.3	22.1	77.4	84
2020/07/10 00:16:47	20001 1991 CM	10.5	16.33	2.86	202	0.9	37°52'54'' 48°33'54''	145	0.6 4.0	UCAC4 383-142978	13.55	19 <sup>h</sup> 17 <sup>m</sup> 18.800 <sup>s</sup> -13°26'04.259''	17.8	221	171.2	-9.9	57.8	27.2	77.0	105
2020/07/10 17:50:14	3527 McCord	9.5	15.27	1.95	163	1.4	35°37'31'' 48°39'03''	197	0.4 5.4	UCAC4 378-106673	13.51	18 <sup>h</sup> 13 <sup>m</sup> 00.662 <sup>s</sup> -14°25'24.106''	16.6	139	162.2	-2.0	81.8	-26.7	70.8	70
2020/07/10 18:29:32	31306 1998 FZ104	8.3	18.38	5.16	145	3.0	38°18'09'' 50°10'10''	85	1.4 2.3	UCAC4 361-71890	13.23	15 <sup>h</sup> 32 <sup>m</sup> 27.737 <sup>s</sup> -17°52'32.537''	21.7	190	126.5	-6.7	119.0	-20.8	70.7	146
2020/07/10 19:20:02	337804 2001 UN216	8.7	20.40	8.60	81	3.2	35°22'57'' 50°29'43''	308	1.1 1.1	UCAC4 342-69847	11.80	14 <sup>h</sup> 32 <sup>m</sup> 39.965 <sup>s</sup> -21°38'09.012''	11.2	215	113.8	-11.7	131.1	-12.9	70.0	309
2020/07/10 19:42:06	1122 Neith	11.6	15.66	2.35	171	1.0	36°26'43'' 51°34'57''	4	1.0 4.7	UCAC4 312-156101	13.44	18 <sup>h</sup> 08 <sup>m</sup> 11.988 <sup>s</sup> -27°39'53.587''	11.8	170	162.6	-13.5	82.8	-9.4	70.1	99
2020/07/10 21:29:56	3254 Bus	19.1	16.27	3.05	74	1.5	36°50'46'' 49°29'26''	147	4.4 4.9	UCAC4 311-246130	13.28	19 <sup>h</sup> 10 <sup>m</sup> 36.559 <sup>s</sup> -27°58'53.606''	12.1	180	173.6	-18.0	70.0	7.5	69.5	155
2020/07/10 22:43:52	18369 1991 LM	8.3	15.73	3.26	199	0.8	33°55'10'' 51°00'32''	302	0.2 4.1	UCAC4 330-183303	12.53	19 <sup>h</sup> 01 <sup>m</sup> 32.776 <sup>s</sup> -24°07'16.276''	13.6	200	174.9	-16.6	72.5	18.0	69.0	81
2020/07/10 23:53:45	6212 Franzthaler	9.1	15.78	3.12	38	1.0	36°24'59'' 49°42'57''	166	3.6 3.9	UCAC4 419-88311	12.72	18 <sup>h</sup> 42 <sup>m</sup> 56.487 <sup>s</sup> -6°23'16.637''	22.4	227	161.7	-12.1	78.2	26.3	68.5	92
2020/07/11 19:50:38	1848 Delvaux	20.9	14.96	1.81	63	2.3	36°37'06'' 50°34'37''	22	6.6 8.0	UNKNOWN UN- KNOWN	13.38	17 <sup>h</sup> 57 <sup>m</sup> 27.766 <sup>s</sup> -25°16'12.842''	14.7	175	159.7	-14.2	97.4	-10.8	61.0	104
2020/07/11 21:25:47	5326 Vittorio- riosacco	9.1	15.89	3.83	224	1.1	34°21'19'' 51°39'07''	322	0.1 4.7	UCAC4 458-77121	12.09	18 <sup>h</sup> 07 <sup>m</sup> 03.658 <sup>s</sup> 1°34'19.437''	39.8	201	149.6	-18.1	97.6	4.3	60.3	78
2020/07/11 21:51:04	2965 Surikov	10.5	15.27	2.36	22	0.8	36°29'28'' 49°53'42''	139	5.6 5.8	UCAC4 416-109120	13.04	18 <sup>h</sup> 55 <sup>m</sup> 16.556 <sup>s</sup> -6°50'28.707''	32.5	192	163.2	-18.1	85.5	8.3	60.2	72
2020/07/11 23:50:47	18922 2000 PU12	9.5	16.62	3.34	13	0.7	36°19'35'' 50°09'54''	12	3.5 3.5	UCAC4 361-189532	13.34	19 <sup>h</sup> 27 <sup>m</sup> 43.804 <sup>s</sup> -17°57'48.256''	16.3	212	176.0	-12.5	78.6	25.6	59.4	108
2020/07/12 00:56:53	8228 1996 YB2	9.5	16.92	3.27	158	0.9	37°00'58'' 48°42'26''	161	1.2 3.6	UCAC4 424-74371	13.71	17 <sup>h</sup> 55 <sup>m</sup> 18.402 <sup>s</sup> -5°20'00.151''	7.3	253	152.5	-5.9	101.9	33.1	59.0	107
2020/07/12 22:57:29	9999 Wiles	8.3	16.89	3.40	44	1.0	35°55'02'' 50°21'57''	323	3.0 3.2	UCAC4 325-117156	13.54	17 <sup>h</sup> 46 <sup>m</sup> 51.468 <sup>s</sup> -25°04'38.317''	4.9	220	156.2	-16.2	113.3	16.2	50.3	102
2020/07/12 23:35:57	1978 Patrice	8.7	14.54	2.17	212	4.1	39°14'37'' 49°56'51''	93	0.0 7.3	UCAC4 337-202005	12.52	21 <sup>h</sup> 48 <sup>m</sup> 22.065 <sup>s</sup> -22°47'32.233''	17.1	175	148.1	-13.8	59.3	22.0	49.8	48
2020/07/13 00:44:15	4132 Bartok	10.5	16.22	2.91	27	0.6	36°27'37'' 49°49'59''	153	4.1 4.3	UCAC4 495-1200	13.39	0 <sup>h</sup> 47 <sup>m</sup> 58.376 <sup>s</sup> 8°54'39.641''	40.6	135	96.3	-7.5	10.8	31.5	49.6	98

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 (%)	$\sigma_{km}$	
2020/07/13 18:06:46	8340 Mumma	12.6	16.15	3.24	177	1.1	37°25'36" 51°27'52"	27	1.2	UCAC4 368-180258	12.97	20 <sup>h</sup> 01 <sup>m</sup> 05.414 <sup>s</sup> -16°34'33.418"	5.1	123	171.6	-4.4	91.3	-27.0	42.8	109	
2020/07/13 18:20:42	1555 Dejan	15.8	14.90	1.59	164	1.7	34°37'47" 49°02'05"	226	1.1	UCAC4 303-204248	13.60	18 <sup>h</sup> 13 <sup>m</sup> 07.191 <sup>s</sup> -29°34'34.853"	6.2	154	160.4	-6.0	116.4	-25.7	42.7	83	
2020/07/13 19:00:10	5070 Arai	15.1	17.49	3.62	65	0.5	36°15'43" 50°38'02"	358	3.2	UCAC4 438-55134	13.91	11 <sup>h</sup> 48 <sup>m</sup> 48.083 <sup>s</sup> -2°27'54.705"	6.9	258	66.9	-10.2	147.1	-21.4	42.4	174	
2020/07/13 23:04:33	871 Ammeris	12.2	14.81	2.39	111	1.7	37°11'36" 49°14'35"	144	1.6	UCAC4 368-148857	12.55	18 <sup>h</sup> 42 <sup>m</sup> 50.440 <sup>s</sup> -16°32'24.722"	17.1	214	166.9	-16.0	112.5	14.6	40.8	62	
2020/07/13 23:37:20	997 Priska	18.7	18.20	5.44	208	0.6	38°25'39" 48°48'12"	132	2.2	UCAC4 569-8384	12.77	3 <sup>h</sup> 47 <sup>m</sup> 56.038 <sup>s</sup> 23°44'36.721"	15.5	71	51.8	-13.8	28.4	19.8	40.6	208	
2020/07/14 00:11:33	3158 Anga	10.5	16.63	4.98	188	1.0	35°44'04" 51°42'06"	348	0.8	UCAC4 445-77385	11.66	18 <sup>h</sup> 05 <sup>m</sup> 24.506 <sup>s</sup> -1°01'03.787"	17.9	246	150.1	-10.9	120.8	25.1	40.4	105	
2020/07/14 20:18:57	2604 Marshak	18.0	14.79	1.48	159	2.2	38°26'50" 49°44'02"	103	1.1	UCAC4 382-111945	13.62	18 <sup>h</sup> 33 <sup>m</sup> 18.773 <sup>s</sup> -13°42'48.846"	26.3	176	162.9	-16.4	125.0	-12.9	32.6	77	
2020/07/15 18:21:23	36 Atalante	105.6	13.28	1.90	237	2.1	39°21'23" 50°53'27"	67	10.1	UCAC4 616-42033	11.59	7 <sup>h</sup> 45 <sup>m</sup> 02.866 <sup>s</sup> 33°02'36.496"	4.3	320	11.8	-6.3	59.6	-23.2	24.6	185	
2020/07/15 19:11:44	2575 Bulgaria	18.8	14.89	1.98	9	3.3	36°23'41" 50°04'57"	63	11.9	UCAC4 305-225623	13.11	18 <sup>h</sup> 19 <sup>m</sup> 01.273 <sup>s</sup> -29°04'19.130"	9.6	165	159.9	-11.6	139.4	-20.4	24.4	62	
2020/07/15 20:11:06	2604 Marshak	18.0	14.81	1.35	115	2.2	37°51'01" 49°49'16"	103	3.1	UCAC4 381-114976	13.83	18 <sup>h</sup> 32 <sup>m</sup> 36.311 <sup>s</sup> -13°58'36.491"	26.0	175	162.0	-16.1	136.9	-15.2	23.9	77	
2020/07/15 21:55:39	33256 1998 HK35	8.3	17.48	4.03	178	0.7	37°25'11" 48°37'46"	153	0.9	UCAC4 412-118122	13.48	19 <sup>h</sup> 37 <sup>m</sup> 34.929 <sup>s</sup> -7°42'48.995"	32.2	186	166.3	-18.7	120.8	-2.5	23.3	121	
2020/07/15 22:21:08	8231 Tetsu-jiyamada	8.3	17.09	5.49	238	0.8	38°26'15" 48°26'11"	139	0.3	UCAC4 320-182215	11.61	18 <sup>h</sup> 26 <sup>m</sup> 23.179 <sup>s</sup> -26°09'02.490"	9.6	206	162.1	-18.2	139.9	1.1	23.2	111	
2020/07/15 23:23:42	1211 Bressole	38.2	14.82	1.81	17	3.8	36°19'49" 50°11'45"	11	15.4	UCAC4 383-101862	13.24	18 <sup>h</sup> 12 <sup>m</sup> 52.674 <sup>s</sup> -13°33'35.863"	13.7	228	157.4	-15.1	143.2	10.4	22.8	97	
2020/07/16 01:30:26	4152 Weber	18.2	17.13	4.56	174	1.4	36°17'46" 48°29'04"	180	2.3	UCAC4 474-110518	12.59	20 <sup>h</sup> 02 <sup>m</sup> 42.588 <sup>s</sup> 4°42'32.324"	27.0	243	153.4	-2.4	112.7	30.3	22.1	135	
2020/07/16 17:45:28	9675 1998 QK36	8.3	16.99	5.03	144	0.8	37°12'14" 48°53'48"	153	1.3	UCAC4 429-103364	11.97	19 <sup>h</sup> 47 <sup>m</sup> 11.334 <sup>s</sup> -4°18'49.499"	15.8	117	163.1	-2.1	127.0	-20.5	16.8	109	
2020/07/16 18:30:31	1352 Wavel	24.0	15.14	2.24	8	2.1	36°23'01" 50°00'18"	124	9.2	UCAC4 366-158500	13.04	19 <sup>h</sup> 00 <sup>m</sup> 36.717 <sup>s</sup> -16°58'58.203"	15.9	144	168.7	-7.5	141.9	-20.6	16.6	103	
2020/07/16 19:36:27	59767 1999 NR10	8.3	17.18	5.68	246	0.8	33°39'14" 48°39'30"	231	0.3	UCAC4 306-239690	11.51	18 <sup>h</sup> 27 <sup>m</sup> 21.169 <sup>s</sup> -28°56'42.315"	10.5	170	160.7	-13.8	150.1	-18.4	16.2	114	
2020/07/16 19:37:06	1848 Delvaux	20.9	15.07	2.87	113	2.6	36°49'37" 51°00'26"	20	4.4	UCAC4 324-119528	12.28	17 <sup>h</sup> 53 <sup>m</sup> 52.235 <sup>s</sup> -25°12'47.105"	14.8	177	154.1	-13.9	158.1	-18.3	16.2	106	
2020/07/16 21:00:32	5995 Saint-Aignan	8.3	16.57	4.14	182	0.9	34°10'44" 50°59'03"	305	0.5	UCAC4 327-129175	12.46	18 <sup>h</sup> 16 <sup>m</sup> 26.708 <sup>s</sup> -24°43'04.403"	14.5	192	159.2	-18.4	153.9	-11.8	15.8	94	
2020/07/16 21:09:09	6560 Pravdo	8.7	15.71	2.07	159	0.7	35°09'26" 48°49'07"	211	0.4	UCAC4 459-119291	13.82	21 <sup>h</sup> 09 <sup>m</sup> 07.486 <sup>s</sup> 1°41'17.292"	36.1	144	149.3	-18.6	107.3	-10.9	15.8	72	

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 (%)	$\sigma_{km}$
2020/07/16 22:18:56	6634 1987 KB	10.0	14.13	1.42	191	2.3	38°14'27'' 51°14'11''	47	0.2	UCAC4 418-80165	13.05	18 <sup>h</sup> 24 <sup>m</sup> 35.116 <sup>s</sup> −6°35'41.707''	27.8	214	155.5	−18.4	148.8	−2.9	15.4	74
2020/07/16 22:31:30	6828 Elbsteel	8.3	17.62	4.10	117	0.7	35°03'51'' 50°44'47''	312	1.7	UCAC4 350-122637	13.54	17 <sup>h</sup> 58 <sup>m</sup> 02.784 <sup>s</sup> −20°04'47.833''	11.6	218	154.8	−18.0	159.1	−1.2	15.3	119
2020/07/17 00:29:07	893 Leopoldina	76.1	13.69	2.69	258	6.1	38°04'10'' 48°02'35''	150	1.5	TYC 5722-1181-1	11.10	19 <sup>h</sup> 28 <sup>m</sup> 01.413 <sup>s</sup> −7°41'34.772''	19.5	230	165.8	−9.7	135.9	15.7	14.7	104
2020/07/17 01:03:14	1319 Disa	25.1	16.96	3.20	39	0.6	36°41'41'' 49°49'15''	131	4.1	UCAC4 567-17690	13.81	5 <sup>h</sup> 34 <sup>m</sup> 33.608 <sup>s</sup> 23°20'17.903''	13.9	70	30.5	−5.9	14.4	21.0	14.6	241
2020/07/17 18:39:06	1297 Quadea	66.0	15.62	1.99	108	5.7	37°24'18'' 50°42'00''	48	14.4	UCAC4 318-182981	13.82	18 <sup>h</sup> 22 <sup>m</sup> 56.019 <sup>s</sup> −26°35'46.136''	10.6	159	159.5	−8.6	163.4	−17.8	9.7	129
2020/07/17 18:55:11	2441 Hibbs	9.9	16.89	3.31	60	1.5	35°59'39'' 50°33'23''	340	3.8	UCAC4 354-111809	13.63	17 <sup>h</sup> 51 <sup>m</sup> 52.464 <sup>s</sup> −19°13'21.570''	20.1	168	152.4	−10.3	170.6	−18.0	9.6	78
2020/07/17 19:01:27	1608 Munoz	9.5	14.07	0.80	194	1.8	38°17'14'' 51°14'13''	47	0.0	UCAC4 304-260920	13.98	19 <sup>h</sup> 41 <sup>m</sup> 46.583 <sup>s</sup> −29°15'26.814''	4.0	148	171.6	−10.9	146.0	−18.0	9.6	51
2020/07/17 20:44:07	2460 Mitlincoln	10.5	15.80	2.12	121	1.0	35°37'25'' 51°02'43''	337	1.8	UCAC4 365-160068	13.85	18 <sup>h</sup> 56 <sup>m</sup> 18.287 <sup>s</sup> −17°00'13.497''	23.1	179	166.8	−18.0	156.3	−14.8	9.2	84
2020/07/17 21:10:56	3169 Ostro	9.5	14.88	2.42	144	0.8	34°19'19'' 50°21'36''	284	0.3	UCAC4 283-204074	12.58	18 <sup>h</sup> 48 <sup>m</sup> 28.686 <sup>s</sup> −33°30'42.955''	6.2	187	161.5	−18.8	157.4	−12.9	9.0	58
2020/07/17 22:52:28	4490 Bamberg	8.3	15.97	2.93	224	0.6	37°48'17'' 48°17'49''	151	0.0	UCAC4 475-67447	13.12	17 <sup>h</sup> 43 <sup>m</sup> 51.116 <sup>s</sup> 4°49'43.511''	28.7	240	139.7	−17.3	152.2	−2.8	8.6	65
2020/07/17 23:25:36	1336 Zee-landia	21.0	14.36	1.37	67	2.2	36°55'27'' 49°36'50''	137	6.9	UCAC4 331-179055	13.36	18 <sup>h</sup> 42 <sup>m</sup> 47.082 <sup>s</sup> −23°48'27.503''	6.9	219	164.2	−15.3	161.9	1.3	8.5	95
2020/07/18 00:25:21	109 Felicitas	89.4	13.43	0.89	191	2.1	34°33'03'' 51°21'40''	320	9.7	UCAC4 578-11348	13.18	4 <sup>h</sup> 19 <sup>m</sup> 54.641 <sup>s</sup> 25°34'53.957''	21.8	76	48.2	−10.2	15.4	9.4	8.3	132
2020/07/18 01:29:00	6694 1986 PF	8.7	16.13	2.44	175	0.9	35°44'41'' 51°34'47''	347	0.6	UCAC4 373-167556	13.82	19 <sup>h</sup> 17 <sup>m</sup> 08.332 <sup>s</sup> −15°31'32.138''	3.0	241	170.4	−2.9	153.5	18.8	8.0	88
2020/07/18 01:39:04	1029 La Plata	20.8	16.76	3.36	166	0.5	35°01'28'' 51°18'24''	327	2.9	UCAC4 571-15695	13.45	5 <sup>h</sup> 12 <sup>m</sup> 46.379 <sup>s</sup> 24°10'01.159''	24.1	80	36.4	−1.6	4.0	20.4	8.0	199
2020/07/18 17:37:41	2441 Hibbs	9.9	16.91	3.93	74	1.5	36°10'09'' 50°42'25''	353	3.2	UCAC4 354-111497	13.01	17 <sup>h</sup> 51 <sup>m</sup> 10.363 <sup>s</sup> −19°15'34.542''	15.9	151	151.4	−1.3	174.4	−10.5	4.6	78
2020/07/18 18:19:08	2575 Bulgaria	18.8	14.98	1.56	55	3.6	36°49'10'' 50°24'19''	44	8.1	UCAC4 306-218626	13.72	18 <sup>h</sup> 16 <sup>m</sup> 37.880 <sup>s</sup> −28°53'01.451''	7.8	157	156.7	−6.5	174.4	−13.4	4.5	63
2020/07/18 18:40:52	1652 Herge	11.5	16.15	3.36	111	0.6	36°13'53'' 49°03'01''	182	2.4	UCAC4 394-54594	12.84	13 <sup>h</sup> 40 <sup>m</sup> 15.899 <sup>s</sup> −11°18'43.732''	15.6	230	91.0	−8.9	115.3	−14.6	4.4	91
2020/07/18 20:07:40	13291 1998 QH77	8.7	18.06	4.14	51	0.8	35°38'07'' 49°51'24''	245	2.2	UCAC4 298-129127	13.95	17 <sup>h</sup> 33 <sup>m</sup> 15.872 <sup>s</sup> −30°31'26.008''	8.8	190	147.1	−16.4	169.0	−16.3	4.2	148
2020/07/18 21:16:58	434 Hungaria	19.1	14.21	1.48	153	2.6	35°56'43'' 51°24'29''	351	0.7	UCAC4 523-152187	13.05	23 <sup>h</sup> 54 <sup>m</sup> 20.065 <sup>s</sup> 14°28'50.764''	26.5	99	111.1	−19.1	88.9	−14.4	4.0	65
2020/07/18 21:26:09	3169 Ostro	9.5	14.91	1.38	230	0.8	33°06'41'' 50°24'44''	280	0.0	UCAC4 282-196556	13.88	18 <sup>h</sup> 47 <sup>m</sup> 01.661 <sup>s</sup> −33°46'35.891''	5.5	191	160.3	−19.2	167.9	−14.0	3.9	59

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	Dist	Alt	Phase (%)	$\sigma_{km}$
2020/07/18 21:42:03	2441 Hibbs	9.9	16.91	3.45	156	1.6	37°38'31" 48°57'14"	141	0.7	UCAC4 354-111447	13.51	17 <sup>h</sup> 51 <sup>m</sup> 02.619 <sup>s</sup> -19°15'58.454"	15.5	210	151.2	-19.3	172.6	-13.0	3.9	78
2020/07/19 01:25:49	2590 Mourao	10.5	15.33	2.18	109	1.1	35°59'42" 51°00'19"	349	1.9	UCAC4 405-125243	13.31	20 <sup>h</sup> 11 <sup>m</sup> 05.427 <sup>s</sup> -9°10'58.127"	15.5	234	167.7	-3.5	150.8	11.3	3.3	75
2020/07/19 17:58:18	922 Schlutia	12.6	15.34	2.10	110	2.1	35°59'55" 51°01'11"	349	2.6	UCAC4 393-80767	13.41	17 <sup>h</sup> 58 <sup>m</sup> 24.326 <sup>s</sup> -11°24'45.794"	24.7	152	150.1	-4.1	159.8	-7.1	1.2	90
2020/07/19 22:02:11	4215 Kamo	9.5	15.93	3.12	137	0.9	36°49'52" 48°51'59"	164	1.2	UCAC4 376-161194	12.87	19 <sup>h</sup> 23 <sup>m</sup> 47.261 <sup>s</sup> -14°58'10.412"	24.0	195	170.1	-19.3	170.8	-14.8	0.8	86
2020/07/19 23:00:27	2441 Hibbs	9.9	16.93	3.53	161	1.6	35°00'25" 51°14'28"	325	0.6	UNKNOWN UN- KNOWN	13.45	17 <sup>h</sup> 50 <sup>m</sup> 17.542 <sup>s</sup> -19°18'28.584"	6.9	229	150.0	-17.3	159.1	-11.5	0.7	78
2020/07/19 23:06:09	2167 Erin	12.6	15.92	3.35	159	1.2	37°13'40" 48°45'24"	155	1.4	UCAC4 363-164721	12.62	18 <sup>h</sup> 49 <sup>m</sup> 34.825 <sup>s</sup> -17°30'27.137"	14.4	218	163.5	-16.9	170.8	-11.0	0.7	101
2020/07/19 23:12:12	2541 Edebono	13.2	16.44	3.55	246	1.2	38°40'29" 48°28'40"	136	0.5	UCAC4 324-185566	12.93	18 <sup>h</sup> 43 <sup>m</sup> 35.363 <sup>s</sup> -25°20'16.750"	6.1	217	162.2	-16.6	172.0	-10.6	0.7	119
2020/07/19 23:38:25	3037 Alku	18.9	16.64	3.12	224	1.5	33°32'11" 51°03'11"	300	1.5	UCAC4 360-121853	13.59	17 <sup>h</sup> 50 <sup>m</sup> 11.650 <sup>s</sup> -18°09'48.289"	3.0	237	149.8	-14.8	158.4	-8.4	0.7	141
2020/07/20 00:11:57	742 Edisona	45.6	13.77	1.00	137	7.3	38°11'46" 49°55'13"	96	7.3	UCAC4 327-200001	13.32	22 <sup>h</sup> 52 <sup>m</sup> 38.282 <sup>s</sup> -24°40'10.755"	15.2	175	139.7	-11.9	132.1	-5.1	0.6	103
2020/07/20 00:40:52	943 Begonia	69.2	15.40	2.23	42	1.7	36°51'57" 50°07'16"	79	14.8	UCAC4 523-9976	13.32	4 <sup>h</sup> 54 <sup>m</sup> 12.896 <sup>s</sup> 14°27'23.162"	11.8	82	44.2	-8.9	36.0	-1.9	0.6	180
2020/07/20 00:49:15	6039 Par-menides	13.8	16.87	4.09	127	1.2	36°54'00" 48°58'26"	160	2.6	UCAC4 443-127134	12.80	20 <sup>h</sup> 53 <sup>m</sup> 29.096 <sup>s</sup> -1°27'00.235"	31.2	220	156.5	-8.0	148.5	-1.0	0.6	134
2020/07/20 01:01:34	41379 ASI05	17.4	19.01	7.26	100	1.2	37°17'39" 50°40'12"	46	2.3	UCAC4 352-1637	11.75	1 <sup>h</sup> 32 <sup>m</sup> 27.861 <sup>s</sup> -19°38'05.997"	14.5	148	102.6	-6.6	95.8	0.5	0.6	287
2020/07/20 01:04:51	1685 Toro	12.2	14.61	1.49	190	0.6	38°17'39" 48°56'36"	131	0.0	UCAC4 594-2886	13.44	1 <sup>h</sup> 07 <sup>m</sup> 34.869 <sup>s</sup> 28°36'21.864"	61.0	128	90.6	-6.2	81.9	0.9	0.6	19
2020/07/20 01:28:42	19726 XL	9.1	18.36	4.39	173	0.6	38°14'42" 49°09'15"	125	1.3	UCAC4 489-2454	13.99	1 <sup>h</sup> 48 <sup>m</sup> 22.463 <sup>s</sup> 7°36'58.282"	40.8	139	89.6	-3.3	81.3	3.9	0.6	155
2020/07/20 17:42:43	1433 Ger-antina	15.8	16.28	3.37	80	1.4	37°20'20" 50°17'10"	71	4.2	UCAC4 295-181859	12.96	18 <sup>h</sup> 15 <sup>m</sup> 36.049 <sup>s</sup> -31°05'51.173"	3.8	152	154.1	-2.3	154.7	0.1	0.1	120
2020/07/20 18:54:48	1709 Ukraina	11.0	15.97	2.89	151	2.7	38°11'22" 49°28'25"	115	1.0	UCAC4 316-82818	13.16	15 <sup>h</sup> 52 <sup>m</sup> 57.885 <sup>s</sup> -26°59'48.205"	10.9	199	123.4	-10.7	123.2	-8.0	0.1	83
2020/07/20 21:08:11	3549 Hapke	10.5	17.43	4.37	62	2.1	35°26'46" 50°10'48"	284	2.9	UCAC4 323-89595	13.08	16 <sup>h</sup> 43 <sup>m</sup> 57.507 <sup>s</sup> -25°25'58.964"	6.1	217	134.5	-19.3	132.8	-16.8	0.1	127
2020/07/20 21:38:56	31341 KH55	8.3	17.63	4.21	196	1.0	33°57'22" 49°09'00"	239	0.7	UCAC4 382-163164	13.44	23 <sup>h</sup> 00 <sup>m</sup> 40.741 <sup>s</sup> -13°37'35.548"	15.2	135	136.8	-19.6	139.5	-17.4	0.1	117
2020/07/20 21:48:11	1924 Horus	12.3	17.14	3.87	142	1.3	35°13'15" 51°07'60"	328	1.6	UCAC4 314-209149	13.30	18 <sup>h</sup> 32 <sup>m</sup> 51.796 <sup>s</sup> -27°12'37.588"	9.9	202	158.6	-19.6	156.7	-17.4	0.1	91
2020/07/20 22:13:07	814 Tauris	109.5	14.79	1.52	273	13.5	36°32'30" 47°36'15"	176	6.8	UCAC4 388-68706	13.58	15 <sup>h</sup> 52 <sup>m</sup> 52.177 <sup>s</sup> -12°28'35.714"	2.5	247	120.1	-19.3	117.1	-17.3	0.1	163



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			
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	Phase (%)		
2020/07/20 22:36:07	2469 Tadjik-istan	10.5	16.41	2.93	239	1.2	34°10'19" 51°43'36"	321	0.3	UCAC4 389-93145	13.55	18 <sup>h</sup> 29 <sup>m</sup> 33.025 <sup>s</sup> -12°13'23.053"	19.9	219	156.4	-18.6	152.6	-16.9	0.1	103
2020/07/21 01:52:12	5515 Naderi	8.3	16.26	3.46	78	0.9	37°03'56" 49°33'50"	134	2.6	UCAC4 434-85841	12.85	19 <sup>h</sup> 01 <sup>m</sup> 35.298 <sup>s</sup> -3°16'10.019"	5.0	259	157.3	-0.4	152.3	-1.6	0.2	86
2020/07/21 17:44:47	11183 1998 GB7	8.7	16.46	3.46	143	1.0	38°13'35" 49°45'50"	103	1.1	UCAC4 339-114686	13.05	18 <sup>h</sup> 01 <sup>m</sup> 59.638 <sup>s</sup> -22°13'06.260"	13.7	153	151.3	-2.7	138.1	5.4	1.4	91
2020/07/21 17:47:17	614 Pia	25.8	15.25	1.99	163	2.3	36°00'39" 48°35'34"	187	3.5	UCAC4 386-114415	13.44	18 <sup>h</sup> 47 <sup>m</sup> 50.683 <sup>s</sup> -12°56'18.869"	18.5	140	160.1	-3.0	146.9	5.1	1.4	122
2020/07/21 18:44:17	2073 Janacek	9.1	17.58	4.72	70	1.3	36°14'50" 50°40'44"	358	2.5	UCAC4 332-102145	12.87	17 <sup>h</sup> 23 <sup>m</sup> 19.865 <sup>s</sup> -23°47'09.021"	16.2	177	142.4	-9.8	128.9	-2.6	1.5	123
2020/07/21 20:03:59	3164 Prast	19.1	17.76	4.61	145	1.7	35°49'17" 51°18'49"	347	3.2	UCAC4 324-132770	13.16	18 <sup>h</sup> 09 <sup>m</sup> 45.991 <sup>s</sup> -25°14'08.568"	14.7	185	152.9	-16.7	138.7	-11.5	1.6	151
2020/07/21 22:53:03	837 Schwarzschilda	11.5	15.62	3.20	86	2.0	35°38'28" 50°42'08"	328	3.2	UCAC4 389-81359	12.48	17 <sup>h</sup> 48 <sup>m</sup> 07.582 <sup>s</sup> -12°19'28.058"	12.6	233	146.1	-18.0	129.8	-20.2	2.0	80
2020/07/22 01:11:24	287 Nephthys	67.6	13.42	0.54	226	1.6	37°44'21" 48°14'54"	153	6.5	UCAC4 529-13379	13.89	5 <sup>h</sup> 26 <sup>m</sup> 01.051 <sup>s</sup> 15°42'13.420"	13.8	82	38.3	-5.8	55.8	-14.2	2.3	169
2020/07/22 18:33:00	4332 Milton	11.5	16.25	2.49	152	1.2	34°24'43" 50°42'17"	299	1.0	UCAC4 477-67984	13.87	17 <sup>h</sup> 46 <sup>m</sup> 01.148 <sup>s</sup> 5°17'57.239"	44.5	165	136.6	-8.7	113.0	3.5	5.5	81
2020/07/22 20:27:35	2469 Tadjik-istan	10.5	16.44	4.29	70	1.2	37°00'02" 49°37'31"	133	3.2	UCAC4 389-92784	12.18	18 <sup>h</sup> 28 <sup>m</sup> 22.517 <sup>s</sup> -12°22'43.571"	27.4	188	154.6	-18.2	127.1	-11.7	5.9	104
2020/07/22 21:41:18	4737 Kiladze	9.1	15.87	3.07	230	1.0	33°56'51" 51°29'25"	314	0.1	UCAC4 359-194227	12.86	19 <sup>h</sup> 48 <sup>m</sup> 32.915 <sup>s</sup> -18°17'36.874"	21.6	186	174.7	-20.0	146.3	-19.0	6.2	86
2020/07/22 21:57:25	2828 Iku-Turso	8.3	16.56	3.35	134	1.1	37°35'58" 49°11'46"	135	1.1	UCAC4 321-129429	13.26	18 <sup>h</sup> 02 <sup>m</sup> 36.635 <sup>s</sup> -25°57'40.336"	7.6	212	150.2	-19.9	121.9	-20.2	6.2	85
2020/07/22 22:04:26	1393 Sofala	12.6	15.22	2.20	127	1.6	37°55'39" 49°37'44"	112	1.7	UCAC4 331-210875	13.17	21 <sup>h</sup> 45 <sup>m</sup> 10.592 <sup>s</sup> -23°51'31.880"	14.5	163	157.6	-19.8	170.2	-20.7	6.2	77
2020/07/23 01:24:49	0 2014 WR510	105.7	22.40	8.41	239	3.1	39°24'57" 49°20'29"	109	0.9	UNKNOWN UN- KNOWN	13.99	6 <sup>h</sup> 45 <sup>m</sup> 55.756 <sup>s</sup> 12°58'31.996"	1.9	72	21.4	-4.3	51.3	-21.2	7.0	4943
2020/07/23 18:07:00	1555 Dejan	15.8	15.08	1.59	15	2.2	36°21'24" 50°10'35"	19	7.3	UCAC4 305-183328	13.77	18 <sup>h</sup> 04 <sup>m</sup> 19.583 <sup>s</sup> -29°04'21.392"	8.8	161	149.4	-5.8	110.7	11.9	11.7	85
2020/07/23 21:25:26	16793 1997 AA18	8.7	17.91	4.08	91	1.0	37°09'58" 49°27'32"	136	2.0	UCAC4 350-115038	13.86	17 <sup>h</sup> 45 <sup>m</sup> 41.787 <sup>s</sup> -20°04'40.175"	14.0	212	145.3	-20.2	103.5	-16.6	12.8	136
2020/07/23 23:44:28	871 Ammeris	12.2	15.12	3.52	173	2.2	34°58'12" 51°21'17"	327	0.2	UCAC4 364-138906	11.65	18 <sup>h</sup> 34 <sup>m</sup> 33.131 <sup>s</sup> -17°12'05.889"	6.8	233	156.3	-15.0	113.3	-28.2	13.6	65
2020/07/23 23:47:59	2684 Douglas	15.8	15.98	4.43	207	1.6	37°39'55" 48°25'28"	151	1.1	UCAC4 387-98362	11.57	18 <sup>h</sup> 32 <sup>m</sup> 13.869 <sup>s</sup> -12°46'30.434"	9.7	236	154.6	-14.8	112.3	-28.4	13.6	114
2020/07/24 00:09:08	2604 Marshak	18.0	15.06	2.06	41	2.3	35°47'16" 50°13'29"	299	7.8	UCAC4 370-132615	13.17	18 <sup>h</sup> 27 <sup>m</sup> 42.582 <sup>s</sup> -16°07'02.535"	3.5	240	154.5	-12.9	111.3	-29.0	13.7	80
2020/07/24 21:05:22	4577 Chikako	11.0	17.56	3.86	44	1.5	35°42'43" 50°11'51"	292	3.1	UNKNOWN UN- KNOWN	13.73	17 <sup>h</sup> 22 <sup>m</sup> 12.324 <sup>s</sup> -30°35'02.477"	3.6	210	139.1	-20.0	85.7	-11.9	21.3	135

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		
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 (%)	$\sigma_{km}$	
2020/07/24 21:08:17	6879 Hyogo	10.0	17.99	7.36	234	1.1	38°26'19" 48°29'15"	138	0.8 2.7	UCAC4 341-107558	10.64	17 <sup>h</sup> 42 <sup>m</sup> 10.970 <sup>s</sup> -21°56'40.851"	13.1	209	143.7	-20.1	88.8	-12.3	21.4	147	
2020/07/24 21:36:20	16943 1998 HP42	9.5	17.01	3.80	213	1.0	37°39'52" 48°21'14"	152	0.5 3.5	UCAC4 275-165469	13.24	18 <sup>h</sup> 10 <sup>m</sup> 52.498 <sup>s</sup> -35°09'51.020"	0.6	205	148.1	-20.5	96.0	-16.3	21.6	110	
2020/07/25 00:34:56	1393 Sofala	12.6	15.18	1.89	149	1.5	37°56'18" 49°14'45"	127	1.0 6.5	UCAC4 330-205541	13.50	21 <sup>h</sup> 43 <sup>m</sup> 29.846 <sup>s</sup> -24°04'33.936"	13.4	201	159.7	-10.5	141.1	-33.8	22.8	77	
2020/07/25 18:27:09	3393 Stur	11.0	15.60	8.79	243	1.1	33°36'28" 51°25'04"	309	0.0 11.6	TYC 5727-2110-1	6.81	19 <sup>h</sup> 34 <sup>m</sup> 50.629 <sup>s</sup> -11°10'28.608"	21.0	141	166.1	-8.6	102.8	15.8	30.4	38	
2020/07/25 21:07:56	7563 1988 BC	9.1	17.62	4.70	36	0.8	35°56'59" 50°17'16"	318	2.8 2.9	UCAC4 301-230483	12.93	18 <sup>h</sup> 26 <sup>m</sup> 39.406 <sup>s</sup> -29°48'04.915"	8.2	198	152.0	-20.3	85.2	-9.4	31.6	127	
2020/07/25 21:39:05	8851 1990 XB	11.5	17.34	3.53	67	1.2	35°27'50" 50°19'58"	298	3.0 3.4	UCAC4 294-167206	13.85	18 <sup>h</sup> 12 <sup>m</sup> 42.048 <sup>s</sup> -31°21'38.993"	3.9	207	148.7	-20.7	82.0	-14.2	31.8	137	
2020/07/25 22:00:13	16793 1997 AA18	8.7	17.95	5.86	207	1.0	38°20'01" 48°44'41"	135	0.8 2.5	UCAC4 350-113333	12.09	17 <sup>h</sup> 44 <sup>m</sup> 39.910 <sup>s</sup> -20°10'57.435"	9.7	222	143.2	-20.5	74.4	-17.4	32.0	137	
2020/07/25 23:51:10	1108 Demeter	25.6	14.46	1.15	148	3.9	34°27'08" 49°26'44"	243	1.4 15.1	UCAC4 623-115982	13.77	21 <sup>h</sup> 14 <sup>m</sup> 15.958 <sup>s</sup> 34°34'39.003"	69.1	230	124.5	-14.9	118.3	-32.0	32.8	67	
2020/07/26 18:18:15	4043 Perolof	11.0	16.75	3.07	241	1.5	39°06'12" 51°16'44"	56	0.4 3.8	UCAC4 318-171374	13.75	18 <sup>h</sup> 18 <sup>m</sup> 00.743 <sup>s</sup> -26°32'17.871"	11.7	163	149.9	-7.7	70.6	19.3	41.3	115	
2020/07/26 19:00:25	20735 1999 XU169	8.7	17.79	6.11	161	1.7	38°15'31" 49°22'13"	118	1.3 2.6	UCAC4 307-118782	11.68	17 <sup>h</sup> 16 <sup>m</sup> 44.758 <sup>s</sup> -28°46'19.824"	11.0	186	136.2	-12.4	57.0	13.5	41.8	133	
2020/07/26 19:10:40	2604 Marshak	18.0	15.15	1.97	89	2.4	37°31'32" 50°01'51"	91	4.9 8.8	UCAC4 366-126581	13.37	18 <sup>h</sup> 26 <sup>m</sup> 29.603 <sup>s</sup> -16°49'48.619"	22.9	172	151.7	-13.4	71.5	12.0	41.9	82	
2020/07/26 19:45:55	585 Bilkis	58.1	15.19	4.00	173	3.5	37°18'36" 51°27'53"	25	6.7 19.4	UCAC4 416-59877	11.22	14 <sup>h</sup> 33 <sup>m</sup> 03.174 <sup>s</sup> -6°56'02.353"	13.4	242	94.1	-16.4	13.7	6.7	42.1	118	
2020/07/26 22:08:44	5326 Vittorio-rioso	9.1	16.12	2.50	142	1.2	37°31'04" 49°03'14"	141	1.0 4.4	UCAC4 448-75232	13.73	17 <sup>h</sup> 58 <sup>m</sup> 38.953 <sup>s</sup> 0° -28'48.905"	27.3	231	139.4	-20.6	63.7	-15.8	43.3	82	
2020/07/26 22:10:11	2638 Gadolin	13.8	15.80	2.55	125	1.3	36°24'23" 48°55'47"	176	2.6 5.2	UCAC4 421-108776	13.36	19 <sup>h</sup> 00 <sup>m</sup> 19.102 <sup>s</sup> -5°59'00.231"	28.8	213	155.4	-20.6	78.6	-16.0	43.3	106	
2020/07/26 23:57:30	5371 1987 VG1	10.5	17.04	4.70	222	1.5	37°21'02" 51°55'47"	20	0.6 3.6	UCAC4 471-130959	12.35	22 <sup>h</sup> 29 <sup>m</sup> 07.035 <sup>s</sup> 4°04'43.819"	44.1	185	141.8	-14.5	130.6	-31.8	44.1	115	
2020/07/27 01:55:59	250 Bettina	79.8	13.16	0.91	30	2.6	36°30'03" 49°48'55"	149	17.4 17.7	UCAC4 570-8686	12.86	3 <sup>h</sup> 50 <sup>m</sup> 28.378 <sup>s</sup> 23°53'28.945"	45.3	108	63.7	-0.9	146.7	-44.4	45.0	179	
2020/07/27 18:30:57	2638 Gadolin	13.8	15.81	2.13	159	1.4	36°08'51" 48°37'11"	184	1.7 5.2	UCAC4 421-108251	13.84	18 <sup>h</sup> 59 <sup>m</sup> 37.596 <sup>s</sup> -5°59'08.821"	30.1	151	154.7	-9.4	67.2	19.1	53.0	106	
2020/07/27 20:21:08	3393 Stur	11.0	15.64	2.48	139	1.1	37°43'23" 49°12'57"	132	1.3 5.2	UCAC4 393-118885	13.28	19 <sup>h</sup> 33 <sup>m</sup> 08.989 <sup>s</sup> -11°24'08.961"	28.5	174	164.5	-18.9	73.5	4.5	53.9	84	
2020/07/27 21:21:52	4490 Bam-bery	8.3	16.12	3.23	5	0.6	36°20'54" 50°01'13"	124	4.9 4.9	UCAC4 458-69045	12.95	17 <sup>h</sup> 37 <sup>m</sup> 03.482 <sup>s</sup> 1°25'32.044"	31.6	227	133.0	-21.0	46.9	-4.7	54.4	68	
2020/07/28 01:53:23	433 Eros	27.5	13.71	0.70	190	0.6	34°51'15" 51°29'23"	327	1.7 11.3	UCAC4 605-17032	13.82	5 <sup>h</sup> 01 <sup>m</sup> 51.153 <sup>s</sup> 30°50'58.550"	39.0	87	48.3	-1.5	143.2	-44.7	56.5	97	

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 (%)	$\sigma_{km}$
2020/07/28 19:37:56	63087 2000 WC137	8.3	18.18	4.35	217	1.4	38°52'43" 49°04'09"	120	0.7	UCAC4 334-84707	13.85	16 <sup>h</sup> 48 <sup>m</sup> 08.375 <sup>s</sup> -23°23'03.139"	204	204	127.6	-16.2	20.9	12.9	64.8	145
2020/07/28 21:34:58	2896 Preiss	9.5	14.48	1.09	55	2.7	35°42'22" 50°22'19"	311	4.2	UCAC4 389-97899	13.89	18 <sup>h</sup> 36 <sup>m</sup> 55.105 <sup>s</sup> -12°16'47.405"	210	210	151.2	-21.4	45.3	-2.6	65.8	52
2020/07/28 23:07:53	17834 1998 HL43	8.7	17.52	4.45	12	0.7	36°12'08" 50°08'43"	331	2.8	UCAC4 426-125012	13.08	20 <sup>h</sup> 32 <sup>m</sup> 31.635 <sup>s</sup> -4°53'36.376"	206	206	166.1	-18.7	74.1	-16.8	66.3	124
2020/07/29 17:51:16	6560 Pravdo	8.7	15.55	2.87	137	0.7	36°04'19" 48°49'15"	186	0.8	UCAC4 471-124905	12.76	20 <sup>h</sup> 53 <sup>m</sup> 46.937 <sup>s</sup> 4°00'15.318"	110	110	157.0	-5.0	72.0	20.5	74.2	71
2020/07/29 18:44:43	453 Tea	20.2	13.28	0.88	41	7.9	36°51'21" 50°01'42"	93	9.5	UCAC4 284-130938	13.03	17 <sup>h</sup> 51 <sup>m</sup> 37.025 <sup>s</sup> -33°18'10.571"	178	178	140.4	-11.4	25.2	18.4	74.5	72
2020/07/29 22:11:15	55563 2002 AW34	15.8	18.95	6.77	229	1.1	34°35'23" 48°19'10"	212	1.6	UNKNOWN UN-	12.18	23 <sup>h</sup> 53 <sup>m</sup> 17.831 <sup>s</sup> 26°15'40.340"	112	112	114.6	-21.3	117.5	-3.2	76.0	276
2020/07/29 22:56:10	19445 1998 FE112	9.1	17.12	6.53	19	2.3	36°02'08" 49°59'01"	248	3.5	TYC 1724-1746-1	10.59	23 <sup>h</sup> 49 <sup>m</sup> 08.547 <sup>s</sup> 17°54'29.033"	134	134	120.4	-19.6	114.4	-9.7	76.3	101
2020/07/29 23:31:46	1498 Lahti	14.5	16.28	3.05	81	1.0	37°20'37" 49°46'42"	112	3.8	UCAC4 571-2492	13.30	1 <sup>h</sup> 09 <sup>m</sup> 53.117 <sup>s</sup> 24°03'10.831"	115	115	101.2	-17.3	133.6	-15.1	76.6	123
2020/07/30 00:39:58	3873 Roddy	9.1	16.50	6.00	77	1.0	35°15'46" 49°50'18"	252	2.9	TYC 2756-133-1	10.51	23 <sup>h</sup> 16 <sup>m</sup> 49.913 <sup>s</sup> 33°22'15.689"	195	195	115.7	-11.0	109.9	-25.6	77.0	82
2020/07/30 17:48:46	8231 Tetsu-jiyamada	8.3	17.41	4.23	11	1.3	36°21'24" 50°07'59"	28	2.8	UCAC4 319-156800	13.20	18 <sup>h</sup> 16 <sup>m</sup> 18.756 <sup>s</sup> -26°17'07.618"	160	160	145.8	-4.9	14.7	17.7	83.3	116
2020/07/30 18:06:06	17133 1999 JC81	8.7	16.04	2.82	244	1.1	33°00'60" 50°42'41"	288	0.0	UCAC4 447-90378	13.31	18 <sup>h</sup> 59 <sup>m</sup> 01.631 <sup>s</sup> 0° - 38'45.561"	145	145	149.4	-7.1	33.2	17.9	83.5	79
2020/07/30 18:16:09	4369 Seifert	12.0	14.90	1.36	46	1.7	36°25'18" 49°38'34"	168	4.1	UCAC4 432-115283	13.91	22 <sup>h</sup> 01 <sup>m</sup> 41.957 <sup>s</sup> -3°44'55.337"	107	107	155.4	-8.3	71.6	17.9	83.4	107
2020/07/30 21:14:12	3962 Valyaev	11.0	17.71	5.99	39	1.4	36°33'59" 49°44'33"	149	2.9	UCAC4 323-140555	11.73	18 <sup>h</sup> 10 <sup>m</sup> 47.780 <sup>s</sup> -25°33'38.752"	208	208	144.5	-21.6	11.4	8.1	84.5	145
2020/07/30 21:46:58	11738 1998 RK72	10.5	16.02	2.44	72	1.1	36°55'42" 49°33'23"	140	3.2	UCAC4 349-183260	13.70	20 <sup>h</sup> 16 <sup>m</sup> 57.532 <sup>s</sup> -20°14'38.487"	188	188	173.9	-21.8	40.1	4.7	84.7	100
2020/07/30 22:39:25	3766 Junepat-terson	13.2	17.47	3.76	50	1.5	36°42'22" 49°41'25"	143	3.4	UCAC4 338-137626	13.74	18 <sup>h</sup> 20 <sup>m</sup> 09.019 <sup>s</sup> -22°30'36.583"	225	225	146.7	-20.6	12.4	-1.7	85.0	148
2020/07/30 23:10:41	1927 Suvanto	13.2	16.94	3.31	77	9.1	37°20'56" 50°09'36"	81	3.5	UCAC4 402-554	13.69	0 <sup>h</sup> 28 <sup>m</sup> 47.965 <sup>s</sup> -9°36'17.438"	143	143	124.4	-19.0	99.7	-5.9	85.4	123
2020/07/30 23:35:13	7756 Scientia	10.0	17.27	3.77	132	0.8	34°32'05" 50°25'33"	289	1.8	UCAC4 324-216587	13.54	22 <sup>h</sup> 16 <sup>m</sup> 08.446 <sup>s</sup> -25°18'21.810"	185	185	157.0	-17.3	64.8	-9.3	85.3	126
2020/07/31 18:44:12	2442 Corbett	9.5	15.41	2.74	240	1.9	33°46'15" 51°30'31"	312	0.0	UCAC4 381-129267	12.76	18 <sup>h</sup> 47 <sup>m</sup> 41.705 <sup>s</sup> -13°55'36.842"	164	164	151.6	-11.8	12.5	16.0	90.9	68
2020/07/31 19:03:34	2575 Bulgaria	18.8	15.37	1.76	72	6.6	37°15'12" 50°13'17"	74	6.3	UCAC4 311-166520	13.85	18 <sup>h</sup> 09 <sup>m</sup> 44.987 <sup>s</sup> -27°58'37.910"	180	180	143.2	-13.8	4.4	16.3	90.9	68
2020/07/31 19:35:48	134 Sophrosyne	123.3	13.46	0.61	248	14.9	32°59'05" 50°46'12"	289	4.1	UCAC4 259-152772	13.76	18 <sup>h</sup> 06 <sup>m</sup> 54.992 <sup>s</sup> -38°15'35.561"	187	187	140.2	-16.7	14.6	16.1	91.1	109

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 (%)	$\sigma_{km}$
2020/07/31 19:40:22	1285 Julietta	40.8	16.16	4.29	80	12.7	35°15'26'' 50°20'05''	293	9.8 11.5	UCAC4 313-89247	11.89	16 <sup>h</sup> 25 <sup>m</sup> 27.361 <sup>s</sup> −27°25'30.572''	6.7	211	120.1	−17.1	25.2	16.0	91.0	142
2020/07/31 22:20:47	5202 Charlese-liot	10.2	17.42	4.36	109	0.6	37°40'54'' 49°39'38''	113	2.3 4.0	UCAC4 585-4211	13.08	1 <sup>h</sup> 51 <sup>m</sup> 29.242 <sup>s</sup> 26°51'00.247''	35.2	89	93.2	−21.5	119.1	5.9	91.8	102
2020/07/31 22:29:19	10672 Kostyukova	15.1	15.74	2.04	31	1.5	36°22'28'' 50°19'16''	12	3.9 4.0	UCAC4 365-170774	13.88	19 <sup>h</sup> 17 <sup>m</sup> 31.322 <sup>s</sup> −17°05'11.311''	16.5	214	159.1	−21.2	14.1	5.0	91.8	153
2020/07/31 22:41:27	6350 Schluter	11.5	16.75	3.58	240	1.3	36°15'15'' 52°12'10''	359	0.4 4.0	UCAC4 392-128891	13.21	22 <sup>h</sup> 35 <sup>m</sup> 49.055 <sup>s</sup> −11°41'04.247''	27.5	166	152.6	−20.8	60.5	3.7	91.9	115